LIFE09/ENV/FR/000593

EVENT COMPILATION REPORT YEAR 3 - Oct 2012 to Oct 2013

Included all events reports for year 3

Introduction

This action is the concrete implementation of the PMS, dedicated to the organisation of promotion events. A brokerage event is a Market place where the Research teams meet the potential end-users (clients) of the innovation to "sell" their product. Therefore, project team named the research team as "Owner" of the innovation.

Water RtoM initiative promotion (tools, strategy, guidelines and outputs) was done through 44 events (in various events categories: large events, national events and e-seminars in English and national languages). In the initial proposal, it was planned to organise specific events. Due to the difficult to attract enough attendants, the strategy was changed ensuring the presence of the water professional; the Ex-board has decided to attend existing events instead of organise specific ones.

Considering that the situation is not the same from a country to another (national seminars run well in Romania and Poland, while they did not in Spain and France), the Ex-board has decided that the participation, or not, to the planned event is an internal decision per country. In Spain and France we have decided to organise side events and stands to existing events.

This strategy is relevant because finally Water RtoM have been present at 35 large and national events with a lower budget than the 22 events planned in the initial proposal.

Events in brief

The lesson learnt from the dissemination strategy through our participation to events highlight the difficulty to attract people for future collaboration. The ratio is maximum one potential contact per event and one contact really achieved (the uptake of the output GNIEZO). The events are not the best canal to disseminate innovative outputs, and they are relevant to promote Water RtoM tools and service. The dissemination of the innovative outputs is more a face-to-face meeting that a broad dissemination during conferences, seminars or business events.

Summary table of the attended events

Events	Planned	Achie-ved	Reached people (Potential future collaboration)	Comments
Large events	6	**18**	100 (40)	Larger event or conferences organized by the partners and associated partners, about a rather wide spectrum of precursors. Only participation to large events and not organisation due to the lack of interest from the water stakeholders: EXPOAPA, EURO-INBO – SMAGUA - World Water Forum – WODKAN – Green Week – POLEKO – POLLUTEC – Final event of Water RtoM… Languages: EN (16) – FR (2)
National seminars	16	**17**	500 (0)	Organized at local (national or regional) level, focused sharply on one topic, with direct audience - To avoid lack of participation, we have participated along to existing events in which it is sure that water community or target groups are present. Languages: FR (1) – PL (7) – ES (4) – RO (4) – EN (1)
E-seminars	12	**9**	50 (0)	2-hour web-based conferences, focused sharply on one topic, usually one seminar refers to one output presentation: EHREK, GNIEZO, WCMS, GREENLYSIS, Settler filter, wired trees, Guidelines Information sent to 2000 persons for each e-seminar, 0,25% registered, some registered but did not participate. In august and Sept 2013 we had no participants for the 3 e-seminars on the Guidelines and ADEMETER output. Even if the tool is very interesting tool it is not yet a usual system of communication for the water professionals. It is a long term strategy. Languages: EN (2) – FR (3) – PL (2) – ES (1) – RO (1)
	34	44	650 (40)	

Table of events Sept 2010 – Oct. 2013

		Events	Issues treated	Number of participants	Place	Partner	Dates	Comment (impact, nber of useful contact…)	
		LARGE EVENTS							
EU Events	1.	EXPOAPA (1)	International Specialized Exhibition for Water Supply, Sewerage and Wastewater Treatment Annual Water Forum, exhibition event, with series of coferences, seminars, round tables. Traid fair	Very large event	Bucharest (RO)	CFPPDA	14.06.2011		Year 1 (Event compilation N°1 – in MidTerm report)
	2.	IBERIAN CONGRESS on Groundwater : Management	Congress on ground water "Challenges for the 21st Century"	Approx 300 participants	Zaragoza (SP)	Amphos 21	14-17.09. 2011	6 Contacts 2 of them with researchers: 2 promising outputs to be evaluated through REMAS (SMAA and AQUATOOL)	
	3.	EURO-RIOB	General assembly of the European Network of basin organisations. Main topics on the implementation of the Framework Directive (WFD) in the National and Transboundary River Basin Districts,	300 participants 20 attendants to WRtoM brokerage event	Porto (PT)	OIEau / all partners	29.09.2011	3 contacts: French water agency, other owners interesting in the outputs presented No continuation	
	4.	SMAGUA	Fair International Of Water And Environment? For professional only	35 000 visitors	Zaragoza (SP)	A21 - OIEau	7.03.12	Contacts: 2 researchers : 2 promising outputs to be evaluated through REMAS 3 SME and 1 river basin agency	Year 2 (Event compilation N°2 – in progress report n°2)
	5.	WORLD WATER FORUM	Conference, workshop, debate, high level panels to bring water high on all political agendas	35 000 visitors	Marseille – (FR)	A21 - OIEau	14.03.12	No interesting contacts	
	6.	WODKAN	International Fair of Machines and Facilities for Water Supply and Sewage Systems	500 visitors	Bydgoszcz- (PL)	GFW	22-24.05.2012		

		Events	Issues treated	Number of participants	Place	Partner	Dates	Comment (impact, nber of useful contact…)	
	7.	GREENWEEK	The biggest annual conference on European environment policy, 2012 was fiocused on water	3 200 visitors	Brussels (B)	All	22-24.06.2012		
	8.	HYDROGAIA	Business event for water professional organised in partnership with the Pôle Eau, the French Global Water Competitiveness Cluster? EEN with an international vision.	3 500 visitors	Montpellier (FR)	OIEau	6-7.06.2012	9 contacts (face to face meetings). All interested but No continuation	
	9.	EXPOAPA	International Specialized Exhibition for Water Supply, Sewerage and Wastewater Treatment Annual Water Forum, exhibition event, with series of coferences, seminars, round tables. Traid fair	Very large event	Bucharest (RO)	CFPPDA	11-13.06.2012		
	10.	EURO INBO (year 2)	European conference « Europe INBO 2012 » On the implementation of the water framework directive	350 participants	Istanbul (TU)	OIEau / INBO	16/18.10.2012	25 visits, 2 contacts from French water agencies. No interesting contacts for the outputs	Year 3 (Event compilation N°3 – in Final report)
	11.	THIRD EVENT OF SCIENCE POLICY INTERFACE (SPI), Framework on water science meets policy: How to streamline knowledge to address WFD challenges?"	Basis of "SPI success stories", focus on how to improve the transfer and usability of the research outputs and promote knowledge brokering practices and operational structure to streamline their implementation	77 participants	Brussels (B)	OIEau	14-15.11. 2012	No contacts for future collaboration	
	12.	POLEKO	International Trade Fair of Environmental Protection	15 000 visitors	Poznan (PL)	GWF	20-23.11.12	25 new contact for further information dissemination 50 people involved in discussion about projects possibilities, interested in our tools for their daily work. Interest for 3 outputs	

		Events	Issues treated	Number of participants	Place	Partner	Dates	Comment (impact, nber of useful contact…)	
	13.	POLLUTEC	The show for cleantech, energy and sustainable development	63 000 visitors, 2300 exhibitors	Lyon (FR)	OIEau	28.11.2012	5 face to face meetings. Potential users of Water RtoM as a Service, one potential owner	
	14.	Brokerage event CONAMA	National Congress of the Environment		Madrid (SP)	A21	26-30.11. 12		
	15.	NOVIWAM (EU project), final conference	Final NOVIWAM Conference: "Connecting authorities, researchers and businesses on water management RTD&I"	100 participants	Sevilla (SP)	A21	21-23.01 2013	15 new contact for further information dissemination 10 face to face meetings 1 Creation of synergies as a similar initiative	
	16.	COST/WSSTP seminar	This joint conference is dedicated to the urban context and focuses on building bridges between research and water-related societal challenges. Its aim is to explore the cornerstones of water innovation and its applicable directions to the market.	150 participants	Brussels (B)	OIEau	16.04.2013	No future collaboration	
	17.	EXPOAPA	International Specialized Exhibition for Water	60 participants	Bucharest (RO)	CFPPDA	10-12.06.2013	4 contacts for future collaboration	
	18.	FINAL EVENT OF WATER RTOM	Presentation of Water RtoM tools and strategy. Exchanges with researchers and end-users. Closing the project	Average 40 participants	Barcelona (ES)	A21+ all	25.06.13	5 contacts, potential future collaboration	
		NATIONAL EVENTS							
National events	19.	Final Workshop WATERCHANGE	Presentation of the Water Change project	30 participants	Barcelona –(SP)	A21	23/02/12	Presentation of Water RtoM as an experience of knowledge transfer. Amphos 21 has identified 4 New research projects to be assessed through ReMAS and has identified one New contact as end-user:	year 2 (Event compilation N°2 – in progress report n°2)
	20.	Final Workshop , ACCUA project			Sant Celoni (SP)	A21	27.02.12		

		Events	Issues treated	Number of participants	Place	Partner	Dates	Comment (impact, nber of useful contact…)	
	21.	Promotion during each training organized by GFW	Season for trainings	100 participants	Gdansk (PL)	GWF	starts from Feb to Dec.- excluding the summer	Yearly we organize 50-60 training with over 20 people participating on each	
	22.	Kielce conference EKOTECH	International Environmental Protection and Waste Management- Fair of Ecology, Municipal Waste Services, Recyclable Materials, Waste Management and Recycling	6500 visitors	Kielce (PL)	GWF	07.03.2012	Conclusions after the event is that it is good to share an event organization with a bigger party	
	23.	Seminar in Technical University of Gdansk	Inform the audience about main objectives of the WaterRtoM project. Dscription of evaluation tools designed	27 participants	Gdansk (PL)	GWF	14.03.2012	interested in a context of dissemination of project event. some of them might become the potential partners for future outputs	
	24.	National seminar	"Transferring water research outcomes in practice"		Bucharest (RO)	CFPPDA	27.03.12	Promotion of water rtom and 12 outputs Willingness to invest to services such Water RtoM is high by organizations from the private sector	
	25.	NOVIWAM workshop	A dedicated session on Science Policy Interface to the partners of NOVIWAM coming in Limoges. Presentation and discussion on Water RtoM issues	27 participants	Limoges (FR)	OIEau	27.03.12	The partners of NOVIWAM are interested by the tools of Water RtoM.	
	26.	National Seminar, side event of II FORO EUROPEO AGUA	The whole event was a two days forum, the second day was dedicated for workshops of LIFE+ projects dealing with water, Water RtoM hold two workshops	100 participants	Madrid (SP)	A21	8-9.05.12		
	27.	Topical session Water RtoM,			Madrid (SP)	A21	May 2012		

		Events	Issues treated	Number of participants	Place	Partner	Dates	Comment (impact, nber of useful contact…)	
	28.	STUDY TOUR	to invite decisive people from the water and sewage management sector as well as semi - decisive people from governmental administration of environmental protection to a Factory and a construction site which uses special ceramic pipes and innovative methods of their installation	32 participants	Berlin (D)	GWF	05-07.11.2012	GWF had delivered information on the outputs and contacts with owners Most of the participants showed an extend interest in out Genesis output and outputs related to water aquifer recultivation due to the environmental pushed towards this subject	Year 3 - (Event compilation N°3 – in Final report)
	29.	AQUATECH	Gather together water professional former students in Limoges University. Topics in 2013: "Carbon footprint, savings and energy recovery in water treatment facilities	Average 50 participants	Limoges (FR)	OIEau	7.02.2013	No interesting contacts, no interest for the outputs promoted	
	30.	Water research output supporting the implementation of public health request"	Debate about the relevance of the innovations selected by Water RtoM and their potentiality to be used by the participants or potential users, and how they can be further promoted or improved to be up taken	52 participants	Bucharest (RO)	CFPPDA	12.03.2013	Willingness to invest to services such Water RtoM by organizations from the private sector	
	31.	POLITECHNIKA GDAŃSKA	Seminar devoted to the subject of research project related to the implementation of Water Frame Directive and its daughter directives	A class of students	Gdansk (PL)	GWF	14.03.2013	Promotion of research outputs connected with the lake remediation procedures.	
	32.	"Evaluating opportunities for research results transfer in future investment projects for regional operators" (Iași)	Debate about the relevance of the outputs and Identify ways of financing the implementation of research products. Identifying needs to improve research products.	Average 50 participants	Bucharest (RO)	CFPPDA	15.03.2013	3 research results selected by Water RtoM were disseminated. Resistance to change from the operational staff	

		Events	Issues treated	Number of participants	Place	Partner	Dates	Comment (impact, nber of useful contact…)	
	33.	National seminar "RECULTIVATION OF LAKES"	To connect the announcement of the Pomeranian Voivodeship Board, about naming year 2013 official lake year, and activities of Gdansk Water Foundation in the Water Research to Market project.	40 participants	Gdansk (PL)	GWF	19-21.03.2013	35 new contacts for information dissemination Invitation of 5 owners of outputs. Uptake of one output – contact for future collaboration	
	34.	National seminar: INNOVATIVE SOLUTIONS AVAILABLE for improving water losses activities	Debate about the relevance of the innovations selected by Water RtoM and their potentiality to be used by the participants or potential users, and how they can be further promoted or improved to be up taken.	67 participants	Bucharest	CFPPDA	9 June 2013	Interest from the public utilities to by aware about the new efficient solutions develop by research teams	
	35.	Promotion during seminars and trainings	Disseminate some information about the outputs that are accepted for further promotion	100 participants	Poland, Gdansk	GWF	Training season august-December. 2013	Promotion of Water RtoM	
		E-SEMINARS							
E-seminars	36.	RECULTIVATION OF JELONEK and Winiary lakes in Gniezno by inactivation of phosphorus in bottom sediments"	Recultivation of Jelonek and Winiary lakes in Gniezno by inactivation of phosphorus in bottom sediments" and authors invited: PROTE- authors off the technology, authorities of Gniezno community-	10 participants	online	GFW	16.05.2012		(Event compilation N°2 – in progress report n°2)
	37.	« EHREK output »	Convince them about applying the technology in their own cities, on their own water aquifers.	7participants	online	GFW	29.08.2012		
	38.	GLOBAL CHANGE – WCMS output: How to better estimate the impacts of global change in long term water resources management?	Create awareness on the WCMS tool and encourage participants to uptake it.	4 participants	online	A21	04.10.2012		

		Events	Issues treated	Number of participants	Place	Partner	Dates	Comment (impact, nber of useful contact…)	
	39.	Meetings of the working group Quality-Environment of the Romanian Water Association	Dissemination of the service WaterRtoM. Identify the solutions to fill the gaps on the addressed outputs	20 participants	Campulung Muscel (RO)	CFPPDA	15.02.2013	Presentation of 3 outputs Water companies limitations in terms of direct acquisition.	Event compilation N°3 – in Final report
	40.	ADEMETER outpiut: Automated Meter Reading solution for non-energized meters for urban water.	The e-seminar brings the possibility to establish active discussions among practitioners and researchers	0	online	A21	20.09.2013	Cancelled because of no registration	
	41.	E-seminar on Energy saving in water treatment plants	Presentation of Water RtoM and Innovations in the field of energy saving and recovery in Water treatment facilities	5 participants	On line	OIEau	30.04.2013	No future collaboration No external participants	
	42.	E-seminar on River Restoration, new technology or storm water management	Presentation of WaterRtoM and 2 concrete cases of innovations in river restoration techniques,	10 participants	Online	OIEau	02.05.2013	No future collaboration	
	43.	E-seminar “Guidelines”	Presentation of the Guidelines and debate	0 - cancelled	Online	OIEau	31.05.2013	Large promotion and invitation sent by e-mail. No registrations, no participants	
	44.	E-seminar “Guidelines”	Presentation of the Guidelines and debate	0 - cancelled	Online	A21	27.09.2013	5 registrations, 0 participants	
			TOTAL		**44**				

ANNEXES: all events reports – Year 3

Water Research to Market

Large EU events

EURO INBO – Istanbul, Turkey
17-19 October 2012
at Istanbul Grand Cevahir Hotel & Convention center

1. Objective of the event:

This event takes place during the 10th European conference on the water framework directive implementation organised by EURO-INBO (European branch of the International Network of basin organisations).

The objective for participating to this event is to promote Water RtoM through the demonstration of the e-fair content to demonstrate the value of Water RtoM as potential service for the policy makers and the end-users (water administrations, researchers).

2. Targeted Audience

Water organisation and administrations, researchers.

3. Expected behaviour of the targets

To be aware of the potential service provided by Water RtoM and to use the service for their own issues.

4. Message to deliver (simple, clear, concise, single)

Water RtoM fills the gap between the end-users' needs and the Research
Water RtoM evaluate the research financing by the policy makers in term of distance to the market and mainly what are the next steps to use the innovations.

5. Means & Resources to implement to reach the objective

Internal and external resources

The conference is organised under the Euro-INBO secretary. Water RtoM was invited to present Water RtoM in a plenary session. During the 3 days of the event, Water RtoM was just in front of the room conference with a and thanks to a corner at our disposable, the participants could visit the stand during the 3 days of the event. A list of outputs in link with the themes of the conference was provided to illustrate concretely the added value of Water RtoM strategy.

Speaker for Water RtoM: Natacha Jacquin.

6. Agenda, date and place:

The 10th conference of the "EUROPE-INBO" group was held in Istanbul, Turkey, from 17 to 19 October 2012, at the invitation of the Turkish Water Institute (SUEN).

The conference was organized around six major issues:
- Water, food and energy nexus;
- Cooperation with EECCA and Mediterranean Partner Countries on the implementation of the WFD principles and methods;
- Improve water governance in transboundary river basins;
- Adapt to challenges linked to climate change and to the prevention of extreme phenomena: with the implementation of the Floods Directive and the reduction of drought risk in particular;
- Develop new approaches to river restoration and protection of water ecosystems;
- Economic analysis, cost recovery under the WFD, value of ecosystems services, water resources use efficiency, involvement and solidarity of the stakeholders,

Water RtoM presentation was set up 17th October 2012 during the first round table (http://www.inbo-news.org/events/istanbul-turquie-euro-riob-2012/communications-papers/mercredi-17-octobre-2012/1ere-table-ronde-first-round-table/?lang=en).

7. Budget (€)

Travel and subsistence's for natacha Jacquin
Printing of 50 newsletters dedicated to the event

8. Indicators to evaluate the achievement of the objective

Number of participants in the plenary session: 350
Number of visits in the stand: 25
Number of interesting contact in Water RtoM: 2
Number of interesting contact in the Outputs: 0
Number of business cards distributed: 25
Number of newsletter dedicated to the event distributed: 50
Outputs promoted: 6 (EULAKE, Water Change, ACCUA, OpenMI, TETIS, SEMEAU) related to climate change innovative research outputs (one of the topics of the conference).

9. Main constraints

No risk

10. Implementation of the action

The conference gathered 354 participants, representatives of national administrations and basin organizations as well as Research Centres, Universities, NGOs and companies from 47 Countries.

At the start of the conference, Waer RtoM has presented during the first round table in plenary session the objectives and results of the project. Following the presentation around 25 people came to visit the stand for more information.
Two French water agencies were very interested by the strategy and the utility of such service. Nevertheless, they were interested to organise the assessment of their financed research projects, but without financial participation.

11. Lessons learnt

During the project Water RtoM, the French and Spanish partners have decided not to organise events by ourselves because of the lake of interest of the potential innovators.

Regarding Water RtoM, participants were very interested in the presentation, they asked lot of question to better understand. Nevertheless, the contacts were no pursued.

12. Photos of the event

Natacha Jacquin (Water RtoM presentation, OIEau)

N. Jacquin with a participant

Two French agencies representatives

More photos: http://www.inbo-news.org/events/istanbul-turquie-euro-riob-2012/photos-photos-fotos-470/17-oct-2012-ouverture-et-tables/article/1ere-table-ronde-first-roundtable?lang=en

13. Presentations

In annexes:

- PPT (in english)
- Newsletter (in French), available http://www.waterrtom.eu/sites/default/files/newsletter/NewsletterWaterRtoM_FR_EUROINBO_oct%202012.pdf
- List of participants

Annexes

Presentation
Newsletter
List of participants

Water RESEARCH to MARKET

to speed-up the transfer of water related research output to better implement the water directives

WATER RtoM project

LIFE09 ENV/FR/000593

(sept 2010 – Aug. 2013)

EURO INBO 2012

International Office for Water

AMPHOS 21

Gdańska Fundacja Wody

Context

- **Partners**:
  - Office International de l'Eau (OIEau), coord. - F
  - Gdansk Water Fundation – POL
  - Amphos XXI – ES
  - Training center of Romania – RO

- **Context**:
  - Less than 40% of Water Bodies will meet the good ecological status in 2015 (WFD)
  - Needs of new initiatives and knowledge
  - Difficulty to transfer the research outputs to the practitioners in a short time (<10 ans)

- **The idea is:**
  - To speed-up the transfer of water related research outputs to better implement the water directives by adding a step in the existing transfer schemes

AMBITION OF WATER RTOM

To offer a service for practitioners and to promote the innovation via e-fair, events…

- To make the current **innovations available** to a regional, a national and an EU level
- To identify **the needs** of tools for the practitioners
- To **boost the transfer** by adding a step in between the existing transfer schemes

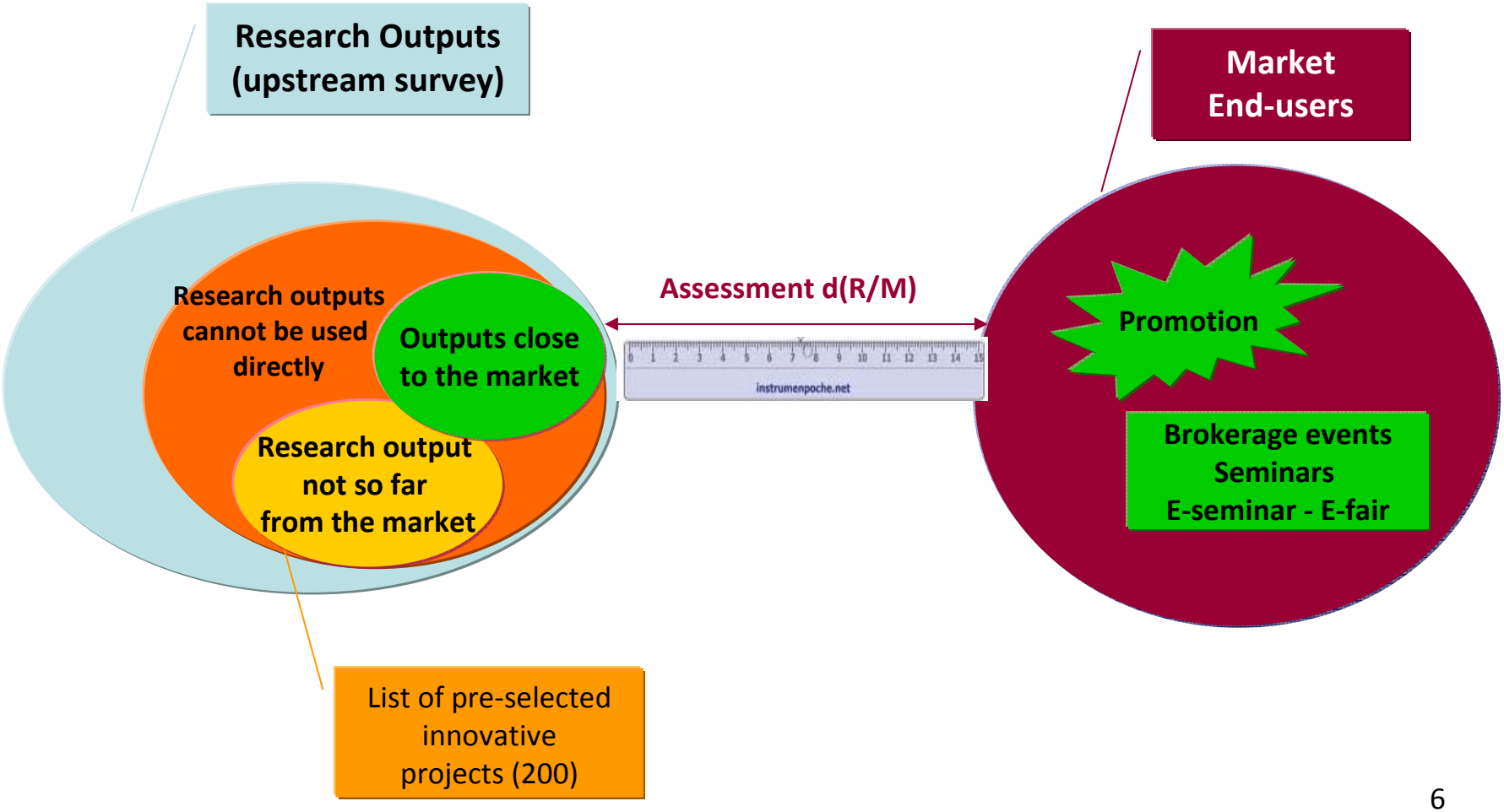
Water RtoM E-fair

- **200** preselected projects (EU, PL, ES, RO, FR)
  - **50 assessed in term of distance to the market, available in the E-Fair (2012)**
  - 75 available in 2013
- Themes:
  - Climate change: 6 products
  - River restoration: 5 products
  - …

WHO IS WRTOM FOR ?

- Basin and sub-basin authorities
- Urban planners and municipalities
- Water users - agriculture, industries
- “Doers” - suppliers of technologies, consultancies, operators (public or private)
- Researchers and research funding bodies

Methodology



Visit us on our stand Oct 17-18

And Take few moments on
the climate change innovative research outputs…

EULAKES

Water Change

ACCUA

SEMEAU

TETIS

OpenMI

Or other thematic

Thank you for your attention…

Water Research to Market

LIFE09 ENV/FR0593 – date 01/09/2010 – 30/08/2013

n° spécial EURO-INBO
Oct. 2012

Lettre d'information en français

contact@waterrtom.eu

WATER RESEARCH TO MARKET

Pour accélérer le transfert des résultats de la recherche dans le domaine de l'eau vers les utilisateurs

Le projet LIFE09 ENV/FR/000593 (01/09/1°-31/08/2013), Water Research to Market, vise à accélérer le transfert des résultats de la recherche en ajoutant une étape complémentaire au schéma de transfert des innovations actuel entre les Chercheurs et les utilisateurs finaux (les praticiens, les collectivités, les services de l'eau etc…).

Le projet expérimental est porté par un consortium de 4 partenaires (OIEau, Fondation de l'eau de Gdansk, Centre roumain de formation, Amphos21 en Espagne) … **lire plus**

(Le comité d'experts Water RtoM en Roumanie)

LES PRODUITS DU E-FAIR ET EURO-INBO

A l'occasion de Euro-INBO à Istanbul, Water RtoM vous invite sur son **stand** pour vous présenter la démarche Water RtoM qui développe des outils pour accélérer le transfert des résultats de la recherche vers les gestionnaires de l'eau, public ou privés. Water RtoM vous propose un focus sur les innovations « Gestion des ressources et changements climatiques » : 6 innovations. Venez faire votre « marché » …

Quelques outils d'aide à la décision « Gestion des ressources et changement climatique » : Water Change, ACCA, SEMEAU, Open MI, EULAKES, TETIS

Water Change (http://www.life-waterchange.eu/) –EU/SP
L'innovation est un modèle « Water Change Modelling System – WCMS » qui permet d'évaluer les impacts des changements climatiques sur les ressources en eau et de définir les mesures adaptées pour établir les plans de gestion des ressources à moyen et long terme. L'outil est prêt à être utilisé directement par les gestionnaires de bassin. (video dans le E-fair).

ACCUA - SP
Modèle et méthode qui permet de réaliser des cartes de la vulnérabilité des zones naturelles et des terres agricoles au changement climatique, définir des scénario sur la disponibilité de l'eau, prévoir une planification adaptée. Le caractère innovant de la démarche est l'approche multidisciplinaire,

SEMEAU (http://www.life-semeau.eu) –EU/FR
L'outil de modélisation SEMEAU permet de simuler de manière conjointe les eaux de surface et les eaux souterraines, tant du point de vue quantitatif que de leur qualité. Il combine activités forestières, le développement local et la gestion de la ressource.

OpenMI (http://www.openmi.org/) - EN
OpenMI est un standard d'interface qui permet de lier différents modèles existants facilitant ainsi la compréhension des interactions entre les processus (par exemple quel est l'impact du changement climatique sur les couts des assurances Inondations).

Water RtoM en chiffres

- 200 projets référencés
- 50 résultats de la recherche analysés en termes de distance au marché
- 10 innovations faisant l'objet d'un business case (définit les activités à mener pour le rendre opérationnel)
- 16 évènements par an en France et en Europe
- 8 e-séminaires thématiques par an
- Un site internet **www.waterrtom.eu**
- Une « foire aux innovations » via un e-fair **www.waterrtom.eu/e-fair**

EULAKES (http://www.eulakes.eu) – EU/IT/PL/DE
Dans un contexte de changement climatique, le projet développe un modèle de gouvernance autour des lacs du Centre de l'Europe qui combine la surveillance environnementale, l'évaluation des risques et une démarche participative (avec les communautés locales et les gouvernements).

TETIS (http://lluvia.dihma.upv.es/EN/software/software.html) - SP
Modèle hydrologique distribué qui permet d'évaluer les risques. Le caractère innovant tient de sa possibilité à prendre en compte l'ensemble du bassin versant et comprendre les processus hydrologiques l'échelle du bassin ainsi que prévoir les effets des changements climatiques.

Et aussi de nombreux projets dans la base de données du groupement d'intérêt scientifique Climat, environnement et société (GIS Climat), Si certains vous intéresse, Water RtoM peut évaluer leur distance au marché : **http://bddrecherche.gisclimat.fr/fr/content/impacts-du-changement-climatique-et-adaptation-base-de-donnees-de-projets**

LES ACTUALITES

Prochain E-séminaire

- Outils de gestion de la ressource et le changement climatique: Nov 2012
- Procédés de désinfection des eaux usées urbaines: Déc. 2012

En attendant, retrouvez Water RtoM

- en participant à **nos e-seminaires**, **inscription ici**
- Calendrier des e-seminaire, à suivre régulièrement sur le site
- à POLLUTEC le 28.11.2012 sur le stand de l'OIEau

WATER RTOM EN 2012

- Le projet a démarré en Sept 2010. La première année a permis de définir les outils pour « faire émerger » les innovations les plus prometteuses, établir une « méthode d'évaluation » des résultats de la recherche par rapport à leur distance au marché et la tester sur quelques produits de recherche.
- L'année 2012 est une année de test des outils et stratégies ; l'équipe de WaterRtoM a identifié près de 200 produits potentiellement intéressants. Une cinquantaine de résultats de la recherche ont fait l'objet d'une évaluation en termes de leur **distance au marché** ; cela signifie : identifier les étapes qu'il reste à développer pour le rendre utilisable par des gestionnaires de l'eau.
- Water RtoM a participé et organisé des évènements européens et nationaux (Green Week à Bruxelles, HYDROGAIA à Montpellier, SMAGUA à Sarafgosse, VODKAN en Pologne etc, pour promouvoir des innovations ainsi que la plus-value d'un service WaterRtoM. Le prochain **rendez-vous est à POLLUTEC, sur le stand de l'OIEau, mercredi 28.11.2012**
- Les nouvelles technologies de l'information sont utilisés pour touchés un public varié, ciblé et à distance : e-séminaires thématiques, le e-fair (la foire électronique aux innovations)
- **Plus...**

Les partenaires WaterRtoM

Avec le support des partenaires associés (comité d'experts)

En 2013

- En 2013, le E-fair s'enrichit à 75 innovations.
- Water RtoM développe les rendez-vous électronique en augmentant la fréquence des e-séminaires thématiques

Pour tous les rendez vous 2013, suivre régulièrement le **calendrier des évènements**

Agenda 2012

- EURO-RIOB 2012 (Istanbul, 18-19.10.2012)
- POLEKO 2012 (Poznan, 22-25.11.2012)
- CONAMA 2012 (Madrid, 26-30.11.2012)
- POLLUTEC 2012 (Lyon, 28.11.2012))
- IVe rencontre de la Plateforme technologique espagnole de l'eau (PTEA, Pampelune, 27-29.11.2012)
- E-séminaires **s'enregistrer en ligne....**

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THIRD EVENT OF THE SCIENCE POLICY INTERFACE (SPI) ACTIVITY UNDER THE WFD COMMON IMPLEMENTATION STRATEGY (CIS) FRAMEWORK ON "Water science meets policy: How to streamline knowledge to address WFD challenges?" **14 and 15 November 2012 in Brussels, Belgium**

Action: Communication **Type of the communication action : poster session**

1. Objective of the event:

The event aims at gathering experts involved in the CIS SPI activities to discuss on how to streamline knowledge to adress WFD challenges. The CIS SPI activity was started in 2010 as an ad hoc activity lead by ONEMA and DG RTD for a period of 3 years 2010-2012. The activity finishes this year and it is therefore necessary to discuss about its possible future, its usefulness and if it should be continued, what are the lessons learnt and future possible activities. The Workshop should lead to define recommendations and possible future activities for a renewed work programme.

OIEau is supporting ONEMA for the organisation of the event and will be present at the meeting.

The conference organisers offer a Poster session to allow SPI related projects to present their projects and results.

2. Targeted Audience

SPI experts and knowledge brokers, researchers, policy makers

3. Expected behavior of the targets

Take the visit card and flyer and go to the project website
Discuss with the WaterRtoM representative present that will explain what is WaterRtoM and advantages and interest for researchers and for policy makers to propose innovations and identify innovation of interest for their needs.

4. Message to deliver (simple, clear, concise, single)

WaterRtoM helps you to identify relevant research results for your sake needs

WaterRtoM helps you to promote your research results and find additional funders or developers

5. Means & Resources to implement to reach the objective

Who : Benoît FRIBOURG-BLANC (OIEau)

A2 poster + leaflet + visit card

6. Agenda, planning, date and place

Website: http://cisspi-registration.teamwork.fr/en/programme
Dates: 14-15 November in Brussels
travel on 13th November afternoon and return on 15th November evening,
preparation and printing of the poster on week 5-9/11

7. Budget (€)

Direct personal costs: none, Benoit is present at the conference under CIS-SPI assistance contract to ONEMA
External Assistance costs (printing, etc…) : printing costs of the poster 9€
Travel and subsistence costs… : none, Benoit is present at the conference

8. Indicators to evaluate the achievement of the objective

Number of participants to the conference: 77
Number of leaflets distributed: 20
Number of visit cards distributed: 10
Increase of the number of hits on the website (difficult to measure)

9. Main constraints

Need for a A2 poster

10. Implementation of the action

The poster was made available on the beginning of the first day of the conference at the entrance of the building where coffee breaks were also organised, and was made available to the entire audience of the conference.

11. Lessons learnt

It is recommended to come with a bigger poster also has the requested size was not controlled afterwards and the poster hangers allowed A0 posters.
It is recommended to insert in participants dossier the leaflet and visit card.
It is recommended to ask the organisers an authorisation to make a side event to present the project

12. Photos of the event

All documents used and photos taken are placed here:
http://collaborate.oieau.fr/OpenKM/com.openkm.frontend.Main/index.jsp?fldPath=/okm:root/Water_RtoM/Working documents/WP3 Promotion innov precursors/WP3.3 Events/Events Y3/CIS-SPI-conference-Nov2012

13. Presentations (pedagogic documents)

See poster presented

Remarque :

- **People remember :**
  - 20% of what they ear,
  - 30% of what they see,
  - 50% of what they ear and see in the same time,
  - 80% of what they restitute after reading and earing,
  - 90% of what they say.

Brokerage event

POLEKO

1. Objective of the event:

Major objective of our participation in POLEKO trades was to propagate the concepts of WaterRtoM project and the outputs it is promoting. As before, we have focused on distributing knowledge to POLEKO participants on the subject of water directives ,their regulations and implications on the market and the general connection it has with the project we all represent.
We have gathered promotional materials with official logos, web page information as well as newsletters, brochures and outputs sheets. Each participant , was given a set of information which is a briefcase including: newsletter, brochure (Polish and English), FC of all outputs promoted from polish partner, pen (with logo and web page address), business card with contact information and gifts (gadgets) including project web page address and contact details. Before handing the materials out we have asked about permission to send information under given e-mail address. At the same time we have been trying to find out which output would be of more interest to forward its details to the project owner – to increase the chance of contact between them. We have also managed to meet with ZiZOZAP and FOKS representatives. They have confirmed their involvement in promotion of their outputs as well as our project and stated that they will send us more promotion materials that we can disseminate during next events.
Another objective of our actions was to focus on individual persons that represent our target group (end –users for their outputs but also project owners) to help us identify our future actions and give us the feedback from our activities so far. We have asked them about the form of documentation and promotion and encouraged to give us their suggestion which we can introduce in the future to enhance the work of WaterRtoM project. Among most often response was the conclusion that FC is a sufficient material as a starting point of a contact, however it is the project owners that should be involved in other actions. Furthermore BC document does not need to be public because the information it includes is too long to read and to detailed –according to some participants. Also it was stated that we should be more focused on enabling the meeting between project coordinators and the audience than between us and the audience- this way the promotion mechanism would be more successful.

2. Targeted Audience

The target audience of this event are units connected with water management and supply. To specify: local and national authorities, private and public companies, private investors, universities, researchers. Direct group of recipients depends on the type of the output presented due to the fact that the end products of many projects can differentiate from technologies through methodology to guidelines.

3. Expected behaviour of the targets

The expected effect of the event on participants is to increase the transfer of knowledge and theory into practise. We would like to enhance the information dissemination between the output owners and the end users. To do that we try to question out the potential area of interest of a person to guide him to the output/outputs of interest. For each of participants we have prepared a whole pack of information including gadgets, contact details and factsheets, we have also prepared list of contacts to

disseminate the information further.

Our major goal in influencing the behaviour of targets is to enable them the use of output through creating a direct net of communication between him/her and the output owner. Our goal is to make sure that the outputs we find are in any use in the future and this might be accessed through their interest and contact.

On POLEKO event we have also tried to focus on finding new projects that are worth promoting. Some of them are financed by own resources which makes it almost impossible to track them down on the web page therefore why we have tried to get to know where such project might be found and what is the target group in charge of them. Last two days were good to estimate that the majority of project financed by own resources are coming from private or public university grants-therefore this is the area we should also focus permanent watching on.

4. Message to deliver (simple, clear, concise, single)

Message to be delivered: The possibilities and objectives of Water Research to Market project, dissemination of information about water directives and innovative technologies that would help in achieving the regulations stated by the UE framework. Importance of ecological technologies on the market. With a big event like this it is also very important to use the chance and get some feedback about our work- how to enhance it, what to change and where to find new projects.

5. Agenda, planning, date and place

POLEKO, 20-23.11.2012, Poznan, Poland

6. Indicators to evaluate the achievement of the objective

- Dissemination of over 100 folders with complete information set
- Dissemination of around 150 business WaterRtoM cards
- 25 new contact for further information dissemination (Accessible in the GWF materials if needed. They will be used to send information about projects update)
- Over 50 people involved in discussion about projects possibilities

7. Implementation of the action

POLEKO event ought to be consider as a success. Due to the fact that we have been placed in a hall devoted to sewage technologies we had a significant interest as a unit that stand out. Guided by out former experience on Green Week stand – we have also decided to join the stand with Centre of Education and Ecological Information- our sub unit. We did this not only to create a diverse environment on the stand but also to make sure that the target audience interested in the Centre will get the chance to receive some information about WaterRtoM project. Units cooperating with the Centre are involved in many projects worth our attention. Most of them connected with education and biodiversity, however a big number comes from Environmental Universities or private units of environmental sector that have their own outputs (for example water resource database) or are

involved with institutions responsible for them. Therefore as a result of our suggestion, the Centre of Education and Environmental Information has confirmed to implement the elements of our project (permanent searching, information dissemination) in its own work and help us to improve our actions.

POLEKO is a good chance to observe the environmental trends of coming years which should also be a sign for us to identify current market needs and focus on outputs form specific group of environmental subjects- biogas, sewage management, water purification. For that reason we have also established a contact with other exhibitors. During our visits on their stands we have asked them about their areas of interest, what technology would be welcomed by them if available on the market, what is new in their fields of interests and what is worth for our activities to focus on. They have had few ideas that could focus our research on different subject of water and environmental management.

8. Additional comments

Due to the new idea of a promotion which I have updated you some time ago, I wanted to share the experience. It is a good idea to provide a direct contact with the output owners and GWF using many chances for discussions with participants or other exhibitors – we have been filling the list with names and most possibly contact details of potential end users. Not all of the projects had someone interest in it, mostly it was GNIEZNO, EHREK and ECOROB projects. This list will be forwarded to the output owner and we hope that the direct contact between them will increase the possibility of output dissemination and its application to a wider market. For this reason we encourage all partners of WaterRtoM to copy that good practise and report on it later.

Brokerage event Water RtoM - POLLUTEC

27th- 28th November 2012, Lyon, France

Water RtoM participants

Benoît Fribourg-Blanc and Marc Yvan Laroye (OIEAU)

Liaison Committee participants
Correspondent of Martin Forst in Lyon from EEN.

INTRODUCTION

Pollutec is a big fair on environment sectors gathering all types of enterprises active in the filed of environment including waste, air, noise and with a big area on water. For water, all the main actors from public institutions to private companies and on all parts of the water cycle from production to wastewater treatment and discharge and from monitoring to research. 1/3 of the fair is dedicated to water divided in hall 5 on treatment and water management and hall 6 that gathers pumps, valves, pipelines and networks, analyses, monitoring and control.

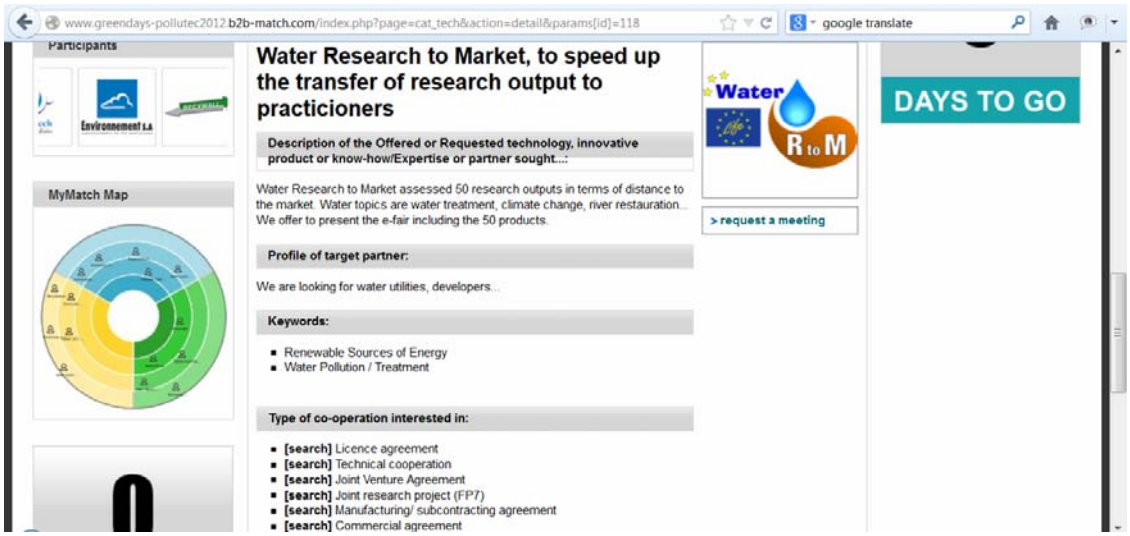
The brokerage event at Pollutec 2012 consisted in bilateral interviews with different actors in the water sector in order to present organisations and find commonalities among two presenters.

To maximise the benefits of WaterRtoM participation, we registered to the brokerage event, but also used a space on OIEau stand to promote WaterRtoM with the roll up and an active distribution of the list of outputs in paper format, a collection of visit cards on the stand, the distribution of WaterRtoM promotion material including visit cards and flyers. The participation to conferences allowed also to distribute further the visit cards, especially to a conference on innovative monitoring organised in the hall 6 in the part dedicated to monitoring. The visit of the full water area allowed also taking some further contacts and presenting them the project.

The greendays which is the brokerage event itself was organised by the Chamber of Commerce and Industry of Rhône Alpes region (CCIR RA) member of Europe Enterprise Network (EEN). The event entailed 230 profiles from more than 200 Companies and research centers coming from 15 countries.more than 50 organisations which belong to the water field both public and private and active in different sectors. The procedure of this event consists in booking the interviews with those organisations with which there could be a potential cooperation. In this sense, Water RtoM presented itself as an organisation in the event database with wished cooperation with water utilities, developers, etc… in the field of water pollution/treatment and in renewable sources of energy and interested in/looking for a wide set of cooperation types:

- Licence agreement
- Technical cooperation
- Joint Venture Agreement
- Joint research project (FP7)
- Manufacturing/ subcontracting agreement
- Commercial agreement
- Financial resources
- Research cooperation for funded EU Program
- Commercial cooperation

As illustrated in the following screenshot of the catalogue



METHODS

- OIEAU investigated the list of participants and identified what Water RtoM could offer to them.
- Interviews were booked according to the above basis
- In each interview (of 30 minutes duration each), OIEAU asked the participant to present itself, presented the project and the general aim of Water RtoM, and what could be of interest to the other interviewer.
- Some actions were agreed to further collaborate with each organisation, in the case that commonalities were encountered.
- We also had a look to the exhibitors to find other potential stakeholder for this project.

MATERIALS

- Graphical support during the interviews with flyers, visit cards and the output Factsheets.
- The roll up was presented and flyers were also distributed on the stand of OIEau and of the event organisers.

MINUTES AND CONCLUSION FROM EACH INDIVIDUAL INTERVIEW

1. Technova

- **Contact**: Lucie CAILLAUD, lucie.caillaud@technova.fr
- **Identified interest:** they are looking for potential partners to apply there 3D modelling tools in the water field, especially for floods and for industrial processes such as ozonation of wastewaters with their product Technovox. They would as well be interested to find associates constitute new partnerships for European projects (FP7, CIP, Life, Interreg…). They are interested in our approach since they are looking for new applications for their modelling tools.
- **Comments:** Having a delegation located close to OIEau offices, they could easily be involved in common projects.
- **Next step:**
  A. We will keep them updated for our e-fair development.
  B. We should check the list of research projects and look for potential interesting results, get in contact with them in that case.

2. CEMIS

- **Contact**: Anas Al Natsheh, anas.alnatsheh@cemis.fi
- **Identified interest:** they are a consortium of 3 universities of Finland and two additional structures focussed around measurements technologies and aim at being a research and training centre in this field. They are looking for actors able to market their centre. They are also interested in our approach since it could provide them some outputs they could use for their activities.
- **Comments:** It is not the primary focus of WaterRtoM but they can be end users of the e-fair and provide feedbacks
- **Next step:**
  A. We will keep them updated for our next steps and future events, they would be one of our potential users of Water RtoM as a Service.

3. Tenevia

- **Contact**: Arnaud BRUN, arnaud.brun@tenevia.com
- **Identified interest:** they are working in the field of hydrological modelisation, follow up of rivers via video cameras and provision of associated services on floods, droughts, practicability of rivers for some uses… They are developing new approaches and outputs and are looking for potential dissemination means for these outputs. They are interested in our approach and could contribute to the e-fair.
- **Comments:** They can contribute to the e-fair, giving them access to the empty REMAS would allow them to fill it in for the outputs they are currently developing.
- **Next step:**
  A. We will keep them updated for our next steps and future events, they would be one of our potential users of Water RtoM as a Service.
  B. We will provide them with REMAS template for them to provide some outputs for our e-fair.

4. RedElec Technologie SA

- **Contact**: Dr David Crettenand, davidcrettenand@redelec.ch

- **Identified interest:** they are looking for potential partners for development of electrochemical aqueous wastewater treatment system for organic pollutant removal and dissolved metals removal/recovery: their process has a patent and was developed until the industrial pilot. Their process is ready for industrial use and they are currently developing an other process electrofentone process which is at the level of the laboratory. They are now looking for partners for the development of these two processes and marketing. They are interested in our approach since it would allow them identify potential organisation that may be interested in partnership and innovations that could be used for their project.
- **Comments:** Being an highly targeted topic, approaches such as WaterRtoM are interesting to disseminate further the outputs to make more potential users aware of such outputs.
- **Next step:**
  A. We will keep them updated for our next steps and future events, they would be one of our potential users of Water RtoM as a Service.
  B. We will provide them with REMAS template for them to provide some outputs for our e-fair.

5. GAH Global ltd

- **Contact**: George Hadjicostas, george@gah-global.com
- **Identified interest:** they are producing and installing equipments to treat wastewater and have developed a treatment of effluents from pig farms which reduces the amount of nutrient of more than 80% together with a lower size of the system as compared to systems currently on the market. They look for ways to disseminate this innovation which is not on the market as the research project just ended.
- **Comments:** This is at the border of what WaterRtoM is generally doing but still within the criteria: not already marketed, innovation in the field water. This could be included as an output in the e-fair and the REMAS template will be provided to them for them to complete.
- **Next step:**
  A. We will keep them updated for our next steps and future events, they would be one of our potential users of Water RtoM as a Service. They will send us a promising output from the research.

In addition, the visit of the fair allowed taking some very interesting contacts and present the project to potential end users or providers of research outputs interesting for WaterRtoM.

IRSTEA, a research institute especially active in water and wastewater treatment: discussion with Dr Jean christophe Baudez jean-christophe.baudez@irstea.fr expert on sludges and with Véronique Vissac Charles deputy director for transfer and valorisation of research results offered to be the contact point to propose some innovations from Irstea on water.

DREAM, the cluster of the region Centre on water and water metrology organised a conference on metrology and automation. Discussion with Jean charles Briand jean-charles.briand@poledream.org and with Coralie Darsy coralie.darsy@poledream.org showed

the need to liaise with the pole to disseminate further the e-fair to SMEs of the cluster and also the information about e-seminars and other events of the project.

Eau & Industrie, a company active in engineering on water and environment: a discussion with Mathias Welschbillig, manager mathias.welschbillig@eau-et-industrie.com, was conducted to present WaterRtoM project and he offered to provide a research output useful for WaterRtoM

VALGO, a company active in depolluting sites: discussion with Laurent Thannberger Laurent.thannbergerer@valgo.com raised the need for them to identify innovation in their specific field and also to promote

I-nows the international network of water SMEs: discussion with François Xavier Imbert fx.imbert@i-nows.org showed they are very much interested in identifying innovations in the water field, promote cooperation of their members with research teams…

CNRS the national scientific research institute was present to show their projects related to the environment protection and ecology. The people met: Veronique Guinvarc'h Veroniqueguinvarch@cnrs-dir.fr responsible for development at the innovation directorate and Halima Hadi Halima.hadi@cnrs-dir.fr were interested in the project and its overall approach. Promotion of the project to them should be made by sending the list of projects identified in French and CNRS projects and cross with projects presented at WWF6, and query them on the availability of other CNRS projects related to the water field at large. Events and documents should be also disseminated to them for possible participation of CNRS.

GENERAL CONCLUSIONS

This event has been very useful to allow us to know how we can promote our results including keywords and the selection of relevant sectors that may interest the end-users. It allowed also to identify gaps in our methodology and to identify new potential users and multipliers of our information.

To promote individual factsheets was not so useful, we did not find any user interested just in one of our outputs, but the approach was deemed valuable by some of the contacts to promote and further disseminate their own output. They found this could help also organise the key information they need to provide to their targeted audience and WaterRtoM could greatly help in this. This is clearly a potential new use of the e-fair to disseminate further technologies/outputs that are mature for the market but need to be known and presented to non experts.

An idea that arose form the intensive discussions held is to create a e-seminar targeted to an output, record it and put it available for a month or put it forward on the website for one month as the "hot output of the moment", and then to make it available with the REMAS factsheet for potential end users.

Most of our interviews understood Water RtoM aims, and found in any case a way to collaborate. This is important to consolidate this project as a service.

INDICATORS

- Nº interviews 4
- Nº of contacts 13
- Leaflets distributed 100 French, 100 English
- List of a selected sed of 25 outputs distributed: 30 copies
- Number of end users: 4
- Number of cluster: 2
- Number of researchers: 4
- Newsletter of September 2012 in color
- Newsletter special edition of October 2012 for the euro INBO meeting

ATTACHMENTS

- Event frame
- PICTURES
- LIST OF OUTPUTS that was distributed
- Interviews agenda

POLLUTEC 2012 (Lyon, November 2012)	Brokerage event

1. Objective of the event: FOCUS ON A SPECIFIC TOPIC (a key challenge)

To implement the idea of Water RtoM as a service in a brokerage event by promoting the approach and the e-fair

2. Context

Water RtoM defined a communication plan (PMS) for all the duration of the project (sept 2010- aug. 2013) : we planned european events, national events to promote and disseminate innovative research outputs.

This activity is enclosed in the Action 3 of the project

3. Targets of the water RtoM participation:

Socio-professionals in the water domain (agricultural chambers or councils…), research organisations, Industries, water technicians, Private companies, consultants

→ **embedded in EEN Network activities and Pole de l'Environment Network from Limousin region**

4. Our expectations

1. Innovation precursors promotion:
   - To encourage the partnerships between the participants to use the presented innovations (and/or to make further development).
   - For this purpose we emphasizes on the selection of outputs in the different regions of the partners since because of the crisis situation most of the organisations are looking at other regions.
2. Test Water rtoM as a Service:
   - To identify current gaps of Water RtoM project: is our promotion material useful by the target audience?
   - Testing the service that Water RtoM can offer to the selected outputs to be further promoted among the event visitors. Are we able to promote the selected innovations even if we are not the research owners of that ideas?
   - Testing the service in the identification and promotion of outputs towards institutions and more generally to the entire public via the e-fair and the website.
3. To promote Water RtoM among the visitors

5. Message to deliver

Water RtoM is a LIFE demonstrative project with the ambition to develop a service to facilitate the transfer between the researchers and the end-users (water providers, stakeholders)

In order to develop a useful service, water RtoM needs to test its tools with the targets (private and public companies).

6. Date, agenda and place

Date : *28-29 November 2012*

Draft agenda:

- Duration of the brokerage event in the POLLUTEC 2012 fair is 2 days (28-29/11),
- language: English – French
- Entry fee: free of charge for those who expose, shared with OIEau permanent training service

Place: Lyon, parc des expositions eurexpo, boulevard de l'Europe, 69680 Chassieu

7. Means and resources

Documents to prepare:

a) WaterRtoM: leaflet/brochure, visit card, poster, roll up, powerpoint presentation of WaterRtoM project

b) list of 25 interesting outputs

- Logistical means: none

Laptop equipped to allow viewing video interviews and powerpoint

Insure if possible a wired internet connection (for a Skype call or webconference)

Take photos

8. Agenda & planning

1. Select outputs and prepare factsheets and BC
2. Deep information on WaterRtoM and most recent development to be ready to promote
3. Prepare info for the EEN e-platform.
4. Prepare info on Water RtoM
5. Practicalities: travels, subsistence

9. Budget (€)

- Registration costs - any
- Travel costs
  - Rent a Car: 111€
  - MYL Travel and subsistence (including gasoil) = 316,38€
  - BFB Travel and subsistence = 223,43€

Other costs

Hardcopies material :

40 lists of outputs

200 Flyers

200 visit cards

2 Posters (EN, FR)

40 Newsletter

10. Indicators to evaluate the event

- Nº interviews 4
- Nº of contacts 13
- Leaflets distributed 100 French, 100 English
- List of outputs distributed: 50 copies of the list of all outputs
- Number of end users: 4
- Number of cluster: 6
- Number of researchers: 4

11. Potential risks

- To have enough interesting projects/innovations
- To create awareness on the new service of Water RtoM

12. Feedback and lessons learnt

This event has been very useful as it allowed raise some new ideas on how we can promote our results including keywords and the selection of relevant sectors that may interest the end-users. It allowed also to identify new users of the e-fair and also new contributors for the REMAS, and multipliers of our information.

To promote individual factsheets was not so useful, we did not find any user interested just in one of our outputs, this task is not so simple. Alternatively we need to develop a pro-active approach by identifying more specific needs of some actors and regional clusters and EEN representatives are a good target for this. They could then act as multiplier of the interested communities, and we could look in detail to our list of outputs to provide them with a selected list of relevant outputs.

Most of our interviews understood Water RtoM aims, and found in any case a way to collaborate. This is important to consolidate this project as a service. How we are promoting the results seemed to be useful for output providers as they need some form of standardisation of presentation and with key

elements interesting for end-users they are not always aware of.

In addition, we have seen the importance of screening our efforts to specific themes, that is why we will investigate further the content of the e-fair to identify some thematic clusters that may worse organising a specific event: e-seminar to gather participants from all Europe for short presentations.

Photos: (*Copyright WaterRtoM*)

NEW WATER INNOVATIONS FROM RESEARCH

	COUNTRY	Project name	Project output /description	Key Information on the water solution
1	SPAIN	ECOWATCH	ECOWATCH DSS IN DETECTION OF EPISODES OF WATER QUALITY	ECOWATCH is capable to identify environmental damages occurred in river basins on time. The detection system is able to obtain water quality phenomena indicators using a few physical-chemical variables recorded continuously which can be associated, with a high probability of cause-effect relationship, with human pressure on the water environment, such as urban discharges or diffuse agricultural pollution. The data delivered to the end users will inform about the status of these three phenomena with water quality indicators. The software will determine: Waste water and urban discharges, Episodes of eutrophication and episodes of fish risk.
2	SPAIN	ACCUA	ACCUA.	Water planning adaptation to climate change impacts. The main objectives are (1) to establish land vulnerabilities according to water availability and (2) to propose adaptations addressed to overcome these vulnerabilities. And finally, to suggest recommendations on how to optimize future water uses
3	SPAIN	AQUATOOL	Tool and methodologies for integrated management of river basins	AQUATOOL is a tool for the construction of decision support systems for planning and integrated management of water resources. It can be analyzed in an integrated way, and at river basin level quantitative, qualitative, economic and environmental, also incorporating other aspects, such as priorities and management rules. It consists of a series of modules that are integrated into a single system in the user control unit allows graphics defining the schema of the water system, databases, the use of the above modules control and graphical analysis of the results. Great implementation in Spanish river basin planning.
4	SPAIN	SMAA	SMAA. SOFTWARE FOR GROUNDWATER RESOURCES MODELLING USING	New modelling software of aquifer details) that allows water managers to easily identify the quantities of groundwater masses without using sophisticated modeling tools.
5	SPAIN	MBR	MBR-software	Automatic control system for energy optimization in membrane bioreactors - Software
6	SPAIN	WATERCHANGE	A methodology and a tool for long term planning of water resources management and global change adaptation	Methodology and a modelling tool) to assess impacts of global change on water resources management and evaluate adaptation measures, to support and ease future planning. The output of the project is a decision support tool which aims to help in decision making in the context of global change and better estimate the impacts of global change in long term water resources management

	COUNTRY	Project name	Project output /description	Key Information on the water solution
7	ROMANIA	FENPEST	Photo-induced based green technologies for the treatment of water with pesticides content	Method green, modern treatment, unapproachable until now in the country; Use natural source of UV radiation - sunlight; Reduce waste from the treatment by turning iron hydroxide sludge separated by flotation.
8	ROMANIA	A-PORT	A-PORT web portal	Using e-tool and web base database for gathering information on quality of services at national level; time line evolution of quality both at regional and national level; to increase public transparency.
9	ROMANIA	NPTT	After-treatment technology for urban waste sludge	Achieving a composting technology, short time obtained from the waste treatment and waste water treatment plants of a product with high potential for fertilization of agricultural land; Transformation of difficult waste disposed of station treatment plants into a valuable, marketable product, that will help to increase the benefit of water-channel operator; recovery and valorisation of other types of waste (plant ones); end product - compost as fertilizer.
10	POLAND (European project)	GENESIS	GENESIS: Generic European Sustainable Information Space for Environment	GENESIS project is to validate and demonstrate the GENESIS solution through one concrete and typical use case, in the fresh surface water quality domain. That is more they support sanitary inspection regarding the diagnosis and decision making about additional sampling in the bathing areas threatened by the bacteriological contamination or general loss of the water quality, and a possible action plan to enable a fast warning system.
11	POLAND	FOKS	FOKS DSS, to focus the remediation efforts in degraded areas on the key sources of contamination	New tools for groundwater contamination assessment and build upon existing ones as well as elaborate a joint transnational strategy for groundwater management and a transnational decision support system. FOKS will focus on the remediation efforts in degraded areas on the key sources of contamination. By employing this approach, the effectiveness of mitigation measures should increase significantly. This would contribute to satisfy the need for protection and enhancement of environmental resources, as well as reduction of man-made hazards.
12	POLAND	EULAKES	European Lakes Under Environmental Stressors: Supporting Lake Governance to mitigate the impact of climat change	• to evaluate lakes in all: starting from existing monitoring systems to new evaluation methods • to introduce chiefly the environmental problems which European lakes deal with, such as the environmental weakness and its associated risks – in short term and in long term; • to put the basis for a first model of international and environmental Governance about lakes, involving local communities and promoting the commitment of the public bodies on this theme
13	POLAND	EKOROB	EKOROB: ECOtones for Reducing Diffusion Pollution	The goal of the project is setting up a program of activities for reducing diffuse pollution in the basin of the Pilica River by means of cost-effective ecohydrologic methods, that will help achieve a good ecological status of water in the Sulejowski Reservoir. Another goal is preparation of a manual for optimal ecotone formation, with special attention being paid to the effectiveness of diffuse pollution removal and formation of biodiversity.

	COUNTRY	Project name	Project output /description	Key Information on the water solution
14	POLAND	EHREK	EHREK (model, methodology, Guidelines/Recommendations, Procedure)	Development of a specific conceptual program of activities for rehabilitating the recreational reservoirs in Arturówek (Lodz); • Implementation of developed activities and execution of program-related investments; • Using a model system of reservoir rehabilitation (exemplary) in teaching and training; • Preparation of a system operation manual • Development of a framework rehabilitation strategy for other reservoirs and rivers.
15	POLAND	deWElopment	Methodology for ecological status assessment of rivers and lakes	Methodology for ecological status assessment of rivers and lakes in order to improve monitoring programs for surface waters. It recommends the rules for integrating different metrics within and across biological elements into one final assessment result and indicates the rules for quantifying the uncertainty and assessing the risk of misclassification.
16	POLAND	DECEMON	Methodology for increasing the environmental monitoring efficiency in the scope of the Water Framework Directive 2000/60/EC	This methodology can assess and elevate the efficiency of the environmental monitoring network in the scope of the WFD. It can recognize if sampling frequency could be reduced and if possible, decrease the number of active sampling stations. DECEMON can provide efficient water monitoring policy to reduce the financial and human efforts and to deliver accurate and reliable ecological quality assessment. Applying this methodology financial and human efforts, required for environmental monitoring within WFD, could be significantly reduced .
17	POLAND	GNIEZNO	Recultivation of Jelonek and Winiary lakes in Gniezno by inactivation of phosphorus in bottom sediments.	The surface module is responsible for moving the whole vessel and control the work of the underwater module. The underwater module is responsible for triggering controlled resuspension of sediments in its own closed space, as well as for oxygenating the sediments and applying a substance which blocks phosphorus in bottom sediments.
18	POLAND	REURIS	REURIS: Revitalisation of urban river spaces	Elaboration of practical tool for incorporation of approaches developed within the project .Elaboration of the tool is based mostly on practical development of 6 pilot actions including 6 individual projects and 5 investments .
19	FRANCE	SEMEAU	Semeau modelling tool	Method to apply existing surface water and groundwater modelling tool taking into account forest impact on water resource. This modelling tool will help to evaluate quantitative forest management impacts on water resource. The method used allows integrating specificities of small mountainous watershed covered by forest.
20	FRANCE	CONCERTEAU	CONCERT'EAU®	A technological collaborative platform that aim to design and to evaluate scenarios of agricultural practices, to deliver to decision makers a short list of agricultural practices that are economically sustainable, that respect surface water quality, and that are highly accepted by farmers and stakeholders. Integration of economical, environmental and societal dimensions of implementation of water policies

	COUNTRY	Project name	Project output /description	Key Information on the water solution
21	FRANCE	Aguaflash	Aguaflash	The AguaFlash is a method to determine the risks of deterioration of waters quality in agricultural catchments including floods events, transposable to the southwestern part of the European territory (France, Spain, Portugal). This project aims to mathematically define these relationships and to make them available in a tool for identification and characterization of the production zones of pollutants, particularly pesticides, in periods of flooding.
22	FRANCE	OpenMI	The Open Modelling Interface (OpenMI)	The OpenMI is an interface standard which allows models to exchange data as they run. It nables linking of models of different processes and hence facilitates the understanding of process interactions. Eg. questions that lead to the need for such understanding and hence modelling might be: Could dynamic pricing of water achieve savings in water and energy consumption and so prolong the life of capital works. What are the implications of climate change on the cost of flood insurance ?
23	FRANCE	WEISS	an innovative Water Emissions Inventory Planning Support System	The main aim propelling the elaboration of an innovative Water Emissions Inventory Planning Support System (WEISS) is to support competent authorities with the implementation of the Water Framework Directive (WFD). More precisely the objective is to develop an instrument for the identification of objectives and measures to reach the good water quality status and for the collection of the required information
24	SPAIN	SCARCE	Impacts of global change in water quality.	SCARCE is a multipurpose project that aims to describe and predict the relevance of global change impacts on water availability, water quality and ecosystem services in Mediterranean river basins of the Iberian Peninsula, as well as their impacts on the human society and economy
25	SPAIN	OPTIMECA	Water treatment optimisation processes using membranes and active carbon	OPTIMECA is studying mechanisms of membranes to eliminate contaminants and the reasons for their stultification, to optimise operating conditions of them and extend their serviceable life. The aim is to establish optimal maintenance protocols allowing the membrane's cleaning ability to be restored as soon as possible ; it also aims to improve the processes involved in the regeneration of the GAC allowing it to recover its original absorption capacity.

Frame for a communication action

Type of communication action : contribution to the website and poster

1. Title

CONAMA 2012

2. Place

Madrid (Spain)

3. Date

26 - 30 November 2012

4. Message to deliver (simple, clear, concise, single)

Water reseach to market. De la investigación al mercado del agua

5. targeted participants

Environmental community in general

6. Speaker

-

7. Lengh of presentation

-

8. Presentation support

- General poster
- Submitted abstract (attached below)

9. Number of leaflet distributed

Any

10. Contacts to send invitation for next events

CONAMA2012
CONGRESO NACIONAL DEL MEDIO AMBIENTE

DEL 26 AL 30 DE NOVIEMBRE DE 2012 TIENES
EN MADRID UNA CITA CON EL DESARROLLO SOSTENIBLE

Presentación | Monográficos | Fondo documental | Networking empresarial | Encuentro Iberoamericano | Prensa | Blogs

> Inicio / Comunicaciones / Listado de comunicaciones técnicas

Water reseach to market. De la investigación al mercado del agua

Autor: Beatriz Medina Parra
AMPHOS 21

Otros autores: Natacha JACQUIN (Office International del L'Eau), Zbigniew SOBOCINSKI (Gdanska Fundacja Wody), Silviu LACATUSU (Fundatia central de formare si perfectionare profesionala in domeniul apei) y Gilles NEVEAU (Office International del L'Eau)

Tipo: Comunicación técnica escrita / Comunicación técnica panel
Temática: Agua

Resumen:
Los diferentes estudios realizados han mostrado que menos del 40% de las masas de agua alcanzarán el Buen Estado Ecológico en 2015, según los requerimientos de la Directiva Marco del Agua. Como consecuencia, existe la necesidad de nuevos conocimientos y soluciones innovadoras, así como una mayor celeridad en la transferencia de los resultados de investigaciones llevadas a cabo recientemente, reduciendo los 10 años que, de media, se requieren hasta ahora (FUNDETEC, 2007). El proyecto LIFE+ WATER RtoM (Water Research to Market) pretende acelerar la transferencia de los resultados de las investigaciones relacionadas con la gestión del agua, para una mejor implementación de las correspondientes directivas. El proyecto se enmarca en la Interfaz Ciencia- Política, y trata de añadir un paso intermedio entre la investigación y los esquemas de transferencia de tecnología existentes hacia los implementadores. Se realiza mediante un proceso proactivo consistente en investigar, asesorar y promover los resultados de la investigación, concentrándose en todos los actores del ciclo de la transferencia del conocimiento. Se trata de un nuevo enfoque que evalúa la ciencia en términos del potencial de implementación futura en el mercado. Este tipo de evaluación se diferencia del clásico análisis científico basado en publicaciones, por la inclusión de conceptos como la 'distancia al mercado', 'riesgos para los usuarios finales', 'recursos necesarios' y teniendo en cuenta los pasos necesarios para alcanzar la aplicación final de los resultados.

Imprimir
Volver

Acceso a plataforma de trabajo
Usuario
Contraseña
Entrar

Vídeo resumen del congreso: Reinventémonos

Conama en Twitter
Tweets
Seguir a @info_conama
Andrés Fernández @andresprisma 22h
Excelente idea para compartir taxi en Bilbao y Valencia JoinUp Taxi disq.us/8g137v
Retwitteado por Fundación Conama
Abrir
Maria Jose Caballero @mjocaballero 22h
Twittear a @info_conama

Síguenos

Brokerage event as National seminar

1. Objective of the event:

The major objective of this event is to disseminate the service of Water RtoM project can offer both to researchers and to potential users.

Secondary objectives are:

- To develop face-to face interviews with both types of targets to identify new promising outputs and make the description with factsheets. To ask end-users for their needs and approach the list of outputs as well as our e-Fair.
- To present Water RtoM during a SPI meeting along with other projects
- To disseminate Water RtoM with promotion material.

Note: The event was framed as a brokerage event by organisers but due to the main national nature of the event, it has been considered as a seminar.

2. Targeted Audience

Field of work: Water Managament
The target audience of this event are units connected with water management and supply. To specify: local and national authorities, private and public companies, private investors, universities, researchers.

3. Expected behaviour of the targets

The expected effect of the event on participants is to increase the transfer of knowledge and theory into practise. We would like to enhance the information dissemination between the output owners and the end users. To do that we try to question out the potential area of interest of a person to guide him to the output/outputs of interest. For each of participants we have prepared a whole pack of information including gadgets, contact details and factsheets, we have also prepared list of contacts to disseminate the information further.

Our major goal in influencing the behaviour of targets is to enable them the use of output through creating a direct net of communication between him/her and the output owner. Our goal is to make sure that the outputs we find are in any use in the future and this might be accessed through their interest and contact.

4. Message to deliver (simple, clear, concise, single)

The possibilities and objectives of Water Research to Market project, dissemination of information about water directives and innovative technologies that would help in achieving the regulations stated by the UE framework.

5. Agenda, planning, date and place

- **First day (21/01/2012) – Brokerage event**

Agenda for BEATRIZ MEDINA

Water Research to Market

Note: This is the preliminary meeting schedule!
The final meeting schedule (including last minute changes) you will receive at the event reception desk!

Morning Session (11:30 - 14:00)

TIME	TABLE	ORGANISATION / CONTACT PERSON	
11:30	1	ABEINSA – Antonio Linares	Own Booking
12:00	1	ADESVA Agrofood Technological Center – RAFAEL MUÑOZ	Own Booking
12:30	1	Adevice Solutions SL – Jesús Viguera Offer: adeMETER: Automated Meter Reading solution	Own Booking
13:00	1	AGUESA agua y energía – David Amat Pinilla Offer: Saving water in urban, agricultural and industrial fields.	Own Booking
13:30	1	ASOCIACION FERAGUA DE COMUNIDADES DE REGANTES DE ANDALUCIA – PEDRO PARIAS FERNANDEZ DE HEREDIA	Own Booking

Afternoon Session (15:30 - 18:30)

TIME	TABLE	ORGANISATION / CONTACT PERSON	
15:30	1	Atlantis Consulting Cyprus Ltd – Charalambos Panayiotou	Own Booking
16:00	1	Secretaría General de Medio Ambiente y Agua – Teresa García Azcárate Request: Integral Water Management	Own Booking
16:30	1	QUICKSENS – Juan Jose Giraldo Mora Offer: QuickSens: Sistema de monitorización de bajo coste y rapida implantación (Low Cost and faster sensor monitoring system)	Own Booking
17:00	1	CIDTA-UNIVERSIDAD DE SALAMANCA – Manuel Garcia Roig Offer: BIOACCUMULATION/BIOSORPTION OF HEAVY METALS FROM INDUSTRIAL WASTE-WATERS	Own Booking
18:00	1	Bioazul S.L – Jose Luis Bribian Fisac Offer: BIOAZUL- Sludge reducer for wastewater treatment plants	Own Booking

NOVIWAM Final Conference

Date	Begin	End	Title
21.01.2013	09:00	11:30	DAY 1: Monday, 21st January 2013
22.01.2013	09:00	14:00	DAY 2: Tuesday, 22nd January 2013

- **Second day (22/01/2012) - "Facilitating linkages between research and communication European initiatives"**

Working session with NOVIWAM partners and other associations (EIP Water, Joint Programme Initative on Water, SPI Water Cluster).

Invitation email from NOVIWAM:

Dear colleagues,

I hope you all have sorted the transportation issues, as unfortunately there is having trouble with some partners and speakers travelling from France, England, Belgium, The Netherlands, etc.

We are now contacting you all with a few basic details of the working session that will follow the official closure of the Noviwam Final Conference.

Let's start with the work session **"Facilitating linkages between research and communication European initiatives"** on January 22nd 2012 – 15.30 to 16.30:

WHO: Representatives of projects/initiatives with possible synergies between themselves and/or NOVIWAM. For any possible addition to the following list, please contact César Alcácer, Macarena Ureña or Francisco Luque (CENTA's NOVIWAM team). All participants to the session need to be invited and will be seated considering their role in the session dynamics.

We want an informal atmosphere and there will be no projector (in other words: no powerpoint). The dynamic is totally driven and the main point is to exchange views rather than achieving formal agreements or commitments. Initially, there will be a limited speaking time for a representative of each of the invited R&I and communication initiatives from the water sector:
- NOVIWAM
- SPI Water Cluster (inc. Stream, Step-wise, Waterdiss)
- JPIw
- EIPw
- EWP + Innowater
- Water to Market Project

NOVIWAM partners, speakers and a few other professionals are invited to the session, so a few more may want to engage in this. As you can see, only initiatives that work on EU scale and in a big part of the global water cycle are relevant, for example, technology platforms or experts groups could fit.

Depending on the number of representatives, we are planning to give around 2-5 minutes for them to answer 3 questions:
1. WHAT is your initiative about? (i) field of knowledge (ii) type of activities (iii) lifespam (iv) your role in that initiative
2. CONNECTIONS that the initiative maintain with other projects/initiatives around the table or other relevant institutions/initiatives/projects?
3. HOW do you decide about generating linkages or collaboration agreements?

More than half of the time will be gone after this speaking round. Then, we'll dynamize a debate on how do we improve synergies and increase the overall impact and quality of our activities. We want the assistants to think about the generation of new win-win situations.

This session will be followed by the presentation of a Memorandum of Understanding for regional clusters and initiatives willing to stay connected with the NOVIWAM consortium - 16.30 to 17.30:

Partners involved in NOVIWAM expressed the interest to continue the vision of the Project, developing alike activities after the withdrawal of the funding agreed with the European Comission by February 2013. A Memorandum of Understanding (MoU) was drafted within the scope of securing the continuity of the NOVIWAM Consortium after the end of the NOVIWAM Project. The MoU is designed to act as a guide to future activities under the flag of the follow-up of the Project, under the name of NOVIWAM Cluster.
We'll present the MoU and give a brief summary of its main points. This could open a debate that, although is of particular interest to current NOVIWAM partners, we are happy to open to the rest of invitees.

I hope this help everyone to plan the afternoon of the 22nd according to his/her interests. And see you in the venue these days.

Best regards

6. Indicators to evaluate the achievement of the objective

- Dissemination of over 50 folders with complete information set
- Dissemination of around 15 business WaterRtoM cards
- 15 new contact for further information dissemination
- Over 200 people involved in discussion about projects possibilities
- Opportunity to present Water RtoM as a Service
- 10 interviews of 30 minutes each with all Water RtoM targets
- Creation of sinergies with similar initiatives dealing at the same field of work: Water Science-Society interface

7. Implementation of the action (see minutes below)

8. Additional comments

FEEDBACK OF BILATERAL MEETINGS/BROKERAGE EVENT

This methodology is good to establish contacts with the interviewees and set specific actions and agreements with them. It allowed Water RtoM to identify new outputs from research, new needs from the "users" side.

In addition, it was possible to address specific questions on how they are using knowledge, accessing to new outputs and solutions for the huge available information.

The web-based system to organize these workshops resulted very effective and logic: b2match

The role during this session of water RtoM is resulted very effective as even if they cannot reach many participants, the ones that reached have been done very efficiently. This kind of methodology is very useful when the topic of the event is very wide (water management), there are many typologies of experts. In this case, it is considered this option much more useful rather than an stand or a presentation.

FOTOS

9. NOVIWAM CONFERENCE - BILATERAL MEETINGS 21/01/2013 - MINUTES AND NEXT STEPS

1. INTERVIEW 1 - Research Results Transfer Office - University of Granada LAURA PLAZA/LAURA SÁNCHEZ-

Explanation

- Our activities are designed to strengthening ties between university research and the business industry.
- We aim at linking our activity to the market and working together with the most advanced scientific and technological sectors.
- We put at researchers and business' disposal the most efficient tools for prompting the transfer of knowledge and use it as the driving force for economic and social development.

Do they need new knowledge? No, they have an exceed of offer indeed, they manage more than 3000 researchers in all research topics and there are many expectations from them, they almost can do administrative work, database's and try to manage the patents process. This OTRI specifically is really interest in learning from other similar experiences like Water RtoM, which is the reason because they contacted us.

How do they obtain the new knowledge? The systematically collect the results when they are provided by the researcher, due to the huge amount of work they do not take over any research result when not provided by them

Do they disseminate their own research? They produce dissemination materials (CD, online database, factsheets) but difficult to be effective in so many different topics

What would do they need to have better access to new knowledge?

- More human resources to fate the needs and expectations from such a service

- More new knowledge and experiences that let them improve

- To promote their image and services among their researchers to encourage them to use their services more properly.

- To be more active in new European projects to be sure on the needs of the market

- **Contact**: Laura Plaza
- **Identified interest:** In Water RtoM results and other similar initiatives
- **Comments:** we have seen that we are working in the same field of work, but there are differences because their results come from a huge range of fields of work and also from public research, which is normally done in terms of many publications. We agreed that there is a need on homogenise how knowledge brokerage is done, but it cannot be the same always as is very different when it comes from universities or from different topics. They maight be interested in the potential Water RtoM service
- **Next step:**
- Participation in our LC meeting o provide the vision of the University, we do not have it! Also the vision from the situation of south Spain
- They will fill two factsheets and ReMAS, to identify if they can use this form or not
- They will send us a manual that was provided to them on how to do transfer of knowledge
- We will provide to them the final guidelines

2. INTERVIEW 2 - 12:00 IGME – GERARDO RAMOS – RESEARCH

Water field of work: groundwater

The main mission of IGME is to provide the State Administration, the Autonomous Regions an the general society, with precise knowledge and information regarding the Earth Sciences and related technologies for any development on the Spanish territory

Do you have a new innovation you would like to put in our database? Yes he agrees on the ASR technology which does not belong to him but it has to be introduced in Spain

Would you like to get guidelines on how to better promote your results? Not really, we would like to know how to better implement new technologies

How do you approach you users? How do you know their needs? He has to approach users because to develop the technology they need them (users are many different sources)

- **Contact**: Gerardo Ramos
- **Identified interest:** have an online seminar on ASR technologies (water reuse)
- **Comments:**
- **Next step:**
- to send a draft of the factsheet, they would have a look to it
- to prepare an e-seminar on new technologies for Groundwter management and quantity.

3. INTERVIEW 3 - 12.30 Adevice Solutions SL other name - RESEARCHER

Agreement to create a factsheet on this

Offer: adeMETER: Automated Meter Reading solution

DESCRIPTION:

Automated Meter Reading solution for non-energized meters (gas and water) in urban areas, based on autonomous, wireless, low-cost devices.

INNOVATIVE ASPECTS AND MAIN ADVANTADGES / BENEFITS:

Scalability *•500 wireless terminal nodes per cluster •Urban area network by superposition of clusters •Wide coverage –800m line of sight –250m trespassing walls* ***Low cost*** *•Per terminal node, due to a specific hardware design •Per building, up to 50 meters per terminal node •Per cluster, with up to 500 nodes (terminal or router terminal per cluster)* ***Low Power Consumption*** *•10 years battery duration with hourly reading and daily transmission •Autonomous (non-energized routers) §Universality •Valid for 95% present installed meters: inductive, pulse reading, and electronic meters (UNE 82326)* ***Integration to AMR systems*** *•Data storage in a standard database accessed with web service •Integration to management systems (billing, maintenance, …)*

TECHNICAL SPECIFICATIONS: (for requests only)

- *Capability of cover the whole of a city*
- *Low cost of devices*
- *Up to 10 years of autonomy (battery powered)*
- *Several meters (mechanical, electronic, pulse counter…)*
- *High availability*
- *Integration with CRMs, ERPs, GIS…*

CURRENT STAGE OF DEVELOPMENT: **Ready to serve. Demonstrator on field**

INTELLECTUAL PROPERTY RIGHTS (IPR):**N/A**

TYPE AND QUALIFICATION OF CO-OPERATION PARTNER:

Offered: Research co-operation
Requested: Technical co-operation
Offered: License agreement
Offered: Commercial agreement with technical assistance

- **Contact**: Rocio Rubio (technical contact) and XX (commercial contact)
- **Identified interest:** to internationalize the product
- **Comments:** even though this output was used is not as implemented level
- **Next step:** to prepare the factsheet for them and they validate it

4. INTERVIEW 4 - 12.30 - AGUESA agua y energía - USER

Environmental Science Consulting specialized in water resources

- *Water quality*
- *Water resources (irrigation, reservoirs, floods, rivers)*
- *Water efficiency*
- *Water Pollution / treatment*
- *Control and monitoring*
- *Water management systems*

Do they need new knowledge? Yes because they need to innovate, diversify from other
How do they obtain the new knowledge?

Do they disseminate their own research? **no**
What would do they need to have better access to new knowledge?

- **Contact**: David Amat
- **Identified interest:** on Water Reuse, they want to create an FP project on this
- **Comments:** they are mainly searching for partners for EU funded projects
- **Next step:** they might be interested in other intitiaves, and not in Water RtoM

5. INTERVIEW 5 - 13:00 ASOCIACION FERAGUA DE COMUNIDADES DE REGANTES DE ANDALUCIA PEDRO PARIAS FERNANDEZ DE HEREDIA USER

Promote the improvement of irrigation water users loking for the sostenibiity of their agriculture model.

- *Water quality*
- *Water resources (irrigation, reservoirs, floods, rivers)*
- *Water efficiency*
- *Water management systems*

Do they need new knowledge? Yes, they are always looking for new technologies and solutions specially for those reducing costs of energy used, they are interested in energy efficient solutions
How do they obtain the new knowledge? They used to contact the University of Cordoba as they have there good contacts.For more material outputs SME's and industries are coming to them to "shell" or promote their innovations, but not always are profitable. They also would like to participate in research initiatives in order to provide their vision, but it is not their major objective
Do they disseminate their own research? They have no own research
What would do they need to have better access to new knowledge? Did not know how to answer this question. In general they can better understand more finished a redy-to-be used outputs

- **Contact**: Pedro Parias Fernández
- **Identified interest:** Solutions for crops with high productivity in Andalucía (horticulture and fruit farming). New solutions improving the energy efficiency to reduce costs and water quality (briozoos)
- **Comments:** need of more applied research, they need real solutions and many virtual information.
- **Next step:** to send outputs and solution that can fit with their needs

6. INTERVIEW 6 -15:30 Atlantis Consulting Cyprus Ltd- Charalambos Panayiotou -

Atlantis Consulting Cyprus Ltd is a leading organisation in Cyprus providing Environmental Management and Management Consultancy Services. Founded in 2000, it aspires to help the Public sector in planning and implementing environmentally sustainable policies and development projects and to support the private sector in achieving their environmental and business planning issues.
Water Resources Management

Water quality monitoring and assessments
Integrates Water quality modelling
Elaboration of water resources management plans

Do they need new knowledge? Yes, to do that they tried to joint consortiums in research or innovative projects that let them increase their know-how
They identified there is missing knowledge on baseline data because data collection does not follws a systematized protocol. Therefore is needed an homogenization of the data collection of water bodies.

What would do they need to have better access to new knowledge? Even if WFD helped a lot letting all members to have a common frame for the water knowledge, this still need to be quiclier moved.

- **Contact**: Charalambos Panayiotou

- **Identified interest:** improving the data collection of water paramethers
- **Comments:** they have provided insight for the Guidelines
- **Next step:any**

7. INTERVIEW 7 - 16.30 - QUICKSENS — Juan Jose Giraldo Mora - RESEARCHER

QuickSens technology allows monitoring commercial sensors. Offered as a comprehensive service that is paid as a flat monthly fee, applicable to water quality measurement, detection machine stops, environmental parameters, leak detection, monitoring of treatment processes. Etc
Agreement to create a factsheet on this

Offer: QuickSens: Sistema de monitorización de bajo coste y rapida implantación (Low Cost and faster sensor monitoring system)

Booked

DESCRIPTION:

Universal monitoring system sensors, low cost and fast implementation. With costs of about 5 times less than conventional systems.
Ability to monitor a large number and variety of sensors and devices in the same system. In different areas: water quality measurement, detection machines stop, environmental parameters, fault detection and leak monitoring Sprayers, Etc.
The user can use the raw data from the sensors and take responsibility for their treatment. And / Or you can use parallel QuickSens WEB.

INNOVATIVE ASPECTS AND MAIN ADVANTADGES / BENEFITS:

- Remote monitoring of up to 80 parameters / sensors in real time for a flat fee per month for between 5 and 10 euros / month. Including access to web services and communications. No additional development costs.
- Immediate implementation of one to two weeks for the first points.
- Independence of the client communications networks and others.
- Scalable by the customer. Vendor independence.
- Integrable system if they already exist a network of sensors and / or management information system.

CURRENT STAGE OF DEVELOPMENT:

System already developed commercial phase.

TYPE AND QUALIFICATION OF CO-OPERATION PARTNER:

- Distributors sectoral
- End customers
- Investors / partners

What would do they need to have better access to new knowledge? They are researchers manly but they are marketing one of their results. This result is quicksens which is a monitoring system service that can be adapted to any type of request. It is an universal monitoring service, the customize their product in accordance to the demand.

- **Contact**: Juan José Giraldo Mora
- **Identified interest:** they are looking to market their outputs
- **Comments:** the output the explained me is already in the market, but they provided significant insights for our Guidelines development. They think that an skill is needed for the transfer step, which should have technical skills, communicational but also “emotional” as they need to identify interests needs

from both research side and market side. Researcher cannot do this task as they need to focalise in their work, this does not mean that they do not have a role in the transfer progress.

- Nowdays Research in water need to be focalised in products and less in theories and methods, market is waiting for effective and applicable solutions.
- **Next step:** we could add if needed a factsheet on Quickseens
-

8. INTERVIEW 8 - 17:00 - CIDTA-UNIVERSIDAD DE SALAMANCA — Manuel Garcia Roig - RESEARCHER

The CIDTA, Research and Development Center of Water Technology, a center of the University of Salamanca (Spain), aims to develop R + D in the area of Water to help meet the demand for technologies, products and services able to promote Innovation and Competitiveness

Agreement to create a factsheet on this- NOT

Offer: SUSTAINABLE WASTEWATER TREATMENT AND WATER REUSE IN RURAL TOWNS

21 **Book**

Description

DESCRIPTION:

Water reuse and revaluation of the biomass generated in low cost wastewaters treatments (wetlands) of small municipalities as an environmental resource of socioeconomic development and increased biodiversity of rural areas.

INNOVATIVE ASPECTS AND MAIN ADVANTADGES / BENEFITS:

The demonstration project aims to reuse the treated water in agriculture sustainable for the wetting of ecological crops and for environmental education and leisure of citizens. Low cost wastewater treatment to be considered would be solar photo catalytic channels for disinfection and removal of non-biodegradable compounds from water and different types of sub superficial flow wetlands, planting flora of high economic value both in ecological crops as revaluation of the biomass generated in the water treatment. These activities and those associated with the tertiary wetland (bird watching towers and routes) not only reduce the health risk of diffuse pollution but also recover the natural resources to obtain socioeconomic benefits by promoting the employment and setting the population of these rural and depopulated areas.

TECHNICAL SPECIFICATIONS:

a) Design and develop low cost solar photo catalytic and sub superficial wetland systems of wastewater treatment for small towns.

b) Reuse of water resulting from the biological treatment with significant environmental and socioeconomic benefits.

c) Increase the diversity of landscape and provide shelter and food for species that frequent wetlands.

d) Generate local employment in the future both on farms and in rural and environmental tourism.

e) Create a space for leisure use and enjoyment of the citizens in line with the environment, thus promoting their respect and the participation with regards the environment.

TYPE AND QUALIFICATION OF CO-OPERATION PARTNER:

Small municipalities; SMEs and research groups.

Co-operation Type:

Offered / Requested: Research co-operation
Offered / Requested: Technical co-operation

Offer: BIOACCUMULATION/BIOSORPTION OF HEAVY METALS FROM INDUSTRIAL WASTEWATERS

Booked

DESCRIPTION:

Environmental Problem

Heavy metals become dispersed into the environment in many ways, e.g. in run-offs from disused mines, wastes from metal processing or from industrial processes that use metallic components and from deliberately-applied chemical agents (e.g. wood preservatives). Man's mining of traditional energy sources (e.g. coal) can result in iron-rich wastes while the nuclear industry has still to resolve the problem of longterm containment of radionuclide wastes and the environmental impact of nuclide migration in the geosphere.

Active agents

Microorganisms accumulate metals via several mechanisms e.g. biosorption, sequestration or various enzymatically-driven mechanisms such as metal oxidation/reduction and precipitation via enzymatic ligand production. These can lead to the formation of biomineral deposits which have useful properties.

INNOVATIVE ASPECTS AND MAIN ADVANTADGES / BENEFITS:

Bioaccumulation of metals

Some bacteria originally isolated from metal-contaminated sites have acid phosphatase and phytase enzymes localized within the cellular exopolymeric matrix. When provided with a suitable organic phosphate source, it is cleaved enzymatically producing inorganic phosphate that in the presence of metals will deposit metals as their insoluble phosphates. Cells immobilized as a biofilm on a suitable porous support comprise a filter that was successfully applied to the removal of metals ions from industrial polluted waters. The metal would be retained as cell-bound deposits of the corresponding metal phosphate. However, the limiting economic factor in the fabrication of these bio-metal phosphates from metal-wastewater would be the cost of the organophosphate feed.

The use of low-cost organic phosphates or raw biomaterials containing organic phosphates would permit that the metal bioaccumulation process will become economic.

Biosorption of metals

The biosorption process involves a solid phase (biosorbent, biological material) and a liquid phase (water) containing a dissolved species to be sorbed (sorbate, metal ions). Due to the higher affinity of the sorbent for the sorbate species, the latter is attracted and removed by different mechanisms. The process continues till equilibrium is established between the amount of solid-bound sorbate species and its portion remaining in the solution.

The major advantages of biosorption over conventional treatment methods include low costs, high efficiency, minimization of chemical and biological sludge, regeneration of biosorbent and possibility of metal recovery. The disadvantages of biosorption are: a) early saturation i.e. when metal interactive sites are occupied, metal desorption is necessary prior to further use, b) the potential for biological process improvement is limited because cells are not metabolizing, and c) there is no potential for biologically altering the metal valency state.

Many different raw biomaterials could act as low-cost and abundant biosorbents.

TECHNICAL SPECIFICATIONS: (for requests only)

Most of the research carried out on bioaccumulation/biosorption of metals from industrial wastewaters has been at a laboratory scale, very few at pilot plant scale and no real plant.

The aim of this project would be: 1) To find and adquire the appropriate bacteria (and their growth conditions) or biosorbent as active agent of the process, 2) to find and adquire the appropriate metal polluted water and low-cost organic phosphate, 3) to built a pilot demonstration plant for removing

metals from such industrial wastewaters.

CURRENT STAGE OF DEVELOPMENT: **Know-how at laboratory scale.**

INTELLECTUAL PROPERTY RIGHTS (IPR):

TYPE AND QUALIFICATION OF CO-OPERATION PARTNER:

We offer these biotechnologies to research and industrial partners.

We look for partners such as researchers and industries interested in such biotechnologies for bioremediation of metal bearing wastewaters.

What would do they need to have better access to new knowledge? More organizations working in the SPI, as there is many new knowledge from research and needs to be applied and translated to users

- **Contact**: Manuel Garcia Roig
- **Identified interest:** they needs to build more demonstration projects, and not only at lab scale. He is interest in the services that water rtoM can offer if it is consolidated finally.
- **Comments:** In their water fierl (waste water treatment on industries) they normally need to approach industries. Univerities needs more efficient Reserach Outputs Transfer offices
- **Next step:**

9. INTERVIEW 9 - 18:00 - Bioazul Msc Jose Luis Bribian Fisac - RESEARCHER

BIOAZUL is an environmental engineering and technical consultancy devoted to environment, water and energy and acts a catalyst, promoter and facilitator of R&D projects. BIOAZUL prepares R&D projects strategically relevant for the company and look for external funding at international level.

Offer: BIOAZUL- Sludge reducer for wastewater treatment plants

DESCRIPTION:

LODOred is an innovative eco-solution for reducing the surplus sludge generated in the municipal and industrial wastewater treatment plants.

LODOred is an eco-innovative, biodegradable, no-hazardous and fully biodegradable product composed of ingredients of food aditives's grade. LODOred is designed for biological wastewater treatment plants based on activated sludge technology without anerobic digestion of the sludge.

INNOVATIVE ASPECTS AND MAIN ADVANTADGES / BENEFITS:

The main strategies for the surplus sludge reduction are focused on a desintegration approach; LODOred reduces the surplus sludge in the source, modifiying the metabolism of the microorganisms present at the activated sludge.

The benefits of using LODOred are the following:

- Reduction of biological surplus sludge generation up to 40%
- Improvement of sedimentation abilities (SVI)
- Biological system less sensitive against shock loads
- Improved dewaterability (reduced polymer consumption, less time for sludge dewatering required, reduced energy consumption, increased equipment lifetime, lower labour costs)

- Less negative environmental impacts by wastes from wastewater treatment

TECHNICAL SPECIFICATIONS: (for requests only)

CURRENT STAGE OF DEVELOPMENT:

The product is already marketed in municipal and industrial (dairy and meat) wastewater treatment plants and has the potential for its application in other types of industrial wastewater treatment plants.

INTELLECTUAL PROPERTY RIGHTS (IPR):

Yes property of BIOAZUL S.L

Co-operation Type:

Offered: Commercial agreement with technical assistance

- **Contact**: Jose Luis Bibrian
- **Identified interest:** to create a factsheet on WASTE red (eco-Innovation project) and e-seminar. They are looking for new European projects to develop more technologies
- **Comments:** They are an engineer company specialized in Waste Water Treatment
- **Next step:**
- Send pre-filled factsheet
- Organise e-seminar on Waste Water solutions

10. INTERVIEW 10 - 18:00 - ABENGOA WATER Francisco José Muñoz- RESEARCHER

Not held(BUT POSTPONED BY PHONE)

10. Certificate on attendance

This is to certify that

BEATRIZ MEDINA

was in attendance at the NOVIWAM Final Conference

"Connecting authorities, researchers and businesses on water management RTD&i"

21st and 22nd of January 2013

Seville, Spain

Teresa García Azcárate

Representative of NOVIWAM Project Coordinator

Joint COST-WssTP Strategic

Water in the Urban Environment
Bringing Research to the Market
17th April 2013 - Brussels

1. Objective of the event:

This joint conference is dedicated to the urban context and focuses on building bridges between research and water-related societal challenges. Its aim is to explore the cornerstones of water innovation and its applicable directions to the market.

2. Targeted Audience

Researchers, funders, research project, network of end-users (WSSTP)

3. Expected behaviour of the targets

To think about the possible change of attitude and behaviour to work closer to all targets in proactive way.

4. Message to deliver (simple, clear, concise, single)

To make sure that research results reach the water managers in charge of implementing the Water Framework Directive – versus - to facilitate the expression and account taking of research needs from the different levels to implement the European Directives related to water → working closer to all targets in proactive way

At all level (local, regional, national, transboundary and European).
Promoting the Guidelines set up during the project and gather the real life experience of Water RtoM

5. Means & Resources to implement to reach the objective

Internal and external resources

Speaker for Water RtoM: Natacha Jacquin.

6. Agenda, date and place:

16-18 April 2013
Thon Hotel EU, Brussels
Rue de la Loi/Wetstraat, 75
1040 Brussels

Water RtoM was invited to give our experience during the round table "Water Governance"

Day 2 **Wednesday 17 April 2013**

8:30-9:00	Registration		
	Water - Food - Energy Track	**Urban Infrastructure Track**	**Water and Wastewater Services Track**
9:00-10:40	Water-Food-Energy Nexus	Urban Floods	Wastewater Management
10:40-11:00	Coffee Break		
11:00-12:40	Ecosystem Management	Infrastructure / Disaster Mitigation and Management	Water Supply and Resource Management
12:40-14:00	Lunch		
14:00-15:50	Water Governance		
15:50-16:10	Coffee Break		
16:10-18:00	Funding Research and Innovation		

7. Budget (€)

Travel and subsistence's for natacha Jacquin

8. Indicators to evaluate the achievement of the objective

Number of participants in the plenary session: 150

9. Main constraints

No risk

10. Implementation of the action

The conference gathered xx participants, representatives of national administrations.

There is not formal presentation, just a discussion during a round table composed of 6 others speakers.
Then discussion exchange with the participants.

11. Lessons learnt

This event was not really successful because people were focused on the "governance concept" et were not really open to enlarge governance to the "governance between Researchers, policy makers".

12. Photos of the event


Natacha Jacquin during the round table

13. Speech / message during the round table

"**Working closer to all targets in proactive way"**
WRtoM strategy: identify needs / collected results / assessment in term of distance to the market/ promotion of the innovation on the market

Water RtoM, funded by the LIFE+ Program (2010-2013) aims to accelerate the transfer of innovations (3 to 5 years) to end users.
IOWater and its partners have identified 200 innovative research products in the field of water in LIFE, INTERREG information bases, and at national level in French, Polish, Romanian and Spanish programs.
Out of these 200 research projects about fifty have undergone a detailed analysis to identify innovative results and evaluate their distance to the market. // thanks to the support of a Liaison Committee (researchers, end-users (EEN, INBO), network (WSSTP, WSP)

It aims to assist field practitioners (Water Agencies, Water Administrations, Municipal Services and developers) by giving them instructions for use needed to make operational these innovations.
This is why they are made available to the public in the form of a non-technical summary on the waterrtom.eu website under the heading "e-fair".

Ultimately, the Water RtoM consortium wishes to prove the value of such a service, firstly for researchers by facilitating the dissemination and promotion of their innovative results, and secondly for water managers so that they can comply on schedule with the objectives of the European Water Directives.

Governance aspects in water rtom:
A guideline with 10 recommendations is provided based on the experience of the project life. For improving governance, it is highlighted the necessity to :

- Encourage the networking and clustering gather together researchers, end-users,, SMEs (facilitating expression of the needs, expression and answering market needs), via platform, virtual place, brokerage events, forum,
- Work at operational level (not only high political level)
- Improve the visibility of innovations outside of the scientific community and in non-scientific language, improve dialogue with the stakeholders (to characterise the next steps)
- Create experts and user' committees (is the innovation offer relevant compared to the needs?), permanent or for a limited time

www.waterrtom.eu

Participation in international event - EXPOAPA 2013

Romania (Bucharest, 10 - 12 June 2013)

Dissemination: Participation in international event	Type communication action: international exhibition

1. Objective of the event: increasing the proximity of research products to market

To implement the idea of Water RtoM as a service in a brokerage event by promoting outputs selected in Water RtoM

2. Context

Water RtoM defined a communication plan (PMS) for the entire duration of the project (Sept. 2010- Aug. 2013): we planned European events, national events to promote and disseminate innovative research outputs.

This activity is enclosed in Action 3 of the project

3. Targets of the event:

Companies and research institutes with activities and concerns in the water field, searching for Romanian and foreign partners:

• Companies: SMEs, technology providers, utility companies, intercommunity development agencies, basin administrations;

• Research & Development institutions, universities, universities of applied sciences, research and development organizations, experts;

4. Our expectations

- strengthening the relationship between research and the market by strengthening the Water RTOM image as a service among stakeholders
- identifying new opportunities to develop new projects / partnerships between the two parties
- formulation of requests and offers for the two parties
- To promote Water RtoM among the visitors

5. Message to deliver

Water RtoM is a LIFE demonstrative project with the ambition to develop a service to facilitate the transfer between the researchers and the

end-users (water providers, stakeholders)

In order to develop a useful service, Water RtoM needs to test its tools with the targets (private and public companies).

6. Date, agenda and place

Date : *10 -12 June 2013*

Draft agenda:

- Duration of the event with in the EXPOAPA fair
- language: English - Romanian
- Entry fee : free

Place: Bucharest, Romania, Palace of Parliament

7. Means and resources

Documents to prepare:

a) WaterRtoM: leaflet/brochure, poster

b) Guideline

Logistical means:

Laptop equipped to allow viewing of factsheets, e-fair of the project

Wired internet connection (in order to consult the e-fair)
Photo camera

8. Agenda & planning

- April: discussion and decision on the presence of WaterRtoM materials in booth CFPPDA
- Early June: preparation of materials
- June: presented in the exhibition

9. Budget (€)

Hardcopies material :

150 leaflets

35 Guideline

50 Newsletter no3

10. Indicators to evaluate the event

Number of participants: <60 (it it an exhibition, difficulty to know exacty how many attendees)

Number of contacts intrested in future collaboration: 4

11. Potential risks

- Attracting the relevant participants for the event / their availability
- To not have enough interesting projects/innovations

12. Feedback and lessons learnt

- limited interest of visitors with regards to the research offer, the reason being that these products are not yet ready for the market.

- enhancing the promotion of the event and project among visitors.

Photos:


Fundatia C.F.P.P.D.A.
WaterDiss 2.0
WATERDISS2.0
WATER RESEARCH TO MARKET


WaterDiss 2.0
WATERDISS2.0
WATER RESEARCH TO MARKET


Water Research to Market
Centrul de Formare si Perfectionare Profesionala in Domeniul Apei


WaterDiss 2.0
WATERDISS2.0
WATER RESEARCH TO MARKET
Speeds-up the innovation in the water sector by improving the visibility of water research outputs

WATER RTOM FINAL SEMINAR – June 25th 2013- Barcelona

Contents

Action: National seminar	Type of the communication action : seminar

1. Objective of the event:

This event aims at discussing together about the efficiency of **new knowledge transfer tools** to speed up the uptake of research outputs to practitioners. The objective is to present new experiences and evidence in the existing transfer schemes to speed up innovation in the water market.

Specific objectives (not to make them public):

- To present main outcomes and results from Water RtoM: guidelines, tools, results of each of the partners country, etc.
- To share Researcher's experiences
- To identify End User's benefits
- To work together on identifying the best practice for Water RtoM as a Service
- To disseminate our guidelines
- To identify new inputs for the Business plan

Along to this event Water RtoM will organize the last LC meeting (see red highlighted information about LC meeting)

2. Targeted Audience

The event targets Water RtoM audience and other relevant audience that have been involved during project lifetime

As described in the guidelines, those are:

- The research outputs makers (the water scientific community) who might be interested in learning how to better transfer their results to their potential users.
- The research output users (river basin agencies, water utilities, SME's, etc.) who can learn on how to better identify the existing tools and access ways for research results.
- The research output transfer services (technological platforms, innovation departments at industries enterprises, knowledge transfer offices at universities, etc.) who will exchange and gather new experiences in the science-market interface
- The research funders (research programme organisations) who can identify the needs to complete an efficient research programme scheme.

3. Expected behavior of the targets

The expected behaviour is to raise interest among the audience in the Water RtoM activities as well as to influence them in the everyday life when communicating research, when promoting research outputs or when looking for new solutions coming from research.

It is also to show that major solutions promoted by the Water Research to Market Projects are already tested in some countries with positive results (especially the BC category outputs)

A direct behaviour would be to create a communication line between the end-user and the output manager/owner. This way the output is getting one step closer to be applied onto the market.

4. Message to deliver (simple, clear, concise, single)

The Water Research to Market experience as a chance to boost the implementation of innovative solutions into the water sector

5. Means & Resources to implement to reach the objective

ORGANISATION AND LOGISTICS: AMPHOS 21

- Room
- Hotel bookings: Excel forms (Barcelo Atenea Mar)
- Coffe breaks, Lunch
- Prints
- Web2.0 session (30min while presenting guidelines)
- Etc.

SPEAKERS: SC, LC and other relevant actors

- To prepare our presentations
- To prepare support documents: agenda
- To prepare some private promotion materials?? In most of the cases projects like that have their own leaflets and so on.

6. Agenda, planning, date and place

6.1 Lc meeting

25th June

- *9:00 – 11:00 LC meeting: Open discussion on the objectives and role of the LC members during final seminar (moderators, validation, documents to read for the 26th)*
- *11:00-17:30 Final seminar (seeagenda below)*
- *19:00-20:30 Walking tour*
- *20:30 Social dinner*

26th June

- *9:30 – 13:30: LC MEETING*
  - *Guidelines validation*
  - *Business plan*
  - *Dissemination plan*
- *13:30- 15:00 (LUNCH, IN Bo restaurant)*

6.2 Final seminar

Agenda 25th June 2013

11:00-11:30	**WELCOME COFFEE AND REGISTRATION**		
11.30-12:00	**Session 1**	**Introducing Water Research to Market**	
12:00-13:30	**Session 2** **(ROUND TABLE)**	**The process of speeding up the transfer of water research results**	**The existing tools and initiatives working at the science/policy/m interface** **The success stories from research: when research reaches uptake**
13:30-14:30	**LUNCH (FINGER FOOD)**		
14.30–16:30	**Session 3** **(WORKING**	***How to consolidate the water research to market***	**What are the appropriate channels and methods to enhance visibility of the policy and market demands on water?**

16:30	GROUPS)	step	How can we assess the “readiness to be used” of a water research output? How to improve the promotion of the water research results?
16:30-17:00		WRAP- UP SESSION (PLENARY)	
17:00-17:30	Session 4 (BILATERAL MEETINGS)	NETWORKING SESSION	

7. Practicalities

Accommodation:

- Room (night): 90€/night double room with breakfast (special tariff for us) + TOURIST TAXES
  - Each partner pays by themselves
  - OIEAU pays Lc members plus invited speakers

Social activities:

- Dinner 25th June - covered by Amphos budget
- Lunch 30th Lunch: BO Barcelona – paid by each participant

Meeting room (by Amphos)

- 25TH June - FINAL SEMINAR: Room for 50 people at the Hotel + 2 coffee breaks + 1 lunch
- 26th June - LC MEETING: Room for 15 people

8. To do's

TYPE	WHAT	WHEN
INSCRIPTIONS/ REGISTRATIONS	• 2nd announcement Upload web agenda email 2nd announcement	**10 June**
	• Reminder + aagenda to participants already registered	**10 June**
	• Speakers invitation + confirmation	**Week 03-08/06**
	• Final Registration List	**17 June**
ACCOMODATION/ SUBSITENCE	• Reservation confirmation	**03/06**
	• Coffee and lunch review	**Week 17-21/06**
	• 25TH Dinner reservation	**Week 03-08/06**
MATERIAL	• A4 posters to indicate, room, lunch etc	**Week 17-21/06**
	• 2 Roll-ups	
	• PPT Cover	
	• Videocamara and Camera	
	• Leaflets: Preparation + prints	
	WELCOMING INFO • LC MEMBERS / PARTNERS- (15) Folders: guidelines, business plan, agenda, list participants, questionnaire, rules, leaflet, BARCELONA map, practicalities, Badge, agenda meetings) • FINAL CONF PARTICIPANTS: Leaflet, Badge, agenda, questionnaire, rules, participant list, agenda meetings	
	• Badges	
	• Leaflet	
	• Rules of participation	
	NETWORKING SESSION: • Personal Agenda	
	DISCUSSION GROUP - 3 FLIP CHARTS - POST IT's - Moderator instructions - rotuladores - Pens	

		- Hojas - A3 - Cartels mesas de colores	
	PPT	• Agenda and welcoming • Introduction session1 - • Session 2 – Round table • Session 3 – Discussion groups -	**Week 17-21/06**
	BUDGET CONTROL	•	**Week 03-08/06**

9. ANNOUNCEMENTS

9.1. First announcement (April 2013)

Figure 1 News entailing first announcement of the final seminar.

Invitation email

The consortium of the LIFE+ Water Research to Market project kindly invites you to participate in the "***The Water Research to Market experience as a chance to boost the implementation of innovative solutions into the water*** sector", on 25 June 2013 in Barcelona, Spain, on the premises of the Barceló Atenea Mar Hotel.

The Water RtoM project, funded within the European Union's LIFE+ Programme, aims to speed up the transfer of water related research results to practitioners by adding a step, complementary to the current innovation transfer scheme between scientists and final users (practitioners, administrations, water services, etc).

The project consortium would like to present the results of the Water RtoM project to a small group of specially selected scientists, decision makers and water managers and to discuss and validate the Water RtoM approach to knowledge transfer between science, policy and practice. This event aims at discussing together about the efficiency of new knowledge transfer tools in the water sector.

Please visit www.waterrtom.eu to learn more about our project and this seminar.

You have been identified by our project consortium as an invaluable contributor to the Water RtoM Final Seminar. Early registration is recommended as participation is limited. To register for the conference, please use the following link:
http://waterrtom.eu/registration . For more information, please contact us at waterrtom-seminar@amphos21.com.

We would greatly appreciate your contribution to the Water RtoM project

Best regards,
The organising team

9.2. Second announcement (June 2013)

Figure 2. Newsletter entailing the 2nd seminar announcement

Invitation email

The consortium of the LIFE+ Water Research to Market project kindly invites you to participate in the "***The Water Research to Market experience as a chance to boost the implementation of innovative solutions into the water*** sector", on 25 June 2013 in Barcelona, Spain, on the premises of the Barceló Atenea Mar Hotel.

Please see attached the flyer of the event with further information and the agenda.

The Brainstorming Day is free to attend but prior registration is required at http://waterrtom.eu/registration

Best regards,
The organising team

10. PARTICIPATION LIST

- KB: Knowledge Broker
- KU: Knowledge User
- R: RESEARCHER
- F: funding organisation

	FirstName	LastName	Institution	Role
1	Benoît	Fribourg-Blanc	OIEau (OFFICE INTERNATIONAL DE L'EAU	KB
2	Aleksandra	Jato-Mrozik	Gdansk Water Foundation	KB
3	Francisca	Gomez	SPANISH WATER TECHNOLOGY PLATFORM	KU
4	Tomasz	Walczykiewicz	Institute of Meteorology and Water Management National Research Institute	R
5	Martin	Forst	CCI Limousin (EEN)	KU
6	Zbigniew	Sobociński	Gdańsk Water Foundation	KB
7	Natacha	Jacquin	OIEau	KB
8	Silviu	Lacatusu	Fundatia CFPPDA	KB
9	Yunona	Videdina	Association VERSeau Développement	KU
10	Vacile	Ciomos	ARA	KU
11	Nicole	Zantkuijl	WSSTP	KU

12	Beatriz	Medina	AMPHOS 21	KB
13	Anna	Giménez	AMPHOS 21	KB
14	Ester	Vilanova	AMPHOS 21	R
15	Jordi	Cros	ADASA SISTEMAS	KU
16	Alicia	Navarro	CSIC	R
17	Emanuele	Cimatti	Emilia-Romagna Region	KU
18	Eduard	Pla	CREAF	R
19	Diana	Pascual	CREAF	R
20	Jose Luis	Zabaleta	AIN	KU
21	Josep	Mas	GIRONA UNIVERSITY	R
22	Sergio	de Campos	ADASA SISTEMAS	KU
23	Xavier	Amores	CATALAN WATER PARTNERSHIP	KU
24	Noelia	Ortega	AIN	R
25	Irene	Eslava	AIN	R
26	Enrique	Doblas	CREAF	R
27	Juan Ramón	de la Torre	AIN	KU
28	Laura	Lorenzo	Aqualogy Development Network	KU
29	Teresia	Mucia	KAJIADO WATER OFFICE	KU
31	Armela	Dino	Water JPI	F
32	Marta	Hernández	CETAQUA	R
33	Roy	Neijland	INNOWATER and Netherlands Water Partnership	KB
34	Tomasz	Jurczak	UNIVERSITY OF LODZ	R
35	Natacha	Amorsi	OIEau	KB
36	Athina	Papatheodoulou	Terra Cypria	KU
37	Teresa	Kersting	CETAQUA	R

11.PRACTICALITIES

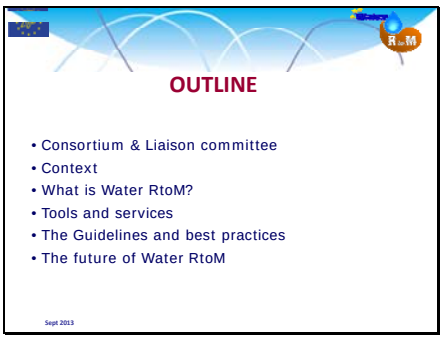
- Two documents were sent to participants with information on practicalities and logistics of the events, one dedicated to the social dinner and a second one with information on the transportation, visit to the city, etc.

12.PHOTOS




13. SESSION 1 – Introduction

This session was chaired by Water RtoM partners. Ms Natacha Jacquin gave following lecture:



The consortium

- **4 Partners' initiative**: FR – PL – ES - RO
  - *INTERNATIONAL OFFICE FOR WATER, OIEAU*, **FRANCE**
  - *AMPHOS 21*, **SPAIN**
  - *GDANSK WATER FOUNDATION, GFW*, **POLAND**
  - *CFPPDA* ***ROMANIA***

Sept 2013

Support of the Liaison committee (advices –user's network)

Enterprises network, technological platforms, Researchers, Basin organisations network…

Sept 2013

The context, justification

- Implementation of the water directives to meet the Good ecological status in 2015
- Less than 40% of the water bodies will meet
- Practitioners need of new knowledge and know-how to respect the water directives
  - Connection between research and policy process is not efficient (10 years for the research output cycle)
  - Research outputs are not ready to use

Sept 2013

Summary

The project aims to speed up water related research to the market, by improving the communication between the researchers and the end-users

The project has provided two main outputs: a set of tools and 10 best practices in the Guidelines

➲Water RtoM consolidates a step in the existing technology transfer scheme

Sept 2013

Water RtoM to whom?

- Basin and sub-basin authorities
- Urban planners and municipalities
- Water users - agriculture, industries
- "Doers" - suppliers of technologies, consultancies, operators (public or private)
- Researchers and research funding bodies

Sept 2013

7

Water RtoM activities

Identifying and selecting the existing research projects (LIFE, Interreg, national programs databases…), in the water domain

Creation of a method for an in-depth assessment in terms of distance to the market and business case (road map)

Promotion of the most "close to the implementation" outputs

Uptake of the outputs

Sept 2013

Water RtoM results

- **From 200** research projects (EU, PL, ES, RO, FR)
  - **80** assessed in terms of distance to the market
  - **30** business cases
  - **12** uptake (success stories)
- **Tools**: Output profil, ReMas, Business Case, e-fair, e-seminars
- **Best practices** to facilitate the transfer of research outputs
- **A service**

Sept 2013

The Tools and services WaterRtoM

Objective: To promote UPTAKE of research outputs at European level

GUIDELINES

A SET OF TOOLS

10 RECOMMENDATIONS

Sept 2013

Session 2

The set of tools

TOOL: PERMANENT WATCHING OF THE WATER SECTOR, Output profile
Output is developed, exist
→ OUTPUT IDENTIFICATION
→ LISTING PROJECTS

ASSESSMENT TOOLS : Research to Market assessment strategy
Output is transferable or need further development
→ REMAS, OUTPUT PROFIL
→ BUSINESS CASES

PROMOTION TOOL: E-fair, E-seminar, market strategy plan
Output need to be promoted
→ E-FAIR
→ E-SEMINARS
→ SEMINARS
→ BROKERAGE EVENTS
→ NEWSLETTERS

Sept 2013

ReMAS

Research to Market Assessment Strategy

PRE-SELECTED LIST OF PROJECTS

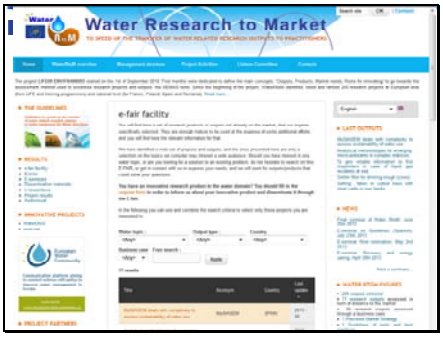
Background – description of research project
Output Characterization – logic matrix
Identification and estimation of RISKS
Estimation of Resources
Steps Ahead

COMPONENT 1
COMPONENT 2
COMPONENT 3
COMPONENT 4
COMPONENT 5

ReMAS TOOL

→ BUSSINESS CASE

Sept 2013



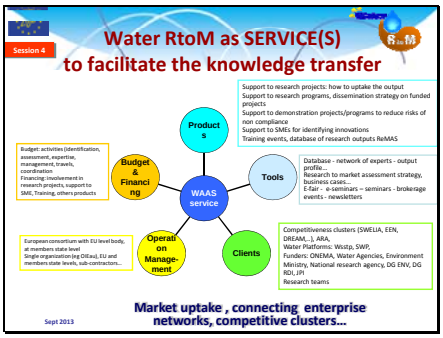
10 RECOMMANDATIONS

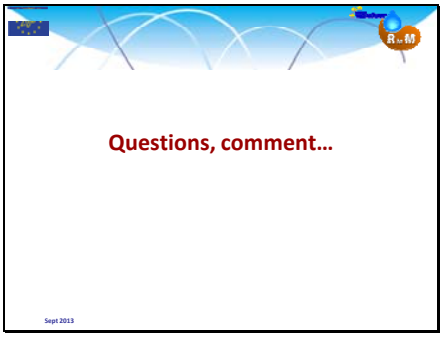
To improve the transfer of innovative research outputs

Session 3

Life cycle for an innovation need	How to achieve the step
IDENTIFYING USER NEEDS from research and enhancing their visibility.	1- Encouraging networking and clustering of researchers, end-users, SMEs (facilitating innovation needs expression and answering market needs) 2- Identifying future needs, according to changes in the regulation, social changes, environmental factors, economical considerations, changes in attitudes, etc …
WG 1 — ANSWERS TO THE NEEDS	
IDENTIFYING and COLLECTING RESEARCH OUPUTS.	3-Enhancing the identification and gathering of innovative results 4-Enhancing visibility for research outputs beside the scientific community
WG 2 — ASSESSING RESEARCH OUPUTS IN TERMS OF DISTANCE TO THE MARKET	5- Using a framework for analysis to assess the distance to market of research outputs 6- Facilitating reuse and implementation of research outputs (IPR) 7- Creating users' committees (how do we know if the innovation offer has been relevant according to the addressed needs?) 8 - Developing a tool matching needs and offer
WG 3 — PROMOTING RESEARCH OUPUTS TO THE USERS.	9- Developing effective communication activities in research projects 10- Reinforcing attractiveness of research outputs (linked to universities and their development structures…)

Sept 2013





Remarks:

BM: Beatriz Medina

NJA: Natacha jacquin

SL: Silviu Lacatusu

ZS: Zbigniew Sobociński

Introduction by BM of the whole conference and overall organisation
Introduction by NJa: OIEau as coordinator of the project and partners ARA, GWF, and Amphos21

Introduction on the organisation of WaterRtoM, ground idea (long time between research output is available and its uptake by end-users) and its main activities: analyses of the distance to market with some tools, e-fair facility and database, and future of the project.
Some words from ZS: the recent past has seen many projects dedicated to improving the last part of the research cycle that is dissemination and future of research projects. The next tendering round will build on this to require not only problems solving by research but also transfer of the solutions to the end users

14.SESSION 2 - THE PROCESS OF SPEEDING UP THE TRANSFER OF WATER RESEARCH RESULTS

SPEAKERS

- Armela Dino. Senior Project Manager at WATER JPI *Water Challenges for a Changing World Joint Programming Initiative* ,Ministry of Economy and Competitiveness (MINECO)
- Natacha Jacquin, OIEAU. Project coordinator of the Water Research to Market project.
- Roy Neijland, Netherlands Water Partnership at Innowater Netherlands Water,.
- Natacha Amorsi, Project Manager, IWRM-Net Coordinator, International Office for Water (OIEAU).
- Nicole Zantujik, Policy Manager at Water Supply and Sanitation Technology Platform (WssTP)..
- Thomasz Jurczak, University of Lodz – Ecohydrologic rehabilitation of recreational reservoirs "Arturówek" (Łódź) as a model approach to rehabilitation of urban reservoirs (EH-REK LIFE08 ENV/PL/000517).
- Ester Vilanova, Project Manager at Amphos 21 Consulting S.L. MCPhreeqc 2.0 is used for modelling many different types of natural geochemical processes.
- Alicia Navarro, Project Manager at CSIC – SCARCE Assessing and predicting effects on water quantity and quality in Iberian rivers caused by global change.
- Jordi Cros Herrero, Director I+D+i at ADASA Sistemas – Innovation enterprise opinion.
- Tomasz Walczykiewicz, Institute of Meteorology and Water Management National Research Institute – Water Rtom LC member.

14.1. SESSION 2.1 THE EXISTING TOOLS AND INITIATIVES WORKING AT THE SCIENCE/POLICY/MARKET INTERFACE

Session moderator:	Beatriz Medina, Amphos21 (BM)
Session objective	Give your experience on existing tools and initiatives improving the science /policy/market interface. How to improve uptake of water research results?
Introduction by the moderator	(2 min,) reason of this round-table in the context of water rtom
Session duration	45 min (12:00 – 12:45)
Colleagues you are sharing the round table with:	- WATER JPI (Armela Dino, MINECO) (AD) - Water RtoM (Natacha Jacquin, OIEAU) (NJA) - Innowater (Roy Neijland, Netherlands Water Partnership) (RN) - CIS Water Science Policy Interface Group (Natacha Amorsi) (NA) - Wsstp (Nicole Zantujik) - *no participation, replaced by Francisca Gomez from the Spanish Water Technology Platfot (FG)*
First round: (3x5=15mn)	3 min each (to present you and your Initiative/ideas: what are you working on and where)
Second round: (4x5 = 20mn)	4 min each(present your tools from the following point of views: - How is the uptake of the research accomplished and the barriers you face in this process. - What are the resources and efforts needed. - Who do you think should be involved and at which stage of the process (knowledge makers, as researchers, knowledge users as policy makers, industry, utilities; knowledge brokers; funding organizations)
Third round: 10-15mn	15 min (Questions) form participants

Remarks:

Introduction and moderation by BM: the first round table is discussing about projects that have been or are running on activities and projects with activities in the same field of action than WaterRtoM. The four speakers will detail projects

- NA on CIS SPI : different steps lead to a research project and
  The CIS SPI has for objective to gather together thematic aspects and have a transversal approach to share research needs and state of the art of available research funded at national and EU level. Gaps in research were identified and shared. Now the new mandate released and includes SPI activity.
  It gathers national water platform involving private sector, research centre and universities with different size and providing support to the members in technology transfer and promoting participation of Spanish partners in European projects and participating also to the European china water platform on desalination and water quantity.
- BM adds the Spanish Water Platform is also member of LC of WaterRtoM.
- RN lead by Spanish and NL partners, European project under the CIP, involving a set of partners to decrease the timing of transfer from 10 to 3, by bringing together research and end users, through support on business plans, definition of research topics…
- AD from the Ministry of innovation on water joint programming initiative, 18 partner countries and 5 observers, a first coordinated call in autumn on water (investment in water in EU countries is 370million, and EU 150million: if this is coordinated better, the efforts can be joined and allow better results).

Question: from speakers experience what are the main difficulties in developing their activities?

- Answer: NJa, the first barrier is to find relevant information, in all countries scanned it was the case, it is a bit easier with EU projects as EU imposes some rules for dissemination. Second aspect is to understand and assess the users' needs to provide them with the relevant information and results.
  Some possible solutions would be to ask for a contact point maintained for a longer period, an harmonised format for summary information on the project.
- EWP/NL: problem also with confidentiality were results can not be disclosed and only summary information can be disseminated but is of low use to end users
- CIS SPI: an other point is to translate to the different communities the needs and results and the interface is crucial: knowledge breaking to allow common understanding.
  An additional problem is the timeframe with a different perspective between policy needs and research projects.
  All the changes need also to be taken into account by the hierarchy of priorities to allow for a real
- FG: in coordination with EWP and JRC
  Two worlds: research and enterprises, and they are not used to regular communications and contacts. In the last few years, the shift in EU and national calls has lead to more contacts, towards projects involving more end users needs. Administration needs also to have innovation to promote towards the thematic sectors, as support to the shift of budgets from infrastructure to innovation.
- RJ: barriers between research and market are numerous, three main barriers can be mentioned: small
  Prove performance paradox: proved in lab but not on industrial size, how to convince the first user to use it.
  Push paradigm: develop of a good technology and then go to the market to see who could use, instead of analysing the needs and work this out.
- AD: coordinate national research plan, EIP on water, water is a societal challenge, there is a momentum now and for water JPI the challenge is how to make possible to have some kind of alignment, at least at EU level to have a virtual common pot for common problems.

Question (participant): as Ukrainian in origin, this kind of common approach is the usual way but how this can be done except in English: the language barrier is a key point.
Answer: a barrier also from regional to national level, and no fully satisfactory solution exists.

What is/are the messages to deliver related to the respective experiences from projects presented on how to cope with barriers?

- AD: we living a momentum for water research and innovation, and we need to take it and build on.
- RJ: uptake of research results should go hand in hand between transfer technology actors and end users, getting the end users involve allow the concrete issues to be tackled by research projects.

Question: cooperation between eastern and western part of Europe: how this could be improved as eastern part of Europe is better prepared to these transfers but currently less

RN: need to shift from a transfer technology towards eastern part of Europe to a more balanced approach also taking advantage of the innovations developed in eastern part of Europe.
FG: highlight the increased participation of Spanish partners in EU projects and innovation transfer approaches, that is a good sign in improvement of the transfer time.

- NA: one key message is there is a need to get the actors better communicate with each others, starting by understanding research will need to be taken by end users, and policy makers will need to understand researchers are not final sellers and need to focus on research. COM is changing, and DG R&I is also changing: they have published a guide for applicants to research projects fundings including dissemination and transfer aspects. They also change their way to provide funds as proved by the 41m€ they have dedicated to demonstration projects in the last FP, which is also a good message in this transfer activities work.
- NJa: our role is also to highlight and promote the projects and results and assess their situation as regards the market, the research and what is their respective future. For the end users, it is not so easy to capture how to reach them

BM summary: actors' willingness to promote the results and to the users to better express their needs are key point for the success.

14.2. SESSION 2.2 THE SUCCESS STORIES FROM RESEARCH: WHEN RESEARCH REACH UPTAKE

Session moderator:	Vacile Ciomos (Romanian Water Association)
Session objective	Share with the audience how your outputs reached the market efficiently and/or how the Water Rtom has provided support in this
Session duration	45 mins. (12:45 – 13:30)
Colleagues you are sharing the round table with:	- Thomasz Jurczak, University of Lodz – Output EHREK - Ester Vilanova, Amphos 21- Output Phreeq + SME opinion - Alicia Navarro, CSIC – SCARCE project - Jordi Cros, ADASA SISTEMAS – Innovation enterprise opinion - Tomasz Walczykiewicz, Institute of Meteorology and Water Management National Research Institute – Water Rtom LC member opinion
First round: 10mn	2 min each present yourself, introduce the research output you represent and the target user)
Second round: 20mn	5 min each develop briefly: - Explain how Water RtoM has supported your work - How your output has reached the market or how have you planned to reach the uptake of your research - Share the lessons learned from this process
Third round:	10 mins. (Questions)

Some concluding remarks:

Jordi Cros – research development

- Need of a real time monitoring instruments

Tomasz Walczykiewicz

- Water R to M provides important tools to evaluate projects
- Many projects involve directly the administration
- (limits: agreements on property rights between public/private)
- take times to explain assumption and results

Tomasz Jurczak.

- Money's missing to support research on cyanobacteria.

Alicia Navarro

- Target: authorities managing river basins including the project
- Key success: to go to their agency to explain what can be used from their outputs
- Key: involve target, explain what they can use, go to them

Ester Vilanova

- Offers solutions to actual and complex problems
- Research to implement our solutions (using European funds; national programme, internal budget)
- To reach client: scientific public, conferences, e-seminars, workshops
- To know the needs of their client because they ve been working with most of them over the last 20 years

Round table 2:

- Store information (standardized data) into database but what about its sustainability
- Coach researchers to support uptake
- Market analysis has t be filled by expertise as well.
- Question: how do you identify your own needs to invest on pressing needs? Based on the internal expertise and the absence of existing tools to solve this, and with history with clients of 20y or more.

Conclusion: the diverse panel showed us the wide diversity of projects that can use waterRtoM tools. All together we can seat and share views and ideas to better cooperate. There are some platforms already around us able to promote the results to the market and need to be developed further.

- Intro by Silviu: in the afternoon session we will ask the audience input and work to feed the process. Rules are detailed in the leaflet in dossier.

15. SESSION 3

15.1. GENERAL RULES OF PARTICIPATION SESSION 3 – WORKING GROUPS - HOW TO CONSOLIDATE A WATER RESEARCH TO MARKET STEP

In the frame of Water RtoM Final Workshop, the session 3 aims to discuss about the consolidation of the Science-Policy-Market interface. Taking the opportunity that participants come from a diversity of professional sectors on the water field: scientists, practitioners and public administrations, this session brings the opportunity to discuss on their opinions and experiences in working in the water sector.

The session will take place in the format of working groups. This is a workshop method which provides a creative environment for collaborative dialogue, sharing knowledge and creating possibilities.

There are 3 working groups each of them based on different discussions, each group will have 30minutes to discuss on each of the discussion topics (see table below). Groups will be organised so that a mixture of experts from different organisations and fields will be gathered. Thus, all participants will discuss and interact with the others throughout this methodology. The achieved ideas will be collected in a visual format for all the round tables.
Please check in your badge your routine of the discussion groups according to the colours order.

14.30– 16:30	**Session 3** **How to consolidate the *water research to market* step (WORKING GROUPS)**	**DISCUSSION 1- What are the appropriate channels and methods to enhance visibility of the policy and market demands on water?** **DISCUSSION 2- How can we assess the "readiness to be used" of a water research output?** **DISCUSSION 3 How to improve the promotion of the water research results?**
16:30-17:00	**Session 4** **(PLENARY)**	**WRAP- UP SESSION** **Vision of the future of WATER RTOM**

GENERAL PROCEDURE

The methodology is to set the discussion up like a working group:

- One table/chairs group for each thematic group planned. Pens, coloured cards and pin boards are provided for each table.
- Each table is dedicated to one topic and is chaired by a moderator and a reporter.
- The topic of each table will be made well visible for all participants.
- There are a total of 3 rounds, one at each of the tables, with 30min each (to be fine-tuned).
- Participants should briefly present themselves (name, institution) at each round.
- Last round will be used to validate and select the most important conclusions.
- Outcomes of each table will be presented at the end of the workshop in a plenary session at the end of the three rounds.

15.2. SESSION 3 - RULES FOR MODERATOR AND REPORTER

Moderator role	• Welcome and introduce newcomers to the group • Introduce the theme, with the support of the A3 document, • Share the essence of that discussion group's conversation • Guides the discussion to be efficient and facilitate the expression of all the participants (do not let individuals domination) • Time keeper, • Responsible for closing each discussion round and opening the new round on time. • Each thematic will be incremented by the following rounds (capitalization): 1. First round: provision of first ideas 2. Second round: validation of previous ideas + new ones 3. Third round, the moderator will ask "how wrtom could fit the 3 main ideas in the future" and participants have to choose the 2 more voted conclusions.
Reporter role	• Give the rules of the discussion: respect, no monopolize the words, • Introduces results of previous working groups • Takes notes on the paperboard, • Ask for clarification if needed • After finishing all working sessions, synthesises results of all rounds

END OF THE WORKING GROUP

Each Reporter+moderator will give the 2-3 main ideas to **Natacha Jacquin**, general speaker for the wrap-up session. She will present the main messages in the plenary session.

DISCUSSION 1- What are the appropriate channels and methods to enhance visibility of the policy and market demands on water?

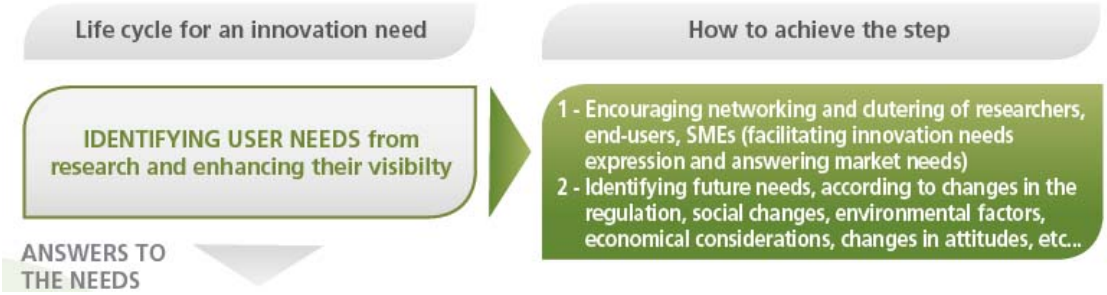
Martin Forst (EEN) – MODERATOR
Natacha Amorsi (CIS-SPI) - REPORTER

DISCUSSION 1

What are the appropriate channels and methods to enhance visibility of the policy and market demands on water?

Is it needed a permanent service identifying those demands?

Some food for discussion from Water RtoM guidelines:



INTRODUCTION (5mn)

Regulations change as well as the social environment, and obligations are regularly imposed to achieve a better status of water ecosystems. Thus, practitioners are frequently changing / adapting their needs and looking for being innovative in order to become competitive at market level. This innovation need by SME's requires products and technologies ready to be brought to the market. Is it possible to better identify the users' demand for new solutions and the changes coming from the market?

This step is focusing at the level of identification of the demand for new research results coming from the market. To improve this identification of the users' needs, two best practices are provided:

1) Encouraging networking and clustering of researchers, end-users, SMEs (facilitating innovation needs expression and answering market needs)

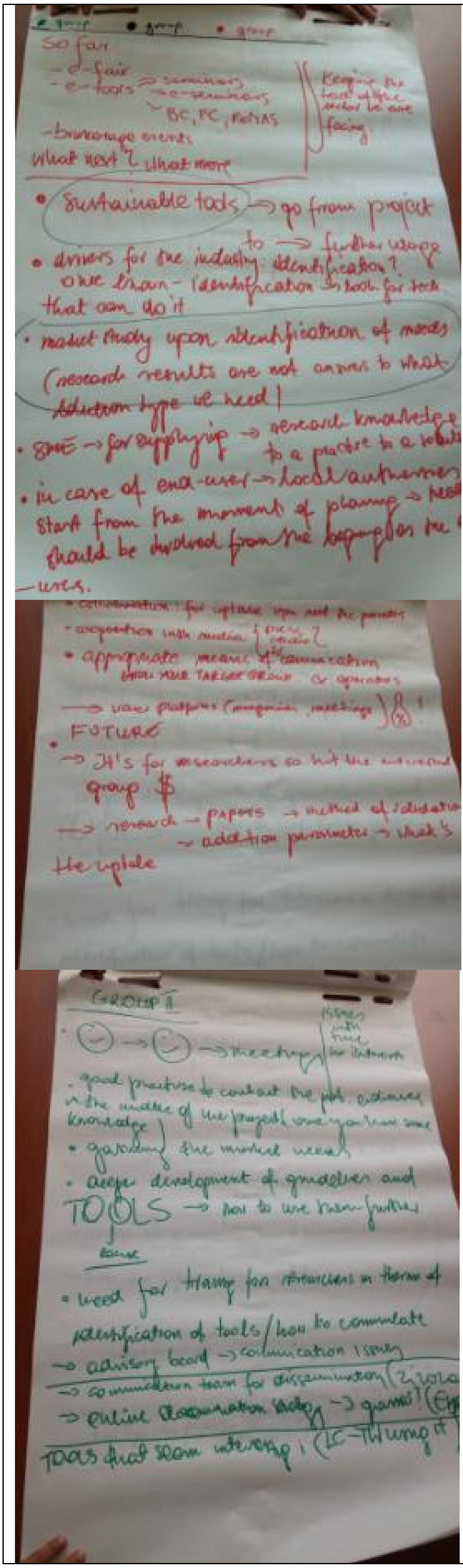
2) Identifying future needs, related to changes in the regulation, social changes, environmental factors, economical considerations, changes in attitudes.

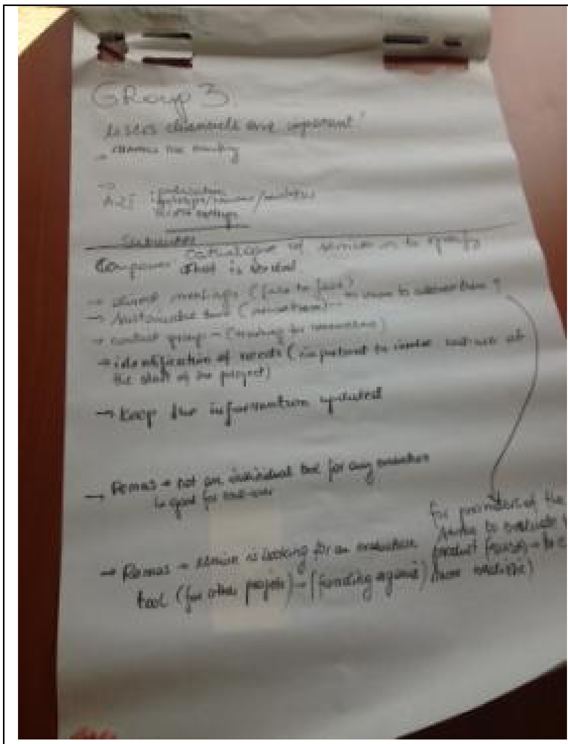
DISCUSSION: The moderator will try to have concrete actions/ideas…

What do you think about these ideas? Are they relevant? Are they not relevant? What is missing? How to Improve?

Last round: How develop the most important actions/tools in the future Water RtoM?

RESULTS FROM DISCUSSION 1


So far
What next? What more
sustainable tools → go from project to → further usage
FUTURE
the uptake
GROUP II
TOOLS


GROUP 3
(face to face)
→ identification of needs
the start of the project)
→ Keep the information updated

DISCUSSION 2- How can we assess the "readiness to be used" of a water research output?

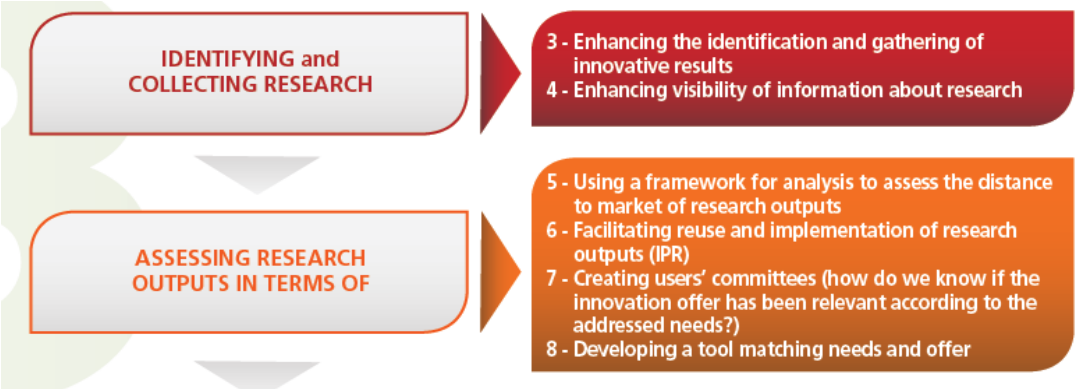
MODERATOR: Francisca Gómez (SWTP)
REPORTER - : Anna Giménez (Amphos 21)

DISCUSSION 2

How can we assess the "readiness to be used" of a water research output?

Who is the appropriate actor to undertake this assessment?

Some food for discussion from Water RtoM guidelines:



INTRODUCTION

European funding programmes have proven to be more effective in the collection of information about research projects, but they are still facing difficulties in collecting transferable outputs outside the scientific community. At the national level this situation becomes even more difficult with very limited research project databases showing research projects and rarely can one identify the market transferable outputs.

Best practices to improve the identification and collection of research outputs and to improve the assessment, knowledge, understanding and promotion of research outputs:

→ read the picture above

DISCUSSION

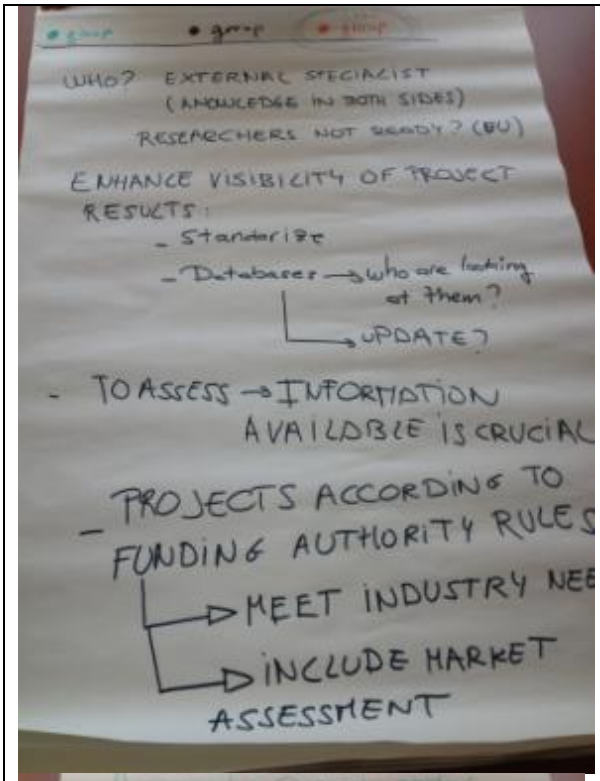
The moderator will try to have concrete actions/ideas…

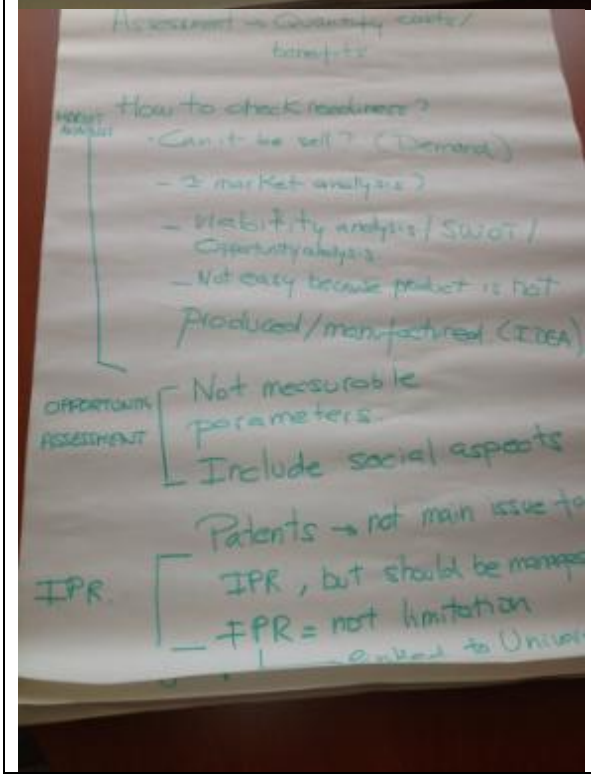
What do you think about these propositions? Are they relevant? Are they not relevant? What is missing? How to Improve?

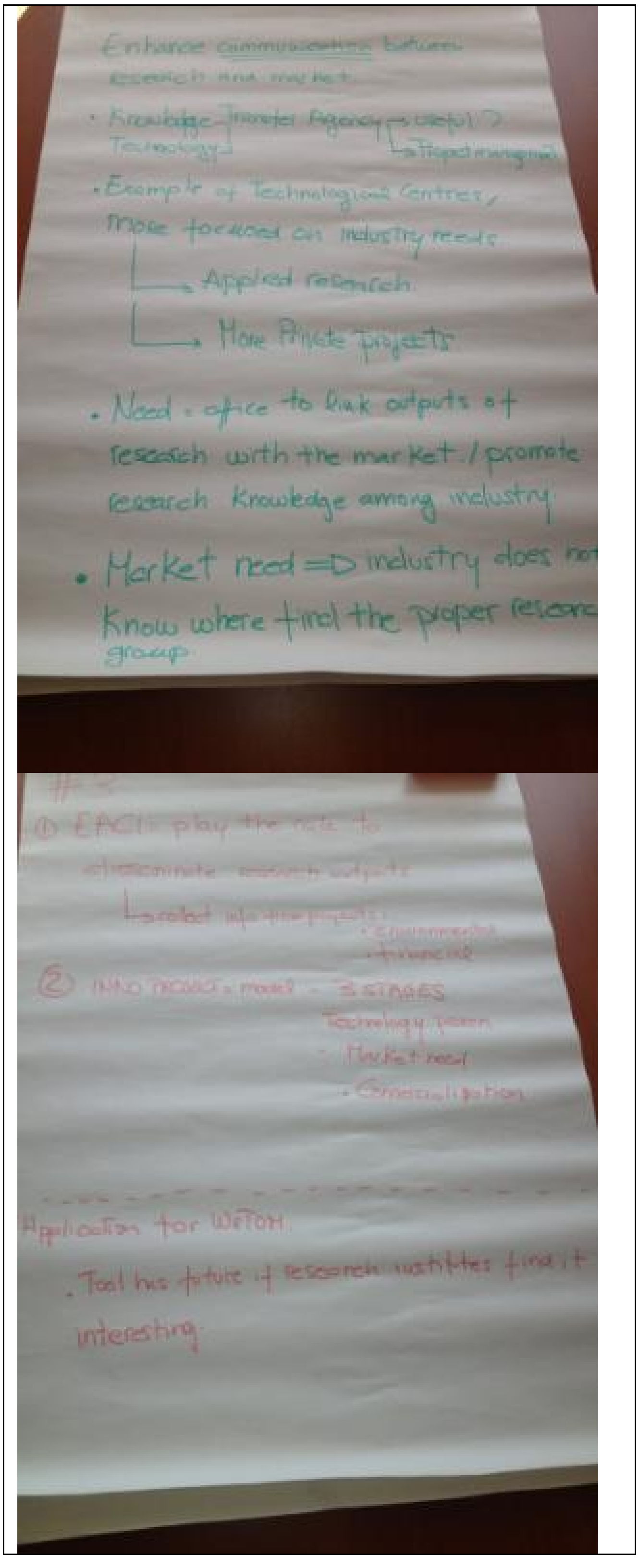
(*How to assess and analyse the status of the outputs with regards to its uptake? How to establish what is needed to do after research?)*

• Last round: How develop the most important actions/tools in the future Water RtoM?

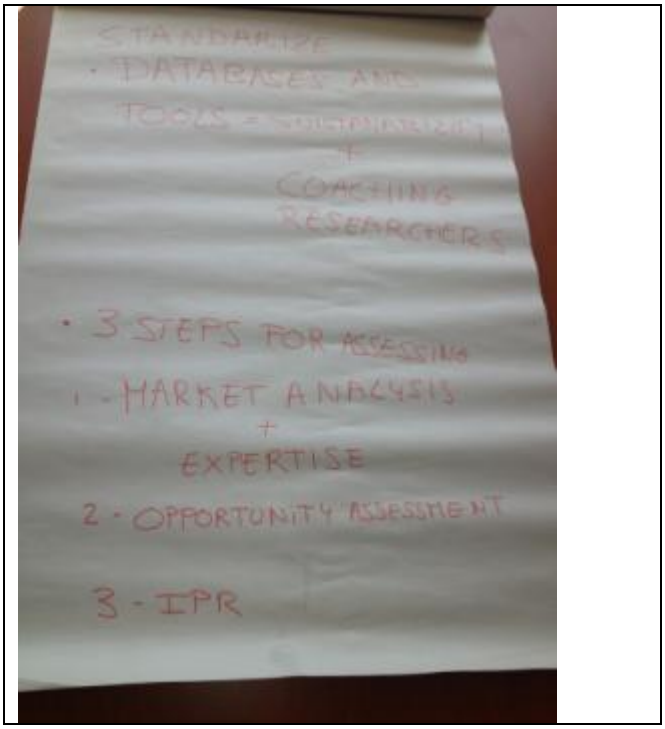
Results from DISCUSSION 2


WHO? EXTERNAL SPECIALIST
(KNOWLEDGE IN BOTH SIDES)
RESEARCHERS NOT READY? (BU)
ENHANCE VISIBILITY OF PROJECT
RESULTS:
- Standarize
- Databases → who are looking at them?
UPDATE?
- TO ASSESS → INFORMATION
AVAILABLE IS CRUCIAL
- PROJECTS ACCORDING TO
FUNDING AUTHORITY RULES
MEET INDUSTRY NEE
INCLUDE MARKET
ASSESSMENT


How to check readiness?
- Can it be sell? (Demand)
- 2 market analysis
- Viability analysis / SWOT / Opportunity analysis
- Not easy because product is not
Produced/manufactured (IDEA)
OPPORTUNITY ASSESSMENT
Not measurable parameters
Include social aspects
IPR
Patents → not main issue to
IPR, but should be manage
IPR = not limitation



Example of Technological Centres,
More focused on industry needs
Applied research
More Private projects
Need office to link outputs of
research with the market / promote
research Knowledge among industry
Market need =D industry does
Know where find the proper
group
play the
Application for
interesting



DISCUSSION 3- How can we assess the "readiness to be used" of a water research output?

MODERATOR : Yunona Videdina (Association VERSeau Développement
REPORTER : Aleksandra Jato (GWF)

DISCUSSION 3
What are the best communication activities to promote research results? Hoe to reinforce its attractiveness to users?
Is it needed special actors or a service to undertake these activities?

Some food for discussion from Water RtoM guidelines

INTRODUCTION

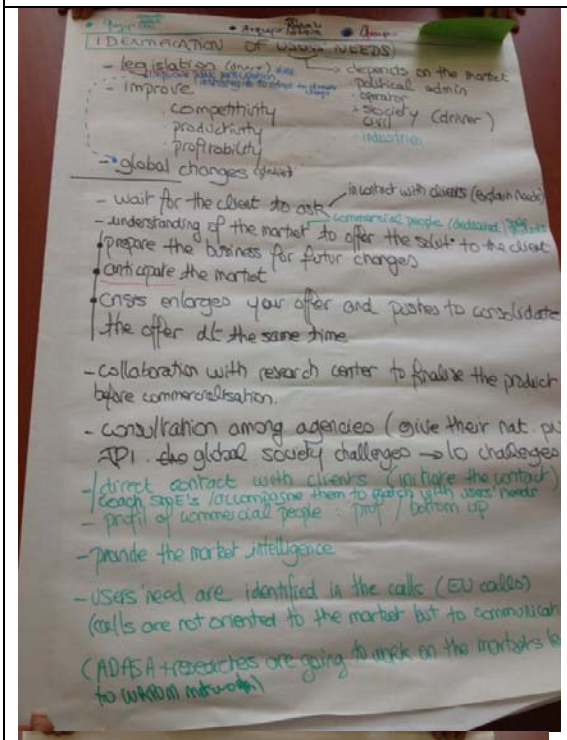
Once outputs are ready to be implemented there are a variety of mechanisms to promote and communicate them to the potential users. Water RtoM has experienced different dissemination activities (seminars, brokerage events, e-seminars, online tools, etc.). The gathered experience results in the following two best practices:

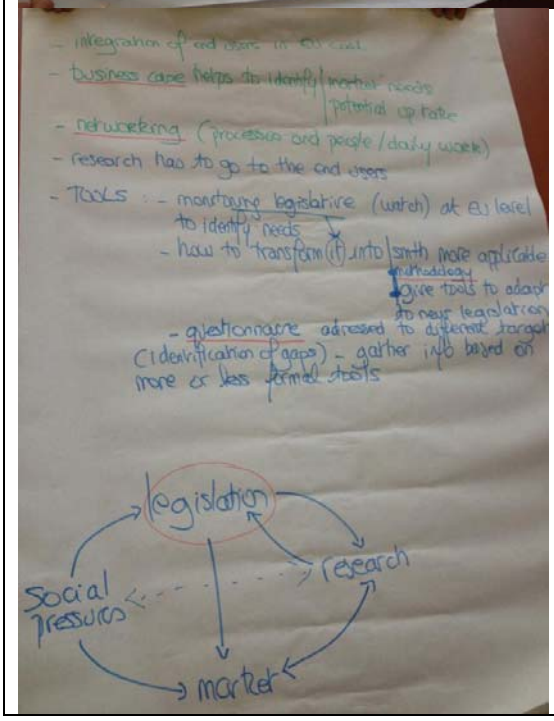
- Developing communication activities in research projects
- Reinforcing attractiveness of research outputs.

DISCUSSION: The moderator will try to have concrete actions/ideas…
What do you think about these propositions? Are they relevant? Are they not relevant? What is missing? How to Improve?)

Last round: How develop the most important actions/tools in the future Water RtoM?

RESULTS FROM DISCUSSION 3





Minutes and conclusions

Who are the our targets? Our stakeholders?

- Combination of end users, researchers and transfer people in this process
- Target: identifying needs and then reallocate research results.
- What are key grounds for needing research results?
  New legislation, money savings, improvement of the competitivity, profitability, productivity, quality.
- Who is the end user? Depends on the market it can be the client who opens the tap, the operators, the public administration.
- Global changes and civil society/citizens are a driver.
- But in the real life, the target is more a clearly delineated actor.

How do you go about identifying the needs?

Either we wait until new driver or demand from clients occurs (close contact with client) or analyse and understand the market to offer the solution, or prepare the business for future and anticipate,

- With the crisis, enlargement of offer occurs and pushes to consolidate the offer. Monopoly is challenged by outsiders
- Some stakeholders try to do a reduction of timing: how ADASA could reach 3-4 years? Is more from research result to marketing, but still rather short. Patents coming from universities are not usable in general as the transfer from lab to practical field needs many changes, so prefer collaboration with universities rather than making the transition to the field.
- Having already in mind the target of being on the market from the start is a core to allow success of the transfer.
- The approach is to be pragmatic by asking the uni what they have on the shelves and in the pipes

Research needs identification: how did it work?(question to the Water JPI)

- Consultation process among agencies to identify research needs (national priorities).
- (overall the JPIs were established to tackle society challenges, and 10 were identified)
- Very top down approach whereas everyone recognise the need to involve ground needs.
  Iin the pilot phase each national agency collected needs from the ground in a different way and this was gathered together to build the common strategy.

2nd roundtable

Who are the our targets? Our stakeholders?

- Understanding the market is done by commercial people (20-30 commercial sales or tendered applicant people), they initiate the contact.
- Every solution provider has direct contact with clients and is able to understand their needs, in Adasa most often technicians that progressively went to commercial activities, in Amphos 21 they are high level experts that match the client needs with the research possible or needed.

How do you go about identifying the needs?

- (INNOWATER) the approach was done with a coach able to connect the SME to the researchers and apply for funding.
- To provide the market intelligence to research community.
- Reinforcing the offer and Users' needs can be already identified in the call (EU calls).

Research needs identification: how did it work?

- Calls are now imposing communication but not market itself.
- Key solution can be to involve a real end user of the result for applied research (EU calls, national calls?).
- Business cases help identify the potential uptake and profitability
- Networking is a key point and success factor.
- Most of this is more people and daily work than tools and devices.

3rd roundtable

- Researchers have not only to be passive, but go to the end user and be active (only way it works, end users will not go to research).
- Legislation is a key driver and filter of the rest of the needs. Watching of EU legislation is therefore key factor and tool to identify user needs. How to transform it into something more applicable: best practice is to give tools to authorities to adapt to new legislation.
- Public participation in developing the legislation is important to develop pragmatic approaches to adapt to global changes.
- Without testing it is not possible to answer
- Identification of users needs can be also be made via questionnaires (formal or informal via contacts but guided via set of questions) to participants with different audience and target the key points of each audience (identification of gaps).

In summary:

- One of the best/key approach is networking
- Legislation watching to have early signs of new developments coming
- Need of questionnaire to extract comprehensive information
- Business cases to identify marketable things
- Ongoing circular process between social pressures, legislation, research, market.

16.WRAP UP SESSION (Zbigniew Sobociński)

Reamarks:

Open questions for Water RtoM

- Will our work be useful to others?
- Is it worth to think about prospective activities?

Validation by participants:

- Impression that it is really worth to think about the second life we are about to discuss
- REMAS as a tool to evaluate internally your projects might be useful for next years
- Guidelines have to be updated according to real life, especially in situation when REMAS will be in use after the project ends / standardized according to different outputs
- Our website should be updated and information kept about outputs useful for everybody
- Standardization of activities on one side, expectations from EU funding on the other side should be kept in a form to use our individual experience and prepare information in the most objective way.

Contacts proposed by participants for future steps:

Patirck.Flammarion@irstea.fr
Allenvi: Nathalie dorfliger n.dorfliger@brgm.fr
Octavi.quintana@ec.europa.eu: directeur European research area
Market and society uptake
Armela.Dino@mineco.es, +34 91 60 377 52

17.*SESSION 5* - NETWORKING SESSION

EMAIL INVITATION

Last session of the event is a **NETWORKING SESSION** (17:00-17:30). It consists in pre-booked bilateral meetings with a maximum of six, where you can discuss individually with the participant institutions during 10 minutes.
Should you want to participate in the networking session, please send an email to us as soon as possible with the subject: **PARTICIPATION TO THE NETWORKING SESSION** and we will come back to you with the participant list of this session in order to let you book bilateral meeting, the final agenda of your bilateral meeting will be delivered to you at the registration.
Best regards,
The organising team

Following are all scheduled meetings:

TIME	OIEau (OFFICE INTERNATIONAL DE L'EAU
17:00-17:10	WATER JPI
17:10 – 17:20	INNOWATER and NETHERLANDS WATER PARTNERSHIP
17:20 – 17:30	CREAF (Centre for Ecological Research and Forestry Application)

17:30 – 17:40	SPANISH WATER TECHNOLOGY PLATFORM
	Association VERSeau Développement – PENDING
	ARA (Romanian Water Association) - PENDING

TIME	Gdansk Water Foundation
17:20-17:30	SPANISH WATER TECHNOLOGY PLATFORM

TIME	SPANISH WATER TECHNOLOGY PLATFORM
17:00-17:10	INNOWATER and Netherlands Water Partnership
17:10 – 17:20	ARA (Romanian Water Association)
17:20 – 17:30	Gdansk Water Foundation
17:30 – 17:40	OIEau (OFFICE INTERNATIONAL DE L'EAU)

TIME	Institute of Meteorology and Water Management National Research Institute
17:00-17:10	CREAF (Centre for Ecological Research and Forestry Application)

TIME	Association VERSeau Développement
17:00-17:10	CSIC (Spanish Council for Research)
17:10 – 17:20	AIN (Industry Association of Navarre)
17:20 – 17:30	WSSTP (Water Supply and Sanitation Technology Platform)
17:30 – 17:40	Terra Cypria

17:40 – 17:50	CREAF (Centre for Ecological Research and Forestry Application)
17:50 -18:00	INNOWATER and Netherlands Water Partnership
Pending request	OIEau (OFFICE INTERNATIONAL DE L'EAU)

TIME	ARA (Romanian Water Association)
17:00-17:10	CATALAN WATER PARTNERSHIP
17:10 – 17:20	WSSTP (Water Supply and Sanitation Technology Platform)
17:20 – 17:30	SPANISH WATER TECHNOLOGY PLATFORM
17:30 – 17:40	INNOWATER and Netherlands Water Partnership
17:40 – 17:50	CCI Limousin (Enterprise Europe Network)
17:50 -18:00	CREAF (Centre for Ecological Research and Forestry Application)
	OIEau (OFFICE INTERNATIONAL DE L'EAU) - PENDING

TIME	CCI Limousin (Enterprise Europe Network)
17:40 – 17:50	ARA (Romanian Water Association)

TIME	WSSTP (Water Supply and Sanitation Technology Platform)
17:20 – 17:30	Association VERSeau Développement
17:30 – 17:40	ARA (Romanian Water Association)

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TIME	Water JPI
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TIME	INNOWATER and Netherlands Water Partnership
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17:40 – 17:50	CREAF (Centre for Ecological Research and Forestry Application
17:50 -18:00	Association VERSeau Développement

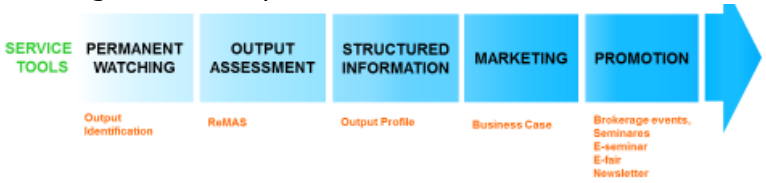
TIME	Terra Cypria
17:30 – 17:40	Association VERSeau Développement

18. QUESTIONNAIRES

18.1. Questionnaire template

MARKET SURVEY « Water RtoM as a service »

*Water RtoM aims to **provide a service** adding a step in the existing transfer scheme, in order to bring on the market new solutions to achieve the good status of waters.*
The service and tools are



You are: ☐ researcher ☐ funding institution ☐ user(market) ☐ policy maker ☐ other (specify)……

1. In general, was this seminar useful for your daily work?

☐ Very useful ☐ Average ☐ Not very useful ☐ Not useful at all

2. Are you interested in WaterRtoM service as tool for dissemination of knowledge

☐ Very useful ☐ Average ☐ Not very useful ☐ Not useful at all

3. What tools are you interested in to speed up the transfer of research outputs to the market? ***(more choices are acceptable)***

☐ Output Identification tool ☐ Assessment tool in term of distance to the market

□ Promotion tool (E-fair, E-seminars) □ No interest

4. **What service proposed by WaterRtoM you might be interested in...** ***(more choices are acceptable)***

□ Permanent watching
□ Output assessment (defining the next developments to be ready to use)
□ Marketing/ Promoting/disseminating the outputs

5. **Do you think, that service proposed by WaterRtoM responds to the market needs?**

□ No, there is no demand
□ No, the service is not attractive
□ Yes but it is not ready to use and need further development
□ Yes, it is ready to use but not fit to be on the market (difficult to find resources)
□ Yes it does fit to be on the market

6. **Would you be willing to pay for the service?**

□ Yes □ Yes with support from public grant (□ 100% - □ 50% □ specify if other……)
□ Not □ Not at this moment *(explain shortly)*

7. **What are you suggestions for the future of Water RtoM as a service?**

Please leave us your details below if you'd like us to contact you for further information

Name, surname: Company:

Address mail Country:

I'm interested in
……
……

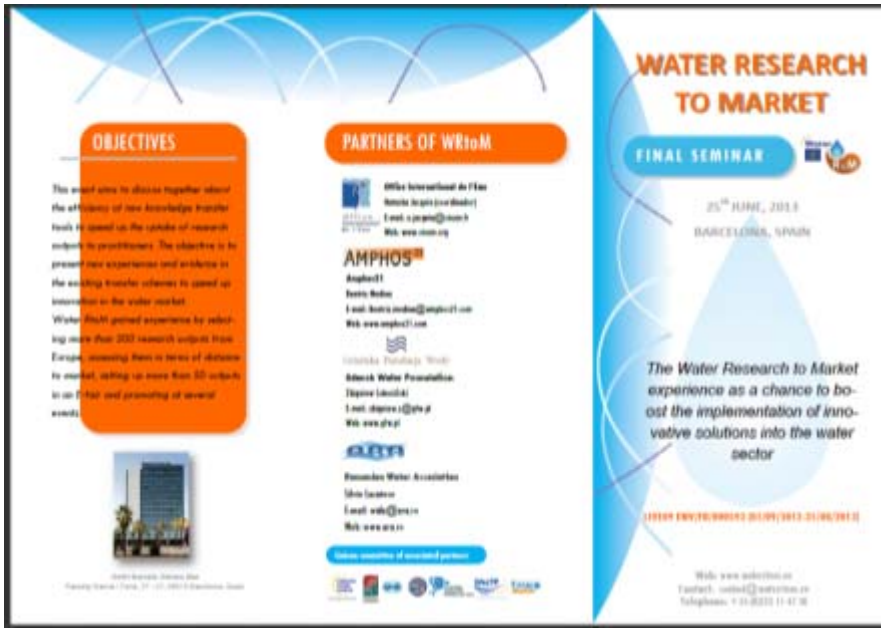
Thank you !

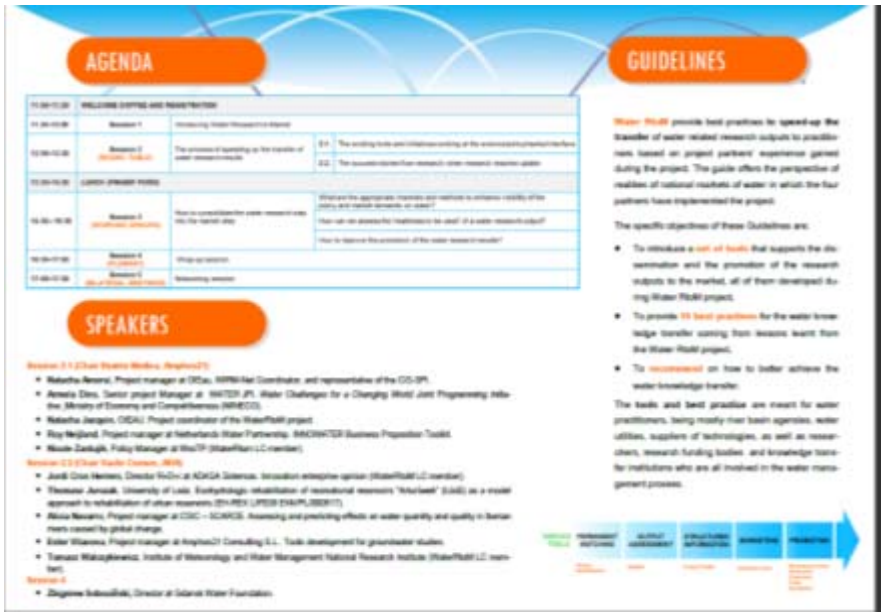
18.2. Results

Market survey results are provided in the Business Plan deliverable

19.PROMOTION MATERIAL

19.1. FLYER





19.2. ROLL- UP

19.3. BADGES

19.4. COVER FOR THE GENERAL PROJECTION

Water Research to Market

National events

Dear Partners,

I would like to kindly inform you about a study tour Gdansk Water Foundation has organized and participated in during 05-08.11.12. Main goal of the tour was to invite decisive people from the water and sewage management sector as well as semi-decisive people from governmental administration of environmental protection to a Factory and a construction site which uses special ceramic pipes and innovative methods of their installation(non-excavation methods). Using this chance, we have provided all 32 participants with detailed materials regarding our activities and the general purpose of WaterRtoM project (newsletter, brochure, business cards of project). Each participant was delivered with the information about promoted outputs and contact details of the output owners. We have also gathered their addresses in a data base of people willing to receive information about the project. Most of the participants showed an extend interest in out Genesis output and outputs related to water aquifer recultivation due to the environmental pushed towards this subject.

Below I provide you with the list of names of participants and in the e-mail I would like to attach few pictures of the group.

1. Jerzy Grad

2. Adam Trzyna

3. Aneta Siedlec

4. Katarzyna Czech

5. Paweł Barchan

6. Monika Kuczyńska

8. Krzysztof Kuta

9. Tomasz Kumek

10. Stanisław Grażka

11. Urszula Sułek

12 . Tadeusz Pilzak

13. Barbara Pilzak

14. Iwona Szczepanek

15. Robert Zawadka

16. Cezary Jasiński

17. Małgorzata Jasińska

18. Władysław Warda

19. Zbigniew Chomicki

20. Jacek Chomicki

21. Grzegorz Pokorski

22. Marcin Pełszyk

23. Bronisław Bublik

24. Anna Maria Gilner

25. Tadeusz Tylka

26. Beata Bocheńska

27. Kinga Majewska

28. Wacław Biel

29. Jerzy Biernat

30. Dorota Gabryl

31. Elżbieta Łabędź

32. Maria Kotulska

Due to the problems I have had recently with OPEN KM I still can't log therefore it is impossible for me to upload it ☹ (Benoit – can you PLEASE – check it?)

AQUATECH – LIMOGES 7 feb. 2013

Action: Communication **Type of the communication action : seminar**

1. Objective of the event:

The conference Aquatech gathers together water professional former students in Limoges University. Each 2 years a conference is organised with 150 participants from all over the country participated. February 7th 2013 was dedicated to "Carbon footprint, savings and energy recovery in water treatment facilities. Existing tools and Feed Back". The conference was supported by enterprises networks (Limousin Environment Cluster, EEN, Scientific association for Water and Environment, Faure Equipment, The Regional Council of Limousin and the City of Limoges.

The objective for participating to Aquatech is to promote Water RtoM through concrete Outputs analysed with Water RtoM tools (Remas, Business case) in order to demonstrate the value of Water RtoM as a service and to promote 2 outputs. Water RtoM's presentation took place under the section "Relation Research-Industry-Market"

2. Targeted Audience

Professional of the water sector, especially in the Energy saving sector.

3. Expected behaviour of the targets

To uptake the 2 outputs (GREENLYSIS and OMZET)
To be aware of the potential service provided by Water RtoM and to use the service for their own problematic.

4. Message to deliver (simple, clear, concise, single)

Thanks to the tools developed during Water RtoM LIFE+ project, a service is available for you to facilitate the innovation for your organisation and for your clients.
Water RtoM fills the gap between the end-users' needs and the Research

5. Means & Resources to implement to reach the objective

Internal and external resources

Aquatech is organised by Limoges University (GRESE, Research Department Water, Soil and Environment). Oieau was invited to present Water RtoM and Outputs linked the them of the conference "energy saving in waste water treatment)

Speakers for Water RtoM: Natacha Jacquin, Bruno Portero expert for OIEau in Energy saving did the evaluation in terms of distance to the market of 5 outputs in energy saving (available in the E-fair).

6. Agenda, date and place: University of Limoges, Feb. 7th 2013

Programme de la journée

8h30-9h00 : Accueil

9h00-9h20 : Ouverture de la journée de conférences

9h30-10h10 : Bilan Carbone : les outils

- ✓ Définition du « Bilan Carbone », *Antoine AUDEBERT*, MOVIGI
- ✓ Bilan Carbone, *Anne-Laure REVERDY*, IRSTEA

10h10-10h30 : Pause

10h30-11h30 : Bilan Carbone : les applications

- ✓ ACV usines Eau Potable : principaux résultats du projet EVALEAU & exemple d'application à une usine en région IDF, *Isabelle BAUDIN*, Suez Environnement.
- ✓ Détermination de l'empreinte carbone d'une usine de traitement des eaux usées. Cas de Boulogne sur Mer, *Marion FEUILLET*, Veolia
- ✓ Tecnoconverting : Le compromis carbone d'un équipementier, *Rafaël SOLANS*, Consultant

11h30-12h00 : Séance de questions sur les bilans carbone

12h00-14h00 : Pause déjeuner

14h00-15h20 : La méthanisation comme source d'énergie

- ✓ La Méthanisation, *Serge CHAMBON*, ODESSOL
- ✓ Digestion des boues de station d'épuration, *Thierry PICHARD*, IRH Environnement
- ✓ Bilan environnemental et énergétique d'une unité de méthanisation agricole *Quentin MONTEIL*, Terrebiogaz
- ✓ Questions

15h20-15h40 : Pause

15h40-16h40 : Economies et récupération d'énergie

- ✓ Optimisation de l'économie d'énergie d'installations de traitement de l'eau, *André LARIGAUDERIE*, SAUR
- ✓ Les eaux usées : une source de chaleur, *Aysseline DU MOULIN & Marc PERAUDAU*, Veolia
- ✓ Questions

16h40-17h10 : Relation recherche-industrie- marché

- ✓ Water Research to Market, de la recherche au marché, appliqué à la recherche sur les économies et récupération d'énergie dans les installations de traitement des eaux, *Natacha JACQUIN*, OIEau
- ✓ Questions

17h10-17h20 : Clôture de la journée

4

7. Budget (€)

No cost

8. Indicators to evaluate the achievement of the objective

Number of interesting contact in Water RtoM: 0
Number of interesting contact in the Outputs: 0

9. Main constraints

No risk

10. Implementation of the action

Number of participants: 150 participants expected from public and private organisation in the water treatment, researchers, and elected people: 80 came.

11. Lessons learnt

During the project Water RtoM, the French and Spanish partners have decided not to organise events by ourselves because of the lake of interest of the potential innovators. Aquatech confirms this vision. From 80 participants, the researchers were 40 of them, 10 enterprises, 10 consultants, 10 regional and local authorities, 5 Clusters/Networks, 5 others. These figures demonstrate the lake of interest of the private companies and water services for the conferences.

Regarding Water RtoM, participants were very interested in the presentation, they asked lot of question to better understand. Nevertheless, the contacts were no pursued.

12. Photos of the event (Limoges University)

Natacha Jacquin (Water RtoM presentation, OIEau)

Bruno Portero (Output presentation, OIEau-CNFME)

Bruno Portero (Output presentation, OIEau-CNFME)

The participants of the seminar

The participants

13. Presentations

In annexes (in French):

- PPT
- Paper for communication
- Newsletter
- Abstract of the minutes of Aquatech

Water RESEARCH to MARKET

Pour accélérer le transfert des résultats de la recherche vers les utilisateurs et améliorer la mise en œuvre des directives sur l'eau

WATER RtoM

LIFE09 ENV/FR/000593

(sept 2010 – Août. 2013)

AQUATECH 2013

Natacha Jacquin - Bruno Portero

Office International de l'Eau

L'OIEau est membre du Pole Environnement Limousin

Contexte

- **4 Partenaires**: FR – PL – ES - RO
  - Office International de l'Eau (OIEau), coord. - FR
  - Fondation de l'eau de Gdansk– PL
  - Amphos 21 – ES
  - Centre de formation de Roumanie – RO

- **Contexte**:
  - Moins de 40% des masses d'eau atteindront un bon état en 2015 (DCE)
  - Un besoin de nouvelles initiatives et connaissances
  - Difficulté de transférer les résultats de la recherche vers les praticiens en moins de 10 ans

- **L'idée de Water RtoM, c'est :**
  - Accélérer le transfert des résultats de la recherche dans le domaine de l'eau en **ajoutant une étape** au système de transfert existant

Ambition de Water RtoM

Offrir un service pour promouvoir les innovations via

une Veille sur les innovations

une Evaluation des résultats de la recherche en terme de distance au marché

La dissémination des informations : e-foire aux innovations, (e-)évènements…

La E-fair Water RtoM

- **200** projets identifiés (EU, PL, ES, RO, FR)
  - **50 évalués en terme de distance au marché (2012)**
  - 75 prévus en août 2013
- Exemples de Thèmes de recherche :
  - Economie et récupération d'énergie (energy saving): 7 résultats
  - Changement climatique : 6 résultats
  - Restauration des rivières : 5 résultats
  - …

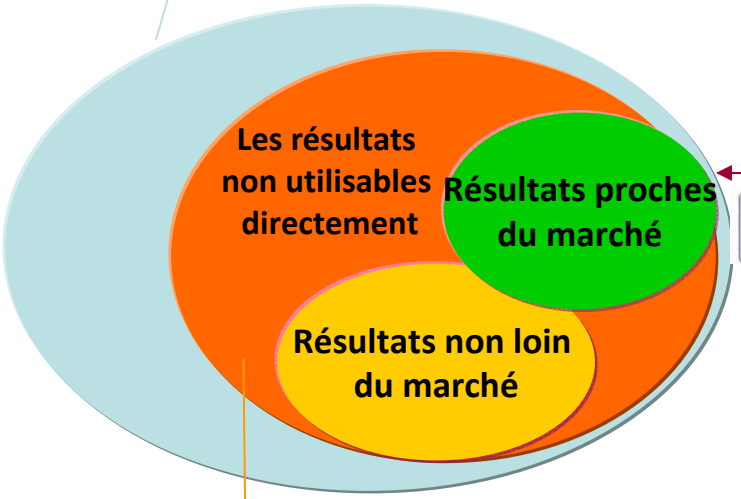
A qui s'adresse Water RtoM ?

- Organismes de bassin
- Collectivités
- Usagers de l'eau: agriculture, industries
- Fournisseurs de technologies, consultants, opérateurs (public ou privés)
- Chercheurs et financeurs de la recherche

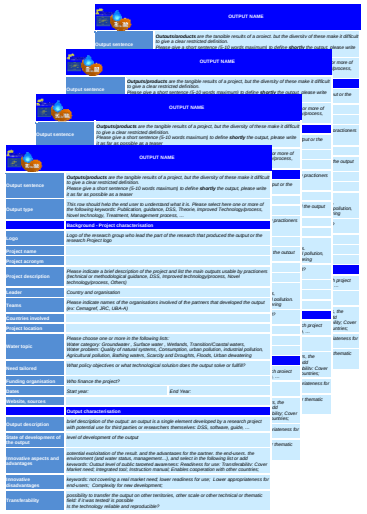
Stratégie
= liste -> évaluation -> promotion

Résultats de la recherche

Le Marché
Les utilisateurs



Evaluation d(R/M)



Promotion

Rencontres professionnelles
colloques
e-séminaires - E-fair

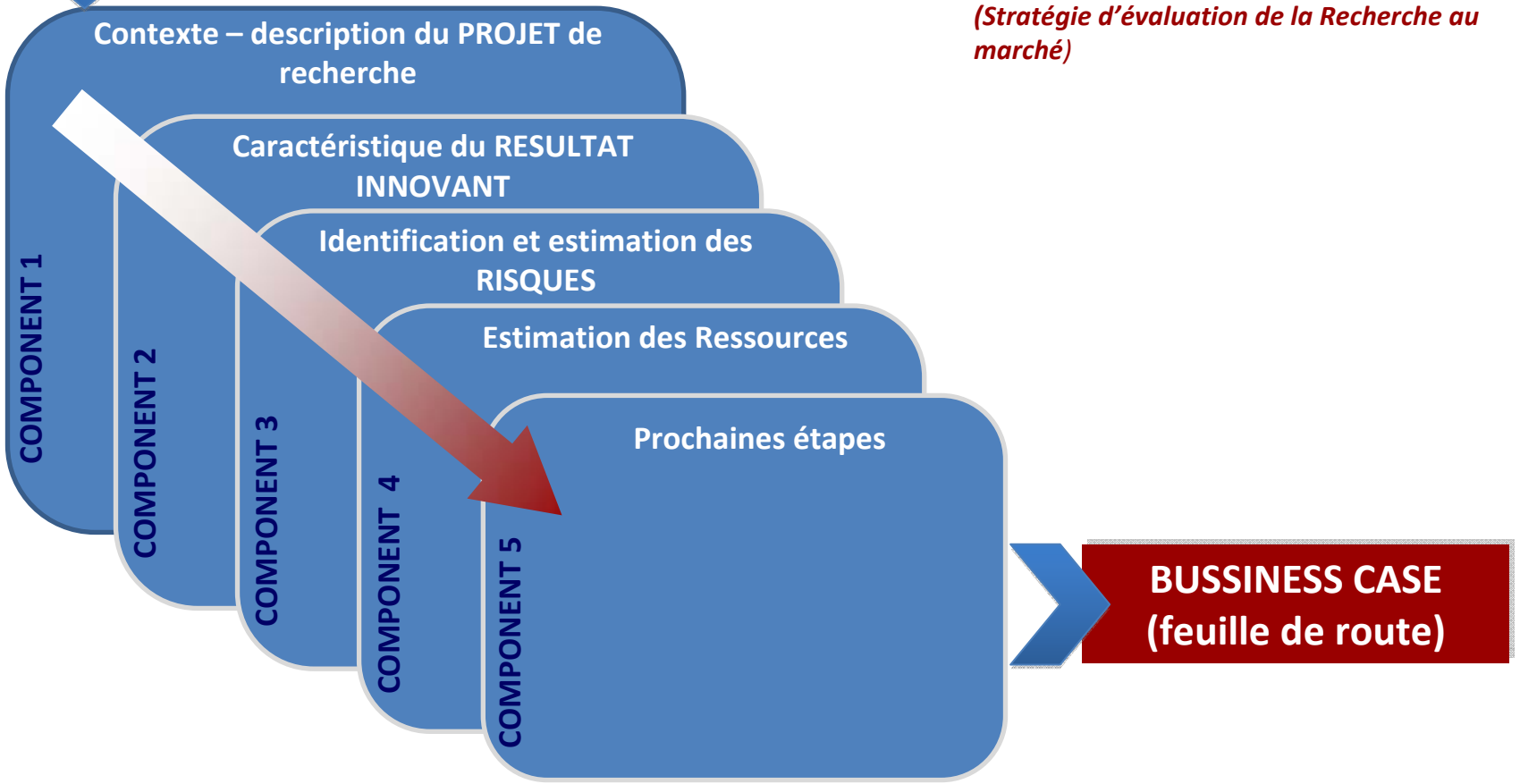
Liste de projets innovants pré-sélectionnés(200)

Evaluation des innovations

LISTE Des projets de recherche sélectionnés

ReMAS

(Stratégie d'évaluation de la Recherche au marché)



BUSSINESS CASE (feuille de route)

Visitez le e-fair www.waterrtom.eu

www.waterrtom.eu

Water Research to Market

TO SPEED UP THE TRANSFER OF WATER RELATED RESEARCH OUTPUTS TO PRACTITIONERS

Home | Project overview | Management structure | Project Activities | Liaison Committee | Contacts

The project **LIFE09 ENV/FR/000593** started on the 1st of September 2010. First months were dedicated to define the main concepts: "Outputs, Products, Market needs, Risks for innovating" to go towards the assessment method used to scrutinise research projects and outputs: the REMAS tools. Since the beginning of the project, WaterRtoM identified, listed and ranked 200 research projects at European level (from LIFE and Interreg programmes) and national level (for France, Poland, Spain and Romania). Read more...

▶ RESULTS

- e-fair facility
- e-seminars
- Events
- Dissemination materials
- Project results
- Audiovisual

▶ WATERRTOM IN 2012

e-fair facility

You will find here a set of research products or outputs not already on the market, that our experts specifically selected. They are enough mature to be used at the expense of some additional efforts, and you will find here the relevant information for that.

We have identified a wide set of projects and outputs, and the ones presented here are only a selection on the topics we consider may interest a wide audience. Should you have interest in one water topic, or are you looking for a solution to an existing problem, do not hesitate to search on this E-FAIR, or get in contact with us to express your needs, and we will seek for outputs/products that could solve your questions.

In the following you can use and combine the search criteria to select only those projects you are interested in.

Water topic : <Any> Output type : <Any> Country <Any>

Free search : Apply

English

LAST OUTPUTS

Integration of renewable energy sources (photovoltaic) in wastewater treatment.

Development and validation of methods for integrated assessment of ecological status of rivers and lakes to support river basin management plans

Focus on the key sources of environmental risks

Ecohydrological rehabilitation of recreational reservoirs "Arturówek" as a model approach to rehabilitation of urban reservoirs

Technological collaborative platform to design and to evaluate scenarios of agricultural practices.

Exemple de Fiche Produit – water RtoM

Back to outputs list

SOSTAQUA

	Output characterisation
OUTPUT SENTENCE	Integration of renewable energy sources (photovoltaic) in wastewater treatment.
OUTPUT TYPE	prototype
WATER TOPIC	Urban pollution
KEYWORDS	Wastewater treatment; Problematic, high power consumption.
KEYWORDS TYPE	PROTOTYPE- laboratory scale plant for treatment of
MARKET NEED TAILORED	Reducing energy consumption in the water treatment plants
OUTPUT DESCRIPTION	Photovoltaic solar energy can provide power without primary fuel. The introduction of solar photovoltaic power can be replaced as operating costs (fuel) for investment costs (equipment), without causing environmental damage resulting from the use of renewable energies. Demonstrate the technological feasibility of a self-sustaining process of integrating and Electro-Oxidation assisted solar photovoltaic (ESOF process) for the treatment of wastewater contaminated with organic load and evaluate the environmental sustainability of ESOF process, using solar energy against lattice energy of electro-oxidation process conventionally.
STATE OF DEVELOPMENT	Studying the integration of photovoltaic solar energy in a laboratory scale process of electro-oxidation for removing biodegradable organic matter. Demonstrate the technological feasibility of urban sewage treatment plant continuously through a pilot plant scale electro-oxidation of a wastewater treatment plant located in assisted and controlled power

INNOVATIVE ASPECTS AND ADVANTAGES	Integration of renewable energy (photovoltaic) in the process of wastewater treatment. The advantages of the technology of electro-oxidation is the possibility of oxidation of compounds without chemical reagents consumption, generates no sludge or by-products, making easier the operation and control. Photovoltaic solar energy can provide power without a primary fuel, which can replace operating costs (fuel) for investment costs (equipment) without causing environmental damage.
INTELLECTUAL/INDUSTRIAL PROPERTY RIGHTS	SOSTAQUA project
TRANSFERABILITY	This system can be installed in any urban or rural EDAR where it exists organic load in wastewater.
POTENTIAL USERS/CLIENTS	Wastewater treatment plants with organic loading national and international.
	Estimation of risks
EVALUATION OF RISKS FOR OUTPUT USERS	Knowledge need on the behavior of laboratory scale effluent (technical feasibility).
ECONOMICAL RISKS	High cost of energy derived from the operation.; High cost of equipment investment.
TECHNICAL RISKS	The independence of mass storage systems energy: in short, the volume / flow to be treated is a function of available sunlight, so always be more effective to treat water storage than the equivalent amount of energy as batteries.
MARKET RISKS	Very young technology, expensive investment to be completely autonomous, viable locations with energy problems.Real Decree Law 1/2012 by which proceeds to the suspension of pre-allocation procedures in new production facilities special regime electrici
	Steps ahead

Partenaires associés

(conseil – lien avec les utilisateurs finaux…)

Prochaines étapes

- Fin du projet (Aout 2013), Business plan en cours pour assurer la pérennité
- Un guideline (disponible sur le site fin Mars 2013)

Illustrations: identification et analyse de 3 produits

- **Electrolyse de l'eau traitée** pour produire de l'oxygène et de l'hydrogène à partir d'énergies renouvelables (solaire et éolien)
- **Economie d'énergie et valorisation du phosphore** dans le traitement des eaux usées (OMZET projet)
- **Réduction de la consommation d'énergie** dans le traitement , l'élimination de boues de station d'épuration (Projet Pyrobio)

Output 1

Electrolyse de l'eau traitée pour produire de l'oxygène et de l'hydrogène à partir d'énergies renouvelables (solaire et éolien)

- Utilisation de l'Oxygène produit pour le traitement biologique des eaux usées
- Utilisation de l'Hydrogène pour production de l'énergie électrique, et alimenter des véhicules de transport

- Equipe: ES CETAQUA / SUEZ Circee / Saft Batterie
- Innovation: à l'échelle industrielle sur un pilote
- Etat de développement (2010-2012): Pilote opérationnel sur la station d'épuration de Montornès del vallès (200.000 EqH, Espagne) ; test de nouvelles technologies
- Prochaines étapes pour qu'il soit « ready to use » :
  - Système opérationnel et industrialisable
  - Problème du retour d'expérience dans le traitement des eaux usées avec injection d'oxygène
  - Problématique de l'utilisation de l'hydrogène (développement de la filière combustible)
- Condition de reprise: Plusieurs brevets sur les différentes étapes du traitement

Output 2

Economie d'énergie et valorisation du phosphore dans le traitement des eaux usées (OMZET projet)

- Equipe: M. VAN VELDHUIZEN (Hollande), Gestionnaire public de l'eau et de l'assainissement de la vallée de l'Eem et des partenaires industriels
- Innovation : à échelle industrielle
- Traitements innovants dans les domaines des traitements dans une station d'épuration :
  - Azote (système Anammox)
  - Phosphore (récupération comme produit valorisable)
  - Boues (désintégration des boues par US)
  - Augmentation de la production de Biogaz
  - Récupération de la chaleur pour la déshydratation des boues
- Etat d'avancement :
  - Phase d'expérimentation sur la station d'épuration de Amersfoot
  - Durée du projet : Sept 2011 à Déc 2016
- Condition de reprise: Plusieurs brevets sur les différentes étapes du traitement

Output 3

Réduction de la consommation d'énergie dans le traitement , l'élimination de boues de station d'épuration (Projet Pyrobio)

- Procédé : Séchage, Pyro gazeification, post combustion pour production énergie électrique avec une turbine à huile
- Equipe: Finaxo Environnement, ENEAS, IOTA Env., Région Champagne Ardenne
- Pilote sur la station d'épuration de la communauté de communes de Fismes (51)
- Durée du projet : 2010-2012
- Distance au marché: Procédé opérationnel sur la station d'épuration
- Problèmes soulevés : Réglementation européenne sur les fumées, qualité de la boue de STEP peu stable, technique sophistiquée et complexe, rentabilité à confirmer au vu du prix actuel de l'énergie, d'autres études voisines ont été ou sont menées actuellement.

Les projets sélectionnés et non présentés

- **Autonomie énergétique** sur la station d'épuration de Koblentz (2010 – 2014, Allemagne)
  - traitement des boues par thermo-gazéification et production d'énergie électrique
- **Traitement des boues** par micro-ondes et séchage à l'air chaud pour production des plaquettes de chauffage – (2010 – 2013, Italie)
- **Production d'énergie électrique** en station d'épuration par cellules à membranes PEMF et SOFC à partir de biogaz et stockage de H2 (piles à combustible)
  - Projet Catalogne (2009 – 2012) – CETaqua, Suez Environnement, Degremont, Projet Biocell
- **Augmentation de l'efficacité énergétique** dans le traitement des boues
  - Amélioration de la production de Biogaz
  - Machine à cycle de Rankine
  - Utilisation de micro-turbines
  - Entreprise VERDESIS (janv 2010 – déc 2013)
- **Réduction de la consommation d'énergie** dans le domaine de l'irrigation
  - Monitoring des besoins hydriques des sols par implantation de capteurs et détecteurs de fuite d'eau
  - Fondation Dan Valero (Espagne , janv 2010 – sept 2013), projet Optimizagua

Visitez le e-fair

www.waterrtom.eu

Water Research to Market – de la Recherche au marché
Où en sont les innovations dans le domaine des économies et récupération d'énergie dans les installations de traitement des eaux ?

Natacha Jacquin – Bruno Portero
Office International de l'Eau, Limoges, France
Aquatech – février 2013

Résumé :

Le projet européen Water Research to Market, financé dans le cadre du programme LIFE, vise à développer une stratégie pour accélérer le transfert des résultats de la Recherche dans le domaine de l'eau vers les praticiens (les utilisateurs finaux).

A partir de l'identification de 200 résultats de la Recherche dans le domaine de l'eau au niveau Européen et national (France, Pologne, Roumanie, Espagne), le projet a développé une stratégie de promotion via l'évaluation de quelques résultats en termes de distance au marché, leur dissémination via une e-fair (la foire aux innovations) et des évènements.

Dans le cadre de ce colloque, Water RtoM illustre sa stratégie avec 2 innovations identifiées dans le domaine des économies et récupération d'énergie dans les installations de traitement des eaux.

Mots-clefs : innovations, traitement de l'eau, transfert technologique, économie d'énergie, stratégie d'évaluation

Introduction

La mise en œuvre des directives européennes sur l'eau (telle que la directive cadre sur l'eau et ses directives filles) ne permettra pas d'atteindre le bon état des eaux pour plus de 60% des masses d'eau en Europe d'ici 2015. Ce constat suppose de faire appel à de nouvelles technologies et de nouvelles connaissances pour faciliter l'atteinte des objectifs des directives. De nombreux résultats de la recherche existent mais leut temps de transfert est de l'ordre d'une dizaine d'années. Water RtoM expérimente une stratégie de promotion des résultats de la recherche permettant d'accélérer le transfert des résultats innovants vers les praticiens (plus spécifiquement les organismes de bassin, les planificateurs, les municipalités, les services des eaux et autres utilisateurs…) ainsi que vers leurs fournisseurs (de technologies, les consultants, les opérateurs).

Méthode

La stratégie développée par Water RtoM s'appuie sur une veille des résultats de la recherche dans le domaine de l'eau au niveau européen (via les projets financés par LIFE, INTERREG…) et au niveau national (France, Pologne, Roumanie, Espagne). A partir de l'identification de 200 projets de recherche, Water RtoM a pré-selectionné les projets qui semblent les plus près du marché.

Une évaluation plus poussée des innovations (outils, méthodes, traitements…) les plus prometteuses permet d'estimer leur potentiel d'utilisation par un utilisateur final, à un coût raisonnable, avec des risques acceptables. Cet outil d'analyse développé dans le cadre du projet est le **ReMAS** (Research to Market Assessment Strategy – Stratégie d'évaluation de la distance au marché). Lorsque l'information est disponible, l'évaluation inclut les droits de propriété intellectuelle et industrielle.

Pour les innovations classées « prêtes à être mises en œuvre » ou autrement dit non loin de la phase de commercialisation, une analyse plus en profondeur est réalisée en lien étroit avec les équipes de recherche afin d'identifier les étapes suivantes et construire une « feuille de route » (appelée **business case**).

Water RtoM vise en parallèle à promouvoir les innovations « près du marché » auprès des utilisateurs potentiels (les gestionnaires de l'eau, les consultants, les développeurs d'innovations etc.), dans le cadre d' « un plan de **promotion** » basé sur une e-foire aux innovations (e-fair) accessible sur le site www.waterrtom.eu/e-fair (en anglais), lors de rencontres professionnelles, de colloques ou encore des rencontres virtuelles (e-seminaires).

Un **guide** à l'usage des utilisateurs finaux est en cours de préparation (disponible en mai 2013). A partir de la stratégie Water RtoM, des outils développés, il proposera des recommandations établies sur la base de l'expérience tirée de deux années de déroulement du projet et visant à rapprocher les utilisateurs et les chercheurs.

Water RtoM, en chiffres

- 200 projets référencés
- 50 résultats de la recherche analysés en termes de distance au marché
- 10 innovations faisant l'objet d'un business case
- 16 évènements par an en France et en Europe
- 4 e-séminaires thématiques
- Un site internet www.waterrtom.eu
- Une « e-foire aux innovations » www.waterrtom.eu/e-fair

Résultats

La base de données « e-fair » compte actuellement une cinquantaine d'innovation sur différents thèmes du domaine de l'eau. Quelques unes concernent les **économies et récupération d'énergie dans les installations de traitement des eaux.**
Ci-après sont présentés 2 projets innovants sélectionnés parmi une dizaine identifiés dans la base de projets européens LIFE+.

Projet 1 – Innovation : « Procédé de production d'oxygène et d'hydrogène à partir d'énergie renouvelable dans une station de traitement des eaux usées »

Le projet Greenlysis (LIFE08/E/000118, Janv 2010 -Dec 2012, impliquant l'Espagne-CETaqua, la France-CIRCEE, Saft batterie et France Tombak Solar) consiste à valider un processus de production d'oxygène et d'hydrogène gazeux à partir de l'eau traitée d'une station d'épuration.
L'électrolyse de l'eau traitée est réalisée à partir d'énergie renouvelable (solaire et éolienne). L'oxygène produit est utilisé dans le traitement biologique des eaux usées urbaines. L'hydrogène produit peut être utilisé comme combustible pour les véhicules, ou pour produire de l'énergie électrique.

Aspects innovants :
L'innovation consiste à l'échelle d'une station d'épuration à développer les deux procédés, et à valoriser l'eau de sortie (l'eau traitée) de la station d'épuration pour produire de l'oxygène et de l'hydrogène.
Ce procédé permet d'économiser de l'énergie (et de réduire ainsi l'utilisation d'énergie électrique) pour le traitement de l'eau en utilisant l'oxygène produit. C'est une réelle voie innovante pour les économies d'énergies par la production/utilisation en quasi-autonomie.

Etat d'avancement :
Tous les tests, bilans énergétiques, faisabilité etc. ont été réalisés sur un pilote installé dans la station d'épuration de Montornes (ES).

Distance au marché :
Les résultats produits sont prometteurs ; Cependant ils ne reflètent qu'une expérimentation sur un pilote. Une validation à l'échelle d'une station d'épuration serait à développer avant la mise sur le marché.

Risques :
Investissement éventuellement lourd car le marché de l'hydrogène n'est pas encore mature.
Le prétraitement de l'eau avant l'électrolyse est couteux (ultrafiltration et désinfection UV).

Etapes futures : Contacter l'équipe de recherche pour affiner les droits de propriété industrielle et les conditions de mise sur le marché).

Projet 2 – Innovation : « Atteindre une autosuffisance énergétique de 60% par la digestion de boues dans une station d'épuration et la récupération du phosphore »

OMZET (2011 – 2016, projet LIFE10/ENV/NL/000028) est un projet porté par les Hollandais dans un contexte juridique où les contraintes de rejets en phosphore sont fortes (0,2mg/l).
Le projet s'attache, à l'échelle d'une station d'épuration à expérimenter différents procédés technologiques afin d'atteindre l'équilibre énergétique : amélioration du traitement des boues par la désintégration des boues par ultrasons, digestion centralisée des boues primaires et secondaires et production de biogaz, transformation du phosphore dissous présents dans les eaux usées en phosphore minéral.

Aspects innovants :
Augmentation de la production de biogaz actuelle de 18% (60% attendus en fin de projet)
Augmentation de la déshydratation des boues de 25 à 30% par séchage de la boue avec la chaleur résiduelle récupérée sur la station
Traitement du phosphore combiné : voie biologique et transformation en phosphore minéral ; (80% de taux de récupération du phosphore attendu à la fin projet)
Réduction des coûts d'exploitation de 15%.

Etat d'avancement :
Le projet se termine en 2016. Une expérimentation à l'échelle d'une station d'épuration (300 000 EH) en Hollande dans le cadre du projet est en cours de réalisation.
Les résultats sont actuellement très prometteurs, et l'amélioration des procédés de traitement mis en œuvre devrait permettre d'atteindre un équilibre énergétique et une réduction du phosphore satisfaisants.

Distance au marché :
Le projet de recherche ne semble pas faire l'objet actuellement d'une démarche commerciale.
Un tel procédé est un sujet d'attention de plus en plus important aux Pays-Bas.

Risque :
Pas rentable sur de petites stations ; la taille de la station peut être un facteur limitant pour que l'innovation soit rentable (quantité de boues suffisantes pour alimenter le digesteur et produire du biogaz).
La complexification des traitements nécessite des compétences approfondies du personnel sur le traitement des eaux usées et des boues.

Etapes futures :
Suivre l'évolution des résultats et expérimentation, puis contacter l'équipe de recherche pour définir leur condition de commercialisation de leur process.

Autres projets, pré-sélectionnés mais non évalués par Water RtoM :

- Procédé de récupération de l'énergie dans les systèmes de déshydratation des boues par sécheur à huile et réacteur de pyrogazéification (LIFE08/ENV/F/000489),
- Satisfaction à 85% des besoins en énergie d'une station d'épuration avec le traitement des boues par séchage et gazéification (LIFE05/ENV/D/000026),
- Optimisation des besoins hydrique des sols par l'implantation de sondes de mesures dans le sol (établissement de modèle); les économies d'énergie sont des économies induites par le juste apport d'eau en irrigation strictement nécessaire (LIFE08/ENV/E/000114),
- Traitement de la boue de station d'épuration par air chaud pour produire des pellets utilisables dans les chaudières à biomasse (LIFE09/ENV/IT/000186),
- Analyse du cycle de l'eau en milieu urbain pour mesurer l'efficacité écologique de son traitement (production, distribution, collecte et traitement des eaux usées, énergie), (LIFE10/ENV/ES/000520),
- Faisabilité technique de la production d'énergie à partir de biogaz de stations d'épuration avec des piles à combustible (LIFE07/ENV/E/000847),
- Système de valorisation du biogaz pour alimenter une turbine à gaz associée à un système de production d'énergie selon le principe de Rankine (cogénération) (LIFE08/ENV/B/000040).

Quelques Références

Water RtoM : http://waterrtom.eu
LIFE+: http://ec.europa.eu/environment/life/project/Projects/index.cfm
Base de données de l'ONEMA
ANR: http://www.agence-nationale-recherche.fr/
Veille à partir de revues et évènements scientifiques (ES, PL principalement)
Autorité Nationale pour la recherché scientifique Roumaine http://www.ancs.ro/en/articol/980/despre-ancs-prezentare

Partenaires : 4 partenaires européens (FR, PL, ES, RO)

Partenaires associés : un comité d'experts est associé au projet avec pour mission d'apporter des conseils et valider les outils développés

Water Research to Market

LIFE09 ENV/FR0593 – date 01/09/2010 – 30/08/2013

n° Février 2013 Lettre d'information en français contact@waterrtom.eu

WATER RESEARCH TO MARKET

Pour accélérer le transfert des résultats de la recherche dans le domaine de l'eau vers les utilisateurs

Le projet LIFE09 ENV/FR/000593 (01/09/1°-31/08/2013), Water Research to Market, vise à accélérer le transfert des résultats de la recherche en ajoutant une étape complémentaire au schéma de transfert des innovations actuel entre les Chercheurs et les utilisateurs finaux (les praticiens, les collectivités, les services de l'eau etc…).

Le projet est porté par un consortium de 4 partenaires (OIEau, Fondation de l'eau de Gdansk, centre roumain de formation, Amphos21).

200 résultats de la Recherche ont été dors et déjà identifiés dans le domaine de l'eau au niveau Européen et national (France, Pologne, Roumanie, Espagne), et water rtoM a développé une stratégie de promotion via l'évaluation de quelques résultats des projets de recherche en termes de distance au marché, leur dissémination via une e-fair (la foire aux innovations) … lire plus

ACTUALITE

Colloque Aquatech 7 février 2013 – Limoges

« Bilan Carbone, Economies et Récupération d'énergie dans les installations de traitement des eaux »

L'Université de Limoges accueillera le 7 février 2013 le congrès organisé par le GRESE, équipe de recherche de l'Université de Limoges, en participations avec l'Aquatech (association des élèves et anciens élèves de la Filière Eau) sur le thème du « Bilan Carbone, Economies et Récupération d'énergie dans les installations de traitement des eaux »
La journée sera l'occasion de faire un point sur les méthodologies à appliquer, les premiers retours d'expériences ainsi que de mieux connaitre les attentes des collectivités.

Publics visés : services techniques des collectivités, administrations, élus, constructeurs d'ouvrages, chercheurs et universitaires travaillant dans le domaine de la potabilisation et l'assainissement

Water Research to Market participe à cet évènement afin de présenter sa stratégie, illustrée par un état des lieux (non exhaustif) sur les projets de recherche en cours dans le domaine des économies et récupération d'énergie dans les installations de traitement des eaux, et par la présentation de 2 innovations. Voir la communication complète

Notez dans vos agendas : E-séminaire « Economie et récupération d'énergie dans les stations de traitements des eaux », mercredi 3 avril 2013 de 09h à 10h30. Inscrivez vous

Water RtoM en chiffres

- Près de 200 projets référencés
- Près de 50 résultats de la recherche évalués en termes de distance au marché
- 10 innovations faisant l'objet d'un business case (évaluation fine des activités à mener pour le rendre opérationnel)
- Promotion lors d'évènements européens et nationaux
- des e-seminaires thématiques
- Un site internet www.waterrtom.eu

Une « foire aux innovations » via un e-fair www.waterrtom.eu/e-fair

LES INNOVATIONS dans le domaine des économies et récupération d'énergie

2011, le E-fair contient 25 innovations dans les différents domaine de la gestion de l'eau
2012, le E-fair contient 50 innovations…dont les plus récentes:

Le projet GREENLYSIS (LIFE08/E/00018) représente un projet très en amont de la filière d'utilisation de l'hydrogène en temps que combustible. Ce projet ambitieux a pour double objectif de produire de l'oxygène et de l'hydrogène à partir de l'électrolyse de l'eau de sortie d'une station d'épuration d'eaux usées. Ce projet a été validé à l'échelle d'un pilote sur une station d'épuration espagnole. L'analyse des résultats en matière de production et d'économie d'énergie montre qu'un équilibre de la consommation et de la production en local peut être atteint grâce aux énergies renouvelables et à la valorisation de l'hydrogène. Il faut cependant remarquer que l'électrolyse de l'eau de sortie de la STEP ne peut se faire sans un traitement préalable complémentaire (désinfection, ultrafiltration). Plus d'info

…/…

En 2013

- En 2013, le E-fair s'enrichit à 75 innovations.
- Water RtoM poursuit les rendez-vous électronique via des e-séminaires thématiques, en anglais. Pour s'inscrire http://www.waterrtom.eu/ rubrique e-seminairs

Le projet OMZET (LIFE10/ENV/NL/000028) vise à améliorer l'ensemble des étapes du traitement des eaux usées urbaines et des boues produites dans un objectif de réduction de la consommation d'énergie de la station dans son ensemble.
De nouveaux procédés de traitement ont été mis place et validés à l'échelle d'une station d'épuration hollandaise et la valorisation du phosphore minéral à partir du phosphore dissous dans les eaux brutes. Ce projet présente un bon niveau de maturité et de transfert rapide dans le domaine du traitement des eaux usées. Plus d'info

Le projet PYROBIO (LIFE08/ENV/F/000489) a pour ambition d'optimiser le traitement des boues de stations d'épuration urbaines par le séchage des boues avant leur pyro-gazéification et leur combustion pour produire de l'énergie électrique. Cette voie de valorisation semble aboutie et est expérimentée sur une station d'épuration. Cependant elle fait appel à des technologies complexes et à des contraintes liées à la variabilité de la qualité des boues traitées. Plus d'info

http://www.waterrtom.eu/efair_facility

LES ETAPES DE WATER RTOM

- Le projet a démarré en Sept 2010. La première année a permis de définir les outils pour « faire émerger » les innovations les plus prometteuses, établir une « méthode d'évaluation » des résultats de la recherche par rapport à leur distance au marché et la tester sur quelques produits de recherche.
- L'année 2012 est une année de test des outils et stratégies ; l'équipe de WaterRtoM a identifié près de 200 produits potentiellement intéressants. Une cinquantaine de résultats de la recherche ont fait l'objet d'une évaluation en termes de leur distance au marché ; cela signifie : identifier les étapes qu'il reste à développer pour le rendre utilisable par des gestionnaires de l'eau.
- Water RtoM a participé et organisé des évènements européens et nationaux (Green Week à Bruxelles, HYDROGAIA à Montpellier, SMAGUA à Saragosse, VODKAN en Pologne, POLLUTEC en novembre 2012, pour promouvoir des innovations ainsi que la plus-value d'un service WaterRtoM. Le prochain rendez-vous est à Aquatech, le 07.02.2013, à Limoges (France). D'autres évvènements ont mieu dans les pays partenaires.
- Les nouvelles technologies de l'information sont utilisés pour touchés un public varié, ciblé et à distance : e-séminaires thématiques, le e-fair (la foire électronique aux innovations)
- Plus...

Agenda 2013

- Fin du projet Water rtoM financé par LIFE, Aout 2013
- Préparation du business Plan de Water RtoM pour vérifier la faisablité d'un tel service
- Réalisation d'un guide de bonnes pratiques pour accélérer le transfert des résultats de la recherche
- E-séminaires
- s'enregistrer en ligne....

Les partenaires WaterRtoM

Avec le support des partenaires associés (comité d'experts)

Université de Limoges | GRESE Groupement de Recherche Eau Sol Environnement IFR 145 GEIST | AQUATECH-LIMOGES

Limoges, le jeudi 7 février 2013

Bilan carbone, économies et récupération d'énergie dans les installations de traitement des eaux

Outils et Retours d'Expériences

Avec la collaboration de :

Université de Limoges – Faculté des Sciences et Techniques | Pôle Environnement Limousin Synergie d'acteurs éco-engagés | FAURE Équipements | astee Section régionale Limousin - Poitou-Charentes | Région Limousin | Ville de Limoges

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Programme de la journée

8h30-9h00 : Accueil

9h00-9h20 : Ouverture de la journée de conférences

9h30-10h10 : Bilan Carbone : les outils

- ✓ Définition du « Bilan Carbone », *Antoine AUDEBERT*, MOVIGI
- ✓ Bilan Carbone, *Anne-Laure REVERDY*, IRSTEA

10h10-10h30 : Pause

10h30-11h30 : Bilan Carbone : les applications

- ✓ ACV usines Eau Potable : principaux résultats du projet EVALEAU & exemple d'application à une usine en région IDF, *Isabelle BAUDIN,* Suez Environnement.
- ✓ Détermination de l'empreinte carbone d'une usine de traitement des eaux usées. Cas de Boulogne sur Mer, *Marion FEUILLET,* Veolia
- ✓ Tecnoconverting : Le compromis carbone d'un équipementier, *Rafaël SOLANS*, Consultant

11h30-12h00 : Séance de questions sur les bilans carbone

12h00-14h00 : Pause déjeuner

14h00-15h20 : La méthanisation comme source d'énergie

- ✓ La Méthanisation, *Serge CHAMBON,* ODESSOL
- ✓ Digestion des boues de station d'épuration, *Thierry PICHARD*, IRH Environnement
- ✓ Bilan environnemental et énergétique d'une unité de méthanisation agricole *Quentin MONTEIL*, Terrebiogaz
- ✓ Questions

15h20-15h40 : Pause

15h40-16h40 : Economies et récupération d'énergie

- ✓ Optimisation de l'économie d'énergie d'installations de traitement de l'eau, *André LARIGAUDERIE,* SAUR
- ✓ Les eaux usées : une source de chaleur, *Aysseline DU MOULIN & Marc PERAUDAU,* Veolia
- ✓ Questions

16h40-17h10 : Relation recherche-industrie- marché

- ✓ Water Research to Market, de la recherche au marché, appliqué à la recherche sur les économies et récupération d'énergie dans les installations de traitement des eaux, *Natacha JACQUIN,* OIEau
- ✓ Questions

17h10-17h20 : Clôture de la journée

Water Research to Market, de la recherche au marché, appliqué à la recherche sur les économies et récupération d'énergie dans les installations de traitement des eaux

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Office International de l'Eau

Le projet européen Water Research to Market, financé dans le cadre du programme LIFE, vise à développer une stratégie pour accélérer le transfert des résultats de la recherche dans le domaine de l'eau vers les praticiens (les utilisateurs finaux).

A partir de l'identification de 200 résultats de la recherche dans le domaine de l'eau au niveau Européen et national (France, Pologne, Roumanie, Espagne), le projet a développé une stratégie de promotion via l'évaluation de quelques résultats en termes de distance au marché, leur dissémination via une e-fair (la foire aux innovations) et des évènements.

Dans le cadre de ce colloque, Water RtoM illustre sa stratégie avec 2 innovations identifiées dans le domaine des économies et récupération d'énergie dans les installations de traitement des eaux.

Mots-clefs : innovations, traitement de l'eau, transfert technologique, économie d'énergie, stratégie d'évaluation

Introduction :

La mise en œuvre des directives européennes sur l'eau (telle que la directive cadre sur l'eau et ses directives filles) ne permettra pas d'atteindre le bon état des eaux pour plus de 60% des masses d'eau en Europe d'ici 2015. Ce constat suppose de faire appel à de nouvelles technologies et de nouvelles connaissances pour faciliter l'atteinte des objectifs des directives. De nombreux résultats de la recherche existent mais le temps de transfert est de l'ordre d'une dizaine d'années. Water RtoM expérimente une stratégie de promotion des résultats de la recherche permettant d'accélérer le transfert des résultats innovants vers les praticiens (plus spécifiquement les organismes de bassin, les planificateurs, les

municipalités, les services des eaux et autres utilisateurs…) ainsi que vers leurs fournisseurs (de technologies, les consultants, les opérateurs).

Méthode

La stratégie développée par Water RtoM s'appuie sur une veille des résultats de la recherche dans le domaine de l'eau au niveau européen (via les projets financés par LIFE, INTERREG…) et au niveau national (France, Pologne, Roumanie, Espagne). A partir de l'identification de 200 projets de recherche, Water RtoM a pré-selectionné les projets qui semblent les plus près du marché.

Une évaluation plus poussée des innovations (outils, méthodes, traitements…) les plus prometteuses permet d'estimer leur potentiel d'utilisation par un utilisateur final, à un coût raisonnable, avec des risques acceptables. Cet outil d'analyse, développé dans le cadre du projet est le **ReMAS** (Research to MarketAssessmentStrategy – Stratégie d'évaluation de la distance au marché). Lorsque l'information est disponible, l'évaluation inclut les droits de propriété intellectuelle et industrielle.

Pour les innovations classées « prêtes à être mises en œuvre » ou autrement dit non loin de la phase de commercialisation, une analyse plus en profondeur est réalisée en lien étroit avec les équipes de recherche afin d'identifier les étapes suivantes et construire une « feuille de route » (appelée **business case**).

Water RtoM vise en parallèle à promouvoir les innovations « près du marché » auprès des utilisateurs potentiels (les gestionnaires de l'eau, les consultants, les développeurs d'innovations etc.), dans le cadre d' « un plan de **promotion** » basé sur une e-foire aux innovations (e-fair) accessible sur le site www.waterrtom.eu/e-fair (en anglais), lors de rencontres professionnelles, de colloques ou encore des rencontres virtuelles (e-séminaires).

Un **guide** à l'usage des utilisateurs finaux est en cours de préparation (disponible en mai 2013). A partir de la stratégie Water RtoM, des outils développés, il proposera des recommandations établies sur la base de l'expérience tirée de deux années de déroulement du projet et visant à rapprocher les utilisateurs et les chercheurs.

Résultats

La base de données « e-fair » compte actuellement une cinquantaine d'innovation sur différents thèmes du domaine de l'eau. Quelques-unes concernent les **économies et récupération d'énergie dans les installations de traitement des eaux.**

Ci-après sont présentés 2 projets innovants sélectionnés parmi une dizaine identifiés dans la base de projets européens LIFE+.

Water RtoM, en chiffres

- 200 projets référencés
- 50 résultats de la recherche analysés en termes de distance au marché
- 10 innovations faisant l'objet d'un business case
- 16 évènements par an en France et en Europe
- 4 e-séminaires thématiques
- Un site internet www.waterrtom.eu
- Une « e-foire aux innovations » www.waterrtom.eu/e-fair

Projet 1 – Innovation : « Procédé de production d'oxygène et d'hydrogène à partir d'énergie renouvelable dans une station de traitement des eaux usées »

Le projet Greenlysis (LIFE08/E/000118, Janv 2010 -Dec 2012, impliquant l'Espagne-CETaqua, la France-CIRCEE, Saft batterie et France TombakSolar) consiste à valider un processus de production d'oxygène et d'hydrogène gazeux à partir de l'eau traitée d'une station d'épuration.

L'électrolyse de l'eau traitée est réalisée à partir d'énergie renouvelable (solaire et éolienne). L'oxygène produit est utilisé dans le traitement biologique des eaux usées urbaines. L'hydrogène produit peut être utilisé comme combustible pour les véhicules, ou pour produire de l'énergie électrique.

Aspects innovants :

L'innovation consiste à l'échelle d'une station d'épuration à développer les deux procédés, et à valoriser l'eau de sortie (l'eau traitée) de la station d'épuration pour produire de l'oxygène et de l'hydrogène.

Ce procédé permet d'économiser de l'énergie (et de réduire ainsi l'utilisation d'énergie électrique) pour le traitement de l'eau en utilisant l'oxygène produit. C'est une réelle voie innovante pour les économies d'énergies par la production/utilisation en quasi-autonomie.

Etat d'avancement :

Tous les tests, bilans énergétiques, faisabilité etc. ont été réalisés sur un pilote installé dans la station d'épuration de Montornes (ES).

Distance au marché :

Les résultats produits sont prometteurs ; cependant ils ne reflètent qu'une expérimentation sur un pilote. Une validation à l'échelle d'une station d'épuration serait à développer avant la mise sur le marché.

Risques :

Investissement éventuellement lourd car le marché de l'hydrogène n'est pas encore mature.

Le prétraitement de l'eau avant l'électrolyse est couteux (ultrafiltration et désinfection UV).

Etapes futures :

Contacter l'équipe de recherche pour affiner les droits de propriété industrielle et les conditions de mise sur le marché).

Projet 2 – Innovation : « Atteindre une autosuffisance énergétique de 60% par la digestion de boues dans une station d'épuration et la récupération du phosphore »

OMZET (2011 – 2016, projet LIFE10/ENV/NL/000028) est un projet porté par les Hollandais dans un contexte juridique où les contraintes de rejets en phosphore sont fortes (0,2mg/l).

Le projet s'attache, à l'échelle d'une station d'épuration à expérimenter différents procédés technologiques afin d'atteindre l'équilibre énergétique : amélioration du traitement des boues par la désintégration des boues par ultrasons, digestion centralisée des boues primaires et secondaires et production de biogaz, transformation du phosphore dissous présents dans les eaux usées en phosphore minéral.

Aspects innovants :

Augmentation de la production de biogaz actuelle de 18% (60% attendus en fin de projet)

Augmentation de la déshydratation des boues de 25 à 30% par séchage de la boue avec la chaleur résiduelle récupérée sur la station

Traitement du phosphore combiné : voie biologique et transformation en phosphore minéral ; (80% de taux de récupération du phosphore attendu à la fin projet)

Réduction des coûts d'exploitation de 15%.

Etat d'avancement :

Le projet se termine en 2016. Une expérimentation à l'échelle d'une station d'épuration (300 000 EH) en Hollande dans le cadre du projet est en cours de réalisation.

Les résultats sont actuellement très prometteurs, et l'amélioration des procédés de traitement mis en œuvre devrait permettre d'atteindre un équilibre énergétique et une réduction du phosphore satisfaisants.

Distance au marché :

Le projet de recherche ne semble pas faire l'objet actuellement d'une démarche commerciale.
Un tel procédé est un sujet d'attention de plus en plus important aux Pays-Bas.

Risque :

Pas rentable sur de petites stations ; la taille de la station peut être un facteur limitant pour que l'innovation soit rentable (quantité de boues suffisantes pour alimenter le digesteur et produire du biogaz).

La complexification des traitements nécessite des compétences approfondies du personnel sur le traitement des eaux usées et des boues.

Etapes futures :

Suivre l'évolution des résultats et expérimentation, puis contacter l'équipe de recherche pour définir leur condition de commercialisation de leur process.

Autres projets pré-sélectionnés mais non évalués par Water RtoM :

- Procédé de récupération de l'énergie dans les systèmes de déshydratation des boues par sécheur à huile et réacteur de pyrogazéification (LIFE08/ENV/F/000489),
- Satisfaction à 85% des besoins en énergie d'une station d'épuration avec le traitement des boues par séchage et gazéification (LIFE05/ENV/D/000026),
- Optimisation des besoins hydrique des sols par l'implantation de sondes de mesures dans le sol (établissement de modèle); les économies d'énergie sont des économies induites par le juste apport d'eau en irrigation strictement nécessaire (LIFE08/ENV/E/000114),

- Traitement de la boue de station d'épuration par air chaud pour produire des pellets utilisables dans les chaudières à biomasse (LIFE09/ENV/IT/000186),
- Analyse du cycle de l'eau en milieu urbain pour mesurer l'efficacité écologique de son traitement (production, distribution, collecte et traitement des eaux usées, énergie), (LIFE10/ENV/ES/000520),
- Faisabilité technique de la production d'énergie à partir de biogaz de stations d'épuration avec des piles à combustible (LIFE07/ENV/E/000847),
- Système de valorisation du biogaz pour alimenter une turbine à gaz associée à un système de production d'énergie selon le principe de Rankine (cogénération) (LIFE08/ENV/B/000040).

Quelques Références

Water RtoM : http://waterrtom.eu

LIFE+:http://ec.europa.eu/environment/life/project/Projects/index.cfm

Base de données de l'ONEMA

ANR: http://www.agence-nationale-recherche.fr/

Veille à partir de revues et évènements scientifiques (ES, PL principalement)

Autorité Nationale pour la recherche scientifique Roumaine

http://www.ancs.ro/en/articol/980/despre-ancs-prezentare

Partenaires : 4 partenaires européens (FR, PL, ES, RO)

Partenaires associés : un comité d'experts est associé au projet avec pour mission d'apporter des conseils et valider les outils développés

Analyse sur le déroulement de la journée

Réponses aux questionnaires de satisfaction

Tableau 1: Pourcentages de satisfactions des participants à la journée de conférences

	Très satisfait	Satisfait	Peu satisfait	Pas du tout
Accueil	81%	8%	4%	8%
Organisation	65%	19%	8%	8%
Repas	71%	17%	4%	8%
Qualité des présentations	42%	39%	12%	8%

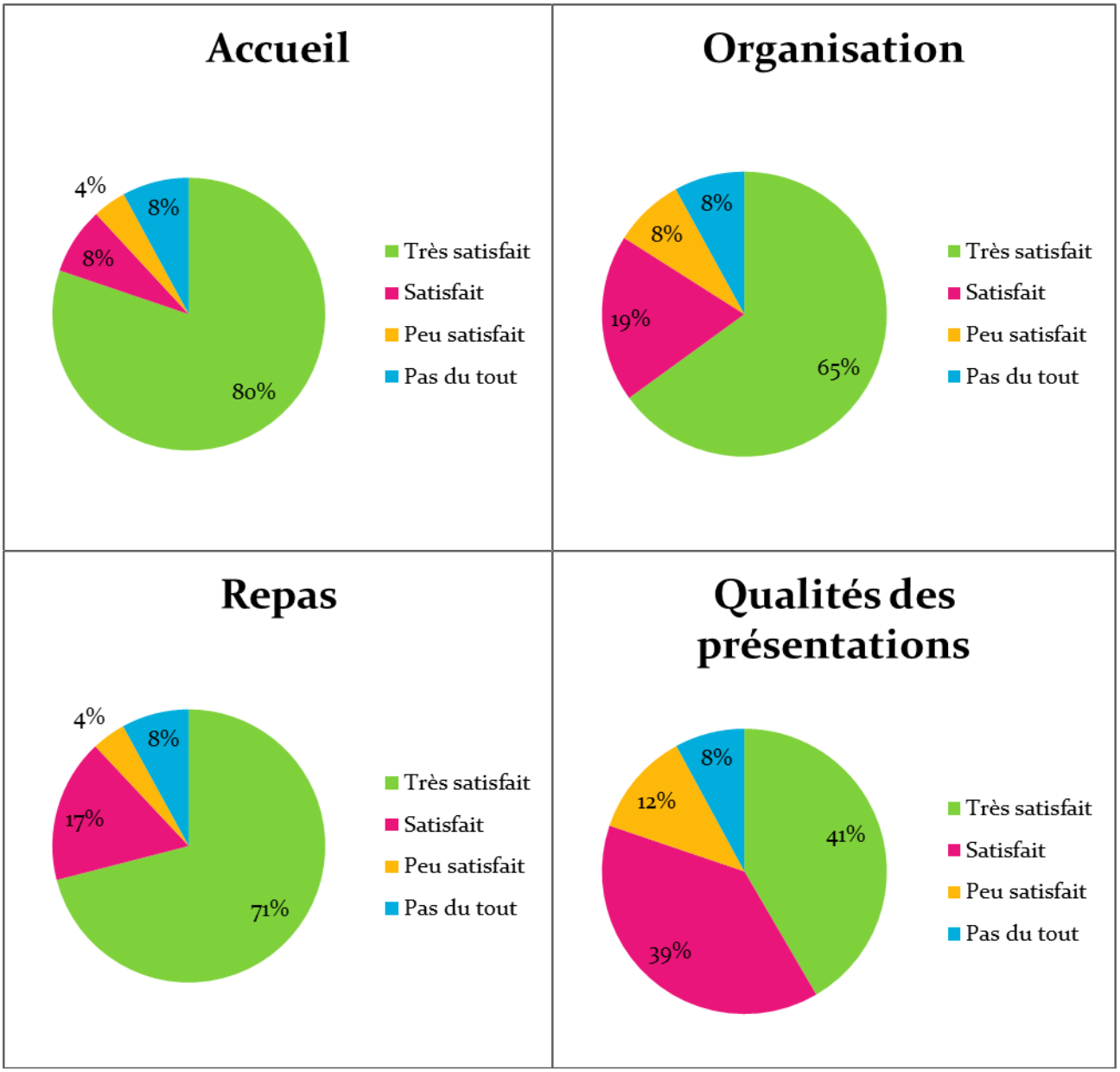

Figure 1: Diagrammes représentants la satisfaction des participants à la journée de conférences

Pour la grande majorité des participants interrogés, la journée s'est bien déroulée puisque plus de 80% ont apprécié l'accueil, l'organisation et les conférences. Certaines personnes soulignent qu'il y avait une vision très « industrielle » et du secteur privé dans les conférences. Elles auraient aimé avoir l'intervention de collectivités pour avoir une autre vision du bilan carbone. Les participants ont jugé cette journée intéressante, les thèmes abordés sont dans l'air du temps, en phase avec le marché. De plus, ce type de manifestation facilite les échanges et est l'occasion pour les anciens étudiants de l'Université de Limoges de se retrouver.

ANNEXES

Annexe 1 : Liste des conférenciers

	Nom	Société	Mail
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Annexe 2 : Liste des participants

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" Water research output supporting the implementation of public health request"

Romania (Bucharest, 12 March 2013)

Dissemination: National Seminar	Type communication action: presentation and discussion

1. Objective of the seminar:

- Promoting the transferable results of research projects selected by the Water Research to Market services to the water supply services and

By presenting and discussing thematic of water research output supporting the implementation of public health request and a number of 6 projects selected in Water Research to Market Project, dedicated to the target group.

- Promoting Water Research to Market as a service.

The dissemination of 6 Profile Outputs of Water Research to Market Project.
To disseminate the idea of « Water RtoM, as a new service, from the Research to the Market".

- Facilitate the development environment of cooperation

Proposing a common theme for operators of water supply, research teams and representatives of public health authority

2. Context

Water RtoM defined a communication plan (PMS) for all the duration of the project (sept 2010- aug. 2013) :

CFPPDA has planned some specific events in Romania, in order to take advantage of the reached attendance.

4 national events, in Romania, CFPPDA will organise :

- 1) "Transferring water research outcomes in practice" (Bucharest) - 27 March 2012,

- 2) " Water research output supporting the implementation of public health request" (Bucharest) – 12 March 2013

- 3) "Evaluating opportunities for research results transfer in future investment projects for regional operators" (Iași) - 15 March 2013

- 4) "Innovative solutions available for improuving water losses activities" (Bucharest) - 9 June 2013

1 European events and one scheduled broker sesione organised by CFPPDA during :

- 1) EXPOAPA 2012 (Bucharest) 11-13 June 2012
Each partner has the same item in their own country.

3. Targets of the water RtoM seminar:

The target group was formed by regional water and wastewater operators, representatives of Public Health Authority , universities, representative of the Romanian Association Water management (LC

Member)

During the event agenda, attended by 52 people. List of participants is attached in Annex 1.

4. Our expectations

- Debate about the relevance of the innovations selected by Water RtoM and their potentiality to be used by the participants or potential users, and how they can be further promoted or improved to be up taken.

- To identify other interesting innovations pointed out by the audience.

- Identify the solutions to fill the gaps on the addressed outputs (what are the missing developments, what are the barriers to implementation, what improvements to make ...),
- Encourage the partnerships between the participants to use the presented innovations (and/or to make further development).

5. Message to deliver

Water RtoM is a LIFE demonstrative project with the ambition to develop a service to facilitate the transfer between the researchers and the end-users (water providers, stakeholders).
After the end of a research project more work in transferring the knowledge must be undertaken, and the output must be package in something more tangible and a product or a service.
In order to develop a useful service, Water RtoM needs to test its tools with the targets (private and public companies).

6. Date, agenda and place

Date : 12 March 2013
Duration of the seminar: 1 day
Language: Romanian
Entry fee : free
Draft agenda:
The day will be composed of two parts and provided a brief overview of each project and presenting the thems relating at the implementation of public health request, followed by a discussion focused on the results/them presented moderated from a personality of the water sector in Romania:

Session I:	**Moderator PhD. Vasile CIOMOȘ - President of Romanian Water Association**
09^{00} - 09^{30}	Welcome
09^{30} - 09^{50}	Project "Water Research to Market" Presentation - Foundation CFPPDA
09^{50} - 10^{10}	LEGAL FRAMEWORK EVOLUTION FOR MONITORING HEALTH REGULATORY PROCEDURES FOR THE WATER SUPPLY SYSTEMS, **Arges county Public Health Authority**
10^{10} - 10^{30}	NEW REGULATORY REGUIREMENTS FOR MONITORING DRINKING WATER QUALITY PROVIDED TO CONSUMERS, ECOLOGICAL UNIVERSITY BUCHAREST
10^{30} - 11^{00}	Coffee Break
11^{00} - 11^{30}	SPECIFIC LEGISLATIVE ISSUES RELEVANT IN THE FIELD OF DRINKING WATER, MINISTRY OF HEALTH OF ROMANIA
11^{30} - 12^{00}	APIFLOT - THEORETICAL AND EXPERIMENTAL RESEARCHES IN ORDER TO DESIGN AN ADVANCED TREATMENT TECHNOLOGY (FLOTATION) FOR HEAVILY LOADED WASTEWATERS S.C. DFR Systems S.R.L.

12^{00} - 13^{30}	Lunch Break
Session III:	**Moderator: PhD. Mihaela VASILESCU- Associate professor at Ecological University Bucharest**
13^{30} - 13^{50}	FENPEST - **PROMOTING GREEN TECHNOLOGIES BASED ON PHOTO-INDUCED OXIDATION PRESSES IN WATER TREATMENT CONTAINING PESTICIDES** NATIONAL RESEARCH AND DEVELOPMENT INSTITUTE FOR INDUSTRIAL ECOLOGY - INCD ECOIND
13^{50} - 14^{10}	**MONITORING OF DRINKING WATER QUALITY IN THE OPERATING AREA OF A REGIONAL WATER SUPPLY OF S.C. RAJA S.A. CONSTANTA COUNTY,** S.C. RAJA S.A. CONSTANTA - REGIONAL WATER SUPPLY
14^{10} - 14^{30}	HIBROX - **BIOTECHNOLOGY HYBRID PROCESS FOR WASTEWATER TREATMENT WITH HIGH LEVEL OF AMMONIUM** NATIONAL RESEARCH AND DEVELOPMENT INSTITUTE FOR INDUSTRIAL ECOLOGY - INCD ECOIND
14^{30} - 15^{00}	Conclusions / Closing

7. Means and resources

Documents to prepare:

a) WaterRtoM: leaflet/brochure, roll up, Registration form for participation in the seminar (collection the contact details), List of participants and contact details - Annex 1, Event agenda.

b) 6 projects: factsheet, powerpoint for demonstration/presentation

Presented innovations: 6 research outputs. Their acronyms are: APIFLOT, HIBROX, FENPEST
Also 3 research results selected by Water RtoM consortium in the project were promoted. Their acronyms are: AQUATHM, BIOENZINIT, NPPT.

Logistical means:

- Laptop equipped to allow viewing demonstration/presentation.
- Photo camera

8. Agenda & planning

- January: Identify and discuss with LC and specialists ARA the topic, target group and the guests,
- February: Inviting research teams and public health authority to join the national seminar on 12 March 2013 (send invitations),
- Early March: receiving confirmation of participation of research teams and public health authority , sending invitations to practitioners and public health authority ,
- until 10 March: receiving confirmation of participation and organizational activities,
- Deployment of the seminar.

9. Budget (€)

- renting the conference room

- coffee break
- lunch

10. Indicators to evaluate the event

Number of participants: 52 persons (Anexa 1)
Number of distributed leaflets: 52
Number of distributed factsheets: 6 projects X 52 persons
Number of promoted results: 6

11. Potential risks

- Not to have enough interesting/ transferable projects/innovations.
  - 15 projects were invited to participate and 3 projects answered.
- Limited interest of research institutions to accelerate the transfer of research results.
  - promotion / awareness on the research teams of the possible future benefits in case of a successful transfer
- Highly technical presentation of research results to the detriment of their marketing presentation.
  - providing a model / template for achieving media *. ppt to research teams.
- Divergent points of view about approach to legislative of drinking water topics
  - provide a common framework of discussion for operators of water supply, research teams and representatives of public health authority .

12. Feedback and lessons learnt

- Formalizing the institutional / create a platform where implementers to express the problems they face (formulation requirement) and to facilitate the development environment of cooperation.
- Insufficient development of national legal framework and specialist departments from the research institutions facilitating the transfer results to market.
- Willingness to invest to services such Water RtoM by organizations from the private sector.

Annexes:

Annex 1 - List of participants - contact details

Annex 2 - 6 project sheets

Annex 3 - Photos

Annex 3 - Photos


Water Research
to Market


Water Research
to Market
Water
Training
Center


Water Research to Market
Water Training Center

LIFE09 ENV/FR0593

Ministerul SĂNĂTĂȚII

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DFR Systems

Water RtoM

CERCETĂRI TEORETICE ŞI EXPERIMENTALE PENTRU CONCEPEREA UNEI TEHNOLOGII DE EPURARE AVANSATĂ (PRIN FLOTAŢIE) A APELOR PUTERNIC ÎNCĂRCATE

REZUMATUL PROIECTULUI	Obiectivul principal al proiectului a fost conceperea şi proiectarea unei instalaţii de epurare performantă, foarte compactă, care poate rezolva problema apelor uzate puternic încărcate prin aplicarea flotaţiei artificiale cu aer dizolvat. S-a dorit ajungerea la parametrii de descărcare aflaţi sub limita prevăzută de normele în vigoare (NTPA 001), în încercarea de a păstra un mediu cât mai curat. Obiectivele specifice ale proiectului au fost: - studiul literaturii de specialitate pentru evaluarea situaţiei actuale şi a ultimelor realizări din domeniu; - concepţia instalaţiei de flotaţie care să poată fi transportată pe trailer; - proiectarea treptei de flotaţie; - realizarea unui model experimental de laborator pe care să fie efectuate teste complexe şi care să certifice tehnologia propusă; - realizarea de teste experimentale pe apa uzată.
DESCRIERE PRODUS / REZULTATE	Instalaţia de flotaţie se compune din două echipamente distincte: capsula de presurizare şi decantorul lamelar. Capsula de presurizare constă într-o incintă de formă cilindrică prevăzută la capete cu 2 capace. În interiorul capsulei se introduce apă şi aer sub presiune. Circuitul de apă este situat la partea superioară a instalaţiei şi alimentarea cu apă se realizează cu ajutorul unor sprinklere. În acest fel, apa introdusă este dispersată sub formă de picături fine şi nu de jet. Sistemul de alimentare cu aer este situat la partea inferioară a capsulei. Pentru a obţine un timp de contact cât mai îndelungat între bulele de aer introduse prin sistemul de conducte circulare şi masa de apă s-a găsit soluţia de a introduce în masa de apă elemente mobile din plastic. Instalaţia de decantare este realizată din 2 compartimente funcţionale dispuse în serie: un decantor lamelar şi o cameră tehnică. În decantoarele lamelare uzuale plăcile de decantare se pot colmata. Pentru a înlătura acest neajuns s-a prevăzut alipirea la un sistem de flotaţie cu presurizare. Amestecul bifazic aer-apă intră în decantor prin sistemul de transport format din conducte şi 3 pâlnii. Pâlniile reprezintă difuzoarele (zona de destindere a fluidului comprimat). În acest mod amestecul bule de aer - apă nu „spală" radierul decantorului. Bulele de aer se ridică la suprafaţa liberă şi se alipesc la suspensiile solide „uşoare" pe care le conduc la suprafaţă, de unde sunt direcţionate către skimmer şi evacuate din sistem.
PROIECTUL TRATEAZĂ TEMATICA APEI	Instalaţia de flotaţie concepută în cadrul proiectului de cercetare reprezintă o treaptă din cadrul fluxului tehnologic de epurare a apelor uzate puternic încărcate.
TIPUL REZULTATELOR	În urma introducerii treptei de flotaţie în cadrul unei staţii de epurare a apelor uzate se îmbunătăţesc semnificativ valorile parametrilor de calitate ai apei evacuate. Concomitent se reduc dimensiunile unor bazine utilizate în epurare si este posibilă eliminarea/reducerea cantităţilor de bio-preparate şi substanţe chimice.

ADAPTAREA LA NEVOILE PIEŢEI	Conform unor studii recente 51,44% din totalul populaţiei României nu este racordată la o reţea de canalizate. A fost realizată o clasificare la nivel de judeţe. Astfel, pe primul loc se află populaţia din judeţul Cluj unde 89,9% dintre clujeni sunt deserviţi de sistemul public de canalizare. A doua poziţie este ocupată de Bucureşti cu 89%. Pe ultimele locuri se află Giurgiu (27,50%), Suceava (25,90%), Teleorman (24,80%) şi Ilfov (19,5%), lucru aproape normal dat fiind ritmul asiduu de construcţii din ultimii ani din această zonă.
ASPECTE ŞI AVANTAJE INOVATIVE	Aspectele şi avantajele inovative ale instalaţiei de flotaţie sunt: - procedeul conferă o eficienţă sporită datorită elementelor mobile din interiorul capsulei care „şicanează" traseul bulelor de aer către suprafaţă; - datorită utilizării sprinklerelor apa este pulverizată în picături foarte fine şi este dispersată în interiorul capsulei, creându-se în acest fel o mare suprafaţă de contact aer-apă; - conduce la o suprafaţă minimă pentru instalaţia de decantare; - instalare rapidă şi facilă, chiar şi în decantoare existente; - procedeul conferă o eficienţă sporită de epurare fără a utiliza vreun biopreparat sau materiale consumabile care să intensifice procesele de degradare biologice - procedeu complet ecologic; - construcţie modulară; - decantorul lamelar nu se colmatează datorită formării bulelor de aer în masa de apă uzată care „curăţă" plăcile prin mişcarea lor ascensională.
STADIUL DE DEZVOLTARE	Instalaţie de laborator.
TRANSFERABILITATEA	Instalaţia a fost testată la scară de laborator, dar în funcţie de cerinţele potenţialilor beneficiari, echipamentul poate fi proiectat la o scară mai mare.
STRATEGIE DE DISEMINARE	Diseminarea rezultatelor proiectului de cercetare are loc în mai multe feluri, pentru a reuşi o cât mai bună: - participare la Conferinţe şi simpozioane naţionale/internaţionale din domeniul protecţiei mediului; - participarea la târguri şi expoziţii legate de protecţia mediului şi inventică; - elaborate de articole care sunt publicate în reviste de specialitate; - elaborarea de prezentări la sediul potenţialilor beneficiari; - prin pagina proprie de internet: www.dfr.ro
DREPTURI DE PROPRIETATE INTELECTUALĂ	SC DFR Systems SRL are depuse 2 cereri de brevet: - Capsulă de presurizare pentru instalaţie de flotaţie, Cerere nr. A 00074/30.01.2011; - Decantor final aferent unei instalaţii de flotaţie cu presurizare, Cerere nr. A 00073/30.01.2011.
CLIENŢI ANTICIPAŢI	Ca şi beneficiari direcţi ai instalaţiei de flotaţie se pot identifica: - agenţii economici din industria alimentară (abatoare, producători de mezeluri sau lactate, producători de alcool etc.); - agenţii economici din industria farmaceutică; - agenţii economici din industria textilă;

	- cei care deţin gropi de gunoi ecologice care produc levigat; - autorităţile locale (primăriile) aferente comunităţilor mici. De asemenea, există şi posibilitatea încheierii unor noi contracte de cercetare care să se bazeze pe cercetările deja finalizate.
PAŞII URMĂTORI PENTRU A DEZVOLTA PRODUCŢIA PENTRU PIAŢĂ	Ca acţiuni viitoare de cercetare se poate preciza doar realizarea de teste suplimentare pentru o instalaţie pilot de flotaţie în cadrul unei staţii de epurare a apelor uzate.
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAŢĂ (RISC ŞI SOLUŢII)	Proiectul finalizat reprezintă o necesitate stringentă a epocii actuale în care apele uzate industriale se caracterizează prin concentraţii ridicate de poluanţi cu o mare diversitate şi structură chimică de multe ori stabilă în timp. Cercetarea a fost necesară pentru conceperea unei instalaţii cât mai compacte care să satisfacă necesităţile agenţilor economici într-un spaţiu/volum cât mai redus. În prezent, datorită tehnologiilor de fabricaţie din ce în ce mai performante, agenţii economici industriali utilizează apa în cantităţi din ce în ce mai reduse. Astfel concentraţia de poluanţi din apa rezultată creşte semnificativ. Este cunoscut faptul că, astăzi, societăţile comerciale cu profil de producţie reduc continuu cantităţile de apă pe unitatea de produs şi, de cele mai multe ori, recirculă apa de mai multe ori în procesul de fabricaţie. Ca urmare ele deversează ape din ce în ce mai încărcate cu substanţe chimice de naturi diferite. În acest fel, staţiile de epurare trebuie să fie în permanent îmbunătăţite pentru a trata ape uzate cu încărcări din ce în ce mai mari. De asemenea, în cadrul agenţilor economici de tip industrial, terenul de care se dispune este valorificat la maxim, astfel încât pentru o staţie de epurare spaţiul disponibil este destul de redus. Ţinând cont de aceste restricţii (teren redus pentru amplasarea staţiei de epurare şi ape uzate cu încărcări organice mari) a apărut necesitatea conceperii unei instalaţii de epurare monobloc inovative. După introducerea în producţie a instalaţiei de flotaţie nu vor exista riscuri referitoare la cererea pieţei. Din studiile existente şi datorită legislaţiei în vigoare aferentă protecţiei mediului înconjurător, aceste echipamente se consideră că vor fi căutate de către potenţialii clienţi.
DETALIILE COLABORĂRILOR	Cooperare tehnică, asistenţă, acord comercial, acord de producţie, acord de finanţare pentru lansarea în producţie a instalaţiei de flotaţie.
TIPURI DE PARTENERI CĂUTAŢI	IMM-uri / Firme; Organizaţii de cercetare; Administraţii publice locale; Operatori de servicii / Regii de apă; etc.
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	Se caută parteneri de cercetare care să cunoască domeniul epurării apelor uzate, iar pentru comercializare produse se caută companii din diferite ramuri ale industriei precum şi autorităţi publice locale.
SARCINILE CE TREBUIESC ÎNDEPLINITE DE PARTENERUL CĂUTAT	Potenţialii parteneri de cercetare trebuie să ne ofere sprijin în proiectarea şi testarea unei instalaţii pilot. Potenţialii beneficiari ai instalaţiei de flotaţie trebuie să ne ofere informaţii privind apa uzată pe care doresc să o epureze (debit de apă

	uzată, parametrii de calitate ai apei uzate precum şi terenul avut la dispoziţie pentru realizarea unei staţii de epurare).
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR / PRODUSELOR	Se remarcă absenţa riscului cu privire la aspectele de piaţă (realizarea unei instalaţii pilot nu este complicată, iar pentru lansarea ei in producţie nu sunt necesare echipamente scumpe).
RESURSE PENTRU URMĂTORII PAŞI	Proiectarea şi realizarea unei instalaţii pilot de flotaţie se pot efectua în aproximativ 3 luni. Pentru a obţine rezultate viabile referitoare la gradul de epurare/eficienţă al instalaţiei şi operare/mentenanţă sunt necesare încă 6 luni de experimentări şi analize.
CHELTUIELI PREVĂZUTE PENTRU URMĂTORII PAŞI	Costuri pentru testare: aprox. 12.000 lei Costuri instalaţie: variază în funcţie de parametrii apei uzate
DATE DE CONTACT ALE ECHIPEI DE PROIECT	Nume: Gabriel PETRESCU S.C. DFR SYSTEMS S.R.L. Adresă: Str. Drumul Taberei nr. 46, bl. OS 2, ap. 23, sector 6, Bucureşti Telefon/Fax: 021- 413.14.39; 021 - 413.40.91 E-mail: dfr@dfr.ro Pagina web: www.dfr.ro

FENPEST: tehnologii verzi/ecologice bazate pe fenomenul foto-indus pentru tratarea apei cu conținut de pesticide

DESCRIERE PRODUS/ REZULTATE	*Tehnologie de degradare avansată a pesticidelor prin aplicarea unui procedeu fotocatalitic de oxidare avansată, care utilizează lumina solară ca sursă de radiatii UV-VIS, asociat cu separarea recuperativă prin flotație a fierului, catalizator în procesul de degradare.*
PROIECTUL TRATEAZĂ TEMATICA APEI	*Apă de suprafaţă, apă subterană, tratarea apelor industriale uzate.*
TIPUL REZULTATELOR	*Tehnologie de tratare a apei*
ADAPTAREA LA NEVOILE PIEȚEI	*Conformarea calităţii efluentului tratat cu limitele severe impuse de legislaţia naţională şi europeană în ceea ce priveşte conţinutul de pesticide (<0,1µg/L).*
ASPECTE ȘI AVANTAJE INOVATIVE	*• Procedeu ecologic, modern care nu a fost abordat până în prezent în Romania;* *• Utilizează sursa naturală de radiații UV-VIS - lumina solară;* *• Eliminarea deşeurilor rezultate din procesul de tratare a apei prin separarea și valorificarea fotocatalizatorului.*
STADIUL DE DEZVOLTARE	*Testat la nivel de pilot.*
TRANSFERABILITATEA	*Aplicabil, după testarea pe pilot industrial, pe ape uzate cu conținut de pesticide și matrice specifică de poluare*
STRATEGIE DE DISEMINARE	*Rezultatele au fost promovate în cadrul unor manifestări ştiinţifice naţionale şi internaţionale.*
DREPTURI DE PROPRIETATE INTELECTUALĂ	*Rezultatele originale obținute sunt proprietatea partenerilor din proiect, care au participat la elaborarea tehnologiei integrate propuse.*
CLIENȚI ANTICIPAȚI	*Agenți economici și IMM-uri care au ca obiect de activitate sinteza/condiționarea pesticidelor; Unități ale administrației locale și centrale, agenții de protecție a mediului și operatori de apa; Unități de cercetare - dezvoltare cu preocupări în domeniul protecției mediului.*
PAȘII URMĂTORI PENTRU A DEZVOLTA PRODUCȚIA PENTRU PIAȚĂ	*Studii de fezabilitate* *Implicarea specialiştilor ce au competenţe pentru implementarea produsului - reţele/grupuri de specialitate* *Organizare cursurilor pentru viitorii utilizatori ai tehnologiei* *Realizare instalație, testare la scară industrială* *Activități de publicitate pentru tehnologie*
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAŢĂ (RISC ȘI SOLUȚII)	*Aplicarea metodelor clasice de tratare a apei nu asigură degradarea avansată a pesticidelor. Tehnologia propusă, care se caracterizează prin performanţe superioare de tratare, asigură reducerea costurile de operare prin:* • *utilizarea luminii solare ca sursă de radiaţii în faza de oxidare avansată, ceea ce duce la reducerea semnificativă a consumului de energie;*

	• *valorificarea solutiei de $FeCl_3$, (produs secundar) fie drept fotocatalizator în procesul de tratare sau ca agent coagulant în tratarea altor ape reziduale.*
DETALIILE COLABORARILOR	*Acord comercial.*
TIPURI DE PARTENERI CĂUTAȚI	• *IMM-uri din domeniul sintezei/conditionarii pesticidelor;* • *Unități ale administrației locale și centrale,* • *Agenții de protecția mediului și operatori de apă,* • *Unități de cercetare - dezvoltare cu preocupări în domeniul protectiei mediului.*
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	*Parteneri cu preocupări în tratarea/depoluarea apelor.*
SARCINILE CE TREBUIESC ÎNDEPLINITE DE PARTENERUL CĂUTAT	*Implementarea tehnologiei la scară pilot industrială.*
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	*Este necesară stabilirea condițiilor optime de degradare avansate a pesticidelor în context real de impurificare, pe instalație pilot, cu funcționare continuă (cateva luni) înainte de aplicarea la scară industrială*
RESURSE PENTRU URMĂTORII PAȘI	*Persoane calificate (experți), Resurse financiare (proiectare instalaţii industriale, achizitionare echipamente).*
CHELTUIELI PREVĂZUTE PENTRU URMĂTORII PAȘI	*Costuri salariale personal implicat în punerea în aplicare a tehnologiei* *Instruire pentru potenţialii utilizatori ai tehnologiei* *Costurile de punere în functiune a instalației tehnologice.*
DATE DE CONTACT ALE ECHIPEI DE PROIECT	***Nume**: dr. ing. INES NITOI, INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU ECOLOGIE INDUSTRIALA - ECOIND BUCURESTI* ***Adresa**: Str. Drumul Podu Dambovitei nr 71-73, Sector 6, cod: 060652, Bucuresti* ***Telefon**: 04.021/410.67.16* ***Fax**: 04 021 412 00 42 / 04 021 410 05 75* ***Email**: tehnologi@incdecoind.ro* ***Website**: http://www.incdecoind.ro/proiectele-noastre/proiecte-nationale/planul-national-de-cercetare-%e2%80%93-dezvoltare-inovare/fenpest.html*

Procedeu biotehnologic hibrid pentru epurarea apelor uzate cu conținut ridicat de amoniu

REZUMATUL PROIECTULUI

Au fost construite modele experimentale pentru realizarea experimentelor de tratare a fluxurilor de ape reziduale cu continul ridicat de amoniu, cum ar fi cele de la deshidratarea namolurilor orasenesti fermentate anaerob (model experimental pentru nitritificare partiala- SHARON, model experimental pentru oxidarea anaeroba a amoniului-ANAMMOX).
Experimentele au fost realizate pe ape provenind de la instalatiile de deshidratare namoluri ale Statiilor de epurare Pitesti si Focsani.
Utilizand aceste modele experimentale, au fost realizate experimente de oxidare biologica aeroba partiala a amoniului la azotit, cu si fara control automat al pH-ului, si experimente de oxidare biologica anaeroba a amoniului la diferiti timpi de retentie si incarcari specifice si in domeniile recomandate de temperatura, pH si oxigen dizolvat.
A fost conceput şi elaborat un model matematic al cineticii procesului SHARON considerând două substraturi: amoniul şi nitritul şi două tipuri de microorganisme care coexistă în reactor, microorganismele care oxidează amoniul, de tip Nitrosomonas, şi microorganismele care oxidează nitritul, de tip Nitrobacter. Rezultatele teoretice au fost comparate cu cele experimentale, rezultând o bună corelare a acestora.
Probele de namol biologic au fost analizate in scopul detectarii diferitelor tipuri de microorganisme prin amplificarea PCR a genei biomerker 16S-rRNA in cazul bacteriilor ANAMMOX (ex: Brocadia, Kuenenia si Scalindua) din probele anaerobe, si a unor bacterii apartinand genurilor Nitrobacter si Nitrosomonas. Rezultatele au indicat prezenta speciilor bacteriene de interes in cazul probelor.

DESCRIERE PRODUS/ REZULTATE

Tehnologia propusa are la baza procedeul de deamonificare in care, intr-o prima treapta sunt obtinute prin nitritificare partiala cantitati aproximativ egale de $N\text{-}NH_4^+$ si $N\text{-}NO_2^-$, iar in treapta a doua acestea se transforma in azot gazos printr-o reactie de oxidare anaeroba a amoniului. Nitritificarea partiala este realizata intr-un bioreactor cu ajutorul bacteriilor *Nitrosomonas sp*. iar oxidarea anaeroba a amoniului este realizata intr-un al doilea bioreactor cu ajutorul bacteriilor Anammox prin reactiile:

1. Nitritificare:
   $2{,}34\ NH_4^+ + 1{,}85\ O_2 + 2{,}66\ HCO_3^- \rightarrow 0{,}024\ C_5H_7NO_{2(Nitrosomonas)} + NH_4^+ + 1{,}32\ NO_2^- + 2{,}54\ CO_2 + 3{,}94\ H_2O$

2. Anammox:
   $NH_4^+ + 1{,}32\ NO_2^- + 0{,}066\ CO_2 + 0{,}066\ H^+ \rightarrow 0{,}066\ CH_2O_{0,5}N_{0,15\ (ANAMMOX)} + 1{,}02\ N_2 + 0{,}26\ NO_3^- + 1{,}96\ H_2O$

	Pe modelul experimental, randamentele de transformare atinse au fost: • $N\text{-}NH_4^+ \rightarrow N\text{-}NO_2^-$: 50 – 64 %, in conditiile unei concentratii in influent $N\text{-}NH_4^+$=105– 347 mg/L. • Ninfl. $\rightarrow N_2$: 30 – 89%, in conditiile unor concentratii in influent: $N\text{-}NH_4^+$= 7.7– 90 mg/L, $N\text{-}NO_2^-$= 4.7– 92 mg/L.
PROIECTUL TRATEAZĂ TEMATICA APEI	*Obiectul proiectului constituie tratarea fluxurilor de apa reziduala cu continut ridicat de amoniu si cu incarcare organica mica (fluxuri de la instalatii de deshidratare namol fermentat anaerob din cadrul statiilor de epurare municipal sau fluxuri de ape uzate industrial).*
TIPUL REZULTATELOR	*Tehnologie*
ADAPTAREA LA NEVOILE PIEȚEI	*Obligatii de epurare avansata (indepartare nutrienti cu effect eutrofizant) derivate din HG 352/2005 si Directiva 98/15/EC avand ca principal obiectiv protectia mediului impotriva efectelor adverse cauzate de descarcarile de ape reziduale urbane si anumite ape reziduale industriale*
ASPECTE ȘI AVANTAJE INOVATIVE	*Caracterul inovativ al tehnologiei consta in indepartarea amoniului din fluxurile de ape concentrate in amoniu provenite de la instalatiile de deshidratare namol fermentat anaerob ale statiilor de epurare municipale, al caror aport la incarcarea cu azot a influentilor acestora este estimat la 10-20% din total, utilizand calea nitrit ($NH_4^+ \rightarrow NH_4^+ + NO_2^- \rightarrow N_2$) care permite economisirea a aproape 60% din consumul de oxigen si aproape 100% din consumul cu sursa de carbon si produce o cantitate de namol mai mica cu 40% comparativ cu procedeul clasic de nitrificare-denitrificare ($NH_4^+ \rightarrow NO_2^- \rightarrow NO_3^- \rightarrow N_2$) aplicat in prezent in Romania.*
STADIUL DE DEZVOLTARE	*Pilot la scară mică (model experimental)*
TRANSFERABILITATEA	*Pe baza rezultatelor obtinute pe model experimental, pentru a putea fi transferata, tehnologia trebuie sa parcurga si faza de pilot industrial.*
STRATEGIE DE DISEMINARE	*Strategia de diseminare in cadrul proiectului si post-proiect a inclus:* - *promovare pe site-ul www.incdecoind.ro;* - *organizare workshop;* - *comunicari stintifice;*
DREPTURI DE PROPRIETATE INTELECTUALĂ	*Rezultatele obtinute in proiect pot fi puse la dispozitia utilizatorilor interesati de a promova faza de pilot industrial.*
CLIENȚI ANTICIPAȚI	*Operatorii apa-canal, operatori industriali care genereaza ape uzate cu incarcare ridicata de amoniu (sute de mg/L) si incarcare organic mica.*

PAȘII URMĂTORI PENTRU A DEZVOLTA PRODUCȚIA PENTRU PIAȚĂ	*Parcurgerea fazei de pilot industrial*
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAȚĂ (RISC SI SOLUTII)	*Tehnologia este utila pentru upgradarea statiilor de epurare care au probleme cu indepartarea compusilor cu azot sau cu capacitate insuficienta a sistemului de aerare prin scaderea incarcarii in azot amoniacal a influentului treptei biologice.*
DETALIILE COLABORĂRILOR	*Cooperare, asistenţă tehnica si acord de finanţare faza pilot industrial*
TIPURI DE PARTENERI CĂUTAȚI	*Operatori de servicii – apa canal sau operatori industriali (producatori de ingrasaminte, explozibili, ferme zootehnice)*
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	*Servicii (apa canal) si productie*
SARCINILE CE TREBUIESC ÎNDEPLINITE DE PARTENERUL CĂUTAT	*Finantare faza pilot industrial.*
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	*Riscurile vizeaza urmatoarele aspecte si fac necesara parcurgerea fazei pilot:* - *durata mare de amorsare (~6 luni) a fazei de oxidare anaeroba a amoniului (viteza mica de crestere a bacteriilor specific Anammox);* - *sensibilitatea ridicata a bacteriilor la anumiti parametri de proces (conc. oxigen dizolvat, conc. amoniu influent, conc. azotit influent, temperatura) care necesita un control riguros, automatizare performanta*
RESURSE PENTRU URMĂTORII PAȘI	*Materiale: pilot faza industriala, si aparatura de analiza specifica* *Expertiza: monitorizare proces, dezvoltare proiect instalatie industriala si evaluare economica*
DATE DE CONTACT ALE ECHIPEI DE PROIECT	*Ion Viorel Patroescu; Costel Bumbac* *INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU ECOLOGIE INDUSTRIALA - ECOIND BUCURESTI* *Str. Podul Dambovitei, nr.71-73, sector 6, Bucuresti,* *tel:0214100377, int.244, 126; fax:0214100575* *tehnologi@incdecoind.ro* *www.incdecoind.ro*

PROGRAM COMPLEX DE ASIGURARE A CALITATII APEI SI SECURITATII CONSUMATORILOR IN EXPUNEREA LA SUBSTANTE CANCERIGENE (THM) DIN APA POTABILA

REZUMATUL PROIECTULUI	*In scopul reducerii impactului negativ generat de formarea trihalometanilor (THM) in apa de baut, proiectul abordeaza aspecte integrate ale calitatii apei si securitatii consumatorilor, propunand un program complex de asigurare a calitatii apei, cu impact asupra calitatii vietii, aria de studiu a proiectului fiind zona central Transilvaneana (judetele Cluj, Mures si Salaj). Trihalometanii (THM) sunt prezenti in apa potabila ca produsi rezultati in procesul de tratare prin dezinfectie cu clor a apei. Datorita efectelor grave, cunoscute, asupra organismelor umane, inclusiv cancerigene, in tarile UE, THM fac parte din lista substantelor prioritar periculoase din apa. Pentru atingerea obiectivelor proiectului s-a realizat controlul expunerii la THM, supravegherea medicală a unui grup populational tinta si s-au dezvoltat strategii adecvate în scopul reducerii expunerii la THM şi monitorizării stării de sănătate. In cadrul cercetarilor s-a monitorizat variabilitatea concentratiei THM in cursul procesului de tratare a apei si in zone de consum (reteaua de distributie) si urbane din centrul Transilvaniei in scopul alcatuirii unor baze de date specifice (noutate). Cercetarile realizate au permis cuantificarea efectelor prin intermediul unor masuratori de mare acuratete si prognozarea posibilelor efecte asupra populatiilor susceptibile prin crearea unui model matematic de prognoza a impactului asupra sanatatii populatiilor susceptibile (noutate in Romania). Evaluarea si elaborarea metodologiilor moderne de investigare si monitorizare a calitatii apei in zone cu potential de generare a THM au permis stabilirea metodologiei de sampling si control de calitate. Elaborarea modelului experimental al monitorizarii precursorilor (substante organice, clor) si compusilor cancerigeni cercetati-THM, din apa potabila presupune stabilirea indicatorilor in scopul caracterizarii calitatii apei brute utilizate pentru tratare in scop potabil si elaborarea protocoalelor de lucru privind recoltarea, depozitarea, transportul si analiza probelor de apa, controlul de calitate si evaluarea calităţii. S-au utilizat metodele de analiza moderne si performante, in conformitate cu standardele ISO. In scopul promovarii masurilor specifice asigurarii calitatii apei si securitatii consumatorilor, prin educatie pentru sanatate a grupurilor cu susceptibilitate crescuta la actiunea substantelor cancerigene (THM) din apa de baut s-au organizat ateliere de lucru la nivel zonal, ceea ce va conduce la cresterea abilitatii privind utilizarea mai eficienta si eficace a resurselor comunitatii (costuri comunitare) in termenii durabilitatii.*
DESCRIERE PRODUS/ REZULTATE	➢ ***Baza de date privind calitatea apelor la sursa si consumator in Cluj-Napoca, Zalau, Tg. Mures.*** *S-au centralizat date privind calitatea apei din cursul anilor 2005-2007 din mai multe ratiuni, in principal legate de existenta unorinformatii numeroase, comparabile intr-o perioada de timp caracterizata prin instabilitate meteorologica marcata si cu regim hidrologic extrem (inundatii). De asemenea s-au centralizat pentru localitatile din judetele Cluj-Napoca, Zalau si Tg. Mures date privind: accesul la apa potabila al populatiei din mediul urban, calitatea apei in reteaua de distributie si datele*

	pentru statiile de tratare a apei din judetele selectate in studiu. Datele au evidentiat unele aspecte negative privind calitatea apei in reteaua de distributie din punct de vedere chimic, in cea mai mare parte din cauza nivelului de clor rezidual liber, dar si din punct de vedere microbiologic. Pe baza datelor s-a pus in evidenta scaderea consumului mediu de apa /cap locuitor (fara consum industrial). ➢ ***Baze de date privind distributia temporala si spatiala a substantelor investigate in arealul grupurilor populationale selectate*** *Baza de date rezultata in urma monitorizarii saptamanale a concentratiei THm in apa din reteaua de distributie a orasului Cluj-Napoca, efectuata in perioada septembrie 2009- februarie 2010, contine concentratiile THM si a unor parametri indicatori si precursori ai THM in reteaua de distributie a localitatilor Targu Mures si Zalau, localitati avand concentratii crescute de THM semnalate in cursul studiilor realizate in prima parte a proiectului.* ➢ ***Model experimental al monitorizarii precursorilor compuşilor cancerigeni cercetati- THM din apa potabila*** *Evaluarea precursorilor THM a demonstrat ca generarea THM este posibila atat la nivel de statie de tratare cat si in reteaua de distributie, in special unde se practica reclorinarea. S-a simulat si pilotat modelul experimental creat prin recoltari de probe si analiza in cele trei localitati cuprinse in studiu. Rezultatele au evidentiat faptul ca locul de formare a trihalometanilor la concentratii mai crescute este mai probabil la nivelul retelei de distributie.* ➢ ***Model matematic de prognoza a impactului compusilor cancerigeni-THM, via apa potabila, asupra receptorilor*** *Date de intrare ale modelului au fost obtinute pe baza unui chestionar prin investigarea 629 de subiecti din zonele Cluj-Napoca, Targu-Mures si Zalau. S-a realizat o evaluare de expunere si de risc la amoniac, nitriti, nitrati si cloroform. Bazele de date obtinute, prelucrate statistic au permis elaborarea modelului matematic.* ➢ ***Program Complex de asigurare a calitatii surselor de apa si securitatii consumatorilor in expunerea la substante cancerigene (THM)*** *S-au creat baze de date privind distributia temporala si spatiala a substantelor investigate in arealul grupurilor populationale selectate. S-a realizat si experimentat modelul programului de analiza, in scopul reprezentarii spatiale si temporale a morbiditatii specifice. S-au elaborarat procedurile de transfer ale modelului in situatii similare care necesita solutii de rezolvare asemanatoare asigurarii calitatii si securitatii apei prin prisma substantelor prioritar periculoase (THM). S-au intocmit documentatii pentru autoritatile locale.*
PROIECTUL TRATEAZĂ TEMATICA APEI	*Proiectul abordeaza aspecte integrate ale calitatii apei si securitatii consumatorilor, prin studiul efectelor precursorilor (substante organice, clor) si compusilor cancerigeni -THM, din apa potabila ca produsi rezultati in procesul de tratare prin dezinfectie cu clor a apei asupra starii de sanatate a consumatorilor.*
TIPUL REZULTATELOR	• *Baze de date specifice* • *Modele* • *Metodologii de investigare si monitorizare a calitatii apei* • *Metoda de analiza GC a THM prin citire directa* • *Metodologii de identificare si catagrafiere a grupurilor tinta cu comportament cu risc crescut la actiunea factorului de mediu apa* • *Harti in format GIS*

ADAPTAREA LA NEVOILE PIEȚEI	*Din perspectiva sanatatii publice apa este un factor de mediu determinant in promovarea sanatatii. Pina in acest moment in Romania studiile efectuate nu au abordat aspecte integrate de mediu si sanatate referitoare la contaminarea cu THM a apei potabile. Pornind de la Directivele UE privind necesitatea aplicarii unui management integrat de mediu in vederea prevenirii si combaterii poluarii apei si a directivei privind calitatea apei, transpusa prin Legea nr. 458/2002, proiectul si-a propus intr-o prima faza, elaborarea conceptului de calitate si securitate a apei in Romania, prin prisma prioritatilor EU privind substantele prioritar periculoase din apa potabila.* *Din punct de vedere social, proiectul vizeaza cresterea conditiilor pentru alinierea la exigentele impuse de Directivele Europene privind calitatea apei de baut si sanatatii consumatorului, minimalizand riscurile asociate expunerii. Integrarea informatiilor de mediu economice si sociale, locale, in conceptul durabilitatii a fost insotita de promovarea masurilor specifice pentru comportamente sanogene durabile ale comunitatilor, prin politici adecvate de protectie a sanatatii si mediului in sistem integrat, in vederea menţinerii riscului acceptat in expunerea populatiei la THM prin apa potabila. In totalitate proiectul a generat un program integrat de reducere a impactului negativ generat de formarea trihalometanilor (THM) in apa de baut ca substante prioritar periculoase (cancerigene) si protectia starii de sanatate a consumatorilor. In acelasi timp proiectul deschide calea extinderii cercetarilor la nivel populational referitor la susceptibilitate si efecte in expunerea la doze mici de compusi ai THM.*
ASPECTE ȘI AVANTAJE INOVATIVE	• *A rezultat o baza de date sistematizata si exhaustiva pentru sisteme centralizate de aprovizionare cu apa a aprox.750.000 locuitori. S-au evidentiat aspectele negative in termeni spatiali si temporali relationati calitatii surselor de apa, tehnologiilor de tratare si a caracteristicilor apei la nivel de receptor, constribuind la identificarea punctelor critice de control si constituind punctul de plecare al investigatiilor, estimarilor si prognozelor din cadrul studiului.* ***Avantaje**: Bazele de date permit corelarea datelor de calitate a apei cu incidenta patologiei cu posibila transmitere hidrica si instituirea unor masuri de protectie a starii de sanatate in programe concertate de marketing social, cu impact semnificativ pozitiv asupra sanatatii publice* • *A rezultat o baza de date pentru calitatea apei la nivel de receptor pentru aprox. 750.000 locuitori. S-au evidentiat aspecte calitative sistematice in termenii spatialitatii si temporalitatii pentru compusi cancerigeni (THM) si precursorii lor care au permis prelucrari statistice avansate in vederea utilizarii lor in evaluarea expunerii si calculul riscului de cancer in expunerea la THM din apa de baut.* ***Avantaje**:Confera substratul informational pentru actul decizional la nivel de producator /distribuitori de apa, autoritati locale reprezentative in sectorul sanatatii publice in vedrea protejarii si promovarii sanatatii comunitare.* • *Modelul experimental creat si simulat indica necesitatea extinderii spatiale a aplicarii acestuia, in vederea asigurarii evaluarii expunerii populatiei la THM.* ***Avantaje:** Modelul experimental creat si rezultatele simularii stau la baza crearii infrastucturii (chestionar) de evaluare a expunerii populationale, la fel cum valorile concentratiei THM masurate vor permite si prognoza efectelor.* • *Modelul matematic de prognoza a impactului compusilor cancerigeni-THM, via apa potabila, asupra receptorilor a permis interpretarea*

	indicatorilor de morbiditate in contextul integrarii acestora cu datele de calitate a apei (THM). Este prima incercare de investigare a nivelurilor de trihalometani in Romania in scopul prezentarii riscului posibil de cancer la rezidenti. S-a determinat concentratia THM totali din sangele unor subiecti din Cluj-Napoca, noutate in Romania. ***Avantaje:*** *Estimarile de expunere perfectionate vor ajuta la elucidarea riscului posibil, pe baza numarului de locuitori expusi la un anumit nivel de THM sau, la realizarea unui studiu epidemiologic utilizand THM ca variabila de expunere de interes.* • *Program integrat de reducere a impactului negativ generat de formarea trihalometanilor (THM) in apa de baut si protectia starii de sanatate a consumatorilor - sistem geografic informational.* ***Avantaje:*** *Integrarea informatiilor de mediu economice si sociale, locale, in conceptul durabilitatii insotita de promovarea masurilor specifice pentru comportamente sanogene durabile ale comunitatilor, prin politici adecvate de protectie a sanatatii si mediului in sistem integrat, in vederea mentinerii riscului acceptat in expunerea populatiei la THM prin apa potabila.*
STADIUL DE DEZVOLTARE	*Baze de date specifice– prototip, utilizate de partenerii proiectului* *Metodologii- prototip, utilizate de partenerii proiectului* *Modele– prototip, utilizate de partenerii proiectului*
TRANSFERABILITATEA	*Rezultatele proiectului pot fi utilizate de autoritatile locale de sanatate publica si de mediu, a producatorilor de apa pentru evaluarea corecta a nivelului de poluare a apei de baut cu substante prioritar periculoase-cancerigene, in zonele studiate cu costuri net mai bune decat cele actuale si aplicarea de planuri de masuri pentru combaterea poluarii la surs si a tratarii adecvate. De asemenea rezultatele proiectului aduc beneficii importante calitatii vietii si in domeniul supravegherii sanatatii publice.*
STRATEGIE DE DISEMINARE	*Pe tot parcursul desfasurarii proiectului, rezultatele obţinute au fost diseminate prin activităţi suport specifice, instruiri şi seminarii organizate de CMS-Coordonatorul proiectului, materializandu-se in:* *Carti publicate:* ***Anca Elena Gurzau (coord).*** *Ovidiu Traian Popa, Cristian Pop, Daniela Violeta Dumitrescu, Romeo Chira Aspecte ale tratării în scop potabil a surselor de apă cu grade diferite de contaminare, Sibiu 2011, Editura Techno Media, cod CNCSIS 287 ISBN 978-606-616-013-1* ***Anca Elena Gurzau (coord).*** *Irina Dumitrascu, Aurelia Pintea, Thu Trang Tach, Daniela Coza, Luciana Neamţiu, Ofelia Şuteu, Alexandru Zeic, Ovidiu Traian Popa, Cristian Pop, Daniela Violeta Dumitrescu, Cornelia Hertia, Romeo Chira, Szas Maria, Szabo Eva Model experimental al monitorizarii THM si precursorilor din apa potabila in expunerea umana, Sibiu 2011, Editura Techno Media, cod CNCSIS 287, ISBN 978-606-616-014-8* *Articole cotate ISI* ***Anca Elena Gurzau****, Emilian Popovici, Aurelia Pintea, Irina Dumitrascu Cristian Pop &Ovidiu Popa– Exp[osure assessment to trihalomethanes from the epidemiological perspectives, Carpathian Journal of Earth and Environmental Sciences, February 2011, Vol. 6, No. 1, p. 5 – 12, Covered Thomson Reuters, Indexed in VINITI, Covered in GeoRef , ISSN* ***1842 – 4090*** ***Anca Elena Gurzau****, Emilian Popovici, Aurelia Pintea, Ovidiu Popa, Cristian Pop Irina Dumitrascu – Quality of surface water sources from a central Transylvanian area as a possible problem for human security and public health, Carpathian Journal of Earth and Environmental Sciences,*

	*2010, Vol. 5, No. 2, p. 119 – 126 , Covered Thomson Reuters, Indexed in VINITI, Covered in GeoRef , ISSN **1842 – 4090*** *Thach T-T, **Gurzau A E**, Russi M, Dumitrascu I, Pop C, An Analysis of Trihalomethanes Levels in the Distribution Networks of Three Romanian Cities Carpathian Journal of Earth and Environmental Sciences, February 2012, Vol. 7, No. 1, p. 81 - 88 (On line) Vol. 6, No. 1, p. 5 – 12, Covered Thomson Reuters, Indexed in VINITI, Covered in GeoRef , ISSN **1842 – 4090*** *Reviste cotate in BDI* *Daniela Violeta Dumitrescu, **Anca Elena Gurzau**, Aurelia Pintea, Alexandru Zeic, Cornelia Hertia, Marius ROMAN Health risks as a consequence of drinking water treatment technology, STUDIA UBB. AMBIENTUM, LV, 1-2, 3-17, 2010* ***Anca Elena Gurzau**, Aurelia Pintea, Alexandru Zeic, Daniela Violeta Dumitrescu, Thu-Trang Thach, Cornelia Hertia The Particular Aspects of Individual Drinking Water Consumption in Health Risk Assessment, STUDIA UBB. AMBIENTUM, LV, 1-2, 25-33, 2010* ***Anca Elena Gurzau**, Cristian Pop, Ovidiu Traian Popa, Irina Dumitrascu, Identification and Risk Assessmentof central Water Supply System, Air and water components of the environment, Ed. Presa Universitara Clujeana, 2011, ISSN2067-743X* *Cornelia Hertia, **Anca Elena Gurzau**, Maria Ilona Szasz, Technological process assessment of the drinking water at Targu Mures water treatment plant, Air and water components of the environment, Ed. Presa Universitara Clujeana, 2011, ISSN2067-743X* *Alte reviste* ***Anca Elena Gurzau**, Daniela Dumitrescu- Generarea trihalometanilor în cursul tratării apei potabile şi în sistemul de distribuţie , Acta Med Trans nr 4/2009, 100-103, CNCSIS B* ***Anca Elena Gurzau**, Aurelia Pintea - Efecte asupra sănătăţii umane în expunerea la trihalometani, Acta Med Trans nr 4/2009, 103-105, CNCSIS B* *Comunicări ştiinţifice: 7* *Conferinte internationale: 5* *Invited speaker: 2* *Cursuri/seminarii/worshop-uri: 1* *Co-organizatori: 3* *In acelasi timp, prin rezultatele proiectului se ofera o mai buna si mai completa informare a publicului asupra problemelor create de poluarea cu substante cancerigene a apei de baut. Nu in ultimul rand proiectul a atras si format resurse umane inalt calificate, in special din randul tinerilor.*
DREPTURI DE PROPRIETATE INTELECTUALĂ	*Rezultatele proiectului au fost diseminate pe scara larga.* *Cartile publicate au ISBN.*
CLIENȚI ANTICIPAȚI	***Potentiali beneficiari:*** ✓ *Statii de tratare a apei;* ✓ *Directiile de Sanatate Publica* ✓ *Institutii de invatamant, cercetare* - *Partenerii consortiului* - *Studenti, masteranzi, doctoranzi*

	- *Comunitatea stiintifica*
PAȘII URMĂTORI PENTRU A DEZVOLTA PRODUCȚIA PENTRU PIAȚĂ	*Rezultatele stiintifice ale proiectului se constituie ca:* ▪ *Parte in suportul de curs pentru disciplinele Ecotoxicologie si Securitate ecologica* ▪ *Teze de doctorat - 1* ▪ *Pregatire studenti interntaionali in domeniul sanatatii mediului, sanatate publica (Scoala de vara pentru masteranzi de la Scoala de Sanatate Publica a Universitatii Yale; Scoala de Sanatate Publica a Universitatii de Stat din New York, SUA; Universitatea Nationala Euroasia, Astana , Kazahstan 2010, 2011* *Propuneri de proiecte nationale si international*
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAȚĂ (RISC SI SOLUTII)	*Solutii:* *Evaluarea nivelului de contaminare a apei de baut cu substante prioritar periculoase-cancerigene si aplicarea de planuri de masuri pentru combaterea poluarii si limitarea efectelor asociate* *Reconsiderarea procedeelor de tratare a apei in scop potabil si ajustarea lor* *Sisteme complexe de management ai factorilor de mediu* *modelare in sanatate* ***Rezultatele pot fi transferate la:*** - *Ministerul Sanatatii* - *Directii judetene de Sanatate Publica* - *Ministerul Mediului si Dezvoltarii Durabile* - *Autoritati si comunitati locale*
DETALIILE COLABORĂRILOR	*Finantarea proiectului s-a realizat in baza unui Contract de finantare incheiat intre CMS – Cluj Napoca in calitate de coordinator al proiectului si UEFISCDI-in calitate de Autoritate Contractanta.* *Proiectul o fost cofinantat din fonduri private de catre CMS si CREMS – Cluj Napoca.* *S-a beneficiat de suportul deplin al producatorilor de apa implicati*
TIPURI DE PARTENERI CĂUTAȚI	*Producatori de apa, organizaţii de cercetare*
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	*Principalele domenii de expertiza cautate sunt: producatori de apa, invatamant, cercetare, sanatate*
SARCINILE CE TREBUIESC ÎNDEPLINITE DE PARTENERUL CĂUTAT	*Dezvolaarea ghidului utilizatorilor*
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	*Absenţa riscului*
RESURSE PENTRU URMĂTORII PAȘI	*Obiectivul este de a face gata pentru piaţă*

CHELTUIELI PREVĂZUTE PENTRU URMĂTORII PAŞI	*Nu necesita costuri*
DATE DE CONTACT ALE ECHIPEI DE PROIECT	*Nume: Prof.Asoc.Dr.Anca Elena Gurzau,* *Centrul de Mediu si Sanatate Cluj Napoca* *Adresa, telefon, fax: Str.Busuiocului nr.58, Cluj Napoca, Jud.Cluj,* *Tel. 0264432979, fax: 0264534404,* *e-mail: ancagurzau@ehc.ro* *pagina de web: www.ehc.ro*

PROCEDEU ŞI INSTALAŢIE DE POST-TRATARE A NĂMOLURILOR REZIDUALE ORĂŞENEŞTI ÎN VEDEREA UTILIZĂRII CA FERTILIZANŢI AGRICOLI

REZUMATUL PROIECTULUI	A fost elaborata o tehnologie de post-tratare (compostare aeroba) a namolurilor reziduale de la statiile orasenesti de epurare in amestec cu deseuri vegetale. Tehnologia a fost verificata, la nivel pilot, prin utilizarea ca materii prime namolurile reziduale de la statiile de epurare a municipiilor Pitesti si Focsani; Pe baza rezultatelor obtinute a fost elaborata o cerere de brevet „Procedeu si instalatie de post-tratare a namolurilor reziduale orasenesti in vederea utilizarii ca fertilizanti agricoli" Prin aplicarea tehnologiei de compostare s-a obtint un produs cu capacitate fertilizanta – compostul. Compostul obtinut a fost transmis partenerilor USAMVB Timisoara si SCDA Pitesti in scopul evaluarii capacitatii fertilizante a acestuia pentru culturile in camp, astfel: USAMVB Timisoara a testat capacitatea fertilizanta a compostului asupra unui amestec de plante furajere si culturii de soia. In zona de campie joasa a Banatului, unde a avut loc experimentul de evaluare a potentialului de fertilizare a compostului asupra plantelor furajere recoltate si valorificate in hrana animalelor ca masa verde proaspata sau ca fibroase, produsul obtinut in cadrul INCD-ECOIND, s-a dovedit a fi un fertilizant organic de foarte buna calitate care stimuleaza in mod deosebit productia leguminoaselor si gramineelor furajere. SCDA Pitesti a evaluat capacitatea de fertilizare a compostului asupra culturii porumbului. In ceea ce priveste efectul fertilizant al compostului obtinut , acesta s-a dovedit a avea efecte total favorabile atat asupra eco-mediului de cultura (cel specific al luvosolului) cat mai ales asupra plantelor de porumb cultivate. A avut loc astfel imbunatatirea regimului de hrana atat in macro- cat si micro- nutrienti, nefiind detectate efecte negative ale concentratiilor mici de metale grele continute de acestea (sub limitele impuse de ordinul 344/2004) asupra fiziologiei pantelor. In aceste conditii plantele de porumb au crescut si dezvoltat, manifestand caractere morfologice foarte expresive.
DESCRIERE PRODUS/ REZULTATE	Instalaţia este alcătuită dintr-un subansamblu de aerare forţată, un subansamblu de compostare şi un subansamblu de monitorizare a parametrilor de functionare ai procesului de post-tratare. Procesul aerob de compostare al nămolurilor orăşeneşti în amestec cu deşeuri vegetale în anumite rapoarte masice are loc in timp scurt după trei faze: fermentare aerobă mezofilă, o fază termofilă si o fază de maturare in timpul carora substratul organic este degradat în humus. *Procedeul se dsfăşoară în condiţii de aerare, prin asigurarea unei cantităţi de oxigen necesară pentru compostare, cu monitorizare a parametrilor de funcţionare privind compostarea nămolurilor reziduale oraşeneşti în amestec cu deşeuri vegetale într-un raport masic cuprins între 1:1 si 4:1 timp de 60-90 de zile în care au loc o fază de fermentare aerobă mezofilă la o temperatură de 25-40^{0}C , care constă în creşterea numărului de bacterii, o fază termofilă la o temperatură de 45-70^{0}C, în care bacteriile, ciupercile şi actinomicetele prezente descompun celuloza, lignina şi alte substanţe organice rezistente, temperatura maxima de 70^{0}C fiind necesar să se menţina cel puţin o zi pentru distrugerea patogenilor şi a unor contaminanţi organici şi o fază de maturare, când temperaturile scad şi se*

	stabilizează şi se continua unele procese biologice oxidative transformând substratul organic degradat în humus. Compostul rezultat este un produs cu proprietăţi fertilizante ce se încadrează în limitele de concentraţie impuse de normativele în vigoare pentru utilizarea nămolurilor de epurare în agricultură, la nivel naţional şi european.
PROIECTUL TRATEAZĂ TEMATICA APEI	*Proiectul are ca obiect una din problemele specific de canalizare si anume valorificarea unui deseu / namolurile reziduale de la statiile de epurare orasenesti care ridica probleme de depozitare (spatiu, mirosuri, potential poluare ape subterane).*
TIPUL REZULTATELOR	*Tehnologie, instalatie, produs (compost)*
ADAPTAREA LA NEVOILE PIEȚEI	*Politica nationala de gestionare a namolurilor de epurare – post-tratare si utilizare in agricultura.*
ASPECTE ȘI AVANTAJE INOVATIVE	***Avantajele procesului de compostare:*** • *transformarea namolurilor reziduale orasenesti intr-un produs nou, asemanator pamantului de flori existent commercial, fara miros si cu o buna capacitate de fertilizare;* • *compostul contine o forma organica mai stabila a azotului ce se elibereaza treptat in sol asigurand necesarul de azot o perioada mai indelungata;* • *in etapa termofila a procesului se reduce semnificativ numarul microorganismelor patogene/ potential patogene;* • *compostul este un bun conditionator de sol, imbunatateste structura solului, are un aport important de materie organica si reduce potentialul pentru eroziunea solului;* • se rezolva problema unui deseu care pune mari probleme operatorilor de apa-canal in ceea ce priveste depozitarea;
STADIUL DE DEZVOLTARE	*Pilot semi-industrial aplicat pentru compostarea aeroba a namolurilor reziduale din statiile de epurare a municipiilor Pitesti si Focsani. Capacitatea de fertilizare a compostului rezultat a fost confirmata in campuri experimentale pe culturi de porumb si graminee furajere*
TRANSFERABILITATEA	*Tehnologia este transferabila la scara industriala la orice operator municipal de apa canal cu statie de epurare biologica prevazuta cu treapta de fermentare anaeroba a namolurilor reziduale.* *Este posibila largirea gamei de componente vegetale folosite la constituirea amestecului de compostare prin utilizarea deseurilor menajere biodegradabile (in cazul colectarii selective a deseurilor menajere).*
STRATEGIE DE DISEMINARE	*Strategia de diseminare in cadrul proiectului si post-proiect a inclus:* - *promovare pe site-ul www.incdecoind.ro;* - *organizare workshop;* - *redactare brosura de informare;* - *comunicari stintifice;* - *includere in oferta de tehnologii a INCD-ECOIND*
DREPTURI DE PROPRIETATE INTELECTUALĂ	*S-a depus cererea de brevet nr.* **A/01092 / 11.11.2010 vizand procedeul si instalatia de compostare**

CLIENȚI ANTICIPAȚI	*Operatori apa canal.*
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAȚĂ (RISC SI SOLUTII)	*Operatorii de apa canal au nevoie de o solutie pentru valorificarea namolurilor reziduale iar detinatorii de terenuri agricole au nevoie de fetilizanti pentru culturi.* *Eforturi de aplicare: Pentru operatorii de apa canal sunt necesare cheltuieli de investitie pentru realizarea instalatiei de compostare si o sursa constanta de componenta vegetala (deseuri).*
DETALIILE COLABORĂRILOR	*Cooperare si asistenta tehnică pentru proiectare si punere in functiune instalatie compostare.*
TIPURI DE PARTENERI CĂUTAȚI	*Operatori de apa-canal*
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	*Operatori de servicii - canalizare*
SARCINILE CE TREBUIESC ÎNDEPLINITE DE PARTENERUL CĂUTAT	*Finantare investitie instalatie compostare la scara industriala*
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	*Risc scazut in ceea ce priveste aspectele juridice (securitate sanitara insuficient reglementata);* *Identificarea posibilelor surse de componenta vegetala (deseuri) care sa asigure o cantitate minima necesara.*
DATE DE CONTACT ALE ECHIPEI DE PROIECT	*Ion Viorel Patroescu; Costel Bumbac* *INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU ECOLOGIE INDUSTRIALA - ECOIND BUCURESTI* *Str. Podul Dambovitei, nr.71-73, sector 6, Bucuresti,* *tel:0214100377, int.244, 126;* *fax:0214100575* *tehnologi@incdecoind.ro* *www.incdecoind.ro*

"BIOSENZORI PE BAZA DE ENZIME IMOBILIZATE COVALENT PE POLIMERI, PENTRU MONITORIZAREA NITRATILOR SI NITRITILOR DIN APE DESTINATE CONSUMULUI UMAN"

REZUMATUL PROIECTULUI	*Riscul impurificarii cu NO_3^- si NO_2^- a apelor subterane ce servesc drept sursa de apa potabila este foarte ridicat in zonele unde se practica agricultura intensiva. Acest lucru a fost evidentiat in baza programelor de monitorizare a sapte surse situate pe raza judetelor Teleorman si Giurgiu, desfasurate in perioada feb. 2009 – iul. 2011. De asemenea, pentru acviferele de adancime mica s-au observat si depasiri ale concentratiei de NH_4^+.Depasirile frecvente ale CMA, in special pentru nitrat, dar si pentru nitrit fac improprie utilizarea acestor surse ca atare. Proiectul a cercetat obtinerea senzorilor enzimatici electrochimici. Ideea de baza consta in imobilizarea covalenta a enzimelor pe polimeri electroconductivi depusi pe electrodul senzorului electrochimic. Pentru cresterea senzitivatii si selectivitatii senzorului,s-a utilizat un polimer electroconductiv de tip polipirol.*
DESCRIERE PRODUS/ REZULTATE	*Depunerea filmelor de polipirol pe diferite materiale electrodice (Pt, carbon vitros, electrozi planari imprimaţi) s-a realizat prin diferite metode. Permeabilitatea filmului a fost testată în prezenţa cuplului redox ferocianură/fericianură. Caracterizarea electroanalitică a filmelor depuse a fost realizată prin cronoamperometrie în prezenţa peroxidazei din hrean, enzimă imobilizată în filmul polimeric. Cu ajutorul electrozilor planari imprimaţi din grafit modificaţi cu peroxidază încorporată în filmul de polipirol, s-a demonstrat existenţa interacţiunilor între enzima imobilizată şi speciile electroactive ale poluantului.* *A fost studiat şi comportamentul electrochimic al nitraţilor/nitriţilor în procesele de reducere/oxidare electrochimică pe diferite materiale electrodice şi la diferite valori ale pH-ului. Ambele procese electrochimice au fost favorizate de valori reduse ale pH-ului. Influenţa diferiţilor parametri (electrolit, material electrodic şi pH) asupra proceselor electrochimice de reducere/oxidare a fost studiată cu ajutorul voltametriei ciclice, în vederea stabilirii condiţiilor optime experimentale.* *Aceste rezultate arata ca tehnologiile de laborator elaborate pot fi utilizate pentru a încorpora nitratreductaza în filme de polipirol depuse pe suprafaţa electrozilor planari imprimaţi, in vederea caracterizarii noilor biosenzori obţinuţi şi a testarii acestora în diferite matrici (apă potabilă, probe de mediu, alimente şi medicamente).*
PROIECTUL TRATEAZĂ TEMATICA APEI	*Monitorizarea nitratilor si nitritilor din ape potabile*
TIPUL REZULTATELOR	*Cercetare demonstrativa*
ADAPTAREA LA NEVOILE PIEȚEI	*Monitorizarea caracteristicilor apei potabile*
ASPECTE ȘI AVANTAJE INOVATIVE	*Obtinerea de biosenzori enzimatici permite monitorizarea in timp real a concentratiei nitratilor si nitritilor din apele potabile*

STADIUL DE DEZVOLTARE	*Cercetare de laborator*
TRANSFERABILITATEA	*Rezultatele pot fi transferate, dupa cercetari suplimentare, la scara micropilot sau pilot, unor agenti economici producatori de biosenzori*
STRATEGIE DE DISEMINARE	*Rezultatele obtinute au fost difuzate in mediul academic. In prezent se incearca difuzarea acestora in mediul economic pentru a gasi parteneri pentru proiecte nationale sau internationale, in vederea definitivarii tehnologiei la scara pilot.*
DREPTURI DE PROPRIETATE INTELECTUALĂ	*Exista brevet romanesc pentru imobilizarea covalenta de enzime pe polipirol. Cercetarile ulterioare vor permite obtinerea unor alte brevete, pentru biosenzori*
CLIENTI ANTICIPATI	*IMM-uri producatoare de biosenzori*
PASII URMĂTORI PENTRU A DEZVOLTA PRODUCTIA PENTRU PIATĂ	*Continuarea cercetarilor, in special pe partea electrochimica si electronica, proiectarea produsului si realizarea protipului*
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAŢĂ (RISC SI SOLUTII)	*Senzorii de acest tip ar putea fi cumparati de organismele de monitorizare a poluantilor din ape*
DETALIILE COLABORĂRILOR	*Se are in vedere mai intai o cooperare tehnică, in cadrul unui proiect de cercetare si in functie de rezultate, incheierea unui acord comercial pentru transfer tehnologic si acordarea de asistenta tehnica in producerea biosenzorilor.*
TIPURI DE PARTENERI CĂUTATI	*IMM-uri / Firme, organizaţii de cercetare*
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	*Acesta este axat pe domeniului de expertiză tehnică electrochimie si electronica*
SARCINILE CE TREBUIESC ÎNDEPLINITE DE PARTENERUL CĂUTAT	*Participarea la cercetari de optimizare a senzorului la scara pilot din punct de vedere electrochimic, electronic si soft si realizarea protipului.*
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	*Riscul este cel normal in cercetare. Nu sunt necesare echipamente scumpe pentru realizarea senzorilor electrochimici.*
RESURSE PENTRU URMĂTORII PAŞI	*Sunt necesare cercetari in decurs de circa 8 luni, la scara de laborator si pilot, cu resursele financiare adecvate pentru ICECHIM pentru UMF Cluj si pentru partenerul IMM. Cel mai indicat ar fi un proiect de tip inovare sau un proiect de tip Eurostar. Valoarea minima pentru unitatile de cercetare*

	este de cca 350.000 RON
CHELTUIELI PREVĂZUTE PENTRU URMĂTORII PAŞI	*Costuri pentru testare si costurile pentru îmbunătăţire vor fi suportate in cadrul proiectelor de cercetare mentionate.*
DATE DE CONTACT ALE ECHIPEI DE PROIECT	*Nume: dr.ing. Andrei Sârbu* *INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU CHIMIE SI PETROCHIMIE ICECHIM BUCURESTI* *Adresa: Spl. Independentei nr.202, sector 6, Bucuresti,* *tel: 0213128501/127,* *fax: 0213123493* *e-mail: andr.sarbu@gmail.com* *pagina de web: www.icechim.ro*

Politechnika Gdańska 14 March 2013

As in last year, on a special invitation from Mrs. Hanna Obarska, a professor of the Technical University of Gdansk, specializing in sewage management technology, we have participated in a seminar devoted to the subject of research project related to the implementation of Water Frame Directive and its daughter directives. Using this occasion, we have decided to introduce students with the Water Research To Market projects, its objectives and main activities. We have presented our actions so far including the type of events and e-seminars- as well as the dissemination of invitations to the conference placed in Gdansk on 19-21 March. This conferenceis devoted to promotion of research outputs connected with the lake remediation procedures. Using this chance we have also provided information about the contact details to the output owners and additional materials regarding the subject of the project; brochures, gadgets, factsheets and a contact list for all those who are interested in receiving further information about the project.

Beside students, also representatives of the Environmental Engineering Department of the Technical University of Gdansk as well as the representative of the Institute of Polish Oceanographic Academy of Sciences in Sopot took part in the seminar.

Underneath:

Photos from the event:

Politechnika Gdańska 14 March 2013

Podobnie jak w zeszłym roku, dnia 14 marca bieżącego roku, na specjalne zaproszenie Pani Profesor Hanny Obarskiej, przedstawiciele Gdańskiej Fundacji Wody (GFW) wzięli udział w seminarium dla studentów roku dyplomowego Wydziału Budownictwa i Środowiska Politechniki Gdańskiej. W trakcie seminarium została wygłoszona prezentacja dotycząca tematyki wdrażania wodnych dyrektyw ramowych zarówno na świecie jak i w Polsce. Korzystając z tej okazji, Gdańska Fundacja Wody zaprezentowała również swoje zaangażowanie związane z realizacją projektu 'Water Research to Market' oraz produktów prac badawczych, które projekt ten promuje.
W związku z ogłoszeniem, przez Zarząd Województwa Pomorskiego, roku 2013 „Rokiem Jezior", Gdańska Fundacja Wody postanowiła poinformować uczestników o organizowanym seminarium „Rekultywacja jezior jako proces mający na celu poprawę stanu ekosystemów jeziornych. Kryteria wyboru, metody rekultywacji, doświadczenia administracji samorządowej, które zostało zorganizowane w dniach 19-21 marca, jak również przedstawić tych z prelegentów, których prace badawcze są promowane poprzez projekt Water Research to Market i odznaczają się innowacyjnością dotyczącą ciekawych rozwiązań stosowanych przy rekultywacji zbiorników, szczególnie miejskich.

Poza tym poruszono tematykę e-seminariów oraz innych, obecnie promowanych projektów. Uczestnicy seminarium zostali poinformowani o dostępności materiałów dodatkowych; broszur projektowych, dokumentów pomocniczych, jak i gadżetów mających na celu uświadomienie konsekwencji zmian czekających Polskę w związku z założeniami Ramowej Dyrektywy Wodnej. Ponadto przedstawiciele GFW udzielali szczegółowych informacji dotyczących uczestnictwa w projekcie, rodzaju poszukiwanych innowacji oraz sposobu kontaktu z jednostkami badawczymi zajmującymi się promocją innowacji w gospodarce wodnej Polski.

Poniżej zdjęcia z opisanego seminarium:


Water Research to Market
LIFE09 ENV/PL/000593
PRZYSPIESZYĆ
DO PRAKTYKI

" Evaluating opportunities for research results transfer in future investment projects for regional operators"

Romania (Iași, 15 March 2013)

Dissemination: National Seminar	Type communication action: presentation and discussion

1. Objective of the seminar:

- Promoting the transferable results of research projects selected by the Water Research to Market services to the water and sewerage supply services.

By presenting, dissemination and discussing a number of 3 projects selected in Water Research to Market Project.

- Promoting Water Research to Market as a service.

To disseminate the idea of « Water RtoM, as a new service, from the Research to the Market".

2. Context

Water RtoM defined a communication plan (PMS) for all the duration of the project (sept 2010- aug. 2013) :

CFPPDA has planned some specific events in Romania, in order to take advantage of the reached attendance.

4 national events, in Romania, CFPPDA will organise :

- 1) "Transferring water research outcomes in practice" (Bucharest) - 27 March 2012,

- 2) " Water research output supporting the implementation of public health request" (Bucharest) – 12 March 2013

- 3) "Evaluating opportunities for research results transfer in future investment projects for regional operators" (Iași) - 15 March 2013

- 4) "Innovative solutions available for improuving water losses activities" (Bucharest) - 9 June 2013

1 European events and one scheduled broker sesione organised by CFPPDA during :

- 1) EXPOAPA 2012 (Bucharest) 11-13 June 2012
Each partner has the same item in their own country.

3. Targets of the water RtoM seminar:

The target group was formed by universities, SMEs, regional water and wastewater operators, representative of the Romanian Association Water management (LC Member).

During the event agenda, attended by 52 people. List of participants is attached in Annex 1.

4. Our expectations

- Debate about the relevance of the innovations selected by Water RtoM and their potentiality to be used by the participants or potential users, and how they can be further promoted or improved to be up taken.

- Identify ways of financing the implementation of research products.

- Identifying needs to improve research products.

5. Message to deliver

Water RtoM is a LIFE demonstrative project with the ambition to develop a service to facilitate the transfer between the researchers and the end-users (water providers, stakeholders).
Selected outputs together with willingness of the top management to improve the efficiency can bring added value in to utilities.
After the end of a research project more work in transferring the knowledge must be undertaken, and the output must be package in something more tangible and a product or a service.
In order to develop a useful service, Water RtoM needs to test its tools with the targets (private and public companies).

6. Date, agenda and place

Date : 15 March 2013
Duration of the seminar: 1 day
Language: Romanian
Entry fee : free
Draft agenda:
During the event was provided a brief overview of each project and presenting the thems relating at evaluating opportunities for research results transfer in future investment projects for regional operators.

09^{00} - 09^{30}	Welcome
09^{30} - 10^{00}	Regional Operator Investment Project Context, Vasile Ciomos -ARA
10^{00} - 10^{30}	Project "Water Research to Market" Concept, Silviu Lacatusu- Foundation CFPPDA
10^{30} - 11^{00}	URBWATER - Silviu Lacatusu, CFPPDA
11^{00} - 11^{30}	Coffee Break
11^{30} - 12^{00}	STEDIWAT - George Bârjoveanu, "GHEORGH ASACHI" TEHNICAL UNIVERSITY OF IAȘI, DEPARTMENT OF ENGINEERING AND ENVIRONMENTAL MANAGEMENT
12^{00} - 13^{00}	Lunch Break
13^{00} - 13^{30}	A-PORT - George Chelaru, ARA
13^{30} - 14^{30}	Debate
14^{30} - 15^{00}	Conclusions / Closing

7. Means and resources

Documents to prepare:

a) WaterRtoM: leaflet/brochure, roll up, Registration form for participation in the seminar (collection the contact details), List of participants and contact details - Annex 1, Event agenda.

b) 3 projects: factsheet, powerpoint for demonstration/presentation (3 projects).

Presented innovations: 3

In the event 3 research results selected by Water RtoM were disseminated. Their acronyms are: A-PORT, URBWATER, STEDIWAT.

Logistical means:

- Laptop equipped to allow viewing demonstration/presentation.
- Photo camera

8. Agenda & planning

- January: Identify and discuss with LC and ARA specialists the topic, target group and the guests,
- February: Inviting research teams and regional water and wastewater operators to join the national seminar on 15 March 2013 (send invitations),
- Early March: receiving confirmation of participation of research teams, sending invitations to practitioners (utilities),
- until 10 March: receiving confirmation of participation and organizational activities,
- Deployment of the seminar.

9. Budget (€)

- travel cost for 1 person (Bucuresti-Iasi)

10. Indicators to evaluate the event

Number of participants: 52 persons (Anexa 1)
Number of distributed leaflets: 52
Number of distributed factsheets: 3 projects X 52 persons
Number of promoted results: 3

11. Potential risks

- Not to have enough interesting/ transferable projects/innovations.
  - 10 projects were invited to participate and 3 projects answered.
- Absence of interest of research institutions to accelerate the transfer of research results.
  - promotion / awareness on the research teams of the possible future benefits in case of a successful transfer
- Highly technical presentation of research results to the detriment of their marketing presentation.
  - providing a model / template for achieving media *. ppt by research teams.

12. Feedback and lessons learnt

- interest in new technologies from practitioners
- expected difficulties in the approval process of investment in new management systems (DSS) from the local political factors
- resistance to change from the operational staff
- need to move through public tender procedure acquisition, with the the risks associated

Annexes:

Annex 1 - List of participants

Annex 2 - Photos

Annex 3 - Project sheets

Annex 2 - Photos


Water Research
to Market


Water Research
to Market


Industrie
Educație
Water Research
to Market


Industrie
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Water Research
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LIFE09 ENV/FR0593

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A-PORT: web portal	
OUTPUT DESCRIPTION	*The project develop a model for measuring client satisfaction and a permanent framework for measuring citizens 'perception regarding quality of water supply, sewage and wastewater treatment through e-tool (web portal).* *Permanent online monitoring of the citizen perception on water and wastewater services quality*
WATER TOPIC	*Management process, Water services*
TYPE OF OUTPUT	*Decision support systems*
MARKET NEED TAILORED	*Monitoring the satisfaction of citizen for water supply and wastewater services*
INNOVATIVE ASPECTS AND ADVANTAGES	*Using e-tool and web base database for gathering information on quality of services at national level; time line evolution of quality both at regional and national level; public transparency increased.*
STATE OF DEVELOPMENT	*Ready to use*
TRANSFERABILITY	*Prototype under testing with very good results at Romanian Water Association*
DISSEMINATION STRATEGY	*Involvement of the water utility in the pilot testing period; promotion among the sector; limited resources for advertising*
INTELLECTUAL PROPERTY RIGHTS	*IP rights received*
FORESEEN CLIENTS	*National water associations; governmental bodied with responsibilities in public water sector; decision makers within water infrastructure; water utilities*
NEXT STEPS TO DEVELOP THE OUTPUT FOR THE MARKET	• *Identifying new partners interest on quality of services* • *Decision makers participation to meetings with end users* • *Promote and adapt within water utility and national water association ;*
COMMENT ABOUT MARKET APPLICATION (RISK AND SOLUTIONS)	• *DSS for decision makers for investments in water and wastewater infrastructures* • *Alternative market survey for ISO9001 requirement*

	• *Low investment need, increasing transparency on quality of services;* • *Interest of water utility management on public perception, improving water utility image*
COLLABORATION DETAILS	*Partnerships with water utilities and policy makers* *(Technical co-operation, assistance, commercial agreement, financing)*
TYPE OF PARTNER SOUGHT	*Water utilities, policy makers*
SPECIFIC AREAS OF ACTIVITY OF THE PARTNER SOUGHT	*Regional organisations with coordinating tasks/ responsibility on investment in the water supply and sewerage services (local and central authorities, national association)*
TASKS TO BE PERFORMED BY THE SOUGHT PARTNER	*1. Implementing the web portal at regional level* *2. Finding water utility interested for dissemination* *3. Medium term follow up*
FORESEEN RISKS FOR OUTPUT USERS	Low risks on legal aspects; Medium risks on market aspect / end users inters (general public) must be keep awake.
RESOURCES FOR NEXT STEPS	Low cost for investment, constant promotion among water utilities; marketing of services done by each water utility; medium and long term results
FORESEEN COSTS FOR NEXT STEPS	*Low cost for web server development and maintenance of the portal; cost for preparing reports is under the assume feedback for end user*
PROJECT CONTACT	*Name: Dorothea Caraman - SIVECO Romania SA* *Address: Victoria Park, 73-81 Bucuresti-Ploiesti Drive, Building C4, District 1, 013685, Bucharest* *Phone: +40 (21) 302 3300* *Fax: +40 (21) 302 3391* *Email/s: dorothea.caraman@siveco.ro* *Website: www.aport.ara.ro* *http://rd.siveco.ro/portal/web/a-port/home*

Other comments:

PROIECT URBWATER

REZUMATUL PROIECTULUI	*Obiectivul proiectului URBWATER l-a constituit abordarea integrata a problematicii apelor urbane, incluzand: a) inundaţiile urbane cauzate de reţeaua hidrografică care strabate zona urbana; b) inundatiile produse de precipitatiile torentiale in bazinul propriu al oraşului şi / sau zonelor înconjurătoare si care conduc la depăşirea capacităţii de transport a colectoarelor; c) transportul poluantilor in apele de suprafata si subterane; d) delimitarea zonelor de protectie sanitara la captarile de apa subterana.*
DESCRIERE PRODUS/ REZULTATE	*Ca realizari importante in cadrul proiectului se enumera:* *a) Crearea unei baze de date in mediu GIS (Sistem Informaţional Geografic), cuprinzand: Modelul Numeric al Terenului (MNT), acoperirea şi utilizarea terenului urban, infrastructura de evacuare a apelor pluviale şi menajere., precum si a unei baze de ate necesare calculelor de delimitarea a zonelor inundabile la nivel de bazin hidrografic* *b) Elaborarea metodelor şi modelelor pentru identificarea şi delimitarea zonelor inundabile ca urmare a viiturilor produse pe reţeaua hidrografică din amonte a oraşelor sau ca urmare a cedarii lucrarilor hidrotehnice de aparare : diguri sau baraje.* *c) Elaborarea metodologiei pentru identificarea şi delimitarea zonelor inundate în aria urbană produse atât prin scurgerea pluvială de pe zonele urbanizate cât şi a de pe suprafaţa versanţilor neurbanizaţi limitrofi oraşelor, care constituie un subbazin hidrografic unic.* *d) Modelarea transportului poluantilor in sursele de apa de suprafaţă si subterană utilizate pentru alimentarea cu apa in zonele urbane si delimitarea zonelor de protectie sanitara.* *e) Elaborarea unei metodologii pentru gestiunea integrata a apelor urbane, avand in vedere nu numai zona strict urbană ci şi întregul bazin hidrografic din care aceasta face parte.*
PROIECTUL TRATEAZĂ TEMATICA APEI	*Proiectul trateaza problematica apelor urbane:* *a) apele meteorice, modul de evacuare in perioada precipitatiilor torentiale (prin reteaua de canalizare sau dupa depasirea capacitatii de transport a acesteia pe reteaua stradala sau prin acumularea apei in zonele depresionare)* *b) delimitarea zonelor inundabile in orase strabatute de cursuri de apa de suprafata dupa depasirea capacitatii sistemelor de aparare (diguri sau baraje)* *c) transportul poluantilor in apele de suprafata si in apele subterane*
TIPUL REZULTATELOR	*metodologii, produse informatice*
ADAPTAREA LA NEVOILE PIEȚEI	*Proiectul raspunde necesitatii gestiunii apelor urbane in perioada de ploi torentiale, a prevenirii inundatiilor din reteaua hidrografica si a asigurarii calitatii apei potabile.*

ASPECTE ȘI AVANTAJE INOVATIVE	*Crearea unei baze de date pentru gestiunea apelor pluviale, respectiv a unei baze de adte la nivel de bazin hidrografic, experienta de modelare si delimitare zone inundabile.*
STADIUL DE DEZVOLTARE	*Programe aplicabile la scara bazinelor urbane, cu intercatiuni la nivelul bazinelor hidrografice. Aplicatii pentru orasul Bucuresti (reteaua de canalizare, cedarea barajului de la Lacul Morii), modelarea propagarii poluantilor pe raul Ialomita, delimitarea zonelor de protectie sanitara la captarea Miroslovesti etc*
TRANSFERABILITATEA	*Metodele si instrumentele elaborate pot fi transferate fara probleme pentru orice zona urbana, avand caracter de generalitate.*
STRATEGIE DE DISEMINARE	*Diseminarea este bazata pe publicatii in reviste sau conferinte de specialitate*
DREPTURI DE PROPRIETATE INTELECTUALĂ	*Posibilitati de colaborare pe baza de contract in cadrul Universitatii Tehnice de Constructii Bucuresti*
CLIENȚI ANTICIPAȚI	*Companiile de apa din orase, operatori regionali de apa, administratii bazinale de apa*
PAȘII URMĂTORI PENTRU A DEZVOLTA PRODUCȚIA PENTRU PIAȚĂ	*Formarea la clienti pe baza de studii de caz rezolvate in comun a unor utilizatori capabili sa utilizeze conceptel e si produsele informatice realizate in cadrul proiectului URBWATER*
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAȚĂ (RISC SI SOLUTII)	*Produsele realizate raspund necesitatii de informatizare a activitatii de colectare, stocare, regasire si prelucrare date. Permit identificarea zonelor in care reteaua de canalizare se pune sub presiune la ploi torentiale si testarea unor solutii de management al apelor pluviale.*
DETALIILE COLABORĂRILOR	*Se au in vedere activitati de transfer tehnologic : cursuri pentru asimilarea si utilizarea tehnologiilor dezvoltate (cooperare tehnică cu formarea de personal capabil sa rezolve singur in continuare problemele curente ale exploatarii).*
TIPURI DE PARTENERI CĂUTAȚI	*Operatori regionali, companii de apa, administrații bazinale de apa*
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	*Partenerii trebuie sa fie interesati de realizarea de baze de date, hidrologie urbana si la nivel bazinal, hidraulica urbana si hidraulica raurilor, transportul poluantilor in rauri si acvifere.*
SARCINILE CE TREBUIESC ÎNDEPLINITE DE	*Partenerii urmeaza sa asimileze si sa aplice in cazuri concrete metotodogiile dezvoltate*

PARTENERUL CĂUTAT	
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	*Lipsa unui personal cu calificarea minimala necesara: cunostinte de informatica, hidrologie si hidraulica.* *Riscul pierderii personalului format prin plecarea acestuia la firme concurente care ofera salarii mai atractive* *Lipsa unui soft specializat : ArcGIS* *.*
RESURSE PENTRU URMĂTORII PAŞI	*Necesar : calculator performant (server)* *Soft specializat : ArcGIS 9.x* *Personal: ingineri hidrotehnicieni sau cu cunostinte de hidraulica, hidrologie si utilizare soft GIS*
CHELTUIELI PREVĂZUTE PENTRU URMĂTORII PAŞI	*Costuri pentru formare profesionala : aproximativ 7.500 EUR/o saptamana cursuri pentru maxim 5 cursanti (pret global)* *Costuri testare : gratuit (in cadrul saptamanii de curs)* *Costurile pentru îmbunătăţire : functie de solicitari* *Costuri asistenta tehnica : 5.000 EUR/ 3 luni* *Costuri pentru pentru punerea în aplicare : depind de infrastructura de calcul existenta (hard si soft).*
DATE DE CONTACT ALE ECHIPEI DE PROIECT	*Nume : prof. Radu Drobot* *UNIVERSITATEA TEHNICA DE CONSTRUCTII BUCURESTI* *DEPARTAMENTUL DE CERCETARE SI PROIECTARE IN CONSTRUCTII* *Adresa: Bd. Lacul Tei 124, Sector 2, RO-020396, Bucuresti* *Telefon: 0720 900 415; +40-21-242.12.08* *Fax: +40-21-242.07.81* *e-mail : drobot@utcb.ro* *pagina de web : www.utcb.ro*

Proiect PN II: SISTEM SUPORT TEHNICO – DECIZIONAL PENTRU MANAGEMENTUL DURABIL AL APEI – *STEDIWAT*

Nr. contract: 32-125/2008

DENUMIRE REZULTATE / PRODUS

REZUMATUL PROIECTULUI	Proiectul STEDIWAT (2008 – 2011) face parte din Domeniul prioritar 3 - MEDIU al Programului Parteneriate în Domenii Prioritare al PNCDI II, astfel încât obiectivele şi activităţile acestuia contribuie la protecţia mediului, conservarea resurselor de apă şi dezvoltarea durabilă. Proiectul STEDIWAT consideră condiţiile actuale pentru implementarea Directivei Cadru a Apei în România, precum şi problemele existente legate de luarea deciziilor, probleme operaţionale, de colaborare şi de participare a părţilor interesate în contextul managementului integrat al resurselor de apă. Obiectivul principal al proiectului STEDIWAT este acela de a dezvolta un sistem suport care să asigure fundamentarea ştiinţifică în luarea deciziilor şi care să contribuie la transferul de cunoştinţe, la cooperarea la nivel regional, naţional şi internaţional a părţilor interesate, precum şi la implementarea Managementului Integrat al Resurselor de Apă (MIRA) în România. Cu ajutorul instrumentelor tehnice şi manageriale, acest sistem suport va contribui la scăderea presiunilor de mediu în ceea ce priveşte resursele de apă, ecosistemele şi sănătatea umană, şi în acelaşi timp, va asigura o dimensiune durabilă pentru întreg ciclul de utilizare al apei (alimentare, utilizare, epurare şi reutilizare). Implementarea MIRA în România, pe lângă sprijinul legislativ şi organizaţional al autorităţilor locale/regionale, necesită un sistem suport format din instrumente tehnice şi de management într-un cadru adecvat, cum sunt: tehnici inovative pentru monitorizare şi managementul datelor, concepte integrative şi inovative pentru furnizarea, utilizarea şi reutilizarea apei, strategii de management, metode şi tehnici de evaluare şi reducere a impactului de mediu asupra resurselor de apă, pe întreg ciclul, transferul de cunoştinţe şi programe educaţionale pentru managementul durabil şi integrat al resurselor de apă, etc. Prin dezvoltarea acestui sistem suport care abordează probleme de cercetare ştiinţifică multidisciplinară, participarea integrată a părţilor interesate, precum şi utilizarea instrumentelor de management adaptiv, proiectul STEDIWAT contribuie la sprijinul ştiinţific pentru procesul decizional şi participativ pe întreg ciclul de furnizare, utilizare, epurare şi recirculare al apei. Proiectul prezintă o abordare originală şi integrativă a studiilor experimentale, având ca obiective asociate: creşterea capacităţii ştiinţifice a cercetătorilor tineri şi doctoranzilor, diseminarea rezultatelor ştiinţifice în reviste cotate ISI sau incluse în baze de date internaţionale BDI şi

	creşterea vizibilităţii internaţionale a echipei de cercetare.
DESCRIERE PRODUS/ REZULTATE	**Rezultatele cercetărilor aferente Proiectului STEDIWAT contract 32-125/2008 (derulat în perioada 2008-2011), se concretizează în:** - Publicarea / acceptarea spre publicare a 48 articole în reviste de specialitate de circulaţie internaţională, cotate ISI; - Publicarea a 6 articole în reviste de specialitate de circulaţie internaţională, recenzate în baze de date internaţionale, cotate BDI; - Realizarea unei metodologii pentru evaluarea integrată de impact şi risc ai principalilor utilizatori / poluatori la nivel de bazin hidrografic - metodologie aplicată pentru fiecare din cele 4 bazine hidrografice luate în lucru; - Realizarea a 8 studii de interes regional şi 7 studii de interes naţional; - Elaborarea unui sistem online de monitorizare a calităţii resurselor de apă şi a parametrilor hidrobiologici (prototip); - Dezvoltarea aplicaţiilor GIS pentru procesul decizional şi pentru informarea părţilor interesate şi a publicului în cadrul MIRA; - Elaborarea unui ghid de bune practici; - Finalizarea a 4 teze de doctorat în timpul derulării acestui proiect (2008-2011) - de menţionat este faptul că toti doctoranzii din echipa proiectului, care au susţinut teza de doctorat, au primit titlul de doctor (1 in 2009 şi 3 în 2011); - Perfecţionarea şi instruirea cercetătorilor români experimentaţi şi tineri (doctoranzi sau post-doc) în cadrul unor training-uri sau mobilităţi internaţionale legate de practici pentru managementul durabil al resurselor de apă la (Ungaria, Olanda, Croaţia, Austria, Suedia, Grecia); - Au fost realizate un număr de 8 participări la conferinţe naţionale şi 59 participări la conferinţe internaţionale, rezultatele activităţilor de cercetare fiind prezentate sub formă de comunicări orale şi postere.
TIPUL REZULTATELOR	Diseminarea rezultatelor cercetărilor consorţiului proiectului STEDIWAT a fost realizată la scară naţională şi internaţională constând în realizarea de sesiuni de training si workshop-uri de formare, publicarea de articole ştiinţifice în jurnale internaţionale cu cotaţie ISI sau indexate în baze de date internaţionale, în volumele conferinţelor internaţionale, prin publicarea de cărţi şi ghiduri privind tehnologiile inovative pentru utilizatorii de apă, rapoarte de cercetare şi studii de evaluare, prototipuri, modele, cresterea vizibilitatii cercetatorilor si participarii la consortii europene pentru propuneri FP7, etc. De asemenea Coordonatorul Proiectului Stediwat a organizat împreună cu Universitatea Pannonia din Veszprem Ungaria, cea de-a VI-a ediţie a Conferinţei Internaţionale de Ingineria şi Managementul Mediului **(ICEEM 06)** care a avut loc la Balatonalmady (Ungaria) în perioada 1 – 4 Septembrie 2011. Cu această ocazie au fost diseminate obiectivele, activităţile şi rezultatele proiectului STEDIWAT, audienţe ştiinţifice şi profesionale cu o bogată diversitate internaţională, fiind prezenţi peste 120 de specialişti din 10 ţări. Activităţile reprezentative în cadrul Programului ştiinţific al ICEEM 06 cu privire la Proiectul STEDIWAT au constat în prezentări ştiinţifice (Key note, prezentări orale), comunicări sub formă de poster, discuţii şi workshop-uri.
ADAPTAREA LA NEVOILE PIEŢEI	**Obiectivul general** al proiectului STEDIWAT este acela de a dezvolta un sistem suport care să asigure o bază ştiinţifică pentru luarea deciziilor în cadrul managementului integrat al resurselor de apă (MIRA) şi

	care să contribuie la transferul cunoştinţelor, la colaborarea naţională şi internaţională a părţilor interesate de implementarea (MIRA) în România, prin dezvoltarea unor instrumente tehnice şi manageriale, scazând astfel presiunile de mediu asupra resurselor de apă, ecosistemelor şi sănătăţii umane, asigurând o dimensiune durabilă a întregului ciclu de utilizare a resurselor de apă (alimentare, utilizare şi reutilizare). **Obiectivele specifice** ale proiectului STEDIWAT sunt următoarele: 1. Dezvoltarea unor instrumente suport tehnice inovative pentru monitorizare, modelare şi predicţie care să fie utilizate pentru managementul durabil şi integrat la nivel de bazin hidrografic; 2. Dezvoltarea capacităţii de colaborare, transfer de cunoştinţe şi comunicare între universităţi şi autorităţile locale / regionale de management a resurselor de apă, utilizatori şi alte părţi interesate în cele 4 bazine studiate (Prut, Banat, Argeş-Vedea, Olt) cu impact asupra dezvoltării durabile la nivel local şi regional; 3. Completarea infrastructurii de cercetare a universităţilor partenere şi facilitarea participării în alte programe de cercetare la nivel naţional şi internaţional; 4. Dezvoltarea capacităţii şi competitivităţii cercetătorilor români la nivel internaţional, precum şi a parteneriatelor naţionale care să contribuie la dezvoltarea durabilă (protecţia şi conservarea resurselor de apă); 5. Diseminarea rezultatelor relevante ale proiectului la nivelul comunităţii ştiinţifice din domeniu prin publicarea în jurnale internaţionale şi naţionale cu referenţi şi cu cotaţie ISI, şi de asemenea la nivelul părţilor interesate în domeniul MIRA (agenţi industriali, autorităţi din domeniul apelor, companii de apă-canal, agricultură şi servicii, agenţii de protecţie a mediului, agenţii locale şi regionale de dezvoltare, ONG-uri şi organizaţii sociale).
ASPECTE ŞI AVANTAJE INOVATIVE	Prin luarea în considerare a necesităţii activităţilor de cercetare în acest domeniu de prioritate naţională şi internaţională, proiectul STEDIWAT propune următoarea abordare inovativă şi complexă: ➢ Abordează aspecte integrate ale întregului ciclu al resurselor de apă (furnizare, tratare, utilizare şi reutilizare) la nivelul părţilor interesate considerând interacţiunile complexe ale acestora în 4 bazine hidrografice din România (Prut, Banat, Argeş-Vedea, Olt); ➢ Dezvoltă un sistem suport complex şi original pe baza unor realizări de ultim moment în cercetarea multidisciplinară şi a unor tehnici inovative: monitorizare online cu reţele de senzori wireless, utilizarea tehnicilor GIS, analiza şi modelarea datelor, dezvoltare de scenarii considerând componentele dezvoltării durabile, tehnologii inovative pentru epurarea apelor uzate în vederea recirculării, instrumente pentru managementul informaţiei şi al comunicării. ➢ Facilitarea transferului de cunoştinţe, comunicării şi colaborării între grupurile de cercetători, factori de decizie şi alte părti interesate, luând în considerare presiunile actuale ale furnizării şi cererii de apă, precum şi comportamentul diferitelor părţi interesate. Proiectul STEDIWAT îşi propune o abordare originală, integrată şi durabilă care consideră activităţile, enumerate anterior, dezvoltate la nivelul funcţional al bazinului hidrografic şi care se referă la principalele părţi interesate de utilizarea, administrarea şi protejarea resurselor de apă, considerând, de asemenea şi dimensiunile dezvoltării durabile.
STADIUL DE	Momentan toate studiile din cadrul acestui proiect au fost efectuate la scară de laborator.

DEZVOLTARE	
TRANSFERABILITATEA	Unul dintre obiectivele proiectului a fost transferul de cunoştinţe şi diseminarea rezultatelor prin: rapoarte de cercetare şi studii de evaluare, instrumente tehnice şi de management inovative, prezentări în cadrul workshop-urilor şi sesiunilor de training, către mediul economico-social la nivel de autorităţi locale / regionale de management a resurselor de apă, utilizatori şi alte părţi interesate.
STRATEGIE DE DISEMINARE	Rezultatele activităţilor de cercetare ale proiectului STEDIWAT au fost diseminate prin **participări la conferinţe naţionale şi internaţionale** şi prin **publicare de articole** în volume ISI Proceedings ale conferinţelor sau în alte jurnale de specialitate. S-au înregistrat următoarele realizări: a. **propunerea unui proiect în competiţie internaţională**, b. organizarea de **seminare, training-uri** şi **workshop-uri**, c. **participări la diferite evenimente ştiinţifice naţionale şi internaţionale** însoţite de prezentări orale sau postere d. **publicarea de articole în reviste cu impact**, indexate ISI, indexate în baze de date internaţionale sau în volumele conferinţelor internaţionale. De asemenea, diseminarea rezultatelor proiectului va fi realizată şi la nivelul părţilor implicate în managementul resurselor de apă (agenţi industriali, autorităţi în domeniul apelor, companii de apă-canal, agricultură şi servicii, APM-uri, agenţii de dezvoltare locale şi regionale, ONG-uri şi grupuri sociale).
DREPTURI DE PROPRIETATE INTELECTUALĂ	Toate rezultatele obţinute în cadrul acestui proiect sunt proprietatea exclusivă a membrilor echipei proiectului.
CLIENŢI ANTICIPAŢI	Cercetare/Industrie/Operatori regionali apa-canal Autorităţile locale / regionale de management a resurselor de apă, utilizatori şi alte părţi interesate la nivel de bazin hidrografic
PAŞII URMĂTORI PENTRU A DEZVOLTA PRODUCŢIA PENTRU PIAŢĂ	Sunt necesare noi programe de finanţare pentru continuarea studiilor iniţiate în cadrul acestui proiect.
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAŢĂ (RISC SI SOLUTII)	Nu au fost identificate riscuri asociate realizării şi implementării proiectului STEDIWAT datorită distribuţiei geografice uniforme a partenerilor de proiect şi a bazinelor hidrografice studiate. **Impactul de mediu şi tehnic al proiectului:** activităţile şi rezultatele proiectului asigură un impact pozitiv semnificativ din punct de vedere tehnic şi de mediu prin dezvoltarea unui sistem suport fundamentat ştiinţific nu numai pentru procesul decizional, dar şi pentru măsurile operaţionale şi pentru managementul resurselor umane într-o manieră eficientă şi raţională. **Impactul economic:** Cercetările în domeniul managementului resurselor de apă reprezintă un suport informaţional important pentru autorităţi, agenţi industriali, furnizori de servicii, sau alte părţi interesate de îmbunătăţirea eficienţei lor economice şi a echilibrului între cererea şi alimentarea cu apă. Identificarea a unor noi soluţii pentru managementul şi monitorizarea resurselor de apă, aplicarea unor tehnologii inovative de epurare şi recirculare a apelor uzate determină o îmbunătăţire a calităţii

	resurselor de apă care induce efecte economice benefice. **Impactul social:** Acest proiect are în vedere o manieră nouă şi integrativă pentru managementul durabil al resurselor de apă, iar acest fapt va conduce la îmbunătăţirea nivelului de cunoştinţe ale părţilor implicate în acest domeniu, va deschide noi oportunităţi de instruire pentru cercetătorii şi specialiştii implicaţi, precum şi pentru îmbunătăţirea participării publicului şi părţilor interesate în luarea deciziilor în cadrul MIRA.
DETALIILE COLABORĂRILOR	Cooperare tehnică, asistenţă, acord de finanţare
TIPURI DE PARTENERI CĂUTAŢI	Diverse părţi implicate în Managementul integrat al resurselor de apă (MIRA) cum sunt: organizaţii de cercetare, administraţii bazinale, autorităţile locale / regionale de management al resurselor de apă, APM-uri, utilizatori (industrie, agricultură, municipalităţi, servicii), ONG-uri, precum şi publicul larg sunt interesate de scăderea presiunilor de mediu asupra resurselor de apă, ecosistemelor şi sănătăţii umane, datorită activităţilor curente şi a interesului pentru apă ca resursă naturală fundamentală.
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	➢ Epurarea apelor uzate ➢ Managementul integrat al resurselor de apă ➢ Utilizare software
SARCINILE CE TREBUIESC ÎNDEPLINITE DE PARTENERUL CĂUTAT	➢ Teste la scară pilot sau industriala ➢ Implementarea solutiilor tehnice si manageriale ➢ Adoptarea materialelor de informare, training sau management al comunicarii
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	Pentru toate activităţile proiectului, membrii echipei de cercetare au respectat principiile fundamentale de etică specifice activităţilor de cercetare, dezvoltare şi inovare, precum şi principiile etice legate de accesul la drepturile de proprietate intelectuală şi a celor de diseminare, în acord cu legislaţia în vigoare la nivel naţional şi internaţional. Rezultatele cercetării ştiinţifice sunt proprietatea intelectuală a membrilor echipei de proiect.
DATE DE CONTACT ALE ECHIPEI DE PROIECT	**Director proiect: Prof. univ.dr. ing. Carmen Teodosiu** Universitatea Tehnica “Gheorghe Asachi” din Iasi, Departamentul Ingineria si Managementul Mediului Bdul Dimitrie Mangeron, nr. 73 telefon:0232/237594 e-mail: cteo@ch.tuiasi.ro; *pagina de web: http://omicron.ch.tuiasi.ro/stediwat/*

National seminar

Recultivation of lakes

1. Objective of the event:

The major objective of this event was first of all to fulfil the obligation we had towards the number of the organised seminars and secondary to connect the announcement of the Pomeranian Voivodeship Board, about naming year 2013 official lake year, and activities of Gdansk Water Foundation in the Water Research to Market project. After 2,5 years of project duration it was clear which outputs would qualify for this event and which of them would be considered as very interesting. Furthermore, outputs that has been chosen were already promoted to the BC level which already proves that there was a primary interest in it. Among output chosen we have invited authors of following projects:
-EHREK
-EKOROB
-GNIEZNO
-ZIZOZAP
- deWELopment

Furthermore we have gathered promotional materials with official logos, web page information as well as brochures and outputs sheets. Each participant, was given a set of information attached it his/hers training materials, business card with contact information and gifts (gadgets) including project web page address and contact details. Before handing the materials out we have asked about permission to send information under given e-mail address obtained on the document they had to provide to participate to the seminar.
Another objective of our actions was to focus on individual persons, in this case technologists and representatives from the administration sector, that represent our target group (end –users for their outputs but also project owners) to help us identify their needs. During each of the presentations coming from the output owners a discussion was moderated.

2. Targeted Audience

The target audience of this event are units connected with water management from the administration sector as well as technologists and researchers working on a remediation methods, monitoring of water aquifers and water quality.
To specify: local and national authorities, private and public companies, universities, researchers.

3. Expected behaviour of the targets

The expected behaviour of target group was to increase their interest in innovative solutions already tested and existing on our market. All of the outputs mentioned have already proved their use and good level of cooperation with the authorities. This seminar was to encourage the local authorities to try and transfer technologies used in one cities and one type of lakes into their own practise. A number of researchers and technologists were there to prove that due to the fact that each lake is different, a specific technology can or cannot be used. This way, a solution connecting administrative

way and precision with a simple and innovative technology has been achieved.

4. Message to deliver (simple, clear, concise, single)

The message to deliver was to convince the local administration, with the help of technologist and researchers, to use the innovative products (methodologies, guidelines) already existing on the market in order to enhance the ecological status of the water aquifers with the agreement with administration paths required by the local authorities.

5. Agenda, planning, date and place

19-21.03.2013, Amber HOTEL, Gdańsk, Poland

6. Indicators to evaluate the achievement of the objective

- Dissemination of over 35 materials with complete FC set
- Dissemination of around 35 business cards with contact details
- Dissemination of around 40 leaflets and WaterRtoM brochures, with gadgets including contact details, web page information.
- Dissemination of over 35 separate documents and leaflets of EHREK, EKOROB, GNIEZNO and ZIZOZAP project.
- 35 new contacts for information dissemination

7. Implementation of the action

Action was very successful, all of the participants showed a significant interest in the promoted outputs and exchanged contact details. PROTE company, responsible for the remediation method used in the Gniezno project, has exchanged contact details with the vice mayor of Wolsztyn town and will participate in the remediation of the Wolsztyn lakes during spring 2013.

One of the products of EHREK project, an educational game uploaded on the http://www.arturowek.pl/ web page, will be tested among Environmental and Educational Units of the Pomeranian Region area.

8. Additional comments

Using the chance which the characteristic of our company gives us (training unit), we will try to include more and more output author presentations in our trainings.

"Innovative solutions available for improuving non revenus waters"

Romania (Bucharest, 9 June 2013)

Dissemination: National Seminar	Type communication action: presentation and discussion

1. Objective of the seminar:

- Promoting the transferable results of research projects selected by the Water Research to Market services to the water supply services and

By presenting and discussing thematic of water research output supporting the activities in the field of non revenus waters and a number of 3 projects selected in Water Research to Market Project, dedicated to the target group (representatives of the water utilities and academics)

- Promoting Water Research to Market as a service.

The dissemination of 3 Profile Outputs of Water Research to Market Project.
To disseminate the idea of « Water RtoM, as a new service, from the Research to the Market".

2. Context

Water RtoM defined a communication plan (PMS) for all the duration of the project (sept 2010- aug. 2013) :

CFPPDA has planned some specific events in Romania, in order to take advantage of the reached attendance.

4 national events, in Romania, CFPPDA will organise :

- 1) "Transferring water research outcomes in practice" (Bucharest) - 27 March 2012,

- 2) " Water research output supporting the implementation of public health request" (Bucharest) – 12 March 2013

- 3) "Evaluating opportunities for research results transfer in future investment projects for regional operators" (Iași) - 15 March 2013

- 4) "Innovative solutions available for improuving non revenus waters" (Bucharest) - 9 June 2013

1 European events and one scheduled broker sesione organised by CFPPDA during :

- 1) EXPOAPA 2012 (Bucharest) 11-13 June 2012
Each partner has the same item in their own country.

3. Targets of the water RtoM seminar:

The target group was formed by regional water and wastewater operators, universities, representative of the Romanian Association Water (LC Member)

During the event agenda, attended by 67 people. List of participants is attached in Annex 1.

4. Our expectations

- Debate about the relevance of the innovations selected by Water RtoM and their potentiality to be used by the participants or potential users, and how they can be further promoted or improved to be up taken.

- To identify other interesting innovations pointed out by the audience in the field of non revenues water..

- Identify the solutions to fill the gaps on the addressed outputs (what are the missing developments, what are the barriers to implementation, what improvements to make ...),
- Encourage the partnerships between the participants to use the presented innovations (and/or to make further development).

5. Message to deliver

Water RtoM is a LIFE demonstrative project with the ambition to develop a service to facilitate the transfer between the researchers and the end-users (water providers, stakeholders).
Underline the importance of water loss activities by facilitating excenges of best practices - study cases.
After the end of a research project more work in transferring the knowledge must be undertaken, and the output must be package in something more tangible and a product or a service.
In order to develop a useful service, Water RtoM needs to test its tools with the targets.

6. Date, agenda and place

Date : 9 June 2013
Duration of the seminar: 1 day
Language: Romanian
Entry fee : free
Draft agenda:
The day will be composed of two parts and provided a brief overview of each project and presenting the thems developed within the management of water distribution network in order to improuve non revenues waters. The discussion focused on the results presented in the study case (Bucharest) and the transferability to the other utilities.

Session I:	**Moderator PhD. Vasile CIOMOȘ - President of Romanian Water Association**
09^{00} - 09^{30}	Welcome
09^{30} - 09^{50}	Project "Water Research to Market" Presentation - Foundation CFPPDA
09^{50} - 10^{10}	Water losses in the countries of the Danube River Basin, The World Bank, David Michaud
10^{10} - 10^{30}	APORT, Romanian Water Association
10^{30} - 11^{00}	Coffee Break
11^{00} - 11^{30}	Best practices in the organization of detecting water losses in the distribution networks of SC Apa Nova Bucuresti SA
11^{30} - 12^{00}	Best practices in the management of water losses in the water company PWN - Netherlands, Peter Horst
12^{00} - 13^{30}	Lunch Break
Session III:	**Moderator: PhD. Anton ANTON - Technical University of Civil Engineering of Bucharest**
13^{30} - 13^{50}	IWA concerns regarding activities related to the management of water losses, President IWA - Glen Daigger
13^{50} - 14^{10}	URBWATER - Technical University of Civil Engineering of Bucharest
14^{10} - 14^{30}	Equipment to detect water losses made by company SebaKMT, Bogdan Ardeleanu

14^{30} - 15^{00} Conclusions / Closing

7. Means and resources

Documents to prepare:

a) WaterRtoM: newsletter no3, leaflet/brochure, roll up, Registration form for participation in the seminar (collection the contact details), List of participants and contact details - Annex 1, Event agenda.

b) 3 projects: factsheet, powerpoint for demonstration/presentation

Presented innovations: 3 research outputs. Their acronyms are: STEDIWAT, URBWATER, APORT

Logistical means:

- Laptop equipped to allow viewing demonstration/presentation.
- Photo camera

8. Agenda & planning

- April: Identify and discuss with specialists ARA the topic, target group and the guests,
- May: Inviting research teams and water utilities to join the national seminar on 9 June 2013 (send invitations),
- Early May: receiving confirmation of participation of research teams, sending invitations to practitioners,
- Until 27 May: receiving confirmation of participation and organizational activities,
- 9 June: Deployment of the seminar.

9. Budget (€)

- renting the conference room
- coffee break
- lunch

10. Indicators to evaluate the event

Number of participants: 67 persons (Anexa 1)
Number of distributed leaflets: 67
Number of distributed factsheets: 3 projects X 67 persons
Number of newsletter no3: 67
Number of promoted results: 3

11. Potential risks

- Not to have enough interesting/ transferable projects/innovations.
  - 6 projects were invited to participate and 3 projects answered.
- Limited interest of research institutions to accelerate the transfer of research results.
  - promotion / awareness on the research teams of the possible future benefits in case of a successful transfer

12. Feedback and lessons learnt

- Formalizing the institutional / create a platform where implementers will express the problems they face (formulation requirement) and to facilitate the development cooperation.
- Insufficient development of national legal framework and specialist departments from the research institutions facilitating the transfer results to market.
- Interes from the public utilities to by aware about the new eficient solutions develop by research teams

Annexes:

Annex 1 - List of participants - contact details

Annex 2 - 3 project sheets

Annex 3 - Photos

Annex 3 - Photos


Water Research
to Market


Water Research
to Market


Asset Management -- NRW
Water Training Center
Water Research to Market


Water Training Center


Water
Training
Center
Water Research
to Market


Water Research
to Market


Water
Training
Center
Water
R to M


Water
Training
Center
Water Research
to Market

A-PORT: web portal	
OUTPUT DESCRIPTION	*The project develop a model for measuring client satisfaction and a permanent framework for measuring citizens 'perception regarding quality of water supply, sewage and wastewater treatment through e-tool (web portal).* *Permanent online monitoring of the citizen perception on water and wastewater services quality*
WATER TOPIC	*Management process, Water services*
TYPE OF OUTPUT	*Decision support systems*
MARKET NEED TAILORED	*Monitoring the satisfaction of citizen for water supply and wastewater services*
INNOVATIVE ASPECTS AND ADVANTAGES	*Using e-tool and web base database for gathering information on quality of services at national level; time line evolution of quality both at regional and national level; public transparency increased.*
STATE OF DEVELOPMENT	*Ready to use*
TRANSFERABILITY	*Prototype under testing with very good results at Romanian Water Association*
DISSEMINATION STRATEGY	*Involvement of the water utility in the pilot testing period; promotion among the sector; limited resources for advertising*
INTELLECTUAL PROPERTY RIGHTS	*IP rights received*
FORESEEN CLIENTS	*National water associations; governmental bodied with responsibilities in public water sector; decision makers within water infrastructure; water utilities*
NEXT STEPS TO DEVELOP THE OUTPUT FOR THE MARKET	• *Identifying new partners interest on quality of services* • *Decision makers participation to meetings with end users* • *Promote and adapt within water utility and national water association ;*
COMMENT ABOUT MARKET APPLICATION (RISK AND SOLUTIONS)	• *DSS for decision makers for investments in water and wastewater infrastructures* • *Alternative market survey for ISO9001 requirement*

	• *Low investment need, increasing transparency on quality of services;* • *Interest of water utility management on public perception, improving water utility image*
COLLABORATION DETAILS	*Partnerships with water utilities and policy makers* *(Technical co-operation, assistance, commercial agreement, financing)*
TYPE OF PARTNER SOUGHT	*Water utilities, policy makers*
SPECIFIC AREAS OF ACTIVITY OF THE PARTNER SOUGHT	*Regional organisations with coordinating tasks/ responsibility on investment in the water supply and sewerage services (local and central authorities, national association)*
TASKS TO BE PERFORMED BY THE SOUGHT PARTNER	*1. Implementing the web portal at regional level* *2. Finding water utility interested for dissemination* *3. Medium term follow up*
FORESEEN RISKS FOR OUTPUT USERS	Low risks on legal aspects; Medium risks on market aspect / end users inters (general public) must be keep awake.
RESOURCES FOR NEXT STEPS	Low cost for investment, constant promotion among water utilities; marketing of services done by each water utility; medium and long term results
FORESEEN COSTS FOR NEXT STEPS	*Low cost for web server development and maintenance of the portal; cost for preparing reports is under the assume feedback for end user*
PROJECT CONTACT	*Name: Dorothea Caraman - SIVECO Romania SA* *Address: Victoria Park, 73-81 Bucuresti-Ploiesti Drive, Building C4, District 1, 013685, Bucharest* *Phone: +40 (21) 302 3300* *Fax: +40 (21) 302 3391* *Email/s: dorothea.caraman@siveco.ro* *Website: www.aport.ara.ro* *http://rd.siveco.ro/portal/web/a-port/home*

Other comments:

PROIECT URBWATER

REZUMATUL PROIECTULUI	*Obiectivul proiectului URBWATER l-a constituit abordarea integrata a problematicii apelor urbane, incluzand: a) inundaţiile urbane cauzate de reţeaua hidrografică care strabate zona urbana; b) inundatiile produse de precipitatiile torentiale in bazinul propriu al oraşului şi / sau zonelor înconjurătoare si care conduc la depăşirea capacităţii de transport a colectoarelor; c) transportul poluantilor in apele de suprafata si subterane; d) delimitarea zonelor de protectie sanitara la captarile de apa subterana.*
DESCRIERE PRODUS/ REZULTATE	*Ca realizari importante in cadrul proiectului se enumera:* *a) Crearea unei baze de date in mediu GIS (Sistem Informaţional Geografic), cuprinzand: Modelul Numeric al Terenului (MNT), acoperirea şi utilizarea terenului urban, infrastructura de evacuare a apelor pluviale şi menajere., precum si a unei baze de ate necesare calculelor de delimitarea a zonelor inundabile la nivel de bazin hidrografic* *b) Elaborarea metodelor şi modelelor pentru identificarea şi delimitarea zonelor inundabile ca urmare a viiturilor produse pe reţeaua hidrografică din amonte a oraşelor sau ca urmare a cedarii lucrarilor hidrotehnice de aparare : diguri sau baraje.* *c) Elaborarea metodologiei pentru identificarea şi delimitarea zonelor inundate în aria urbană produse atât prin scurgerea pluvială de pe zonele urbanizate cât şi a de pe suprafaţa versanţilor neurbanizaţi limitrofi oraşelor, care constituie un subbazin hidrografic unic.* *d) Modelarea transportului poluantilor in sursele de apa de suprafaţă si subterană utilizate pentru alimentarea cu apa in zonele urbane si delimitarea zonelor de protectie sanitara.* *e) Elaborarea unei metodologii pentru gestiunea integrata a apelor urbane, avand in vedere nu numai zona strict urbană ci şi întregul bazin hidrografic din care aceasta face parte.*
PROIECTUL TRATEAZĂ TEMATICA APEI	*Proiectul trateaza problematica apelor urbane:* *a) apele meteorice, modul de evacuare in perioada precipitatiilor torentiale (prin reteaua de canalizare sau dupa depasirea capacitatii de transport a acesteia pe reteaua stradala sau prin acumularea apei in zonele depresionare)* *b) delimitarea zonelor inundabile in orase strabatute de cursuri de apa de suprafata dupa depasirea capacitatii sistemelor de aparare (diguri sau baraje)* *c) transportul poluantilor in apele de suprafata si in apele subterane*
TIPUL REZULTATELOR	*metodologii, produse informatice*
ADAPTAREA LA NEVOILE PIEȚEI	*Proiectul raspunde necesitatii gestiunii apelor urbane in perioada de ploi torentiale, a prevenirii inundatiilor din reteaua hidrografica si a asigurarii calitatii apei potabile.*

ASPECTE ȘI AVANTAJE INOVATIVE	*Crearea unei baze de date pentru gestiunea apelor pluviale, respectiv a unei baze de adte la nivel de bazin hidrografic, experienta de modelare si delimitare zone inundabile.*
STADIUL DE DEZVOLTARE	*Programe aplicabile la scara bazinelor urbane, cu intercatiuni la nivelul bazinelor hidrografice. Aplicatii pentru orasul Bucuresti (reteaua de canalizare, cedarea barajului de la Lacul Morii), modelarea propagarii poluantilor pe raul Ialomita, delimitarea zonelor de protectie sanitara la captarea Miroslovesti etc*
TRANSFERABILITATEA	*Metodele si instrumentele elaborate pot fi transferate fara probleme pentru orice zona urbana, avand caracter de generalitate.*
STRATEGIE DE DISEMINARE	*Diseminarea este bazata pe publicatii in reviste sau conferinte de specialitate*
DREPTURI DE PROPRIETATE INTELECTUALĂ	*Posibilitati de colaborare pe baza de contract in cadrul Universitatii Tehnice de Constructii Bucuresti*
CLIENȚI ANTICIPAȚI	*Companiile de apa din orase, operatori regionali de apa, administratii bazinale de apa*
PAȘII URMĂTORI PENTRU A DEZVOLTA PRODUCȚIA PENTRU PIAȚĂ	*Formarea la clienti pe baza de studii de caz rezolvate in comun a unor utilizatori capabili sa utilizeze conceptel e si produsele informatice realizate in cadrul proiectului URBWATER*
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAȚĂ (RISC SI SOLUTII)	*Produsele realizate raspund necesitatii de informatizare a activitatii de colectare, stocare, regasire si prelucrare date. Permit identificarea zonelor in care reteaua de canalizare se pune sub presiune la ploi torentiale si testarea unor solutii de management al apelor pluviale.*
DETALIILE COLABORĂRILOR	*Se au in vedere activitati de transfer tehnologic : cursuri pentru asimilarea si utilizarea tehnologiilor dezvoltate (cooperare tehnică cu formarea de personal capabil sa rezolve singur in continuare problemele curente ale exploatarii).*
TIPURI DE PARTENERI CĂUTAȚI	*Operatori regionali, companii de apa, administrații bazinale de apa*
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	*Partenerii trebuie sa fie interesati de realizarea de baze de date, hidrologie urbana si la nivel bazinal, hidraulica urbana si hidraulica raurilor, transportul poluantilor in rauri si acvifere.*
SARCINILE CE TREBUIESC ÎNDEPLINITE DE	*Partenerii urmeaza sa asimileze si sa aplice in cazuri concrete metotodogiile dezvoltate*

PARTENERUL CĂUTAT	
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	*Lipsa unui personal cu calificarea minimala necesara: cunostinte de informatica, hidrologie si hidraulica.* *Riscul pierderii personalului format prin plecarea acestuia la firme concurente care ofera salarii mai atractive* *Lipsa unui soft specializat : ArcGIS* *.*
RESURSE PENTRU URMĂTORII PAŞI	*Necesar : calculator performant (server)* *Soft specializat : ArcGIS 9.x* *Personal: ingineri hidrotehnicieni sau cu cunostinte de hidraulica, hidrologie si utilizare soft GIS*
CHELTUIELI PREVĂZUTE PENTRU URMĂTORII PAŞI	*Costuri pentru formare profesionala : aproximativ 7.500 EUR/o saptamana cursuri pentru maxim 5 cursanti (pret global)* *Costuri testare : gratuit (in cadrul saptamanii de curs)* *Costurile pentru îmbunătăţire : functie de solicitari* *Costuri asistenta tehnica : 5.000 EUR/ 3 luni* *Costuri pentru pentru punerea în aplicare : depind de infrastructura de calcul existenta (hard si soft).*
DATE DE CONTACT ALE ECHIPEI DE PROIECT	*Nume : prof. Radu Drobot* *UNIVERSITATEA TEHNICA DE CONSTRUCTII BUCURESTI* *DEPARTAMENTUL DE CERCETARE SI PROIECTARE IN CONSTRUCTII* *Adresa: Bd. Lacul Tei 124, Sector 2, RO-020396, Bucuresti* *Telefon: 0720 900 415; +40-21-242.12.08* *Fax: +40-21-242.07.81* *e-mail : drobot@utcb.ro* *pagina de web : www.utcb.ro*

Proiect PN II: SISTEM SUPORT TEHNICO – DECIZIONAL PENTRU MANAGEMENTUL DURABIL AL APEI – *STEDIWAT*

Nr. contract: 32-125/2008

DENUMIRE REZULTATE / PRODUS

REZUMATUL PROIECTULUI	Proiectul STEDIWAT (2008 – 2011) face parte din Domeniul prioritar 3 - MEDIU al Programului Parteneriate în Domenii Prioritare al PNCDI II, astfel încât obiectivele şi activităţile acestuia contribuie la protecţia mediului, conservarea resurselor de apă şi dezvoltarea durabilă. Proiectul STEDIWAT consideră condiţiile actuale pentru implementarea Directivei Cadru a Apei în România, precum şi problemele existente legate de luarea deciziilor, probleme operaţionale, de colaborare şi de participare a părţilor interesate în contextul managementului integrat al resurselor de apă. Obiectivul principal al proiectului STEDIWAT este acela de a dezvolta un sistem suport care să asigure fundamentarea ştiinţifică în luarea deciziilor şi care să contribuie la transferul de cunoştinţe, la cooperarea la nivel regional, naţional şi internaţional a părţilor interesate, precum şi la implementarea Managementului Integrat al Resurselor de Apă (MIRA) în România. Cu ajutorul instrumentelor tehnice şi manageriale, acest sistem suport va contribui la scăderea presiunilor de mediu în ceea ce priveşte resursele de apă, ecosistemele şi sănătatea umană, şi în acelaşi timp, va asigura o dimensiune durabilă pentru întreg ciclul de utilizare al apei (alimentare, utilizare, epurare şi reutilizare). Implementarea MIRA în România, pe lângă sprijinul legislativ şi organizaţional al autorităţilor locale/regionale, necesită un sistem suport format din instrumente tehnice şi de management într-un cadru adecvat, cum sunt: tehnici inovative pentru monitorizare şi managementul datelor, concepte integrative şi inovative pentru furnizarea, utilizarea şi reutilizarea apei, strategii de management, metode şi tehnici de evaluare şi reducere a impactului de mediu asupra resurselor de apă, pe întreg ciclul, transferul de cunoştinţe şi programe educaţionale pentru managementul durabil şi integrat al resurselor de apă, etc. Prin dezvoltarea acestui sistem suport care abordează probleme de cercetare ştiinţifică multidisciplinară, participarea integrată a părţilor interesate, precum şi utilizarea instrumentelor de management adaptiv, proiectul STEDIWAT contribuie la sprijinul ştiinţific pentru procesul decizional şi participativ pe întreg ciclul de furnizare, utilizare, epurare şi recirculare al apei. Proiectul prezintă o abordare originală şi integrativă a studiilor experimentale, având ca obiective asociate: creşterea capacităţii ştiinţifice a cercetătorilor tineri şi doctoranzilor, diseminarea rezultatelor ştiinţifice în reviste cotate ISI sau incluse în baze de date internaţionale BDI şi

	creşterea vizibilităţii internaţionale a echipei de cercetare.
DESCRIERE PRODUS/ REZULTATE	**Rezultatele cercetărilor aferente Proiectului STEDIWAT contract 32-125/2008 (derulat în perioada 2008-2011), se concretizează în:** - Publicarea / acceptarea spre publicare a 48 articole în reviste de specialitate de circulaţie internaţională, cotate ISI; - Publicarea a 6 articole în reviste de specialitate de circulaţie internaţională, recenzate în baze de date internaţionale, cotate BDI; - Realizarea unei metodologii pentru evaluarea integrată de impact şi risc ai principalilor utilizatori / poluatori la nivel de bazin hidrografic - metodologie aplicată pentru fiecare din cele 4 bazine hidrografice luate în lucru; - Realizarea a 8 studii de interes regional şi 7 studii de interes naţional; - Elaborarea unui sistem online de monitorizare a calităţii resurselor de apă şi a parametrilor hidrobiologici (prototip); - Dezvoltarea aplicaţiilor GIS pentru procesul decizional şi pentru informarea părţilor interesate şi a publicului în cadrul MIRA; - Elaborarea unui ghid de bune practici; - Finalizarea a 4 teze de doctorat în timpul derulării acestui proiect (2008-2011) - de menţionat este faptul că toti doctoranzii din echipa proiectului, care au susţinut teza de doctorat, au primit titlul de doctor (1 in 2009 şi 3 în 2011); - Perfecţionarea şi instruirea cercetătorilor români experimentaţi şi tineri (doctoranzi sau post-doc) în cadrul unor training-uri sau mobilităţi internaţionale legate de practici pentru managementul durabil al resurselor de apă la (Ungaria, Olanda, Croaţia, Austria, Suedia, Grecia); - Au fost realizate un număr de 8 participări la conferinţe naţionale şi 59 participări la conferinţe internaţionale, rezultatele activităţilor de cercetare fiind prezentate sub formă de comunicări orale şi postere.
TIPUL REZULTATELOR	Diseminarea rezultatelor cercetărilor consorţiului proiectului STEDIWAT a fost realizată la scară naţională şi internaţională constând în realizarea de sesiuni de training si workshop-uri de formare, publicarea de articole ştiinţifice în jurnale internaţionale cu cotaţie ISI sau indexate în baze de date internaţionale, în volumele conferinţelor internaţionale, prin publicarea de cărţi şi ghiduri privind tehnologiile inovative pentru utilizatorii de apă, rapoarte de cercetare şi studii de evaluare, prototipuri, modele, cresterea vizibilitatii cercetatorilor si participarii la consortii europene pentru propuneri FP7, etc. De asemenea Coordonatorul Proiectului Stediwat a organizat împreună cu Universitatea Pannonia din Veszprem Ungaria, cea de-a VI-a ediţie a Conferinţei Internaţionale de Ingineria şi Managementul Mediului **(ICEEM 06)** care a avut loc la Balatonalmady (Ungaria) în perioada 1 – 4 Septembrie 2011. Cu această ocazie au fost diseminate obiectivele, activităţile şi rezultatele proiectului STEDIWAT, audienţe ştiinţifice şi profesionale cu o bogată diversitate internaţională, fiind prezenţi peste 120 de specialişti din 10 ţări. Activităţile reprezentative în cadrul Programului ştiinţific al ICEEM 06 cu privire la Proiectul STEDIWAT au constat în prezentări ştiinţifice (Key note, prezentări orale), comunicări sub formă de poster, discuţii şi workshop-uri.
ADAPTAREA LA NEVOILE PIEŢEI	**Obiectivul general** al proiectului STEDIWAT este acela de a dezvolta un sistem suport care să asigure o bază ştiinţifică pentru luarea deciziilor în cadrul managementului integrat al resurselor de apă (MIRA) şi

	care să contribuie la transferul cunoştinţelor, la colaborarea naţională şi internaţională a părţilor interesate de implementarea (MIRA) în România, prin dezvoltarea unor instrumente tehnice şi manageriale, scazând astfel presiunile de mediu asupra resurselor de apă, ecosistemelor şi sănătăţii umane, asigurând o dimensiune durabilă a întregului ciclu de utilizare a resurselor de apă (alimentare, utilizare şi reutilizare). **Obiectivele specifice** ale proiectului STEDIWAT sunt următoarele: 1. Dezvoltarea unor instrumente suport tehnice inovative pentru monitorizare, modelare şi predicţie care să fie utilizate pentru managementul durabil şi integrat la nivel de bazin hidrografic; 2. Dezvoltarea capacităţii de colaborare, transfer de cunoştinţe şi comunicare între universităţi şi autorităţile locale / regionale de management a resurselor de apă, utilizatori şi alte părţi interesate în cele 4 bazine studiate (Prut, Banat, Argeş-Vedea, Olt) cu impact asupra dezvoltării durabile la nivel local şi regional; 3. Completarea infrastructurii de cercetare a universităţilor partenere şi facilitarea participării în alte programe de cercetare la nivel naţional şi internaţional; 4. Dezvoltarea capacităţii şi competitivităţii cercetătorilor români la nivel internaţional, precum şi a parteneriatelor naţionale care să contribuie la dezvoltarea durabilă (protecţia şi conservarea resurselor de apă); 5. Diseminarea rezultatelor relevante ale proiectului la nivelul comunităţii ştiinţifice din domeniu prin publicarea în jurnale internaţionale şi naţionale cu referenţi şi cu cotaţie ISI, şi de asemenea la nivelul părţilor interesate în domeniul MIRA (agenţi industriali, autorităţi din domeniul apelor, companii de apă-canal, agricultură şi servicii, agenţii de protecţie a mediului, agenţii locale şi regionale de dezvoltare, ONG-uri şi organizaţii sociale).
ASPECTE ŞI AVANTAJE INOVATIVE	Prin luarea în considerare a necesităţii activităţilor de cercetare în acest domeniu de prioritate naţională şi internaţională, proiectul STEDIWAT propune următoarea abordare inovativă şi complexă: ➢ Abordează aspecte integrate ale întregului ciclu al resurselor de apă (furnizare, tratare, utilizare şi reutilizare) la nivelul părţilor interesate considerând interacţiunile complexe ale acestora în 4 bazine hidrografice din România (Prut, Banat, Argeş-Vedea, Olt); ➢ Dezvoltă un sistem suport complex şi original pe baza unor realizări de ultim moment în cercetarea multidisciplinară şi a unor tehnici inovative: monitorizare online cu reţele de senzori wireless, utilizarea tehnicilor GIS, analiza şi modelarea datelor, dezvoltare de scenarii considerând componentele dezvoltării durabile, tehnologii inovative pentru epurarea apelor uzate în vederea recirculării, instrumente pentru managementul informaţiei şi al comunicării. ➢ Facilitarea transferului de cunoştinţe, comunicării şi colaborării între grupurile de cercetători, factori de decizie şi alte părti interesate, luând în considerare presiunile actuale ale furnizării şi cererii de apă, precum şi comportamentul diferitelor părţi interesate. Proiectul STEDIWAT îşi propune o abordare originală, integrată şi durabilă care consideră activităţile, enumerate anterior, dezvoltate la nivelul funcţional al bazinului hidrografic şi care se referă la principalele părţi interesate de utilizarea, administrarea şi protejarea resurselor de apă, considerând, de asemenea şi dimensiunile dezvoltării durabile.
STADIUL DE	Momentan toate studiile din cadrul acestui proiect au fost efectuate la scară de laborator.

DEZVOLTARE	
TRANSFERABILITATEA	Unul dintre obiectivele proiectului a fost transferul de cunoştinţe şi diseminarea rezultatelor prin: rapoarte de cercetare şi studii de evaluare, instrumente tehnice şi de management inovative, prezentări în cadrul workshop-urilor şi sesiunilor de training, către mediul economico-social la nivel de autorităţi locale / regionale de management a resurselor de apă, utilizatori şi alte părţi interesate.
STRATEGIE DE DISEMINARE	Rezultatele activităţilor de cercetare ale proiectului STEDIWAT au fost diseminate prin **participări la conferinţe naţionale şi internaţionale** şi prin **publicare de articole** în volume ISI Proceedings ale conferinţelor sau în alte jurnale de specialitate. S-au înregistrat următoarele realizări: a. **propunerea unui proiect în competiţie internaţională**, b. organizarea de **seminare, training-uri** şi **workshop-uri**, c. **participări la diferite evenimente ştiinţifice naţionale şi internaţionale** însoţite de prezentări orale sau postere d. **publicarea de articole în reviste cu impact**, indexate ISI, indexate în baze de date internaţionale sau în volumele conferinţelor internaţionale. De asemenea, diseminarea rezultatelor proiectului va fi realizată şi la nivelul părţilor implicate în managementul resurselor de apă (agenţi industriali, autorităţi în domeniul apelor, companii de apă-canal, agricultură şi servicii, APM-uri, agenţii de dezvoltare locale şi regionale, ONG-uri şi grupuri sociale).
DREPTURI DE PROPRIETATE INTELECTUALĂ	Toate rezultatele obţinute în cadrul acestui proiect sunt proprietatea exclusivă a membrilor echipei proiectului.
CLIENŢI ANTICIPAŢI	Cercetare/Industrie/Operatori regionali apa-canal Autorităţile locale / regionale de management a resurselor de apă, utilizatori şi alte părţi interesate la nivel de bazin hidrografic
PAŞII URMĂTORI PENTRU A DEZVOLTA PRODUCŢIA PENTRU PIAŢĂ	Sunt necesare noi programe de finanţare pentru continuarea studiilor iniţiate în cadrul acestui proiect.
PRECIZĂRI CU PRIVIRE LA APLICAREA PE PIAŢĂ (RISC SI SOLUTII)	Nu au fost identificate riscuri asociate realizării şi implementării proiectului STEDIWAT datorită distribuţiei geografice uniforme a partenerilor de proiect şi a bazinelor hidrografice studiate. **Impactul de mediu şi tehnic al proiectului:** activităţile şi rezultatele proiectului asigură un impact pozitiv semnificativ din punct de vedere tehnic şi de mediu prin dezvoltarea unui sistem suport fundamentat ştiinţific nu numai pentru procesul decizional, dar şi pentru măsurile operaţionale şi pentru managementul resurselor umane într-o manieră eficientă şi raţională. **Impactul economic:** Cercetările în domeniul managementului resurselor de apă reprezintă un suport informaţional important pentru autorităţi, agenţi industriali, furnizori de servicii, sau alte părţi interesate de îmbunătăţirea eficienţei lor economice şi a echilibrului între cererea şi alimentarea cu apă. Identificarea a unor noi soluţii pentru managementul şi monitorizarea resurselor de apă, aplicarea unor tehnologii inovative de epurare şi recirculare a apelor uzate determină o îmbunătăţire a calităţii

	resurselor de apă care induce efecte economice benefice. **Impactul social:** Acest proiect are în vedere o manieră nouă şi integrativă pentru managementul durabil al resurselor de apă, iar acest fapt va conduce la îmbunătăţirea nivelului de cunoştinţe ale părţilor implicate în acest domeniu, va deschide noi oportunităţi de instruire pentru cercetătorii şi specialiştii implicaţi, precum şi pentru îmbunătăţirea participării publicului şi părţilor interesate în luarea deciziilor în cadrul MIRA.
DETALIILE COLABORĂRILOR	Cooperare tehnică, asistenţă, acord de finanţare
TIPURI DE PARTENERI CĂUTAŢI	Diverse părţi implicate în Managementul integrat al resurselor de apă (MIRA) cum sunt: organizaţii de cercetare, administraţii bazinale, autorităţile locale / regionale de management al resurselor de apă, APM-uri, utilizatori (industrie, agricultură, municipalităţi, servicii), ONG-uri, precum şi publicul larg sunt interesate de scăderea presiunilor de mediu asupra resurselor de apă, ecosistemelor şi sănătăţii umane, datorită activităţilor curente şi a interesului pentru apă ca resursă naturală fundamentală.
DOMENII DE ACTIVITATE SPECIFICE A PARTENERULUI CĂUTAT	➢ Epurarea apelor uzate ➢ Managementul integrat al resurselor de apă ➢ Utilizare software
SARCINILE CE TREBUIESC ÎNDEPLINITE DE PARTENERUL CĂUTAT	➢ Teste la scară pilot sau industriala ➢ Implementarea solutiilor tehnice si manageriale ➢ Adoptarea materialelor de informare, training sau management al comunicarii
RISCURI PREVĂZUTE PENTRU UTILIZATORII REZULTATELOR /PRODUSELOR	Pentru toate activităţile proiectului, membrii echipei de cercetare au respectat principiile fundamentale de etică specifice activităţilor de cercetare, dezvoltare şi inovare, precum şi principiile etice legate de accesul la drepturile de proprietate intelectuală şi a celor de diseminare, în acord cu legislaţia în vigoare la nivel naţional şi internaţional. Rezultatele cercetării ştiinţifice sunt proprietatea intelectuală a membrilor echipei de proiect.
DATE DE CONTACT ALE ECHIPEI DE PROIECT	**Director proiect: Prof. univ.dr. ing. Carmen Teodosiu** Universitatea Tehnica “Gheorghe Asachi” din Iasi, Departamentul Ingineria si Managementul Mediului Bdul Dimitrie Mangeron, nr. 73 telefon:0232/237594 e-mail: cteo@ch.tuiasi.ro; *pagina de web: http://omicron.ch.tuiasi.ro/stediwat/*

LIFE09 ENV/FR0593

Fundația C.F.P.P.D.A.

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"Innovative solutions available for improuving non revenus waters"

Bucharest, 9 Iunie 2013

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"Innovative solutions available for improuving non revenus waters"

Bucharest, 9 Iunie 2013

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"Innovative solutions available for improuving non revenus waters"

Bucharest, 9 Iunie 2013

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58	Compania de Apa Serbia	Srgean Vukovici	-	-	-
59	Compania de Apa Serbia	Vladimir Premici	-	-	-
60	Compania de Apa Serbia	Niegoslav Banda	-	-	-
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"Innovative solutions available for improuving non revenus waters"

Bucharest, 9 Iunie 2013

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66	„Vodosnabdyavane i kanalizatsya” EAD	Ivanov Deyan	M&A Technician		-
67	„Vodosnabdyavane i kanalizatsya” EAD	Hristov Stoyan	M&A Technician		-

"Innovative solutions available for improuving non revenus waters"

Bucharest, 9 Iunie 2013

Water Research to Market

LIFE09 ENV/FR0593 – date 01/09/2010 – 30/08/2013

n° April 2013 **Newsletter** contact@waterrtom.eu

WATER RESEARCH TO MARKET

to speed-up the transfer of water related research output to better implement the water directives

Water RtoM aims to speed-up the transfer of research outputs to practitioners, with a targeted time lag down to 3 - 5 years, by adding a step between research and the existing technology transfer schemes to end-users. The partnership is composed by 4 partners (OIEau, Gdansk Water Fundation, Foundation Professional Training Center in Water Public Sectors, Amphos21). Water RtoM has preselected 200 research outputs from Europe, France, Poland, Spain and Romania, assessed in term of distance to market 50 outputs available in the E-fair (www.waterrtom.eu/efair_facility) and promoted them trough e-seminars, brokerage events and national events … Read more

NEWS

Publication of the Water RtoM Guidelines

During 3, Water RtoM built tools and strategy to speed up the transfer of research outputs to the market. The feed back of this experimental is shared in the Guidelines. A set of Tools, Best practices and recommendations to better active the water knowledge transfer. Read more

Water RtoM Final seminar 25th June 2013, Barcelona, Spain

The Water Research to Market experience as a chance to boost the implementation of innovative solutions into the water sector

For online registration

Next e-seminars:

- April 30th 2013 - Innovations in recovery and energy saving in the water treatment plants, and focus on a research output (FR)
- May 2nd 2013 - Innovations in river restoration techniques (FR language)
- May 31st 2013 - Presentation of the Water RtoM Guidelines

Figures of Water RtoM

- 210 preselect projets
- 60 research outputs assessed
- 20 business cases
- Water RtoM in events:
  7 e-seminars - 12 seminars - 9 EU Events
- Website www.waterrtom.eu
- e-fair www.waterrtom.eu/efair_facility
- Guidelines (available May 31st 2013)

FOCUS ON… GUIDELINES TO SPEED UP THE TRANSFERT

Water RtoM Guideline provides best practices to speed-up the transfer of water related research outputs to practitioners based on project partners' experience, gained during the project. The guide offers the perspective of realities by national markets of water in which the four partners have implemented the project.

The specific objectives of this guidelines are:

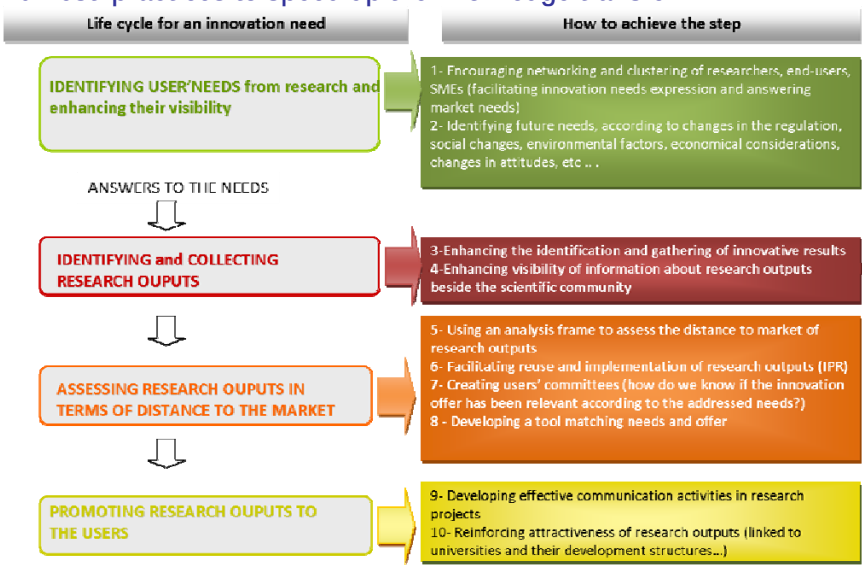
- To introduce a set of tools that supports the dissemination and the promotion of the research outputs to the market, all of them developed during Water RtoM project,
- To provide 10 best practices for the water knowledge transfer coming from lessons learnt of Water RtoM project,
- To recommend on how to better achieve the water knowledge transfer.

The Guideline targets water practitioners, being mostly river basin agencies, water utilities, suppliers of the technologies, as well as researchers, research funding bodies and knowledge transfer institutions who are all involved in the water management process..

Used properly, the guideline provides an overview of main lessons learned gathered by Water RtoM project and related recommendations according to the gained experience. This section has been structured in accordance to the uptake life cycle of a water related research output, which feeds with the output users' need of identifying promising research results. The output life cycle is represented, in this context, starting with identifying the users' need, followed by the answer provided by the research activities (the research outputs), and until the output uptake of the prospective users.

All the evidence have been gathered and customize for SMEs, whatever is their position in the cycle: researcher, search owners, precursor of innovation or end-user.

10 Best practices to speed up the knowledge transfer



FINAL EVENT OF WATER RTOM

Tuesday, 25th June 2013, 11:00am– Barcelona, Spain

This event aims to discuss together about the efficiency of new tools to speed up the transfer of research outputs to practitioners. These tools as an additional a step in the existing transfer schemes prefigure a service to speed up the innovation on the market for the end-users.

Targeted public:

- The research outputs makers: the water related scientific community
- The research output users: river basin agencies, water utilities, SME's, etc.
- The research output transfer services: technological platforms, innovation departments at industries enterprises, knowledge transfer offices at universities, etc.
- The research funders: research programme organisations.

For registration,
- Ms. Beatriz Medina: mailto:beatriz.medina@amphos21.com or

- online registration: http://www.waterrtom.eu/registration

Actions & Activities in 2013

- E-fair increase with 25 innovations in 2013
- Events: Registration form http://www.waterrtom.eu/registration
  - ❖ E-seminars:
    - 30/04/2013 - Innovations in recovery and energy saving in the water treatment plants, and focus on a research output
    - 02/05/2013-Innovations in river restoration technics, 2 concrete cases (FR language)
    - 31/05/2013-Presentation of the Water RtoM Guidelines
  - ❖ Seminars:
    - Romanian National Seminar (May 2013)
    - Final Seminar Water RtoM (date 25.06.2013 - Barcelona, Spain)
- Guidelines to speed-up the transfer (may 2013)
- A business plan for Water RtoM as a service (June 2013)
- Next newsletter (July 2013)

Water RtoM partners

Associated partners (Liaison committee)

Join the European Water Community!
www.europeanwatercommunity.eu

Due to the characteristic work of Gdansk Water Foundation we have mentioned that during many occasions we use the chance to promote the general concept of WaterRtoM project as well as to disseminate some information about the outputs that are accepted for further promotion. During the training seminar held on 16-18.10, on a subject of waste water management, Mr. Sobociński has moderated a presentation devoted to WaterRtoM project and its outputs. Not only has he described our actions, but he has also mentioned our promotional activities (fairs, e-infrastructure) and disseminated project documentation pack in the number of 10.

Water Research to Market

e-seminars

Meetings of the working group Quality- Environment of the Romanian Water Association

14-16 February 2013, Campulung Muscel - Voina, Romania

15 February 2013 - Water RtoM

Dissemination: (E-Seminar) participation of 2 hours in other even

Type communication action: presentation and discussion

1. Objective of the seminar:

- Promoting the transferable results of research projects selected by the Water Research to Market services to the water and sewerage supply services.

By presenting and discussing a number of 3 projects selected in Water Research to Market Project, dedicated to the target group.

- Promoting Water Research to Market as a service.

The dissemination of 2 BC of Water Research to Market Project.

To disseminate the idea of « Water RtoM, as a new service, from the Research to the Market".

2. Context

In Romanian environment meeting face to face is much appreciated and has an added value compared to meetings online. In this context, e-seminars were assimilated with meetings held durring larger events, having the same duration and number of participants expected (for an e-seminar).

For the Project WaterRtoM have been allocated two hours in the event " Meetings of the working group Quality- Environment of the Romanian Water Association", 14-16 February 2013, Campulung Muscel, Romania . With this occasions the meeting of Quality- Environment specialists from the water companies, facilitate the exchange of best practices and present new solutions and equipment in the field. At this event was attended by 20 representatives from water utilities companies.

3. Targets of the Water RtoM event:

The target group was formed by SMEs, regional water and wastewater operators.

The event was attended by 20 people. List of participants is attached in Annex 1.

4. Our expectations

- Dissemination of the service WaterRtoM

- Identify the solutions to fill the gaps on the addressed outputs (what are the missing developments, what are the barriers to implementation, what improvements to make ...),

5. Message to deliver

Water RtoM is a LIFE demonstrative project with the ambition to develop a service to facilitate the transfer between the researchers and the end-users (water providers, stakeholders).
Using the output of research project promoted the water utilities could bring added value in to the companies.
After the end of a research project more work in transferring the knowledge must be undertaken, and the output must be package in something more tangible and a product or a service.
In order to develop a useful service, Water RtoM needs to test its tools with the targets (private and public companies).

6. Date, agenda and place

Date : 15 February 2013
Duration of the seminar: 2 hours
Language: Romanian
Entry fee : free
Draft agenda:

15.02.2013

- **09^{00}** Opening of the meeting. Foreword about subject matter - Melania Voinescu, Edilu Campulung
- **09^{30}** Presentation requirements for water quality - Daniela Moldovan, Apa Brasov

$10^{00} \div 12^{00}$ Project "Water Research to Market" Presentation - Foundation CFPPDA

NPTT - Silviu Lacatusu, CFPPDA
APIFLOT- Silviu Lacatusu, CFPPDA
$12^{00} \div 12^{30}$ Coffee Break
$12^{30} \div 13^{30}$ DutchSolution - modular WWTP
$13^{30} \div 14^{30}$ Lunch
$14^{30} \div 16^{00}$

- Discussing the proposed solutions
- Concluzion

7. Means and resources

Documents to prepare:
a) WaterRtoM: leaflet/brochure, roll up

b) 3 projects: factsheet, powerpoint for demonstration/presentation

Presented innovations:
In the event 3 research results selected by Water RtoM the consortium in the project were disseminated. Their acronyms are: NPTT, APIFLOT, FENPEST

Logistical means:

- Laptop equipped to allow viewing demonstration/presentation.

8. Agenda & planning

- January: discussing and identifying events to disseminate WaterRtoM Services
- January - allocation request has been sent for two hours, in the event agenda. The request was addressed to the ARA management
- Early February: receiving the answer
- Deployment of the event (2 hours)

9. Budget (€)

- travel cost for 1 person (Bucuresti-Campulung)
- accomodation for 1 person, for one night
- print indoor poster

10. Indicators to evaluate the event

Number of participants: 20 persons (Anexa 1)
Number of distributed leaflets: 20
Number of distributed factsheets: 3 projects X 20 persons
Number of promoted results: 2

11. Potential risks

- The absence in order to gather a minimum number of specialists for dissemination of the service WaterRtoM
  - Identify the group of specialists in from the water companies; motivate them to participate in the event.
- Absence of interest of research institutions to accelerate the transfer of research results.
  - promotion / awareness on the research teams of the possible future benefits in case of a successful transfer

12. Feedback and lessons learnt

- Results should be upgraded to the final product that can be bought directly from operator.
- The proposed technology can meet the new requirements, but they must be known by the project and especially contractors.
- Water companies limitations in terms of direct acquisition.

LIFE09 ENV/FR0593 Fundația C.F.P.P.D.A.

Annex 1 - List of participants

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16	MOLDOVAN DANIELA	Sef bir managementul calit/RMI	SC COMP APA BRASOV SA	0740 108909; 0727 880400	danielamoldovan@apabrasov.ro
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20	CFPPDA	Silviu Lacatusu	Director Executiv		s.lacatusu@ara.ro

APIFLOT:

THEORETICAL AND EXPERIMENTAL RESEARCHES IN ORDER TO DESIGN AN ADVANCED TREATMENT TECHNOLOGY (FLOTATION) FOR HEAVILY LOADED WASTEWATERS

OUTPUT DESCRIPTION	Wastewater treatment equipment with high efficiency, very compact, which can solve the problem of heavily loaded wastewaters. It was conceived a dissolved air flotation unit. We wanted to reach the discharge parameters below the limits set by current Romanian regulations (NTPA 001), in an attempt to keep a clean environment. The dissolved air flotation unit consists of two separate devices: pressurized capsule and lamellar settling. The pressurized capsule is a cylindrical chamber provided at the ends with 2 caps. Inside the capsule there are inserted water and air under pressure. Water circuit is located at the top of the capsule and water is introduced with the help of 4 sprinklers. In this way, water is introduced as fine droplets dispersed and not as jet. The air supply is located at the bottom of the capsule. To obtain a longer time contact between air bubbles introduced through the circular pipe and the water, we have found the solution to introduce moving plastic elements inside the capsule. The decantation is made of two functional compartments arranged in series: a lamellar settler and a technical room. At the usual clarifiers, the settling plates can clog. In order to overcome this anticipated difficulty the merging of a flotation system will solve the problem. The two-phase mixture air-water enters the clarifier through a transport system that consists of pipes and three funnels. Funnels are diffusers (relaxation area for the compressed fluid). In this way, the mixture bubbles - water does not "wash" the slab foundation. Air bubbles rise to the free surface and become stuck in "light" suspended solids and lead them to the surface, where they are directed to skimmer and discharged from the system.
WATER TOPIC	*Urban pollution, Industrial pollution, Agricultural pollution.*
TYPE OF OUTPUT	*Prototype - Equipment (Dissolved air flotation - DAF, unit designed in our research project is a stage for heavily loaded wastewater treatment).*
MARKET NEED TAILORED	*Water Framework Directive;* *Wastewater Directives - Quality of the effluent*
INNOVATIVE ASPECTS	*The innovative aspects and the advantages of the dissolved air flotation unit are:*

AND ADVANTAGES	*- Process gives greater efficiency due to moving parts inside the capsule that "tease" trail of bubbles to the surface;* *- Through the use of sprinklers, water is sprayed in very fine droplets and is dispersed within the capsule, thus creating a large air-water contact surface;* *- Leads to a minimum area for settling facility;* *- Quick and easy installation even in existing clarifiers;* *- The treatment method provides greater efficiency without using any bio-products or consumables that enhance the biological degradation processes - completely organic process;* *- Modular construction;* *- No lamellar settling clogs because the air bubbles which "clean" the plates by their upward movement.*
STATE OF DEVELOPMENT	*Laboratory facility.*
TRANSFERABILITY	*The unit was tested at laboratory scale, but according to the requirements of potential users, equipment can be designed for a larger scale.*
DISSEMINATION STRATEGY	*Research project dissemination takes place in several ways to achieve the best possible results:* *- Participation in national / international conferences and symposiums related to the environmental protection;* *- Participation in fairs and exhibitions related to environmental protection and invention;* *- Articles which are published in professional journals;* *- Development of presentations at the potential beneficiaries;* *- Through our own website: www.dfr.ro*
INTELLECTUAL PROPERTY RIGHTS	*SC DFR Systems SRL has filed two patent requests:* *- Pressurized capsule for dissolved air flotation unit, no. A 00074/30.01.2011;* *- Final settler for dissolved air flotation unit, no. A 00073/30.01.2011.*
FORESEEN CLIENTS	*As direct beneficiaries of the flotation unit can be identified:* *- Companies related to the food industry (slaughterhouses, meat and dairy*

	producers, producers of alcohol, etc.); - *Companies related to the pharmaceutical industry;* - *Companies related to the textile industry;* - *Companies who hold landfills and where the leachate is generated;* - *Local authorities (municipalities).* *Also the possibility of contracting new research projects, which will be based on the previous researches, exists.*
NEXT STEPS TO DEVELOP THE OUTPUT FOR THE MARKET	*As future research actions can only be specify additional tests to be carried for a flotation unit connected to a wastewater treatment plant.*
COMMENT ABOUT MARKET APPLICATION (RISK AND SOLUTIONS)	*The project is addressed to an urgent necessity of our days, when the industrial wastewater is characterized by high concentrations of pollutants with a diverse chemical structure and stable over time. Researches were to develop a compact installation to meet the companies' needs to treat the wastewater in an area/volume as low as possible. Currently, due to more efficient manufacturing technologies, the industrial wastewater generated by companies was reduced. Thus the concentration of pollutants in wastewater increased significantly. It is known that today, companies specialized in production, continuously reduce the quantities of water per unit, and often, recirculates water several times during the manufacturing process. In this way the wastewater treatment plants must be constantly upgraded to treat higher loads. Also, the companies use the field for production, so for a treatment plant is rather a small available space.* *Given these restrictions (reduced ground for wastewater treatment plant and high organic loads) it was necessary to design an innovative installation for wastewater treatment.* *After entering the DAF unit in production, there will be no risks related to market demand. The existing market researches and the environmental protection legislation, assure the fact that such equipments are looked for by potential customers.*

COLLABORATION DETAILS	*Technical co-operation, assistance, commercial agreement, manufacturing, financing.*
TYPE OF PARTNER SOUGHT	*SME/Company, research organisations, others.*
SPECIFIC AREAS OF ACTIVITY OF THE PARTNER SOUGHT	*We are looking for research partners who know the wastewater treatment sector and for products commercialization we are looking different companies and local authorities.*
TASKS TO BE PERFORMED BY THE SOUGHT PARTNER	*Potential research partners must assist us in designing and testing a pilot DAF unit.* *Potential beneficiaries of the flotation system must provide us information on the wastewater they want to treat (wastewater flow, wastewater quality parameters and the available land to carry out a wastewater treatment plant).*
FORESEEN RISKS FOR OUTPUT USERS	*There is no risk related to the market aspects (realization of a pilot installation is not complicated, and for launching it in production are not necessary expensive equipments).*
RESOURCES FOR NEXT STEPS	The design and the implementation of a pilot DAF unit can be made in about three months. To obtain reliable results on the level of treatment / effectiveness of the installation and operation / maintenance it is required a period of 6 months for experiments and analysis.
FORESEEN COSTS FOR NEXT STEPS	*Testing costs: approximate 12.000 lei (3.000 Euro and the realization of the pilot)* *Costs for a DAF unit: depending on the wastewater parameters*
PROJECT CONTACT	*Name: Gabriel PETRESCU* *Address: Str. Drumul Taberei nr. 46, bl. OS 2, ap. 23, sector 6, Bucureşti* *Phone/Fax: 021- 413.14.39; 021 - 413.40.91* *E-mail: dfr@dfr.ro* *Web page: www.dfr.ro*

FENPEST: photo-induced based green technologies for the treatment of water with pesticides content

OUTPUT DESCRIPTION	*Photo-induced based green technologies for the pesticides containing water treatment; pollutants advanced degradation is assured applying a photo-catalytic advanced oxidation technique, which uses solar light as UV-VIS irradiation source, associated with catalyst (iron) separation by flotation and its valorisation in the degradation process.*
WATER TOPIC	*surface water, groundwater, industrial wastewater treatment*
TYPE OF OUTPUT	*Water treatment technology*
MARKET NEED TAILORED	*Compliance of the treated effluent quality to imposed stringent national and European legislation in terms of pesticides content (<0.1 µg / L).*
INNOVATIVE ASPECTS AND ADVANTAGES	• *Environmentally friendly, modern water treatment process, not approached in Romania until now;* • *Use natural source of UV-VIS radiations - sunlight;* • *Minimization of waste generated from the water treatment process by valorisation of iron based photo-catalyst.*
STATE OF DEVELOPMENT	*Pilot tested*
TRANSFERABILITY	*Applicable after industrial pilot scale testing on wastewater containing pesticides in specific pollution matrix*
DISSEMINATION STRATEGY	*The results have been promoted during national and international conferences and seminars.*
INTELLECTUAL PROPERTY RIGHTS	*The original results obtained are the property of the partners of the project which have developed the integrated technology*
FORESEEN CLIENTS	*SMEs active in pesticides synthesis / conditioning; Units of Central and Local Administration, Environmental Protection Agencies and water utilities; R & D units that are interested or active in environmental protection research.*
NEXT STEPS TO DEVELOP THE OUTPUT FOR THE MARKET	*Feasibility study* *Enrolment specialists responsible for implementation of the output - Networking* *Organization of distribution of the output* *Organization trainings for prospective users of the output* *Accomplishment of tests at industrial scale* *Organization of advertisement of the output*

COMMENT ABOUT MARKET APPLICATION (RISK AND SOLUTIONS)	*Application of classical water treatment methods cannot assure easy and cost effective pesticides degradation.* *The proposed technology which is characterized by superior treatment performance, also ensuring reducing operating costs by:* *• use of sunlight as a source of radiation in advanced oxidation step, which leads to significant reduction of energy consumption;* *• capitalization of $FeCl_3$ solution (by- product of the treatment process) as photo-catalysts or coagulant agent*
COLLABORATION DETAILS	*Commercial agreement*
TYPE OF PARTNER SOUGHT	• *SMEs, active in pesticides synthesis / conditioning;* • *Units of Central and Local Administration;* • *Environmental Protection Agencies and water utilities* • *R & D units that are interested or active in environmental protection research.*
SPECIFIC AREAS OF ACTIVITY OF THE PARTNER SOUGHT	*Partners dealing/relating with pesticides water pollution*
TASKS TO BE PERFORMED BY THE SOUGHT PARTNER	*Implementation of technology at industrial pilot scale*
FORESEEN RISKS FOR OUTPUT USERS	*The necessity of setting up the pesticides advanced degradation optimal conditions on real wastewater in continuous industrial pilot plant (several months) before applying the treatment technology at full industrial scale*
RESOURCES FOR NEXT STEPS	*Skilled personals (experts), Financial resources(industrial plant design, equipments purchasing)*
FORESEEN COSTS FOR NEXT STEPS	*Personal costs (salary, training) - responsible for implementation of the output* *Training for prospective users of the output* *Implementation output costs*
PROJECT CONTACT	***Name**: eng. Ph.D. INES NITOI, National Research and Development Institute for Industrial Ecology-INCD ECOIND* ***Address**: Street Drumul Podu Dambovitei nr 71-73, Sector 6, cod: 060652, Bucuresti* ***Phone**: 04.021/410.67.16* ***Fax**: 04 021 412 00 42 / 04 021 410 05 75* ***Email/s**: tehnologi@incdecoind.ro* ***Website**: http://www.incdecoind.ro/proiectele-noastre/proiecte-nationale/planul-national-de-cercetare-%e2%80%93-dezvoltare-inovare/fenpest.html*

Other comments:

NPTT: Residual sewage sludge post treatment technology (process and installation) for use as agricultural fertilizers

OUTPUT DESCRIPTION	*The installation consists of a subset of forced aeration, a composting unit and a monitoring unit of the operating parameters of post-treatment process.* *Aerobic composting process of municipal sludge mixed with vegetable waste in some mass reports take place in a short time after three phases: mesophilic aerobic fermentation, a thermophilic phase and a phase of maturation during which organic substrate is degraded in humus.* *The process is carried out under aeration, providing the quantity of oxygen required for composting and monitoring operating parameters on sludge composting urban waste mixed with vegetable waste in a mass ratio between 1:1 and 4:1, for 60-90 days, when occurs mesophilic aerobic fermentation phase at a temperature of 25-40 C (In this phase the number of bacteria increase),a thermophilic phase at the temperature of 45-70 C,* *(when presented bacteria, fungi and actinomycetes decompose cellulose, lignin and other organic substances resistant;the maximum temperature of 70 C is required to be maintained at least one day for the destruction of pathogens and organic contaminants)and a maturation phase, when temperatures decrease and stabilize and some biological oxidative processes continue, transforming degraded organic substrate in humus.* *The resulted compost is a product with fertilizing properties classified under the concentration limits imposed by current standards for sewage sludge used in agriculture, at national and european level.*
WATER TOPIC	*Water body categories: wastewater*
TYPE OF OUTPUT	*Methodologie*
MARKET NEED TAILORED	*The national policy for management of sewage sludge - post-treatment and use in agriculture*
INNOVATIVE ASPECTS AND ADVANTAGES	*Advantages of composting process:* • *the transformation of urban waste sludge into a new product, like the existing commercial topsoil, odorless and with good fertilization capacity;* • *the compost contains a more stable organic form of nitrogen that is gradually released in soil ensuring the nitrogen needs for a longer period;*

	• *In the thermophilic stage of the process the number of pathogenic microorganisms / potential pathogens is significantly reduced;* • *the compost is a good soil conditioner, that improves the soil structure, and it has an important contribution of organic matter and it reduces the potential for the soil erosion;* • *it solves the problem of waste, that take serious challenges in terms of storage for water and sewerage operators.*
STATE OF DEVELOPMENT	*Semi-industrial pilot applied for the aerobic composting of the waste sludge from treatment plants in Focsani city and Pitesti city.* *The fertilization capacity of the resulted compost was confirmed on experimental fields of the corn crop and the forage grasses.*
TRANSFERABILITY	*The technology is transferable to industrial scale at any municipal operator of water - sewerage with the biological treatment plant provided with anaerobic fermentation step of the residual sludge.* *It is possible the enlargement of the range of plant components used for constitution of composting by using biodegradable household waste (for selective collection of household waste).*
DISSEMINATION STRATEGY	*Dissemination strategy of the project and the post project included:* *- site promotion: www.incdecoind.ro;* *- Organisation of workshops;* *- Preparation of information brochure;* *- scientifically communications;* *- Inclusion of the technologies in the offer of INCD-ECOIND or specify if you have no strategy*
INTELLECTUAL PROPERTY RIGHTS	*It has applied for patent no. A/01092 / 11.11.2010 targeting the process and the composting installation*
FORESEEN CLIENTS	*Water sewerage operators*
COMMENT ABOUT MARKET APPLICATION (RISK AND SOLUTIONS)	*Water sewerage operators need a solution for capitalization of waste sludge and the agricultural land owners need fertilizer for cultures.* *Efforts to apply: For water sewerage operators are required investment costs for the realization of the composting facility and a constant source of plant component*

	(waste).
COLLABORATION DETAILS	*Cooperation and technical assistance for design and operation of composting facility.*
TYPE OF PARTNER SOUGHT	*Operators for water sewerage*
SPECIFIC AREAS OF ACTIVITY OF THE PARTNER SOUGHT	*Water sewerage*
TASKS TO BE PERFORMED BY THE SOUGHT PARTNER	*Financing composting facility at the industrial scale*
FORESEEN RISKS FOR OUTPUT USERS	Low risk in terms of legal issues (poorly regulated health security); Identify potential sources of plant component (waste) to provide a quantity minimum necessary *please provide summary assessment here and more details in following page*
PROJECT CONTACT	*eng. Ion Viorel Patroescu* *The National Research – Development Institute for Industrial Ecology– ECOIND* *Address: 71-73 Drumul Podu Dambovitei street, sector 6, zip 060652, Bucharest, Romania* *tel:0214100377, int.244, 126;* *fax:0214100575* *tehnologi@incdecoind.ro* *www.incdecoind.ro*

e-seminar

Innovations in the field of energy saving and recovery in Water treatment facilities

1. Objective of the event:

The main objective of this e-seminar is to create awareness on some innovations in the field of energy saving and recovery in water treatment facilities close to the market and encourage participants to uptake them. Organised under the umbrella of WaterRtoM, the objective is also to promote concepts and approaches of the project and give the message : Water RtoM is a service to speed up the innovation

The e-seminar is a good tool to favour meeting between project coordinators and the audience in an easy and convenient way.

2. Targeted Audience

The target audience of this event includes three groups: participants to a past event on similar topic (aquatech), direct contacts we know are interested in energy savings and the LC members and their network. As can be seen from the hereunder e-mail list, this includes big companies but also local SMEs, university teachers and representatives from institutional organisations (EEN, chamber of commerce, local representatives of ministry of industry)...

1. the participants to the Aquatech conference of February:

alarigau@saur.fr; anne-laure.reverdy@irstea.fr; antoine@movigi.fr; Aysseline.DU-MOULIN@veoliaeau.fr; chambon@ensil.unilim.fr; Isabelle.BAUDIN@suez-env.com; Marc.PERAUDEAU@veoliaeau.fr; marion.feuillet@veoliaeau.fr; quentin.terrebiogaz@orange.fr; rafaelsolans@wanadoo.fr; thierry.pichard@irh.fr

Madame, Monsieur,

Suite à la conférence Aquatech à laquelle le projet WaterRtoM a participé, nous vous invitons à participer à notre e-séminaire de 1h du 30 avril 2013 " Innovations in recovery and energy saving in the water treatment plants, and focus on a research output " (en anglais). Le e-séminaire sera l'occasion de présenter le projet Greenlysis, un des projets identifiés sur cette thématique.

Pour cela pas besoin de vous déplacer, une connexion Internet et un microcasque suffisent.
La participation est gratuite mais l'inscription avant le 25 avril 2013 obligatoire ici http://www.waterrtom.eu/node/203. Une fois inscrit nous vous enverrons le lien de connexion.

Plus d'informations ici.

Vous pouvez bien entendu transmettre à vos contacts susceptibles d'être également intéressés.
Sincères salutations.

****

2.direct contact from WaterRtoM partners interested in energy in the field of water:

OIEau

serge.soleilhavoup@developpement-durable.gouv.fr; trouveyran@seban-associes.avocat.fr; plentz@bpr-europe.fr; pbourgogne@cu-bordeaux.fr; vincent.denis@mhylab.com; glsprovalor@orange.fr; pavel.chudoba@veoliavoda.cz

elsa.preiss@developpement-durable.gouv.fr; alain.bondoux@emerson.com; bebel@grundfos.com; romuald.szkudlarek@schneider-electric.com; yoann.caballero@schneider-electric.com; eric.fievez@degremont.com; christian.couturier@solagro.asso.fr; patrick.arnaud@lyonnaise-des-eaux.fr; b.guery@sedif.com

Madame, Monsieur,
Nous vous invitons à participer à notre e-séminaire de 1h du 30 avril 2013 " Innovations in recovery and energy saving in the water treatment plants, and focus on a research output " (en anglais). Le e-séminaire sera l'occasion de présenter le projet Greenlysis, un des projets identifiés sur cette thématique.
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Plus d'informations ici.
Vous pouvez bien entendu transmettre à vos contacts susceptibles d'être également intéressés.
Sincères salutations.

3.the LC members of the WaterRtoM projects and their networks (+newsletter attached: see annexe to the current doc):
m.forst@limousin.cci.fr; martin.bittens@ufz.de; organizacion@afre.es; simon.ingall@wsstp.eu; Tomasz.Walczykiewicz@imgw.pl; vciomos@ara.ro; yv@verseaudeveloppement.com
Dear members of the WaterRtoM project Liaison Committee,

We would like to inform you that we organise a 1h e-seminar (in English) on the 30th of April on "Innovations in the field of energy saving and recovery". Participation only needs an Internet connection and headphone and is free, but registration before the 25th of April is mandatory here: http://www.waterrtom.eu/node/203. Once registered you'll receive a confirmation and the link to connect to.

Please find herewith the Newsletter special edition that gives more details on this.

We would very much appreciate if you could disseminate it further in your networks and/or on your website and inform us (URL of the news on your website, copy of the message sent to your contacts....
We thank you very much for your support to our project and on this
Yours sincerely,
Benoit.

3. Expected behaviour of the targets

To take over one innovation, Greenlysis or an other
Visit the e-fair regularly

4. Message to deliver (simple, clear, concise, single)

To demonstrate the utility of Water RtoM as a service, to have a clear view of Greenlysis result and possibilities of reuse of the process, to have a view on some other outputs targeting energy savings.

5. Means & Resources to implement to reach the objective

B. Fribourg-blanc, moderator, involved in Water RtoM for Office International de l'Eau
B. Portero, speaker, expert in energy management and trainer, involved in Water RtoM for Office International de l'Eau
E. Marzo Adam, speaker, researcher and project manager of GREENLYSIS project
Language: English
Retro-Planning:

- Define date with the owners: feb. 2013

- Send targeted invitations: max 12/04/2013 (see list above)
- Upload documents on the meeting room: max 25/04/2013
- Send a template to the speaker for their 15' presentation

Confirm to the registered participants the place in sending the link: 5 days -1 day and 30mn before the e-seminar

6. Agenda, planning, date and place

30th April 2013 – 9:30 – 10:30
The programme:

9:30 Welcoming participants and key speakers. Short introduction to the WaterRtoM project, its goals and purposes.
9:40 GREENLYSIS project: short video
9:50 Presentation of Greenlysis output
10:10 Presentation of some other research outputs
10:15 Questions and answers
10:25 Short conclusion and availability of results

Place: https://office-international.adobeconnect.com/waterrtom_e-seminar

7. Budget

Man days of Water RtoM project partners, availability of adobeconnect platform for a e-seminar, free contribution from Greenlysis project.

8. Indicators to evaluate the achievement of the objective

Number of participant (5)/number of invitations (34 + news on website + news on EEN website and newsletter)
Number of interested organisations to continue with Water RtoM
Number of practitioners ready to implement one innovation

9. Main constraints

No participant, technical problems with the platform or the speaker sound, or participants.

10. Implementation of the action

Contacts were started in February with Greenlysis project owner. Tests were conducted to check if video can be put on the tool, short description of what is expected from the speaker was sent on 4/04/2013.

11. Lessons learnt

* Contacts with the speakers must be taken at an early stage, at least 2 month in advance to guarantee to choose a compatible date with their agenda, and promotion of the relatively low investment this requires from them (online tool, powerpoint compatible) allows to convince them to participate.
* It is very important to check the sound and the webconference tool with all presenters: they need to learn how to use it to allow for a smooth presentation and the sound must be very good to avoid loosing time during the event.
* It is very important to upload the presentations in advance and check the content with the presenter: organisation of the slides or some parts may be changed during the transfer to the online tool.
* It is very important to remind the participants their participation to the event, 1 week before, 1 day before and 1 hour before to allow have the maximum of them to effectively participate.
* having a regular programme of e-seminars, at least once a month, allows significant savings by

providing templates and habits, including mailing lists, and draining regular users and interest.

12. Photos – video of the event

you will find hereunder the elements presented:
- the link to the video: http://office-international.adobeconnect.com/greenlysis/,
- the slides of Ms Jacquin: http://office-international.adobeconnect.com/p7loxtm8q07/
- the slides of Ms Marzo: http://office-international.adobeconnect.com/p52ldnjldm5/,
- the presentation by Ms Marzo: http://office-international.adobeconnect.com/p3zyfquv1u4/,
- the slides of Mr Portero: http://office-international.adobeconnect.com/p2qxsqxexye/
- the presentation by Mr Portero: http://office-international.adobeconnect.com/p1r4xzprd87/.

13. Presentations (pedagogic documents)

See special newsletter in annexe + powerpoints + video of Greenlysis (above link + zip file of annexes)

Water Research to Market

LIFE09 ENV/FR0593 – date 01/09/2010 – 30/08/2013

N° March 2013 Newsletter in English contact@waterrtom.eu

WATER RESEARCH TO MARKET

To speed-up the transfer of water related research outputs to practitioners

« Innovations in the field of energy saving and recovery in Water treatment facilities »

e-seminar 30th April 2013 – 9:30 – 10:30

Register here to our free e-seminar…

With the rising of energy costs, the need for improved treatment efficiency that requires more energy and the need to reduce emission of green house gases, energy savings and recovery is becoming a more and more pressing need in the water treatment facilities.

The e-seminar will focus on two recent innovations resulting from research projects that have the potential to be implemented in wastewater treatment plants to save or recover energy.

In the age of internet and thanks to unlimited possibilities it creates, you do not even need to get out from your home or office to join us – a special online program will provide you with an excellent quality of internet and materials forwarded by speakers. You only need a normal computer connected to internet and a headphone. Participation is free but registration mandatory. Once registered, you will receive the link to participate to the e-seminar.

The programme:

9:30	Welcoming participants and key speakers. Short introduction to the WaterRtoM project, its goals and purposes.
9:40	GREENLYSIS project: short video
9:50	Presentation of Greenlysis output
10:10	Presentation of some other research outputs
10:15	Questions and answers
10:25	Short conclusion and availability of results

The speakers:

B. Fribourg-blanc, moderator, involved in Water RtoM for Office International de l'Eau
B. Portero, speaker, expert in energy management and trainer, involved in Water RtoM for Office International de l'Eau
E. Marzo Adam, speaker, researcher and project manager of GREENLYSIS project

WATER RTOM: the project

The project LIFE09 ENV/FR/000593 (01/09/2012-31/08/2013), Water Research to Market, aims to speed up the transfer of water related research results to practitioners by adding a step, complementary to the current innovation transfer scheme between scientists and final users (practitioners, administrations, water services, etc).

The project is developed by a consortium of 4 partners (lead: OIEau, partners: Gdansk Water Foundation, Romanian centre for education on water, Amphos21). 200 research projects have already been identified in the water field at the European level and in each of the 4 countries covered by the partners (France, Poland, Romania, Spain), and Water RtoM has developed a promotion strategy through identification of relevant outputs of these projects and evaluation of their distance to the market. Relevant outputs are promoted via an e-fair (The water innovations fair) … Read more

Water RtoM in short

- 50 outputs selected/year (150 for all the project duration)
- 20 to 30 research outputs assessed/year through the ReMAS
- 8 to 12 research outputs assessed/year through a business case
- 2 European events/year
- 5 national seminars/year
- 4 e-seminars/year
- website www.waterrtom.eu

An « innovations fair » via an e-fair
www.waterrtom.eu/e-fair

…(p1/2) …TSVP

Water Research to Market

LIFE09 ENV/FR0593 – date 01/09/2010 – 30/08/2013

THE STEPS OF DEVELOPMENT OF WATER RTOM

1. The project started in Sept 2010. The first year allowed develop the tools to « make visible » the most promising innovations, develop an « assessment method » for research results as regards their distance to the market and test it on some research outputs.
2. L'année 2012 est une année de test des outils et stratégies ; l'équipe de WaterRtoM a identifié près de 200 produits potentiellement intéressants. Une cinquantaine de résultats de la recherche ont fait l'objet d'une évaluation en termes de leur distance au marché ; cela signifie : identifier les étapes qu'il reste à développer pour le rendre utilisable par des gestionnaires de l'eau.
3. Water RtoM participated and organised european and national events (Green Week in Brussels, HYDROGAIA in Montpellier, SMAGUA in Saragossa, VODKAN in Poland, POLLUTEC in Lyon, to promote innovations and the added value of a WaterRtoM service.
4. New electronic tools are used and combined to target the interested informed public and at distance to allow make the most of the time of experts and researchers as well as participants: thematic e-seminars, e-fair …
5. More...

Agenda 2013

6. End of the project Water rtoM financed by LIFE, August 2013
7. Preparation of a business Plan for Water RtoM to define how to transform the project in a permanent service
8. Writting of a good practice guidance to speed up the transfer of research results
9. E-seminars
10. Register on line...

The partners of WaterRtoM

With the support of a liaison committee of associated partners

e-seminar: Innovations dans les techniques de restauration des cours d'eau, deux exemples concrets. [Innovations in river restoration technics, 2 concrete cases] (date 02.05.2013, 9.30 à 11.00)

E-seminar Innovations dans les techniques de restauration des cours d'eau, deux exemples concrets. [Innovations in river restoration technics, 2 concrete cases] (date 02.05.2013, 9.30 à 11.00)

1. Objective of the event:

The main objective of this e-seminar is to create awareness on some innovations in the field of river restoration technics close to the market and encourage participants to uptake them. Organised under the umbrella of WaterRtoM, the objective is also to promote concepts and approaches of the project and give the message : Water RtoM is a service to speed up the innovation

The e-seminar is a good tool to favour meeting between project coordinators and the audience in a easy and convenient way.

2. Targeted Audience

The target audience of this event includes four groups: a network of local practitioners on river and catchment management, direct contacts we know are interested in river restoration techniques, direct contacts from WaterRtoM we know are interested in research outputs in water field, and the LC members and their network. As can be seen from the hereunder e-mail list, this includes local, regional and national administrations but also local SMEs, university teachers and representatives from institutional organisations (EEN, chamber of commerce, chamber of agriculture, local representatives of ministry of industry)...

1. the French local authorities: water community of small local river basins (SAGE):

Full list of 250 contacts that received the e-mail below :

Madame, Monsieur,

Dans le cadre du projet WaterRtoM, nous vous invitons à participer à notre e-séminaire (en français) de 1h30 du 2 mai 2013 "Innovations dans les techniques de restauration des cours d'eau, deux exemples concrets.".

Pour participer pas besoin de vous déplacer, une connexion Internet et un microcasque suffisent.

La participation est gratuite mais l'inscription avant le 25 avril 2013 obligatoire ici http://www.waterrtom.eu/en/node/203. Une fois inscrit nous vous enverrons le lien de connexion.

Le programme:

9:30 Accueil des participants et des présentateurs. Introduction courte sur le projet LIFE WaterRtoM, ses objectifs et les outils développés.

9:45 Introduction sur les projets/produits innovants en techniques de restauration des cours d'eau identifiés par WaterRtoM

9:55 Présentation du produit "filtre à sédimentation pour l'abreuvage des bovins"

10:15 Questions - réponses
10:25 Présentation du produit "arbres cablés"
10:45 Questions - réponses
10:55 Courte conclusion et disponibilité des résultats

Les présentateurs:

B. Fribourg-blanc, organisateur et modérateur, impliqué dans le développement des outils pour le projet Water RtoM, Office International de l'Eau
C. Toutant, présentateur, expert sur les techniques d'aménagement de cours d'eau et impliqué dans l'identification et l'analyse d'innovations sur ce thème pour Water RtoM, formateur à l'Office International de l'Eau
N. Lheritier, présentateur, produit filtre à sédimentation pour l'abreuvage des bovins
M. Myrliaz, présentateur, produit arbres cablés

Vous pouvez bien entendu transmettre à vos contacts susceptibles d'être également intéressés.

Sincères salutations.

****

2.direct contacts from WaterRtoM partners interested in river restoration:

bloire@cr-bourgogne.fr; cgabette@aol.com; sabvm@wanadoo.fr; s.loriot@eptb-vienne.fr; celine.boyard@haute-vienne.chambagri.fr; violaine.leycuras@limousin.chambagri.fr; laurent.chabrol@cbnmc.fr; gilles.guibaud@unilim.fr; florence.piola@univ-lyon.fr

3.direct contacts from WaterRtoM partners interested in research outputs in water field:

Pole environnement Limousin, pole de l'eau Hydreos, réseau des CCI, EEN

4.the LC members of the WaterRtoM projects and their networks:
m.forst@limousin.cci.fr; martin.bittens@ufz.de; organizacion@afre.es; simon.ingall@wsstp.eu; Tomasz.Walczykiewicz@imgw.pl; vciomos@ara.ro; yv@verseaudeveloppement.com

Dear members of the WaterRtoM project Liaison Committee,

We would like to inform you that we organise a 1h30 e-seminar (in French) on the 2nd of May on Innovations in river restoration technics, 2 concrete cases (*Innovations dans les techniques de restauration des cours d'eau, deux exemples concrets.*). Participation only needs an Internet connection and headphone and is free, but registration before the 25th of April is mandatory here: http://www.waterrtom.eu/node/203. Once registered you'll receive a confirmation and the link to connect to.

Please find hereunder some more details on this.

The programme:

9:30 Welcome of participants and speakers. Introduction on the LIFE project WaterRtoM, its objectives and developed tools.
9:45 Introduction on innovations in river restoration technics identified by WaterRtoM
9:55 Presentation of product settler filter for cows
10:15 Questions - answers
10:25 Presentation of product wired trees

10:45 Questions - answers

10:55 Short conclusion and availability of results

The speakers:

B. Fribourg-blanc, organiser and moderator, implied in tools development for Water RtoM, Office International de l'Eau

C. Toutant, speaker, expert on river restoration technics implied in identifying and analysing innovations in this field for Water RtoM, trainer/teacher at Office International de l'Eau

N. Lheritier, speaker, product settler filter for cows

M. Myrliaz, speaker, product wired trees

We would very much appreciate if you could disseminate it further in your networks and/or on your website and inform us (URL of the news on your website, copy of the message sent to your contacts....)

We thank you very much for your support to our project and on this

Yours sincerely,

Benoit.

3. Expected behaviour of the targets

To take over one innovation, wired trees, settler filters or an other in the e-fair
Visit the e-fair regularly

4. Message to deliver (simple, clear, concise, single)

To demonstrate the utility of Water RtoM as a service. To have a clear view of wired trees, settler filters and other results in river restoration techniques and possibilities of reuse of the respective processes.

5. Means & Resources to implement to reach the objective

B. Fribourg-blanc, moderator, involved in Water RtoM for Office International de l'Eau
C. Toutant, speaker, expert in river management techniques, involved in Water RtoM for Office International de l'Eau
N. Lheritier, speaker, Syndicat Mixte Monts et Barrages, Bujaleuf, technical expert and project manager of settler filter for cows
M. Myrliaz, speaker, Syndicat mixte du Clain Sud, technical expert and project manager of wired trees project
Language: French
Retro-Planning:

- Define date with the owners: feb. 2013
- Send targeted invitations: max 12/04/2013 (see list above)
- Upload documents on the meeting room: max 25/04/2013
- Send a template to the speaker for their 15' presentation

Confirm to the registered participants the place in sending the link: 5 days -1 day and 30mn before the e-seminar

6. Agenda, planning, date and place

2nd May 2013 – 9:30 – 11:00
The programme:

9:30 Welcome of participants and speakers. Introduction on the LIFE project WaterRtoM, its objectives and developed tools.

9:45 Introduction on innovations in river restoration technics identified by WaterRtoM

9:55 Presentation of product settler filter for cows

10:15 Questions - answers

10:25 Presentation of product wired trees

10:45 Questions - answers

10:55 Short conclusion and availability of results

Place: https://office-international.adobeconnect.com/waterrtom_e-seminar

7. Budget

Man days of Water RtoM project partners, availability of adobeconnect platform for a e-seminar, free contribution from wired trees and settler filters project.

8. Indicators to evaluate the achievement of the objective

Number of participant (10)/number of invitations (280)
Number of interested organisations to continue with Water RtoM
Number of practitioners ready to implement one innovation

9. Main constraints

No participant, technical problems with the platform or the speaker sound, or participants.

10. Implementation of the action

Contacts were started in February with wired trees and settler filter project owners. Tests were conducted to check sound and explain use of the tool during the week before the event, short description of what is expected from the speaker was sent on 12/04/2013.

11. Lessons learnt

* Contacts with the speakers must be taken at an early stage, at least 2 month in advance to guarantee to choose a compatible date with their agenda, and promotion of the relatively low investment this requires from them (online tool, powerpoint compatible) allows to convince them to participate.
* It is very important to check the sound and the webconference tool with all presenters: they need to learn how to use it to allow for a smooth presentation and the sound must be very good to avoid loosing time during the event.
* It is very important to upload the presentations in advance and check the content with the presenter: organisation of the slides or some parts may be changed during the transfer to the online tool.
* It is very important to remind the participants their participation to the event, 1 week before, 1 day before and 1 hour before to allow have the maximum of them to effectively participate.
* having a regular programme of e-seminars, at least once a month, allows significant savings by providing templates and habits, including mailing lists, and draining regular users and interest.

12. Photos – video of the event

- les transparents de Mr Toutant: http://office-international.adobeconnect.com/p7plb5yjid2/
- la présentation par Mr Toutant: http://office-international.adobeconnect.com/p3om36zhf8y/: .
- les transparents de Mr Lheritier (produit filtre à sédimentation pour l'abreuvage des bovins): http://office-international.adobeconnect.com/p63ta00fmkc/
- la présentation par Mr Lheritier: http://office-international.adobeconnect.com/p9itbmspxye/
- les transparents de Mr Myrliaz (produit arbres cablés): http://office-

international.adobeconnect.com/p4ptzgi8875/
- la présentation par Mr Myrliaz: http://office-international.adobeconnect.com/p8rvhpr2038/

13. Presentations (pedagogic documents)

See above and zip file in annexe

Water RtoM Frame for events organization
20th September 2013

Communication Action: ADEMETER **Type of the communication action E-SEMINAR**

1. Objective of the event:

(Information, appropriation, action…), our needs , etc…

The main objective of this e-seminar is to create awareness on the ADEMETER tool and encourage participants to uptake it.

2. Targeted Audience

Target users of ADEMETER output, there are two types

- Water utilities in Romania and Poland

3. Expected behaviour of the targets

To express interest in the tool and be proactive during the discussion.

4. Message to deliver (simple, clear, concise, single)

- Title of the e-seminar: Automated Meter Reading for water management
- Objectives:

The need of sustainable solutions applicable to the Smart Cities of the future encouraged Adevice to develop a solution for water meter reading based based on wireless communication devices.

The e-seminar is part of the Water RtoM promotion marketing strategy aiming at accelerating the transfer of research outputs to practitioners.

5. Means & Resources to implement to reach the objective

Organiser: Amphos 21 (Water RtoM)
Speakers: Adevice
Web system: Adobe connect

6. Agenda, planning, date and place

20th September 2013

7. Indicators to evaluate the achievement of the objective

Number of attendants (max. 15)

Number of potential cross-border contacts
Number of feedback provisions
Level of interactions and pro-active discussion

8. Main constraints

Low attendance, contents too technical, lower involvement of participants.

9. Implementation of the action

Task	Timing	Responsible
First announcement: - Mailing to key contacts - Mailing to other contacts - Using "multipliers" of information	June	Amphos 21 (ADEMETER validates) GFW and CFPPDA contacts
Familiarization of ADEVICE with the e-tool – to plan a meeting	July	Amphos 21
Second announcement: - reminder	September	Gfw and CFPPDA contact
Information on the practicalities of the e-seminar: instructions how does it work, planning pre-meetings with the participants to test the tool	Mid-september	Amphos 21
Mailing and phoning to registered participants to remind the meeting	End-september	Amphos 21
Presentations and contents	End-September	ADEVICE
E-seminar	End-september	Amphos 21 and ADEVICE
Feedback to participants	End-september	Amphos 21 and ADEVICE

Remark:

- **People remember :**
  - 20% of what they ear,
  - 30% of what they see,
  - 50% of what they ear and see in the same time,
  - 80% of what they restitute after reading and earing,
  - 90% of what they say.

10. Results

Some days before the meeting, i twas needed to be cancelled due to two main reasons out of our control :

- We have had no registration to the e-seminar (even if we have mailed the list below three times)

- A lack of involvement of the « owner » who could have engage more in the annoucement activity.

We can only think that this event was not interested for participants, even if we spend a lot of time in the organisation –emailing, preparing presentation with the owner, annoucement, phoning, etc. Other reason might be a languague barrier.

11. Announcement 1

WATER RESEARCH TO MARKET - e-SEMINAR

Automated Meter Reading solution for non-energized meters for urban water.

20th September 2013, 10:00- 11:00am (GTM+1)

adevice

The need of sustainable solutions applicable to the Smart Cities of the future encouraged Adevice to develop a solution for water meter reading based based on wireless communication devices.

The e-seminar is part of the Water RtoM promotion marketing strategy aiming at accelerating the transfer of research outputs to practitioners. The e-seminar brings the possibility to establish active discussions among practitioners and researchers during a 2-hour web-based conference, focused sharply on one topic. The aim of the e-seminar is to address information on new research outputs facing key current problems in the water sector.

This e-seminar provides:

- A key E-lecturer on **Automated Meter Reading for water management.**
- A presentation of the ADEMETER solution, developed by ADEVICE.
- The possibility to stream a discussion between the experts and the water utilities.

Requirements to attend the course:

- Fluent listening English.
- Logistics – internet connected computer with set of headphones with a microphone. (You will receive a confirmation by e-mail with URL address of the web-meeting site).

Registration

- For registration please click HERE or send an email to Ms. Beatriz Medina, beatriz.medina@amphos21.com
- Responsible organisations: AMPHOS21, ADEVICE

More details on Water RtoM eSeminars are available HERE
www.waterrtom.eu

12. Mailing list

Profesor Hanna Obarska	hoba@pg.gda.pl
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Piotr Rostkowski	piotrrostkowski@gmail.com
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Karolina Wołowska	znwi@gdansk.wios.gov.pl
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woj.wielkopolskie powiat międzychodzki	srodowisko@powiat-miedzychodzki.pl
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GMINA WAGROWIEC	osrl@wagrowiec.pl
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Powiat Inowrocławski Janusz Królikow...	osr@inowroclaw.powiat.pl
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camelia.nita@dao.rowater.ro

luminita.mlenajek@rowater.ro

Water RtoM Frame for events organization

Presentation of the Water RtoM Guidelines (English)

Communication Action: Guidelines **Type of the communication action E-SEMINAR**

1. Objective of the event:

(Information, appropriation, action…), our needs , etc…

The main objective of this e-seminar is to create awareness on the Guidelines developed by the project and to further disseminate and create impact at international level.

It was also planned to raised a discussion on the potentiality of "Water RtoM as a Service"

2. Targeted Audience

Targets from water rtom: knowledge users, knowledge brokers, funding organisations, knowledge makers.

3. Expected behaviour of the targets

To express interest in the guidelines and provide ideas to foster Water RtoM as a Service implementation.

4. Message to deliver (simple, clear, concise, single)

- Title of the e-seminar: **Presentation of the Water RtoM Guidelines (SP)**
- Objectives:
  Answer to:
  How can we speed up the transfer of wáter related Research results to the market
  Expected behavior of the audience:
  - To provide feedback on the guidelines, and on the idea of Water RtoM as a service.

5. Means & Resources to implement to reach the objective

Organiser: Amphos 21 (Water RtoM)
Web system: Adobe connect

6. Agenda, planning, date and place

27 July 2013

7. Indicators to evaluate the achievement of the objective

Number of attendants (max. 15) - 0
Number of potential cross-border contacts - 3
Number of feedback provisions - 0
Level of interactions and pro-active discussion – no discussion

8. Main constraints

Low attendance, lower involvement of participants.

9. Implementation of the action

Task	Timing	Responsible
First announcement: - Mailing to key contacts - Mailing to other contacts - Using "multipliers" of information	Beginning of september	Amphos 21 Project website OIEAU contacts
Information on the practicalities of the e-seminar: instructions how does it work, planning pre-meetings with the participants to test the tool	25th September	Amphos 21
E-seminar	27th July	Amphos 21

List of inscriptions :

1. Stephen Midgley (IZAERA)
   Athina (
2. Athina Papatheodoulou (Terra Cypria)

Hosts: Beatriz Medina (Amphos 21), Natacha Jacquin (OIEAU)

10. Announcement and mailing

The e-seminar is part of the Water RtoM promotion marketing strategy aiming at accelerating the transfer of research outputs to practitioners.

Water RtoM Guidelines *provide best practices* ***to speed-up the transfer*** *of water related research outputs to practitioners based on project partners' experience, gained during the project. The guide offers the perspective of realities by national markets of water in which the four partners have implemented the project.*

The specific objectives of these Guidelines are:

- *To introduce a **set of tools** that supports the dissemination and the promotion of the research outputs to the market, all of them developed during Water RtoM project,*
- *To provide **10 best practices** for the water knowledge transfer coming from lessons learnt of Water RtoM project,*
- *To recommend on how to better achieve the water knowledge transfer.*
- *Your comments are welcome (clic on JOIN the Community)...*

This e-seminar aims to further present the Guidelines to an specific audience.

Requirements to attend the course

- *Fluent listening English*

- *Logistics - set of headphones with a microphone.*

Registration

For registration, please send an e-mail to Ms. Beatriz Medina: beatriz.medina@amphos21.com

Responsible partner: AMPHOS21

Link to ePlatform: http://office-international.adobeconnect.com/e-seminar/

More details on Water RtoM eSeminars are available HERE
www.waterrtom.eu

EMAIL

Dear participant of the last Water RtoM e-seminar,

We registered your participation to the Water RtoM E-seminar that will take place next Friday 27th of September from 10:00 to 11:00 am (GMT+1)
Please find attached a short description of the E-Seminar, indications on how to connect.

Key REQUIREMENTS

The E-seminar will be held using the Adobe Connect tool. The only requirements to connect are:

- *To preferably connect a microphone and headphone to your computer before opening the following link.*
- *To click on the following link: **http://office-international.adobeconnect.com/e-seminar/***
- *To enter the name you want to see on the screen (your name/surname or the name of your organisation) and enter.*

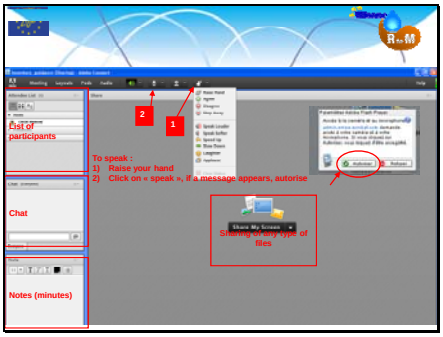
I will be connected for some test from 9:30. I invite you to connect at minimum 10mn before to check your session is in order.

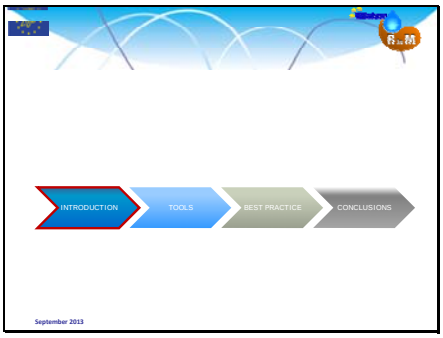
Should you have any problem to attend the meeting please inform us in advance.

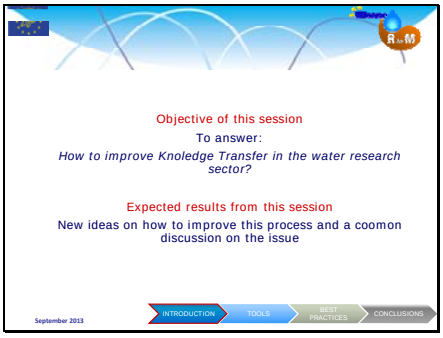
Best regards

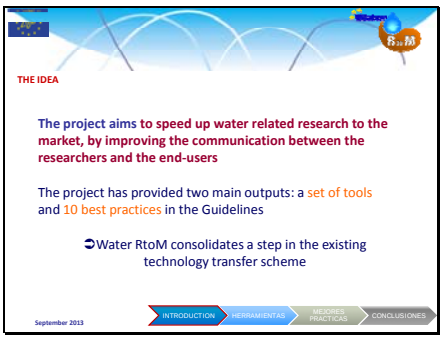
Beatriz Medina

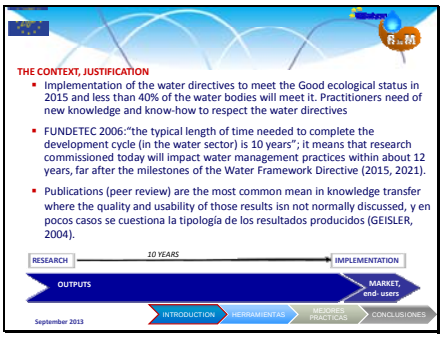
11. Presentation

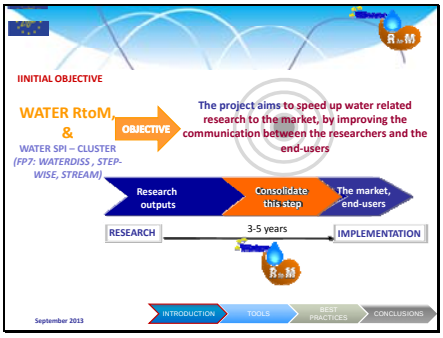



INTRODUCTION
TOOLS
BEST PRACTICE
CONCLUSIONS
September 2013

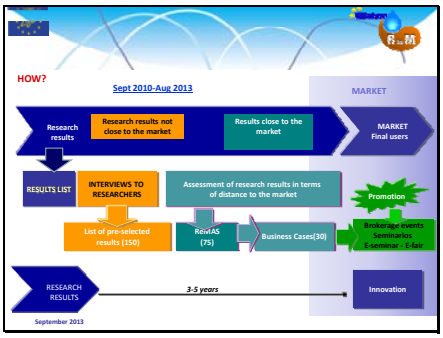

Objective of this session
To answer:
How to improve Knoledge Transfer in the water research sector?
Expected results from this session
New ideas on how to improve this process and a coomon discussion on the issue
September 2013
INTRODUCTION
TOOLS
BEST PRACTICES
CONCLUSIONS

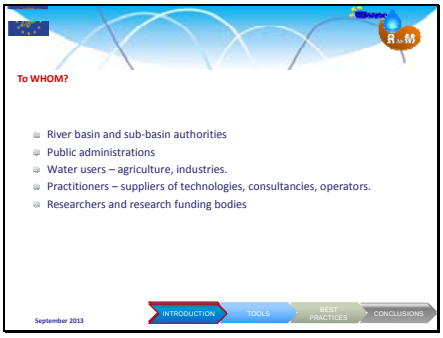

THE IDEA
The project aims to speed up water related research to the market, by improving the communication between the researchers and the end-users
The project has provided two main outputs: a set of tools and 10 best practices in the Guidelines
➲Water RtoM consolidates a step in the existing technology transfer scheme
September 2013
INTRODUCTION
HERRAMIENTAS
MEJORES PRACTICAS
CONCLUSIONES


THE CONTEXT, JUSTIFICATION
Implementation of the water directives to meet the Good ecological status in 2015 and less than 40% of the water bodies will meet it. Practitioners need of new knowledge and know-how to respect the water directives
FUNDETEC 2006:"the typical length of time needed to complete the development cycle (in the water sector) is 10 years"; it means that research commissioned today will impact water management practices within about 12 years, far after the milestones of the Water Framework Directive (2015, 2021).
Publications (peer review) are the most common mean in knowledge transfer where the quality and usability of those results isn not normally discussed, y en pocos casos se cuestiona la tipología de los resultados producidos (GEISLER, 2004).
RESEARCH
10 YEARS
IMPLEMENTATION
OUTPUTS
MARKET, end- users
September 2013
INTRODUCTION
HERRAMIENTAS
MEJORES PRACTICAS
CONCLUSIONES


IINITIAL OBJECTIVE
WATER RtoM, &
WATER SPI – CLUSTER
(FP7: WATERDISS , STEP-WISE, STREAM)
OBJECTIVE
The project aims to speed up water related research to the market, by improving the communication between the researchers and the end-users
Research outputs
Consolidate this step
The market, end-users
RESEARCH
3-5 years
IMPLEMENTATION
September 2013
INTRODUCTION
TOOLS
BEST PRACTICES
CONCLUSIONS


THE CONSORTIUM
INTERNATIONAL OFFICE FOR WATER, OIEAU, FRANCE (Project manager) – French Service for Information on Water, National training center, Institutional and international expertise on IWRM
AMPHOS 21, SPAIN – Strategic and environmental consultancy in IWRM and environmental topics
GDANSK WATER FOUNDATION, GFW, POLAND – Training center and interface research centers to end-users
FOUNDATION PROFESSIONAL TRAINING CENTER IN WATER PUBLIC SECTORS ROMANIA – Training and expertise center, specialized body of the Romanian Water Association
LIAISON COMMITTE
WssTP
September 2013
INTRODUCTION
HERRAMIENTAS
MEJORES PRACTICAS
CONCLUSIONES


HOW?
Sept 2010-Aug 2013
MARKET
Research results
Research results not close to the market
Results close to the market
MARKET Final users
RESULTS LIST
INTERVIEWS TO RESEARCHERS
Assessment of research results in terms of distance to the market
Promotion
List of pre-selected results (150)
ReviAS (75)
Business Cases(30)
Brokerage events Seminarios E-seminar - E-fair
RESEARCH RESULTS
3-5 years
Innovation
September 2013


To WHOM?
River basin and sub-basin authorities
Public administrations
Water users – agriculture, industries.
Practitioners – suppliers of technologies, consultancies, operators.
Researchers and research funding bodies
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PROJECT RESULTS
IN FIGURES
✓206 outputs selected
✓82 research outputs assessed in term of distance to the market
✓30 research outputs assessed through a business case
✓1 Precursor Market Strategy
✓1 Guidelines of tools and best practices
✓16 events
✓Periodical thematic e-seminars per year
IN TOOLS
✓Set of methods and tools to improve the market uptake of water research results.
✓Guidelines to summarize the process with recommendations
✓A potential service description
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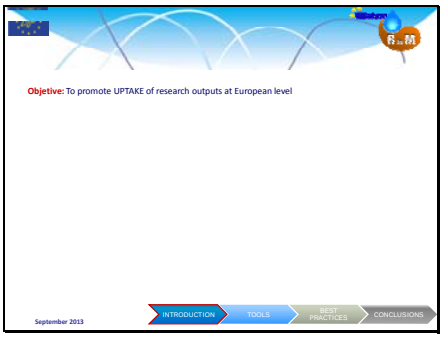
Objetive: To promote UPTAKE of research outputs at European level
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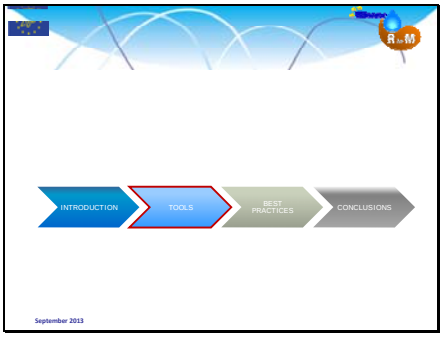
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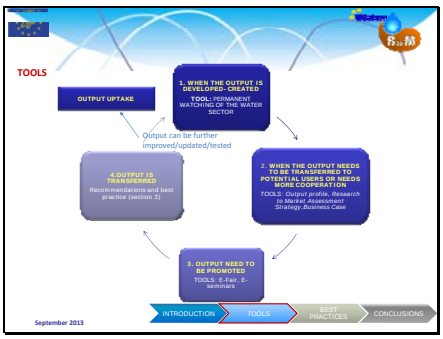
TOOLS
OUTPUT UPTAKE
1. WHEN THE OUTPUT IS DEVELOPED- CREATED
TOOL: PERMANENT WATCHING OF THE WATER SECTOR
Output can be further improved/updated/tested
2. WHEN THE OUTPUT NEEDS TO BE TRANSFERRED TO POTENTIAL USERS OR NEEDS MORE COOPERATION
TOOLS: Output profile, Research to Market Assessment Strategy ,Business Case
3. OUTPUT NEED TO BE PROMOTED
TOOLS: E-Fair, E-seminars
4.OUTPUT IS TRANSFERRED
Recommendations and best practice (section 3)
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PERMANENT WATCHING
Tool name
Permanent watching
Objective
Methodology to list water research projects and codify key information on research outputs
Description
Permanent watching is step one. After launching a search, a data-base with the addresses of important web- pages and programs is formed, and in some cases the first contact with the researchers. What is more, in the same data base, each of the partners put the major information about the output: its name, way of financing, basic subject and a short description with contact details in the excel file underneath.
Advantages
A logical and codified existing database is available to everyone who looks for specific outputs. Permanent watching is also the first evaluation tool to decide whether the product qualifies for further promotion or not.
This common database allowed Water RtoM projects partners to homogenise the information from the different national realities.
Next Developments
Permanent watching of the sector has been mainly dedicated to look at the water research sector. The approach to identify market needs and keep them updated and connected with the research projects needs to be further developed. Water RtoM approach was done in accordance with the regularly intervention of the Liaison Committee partners (LC)
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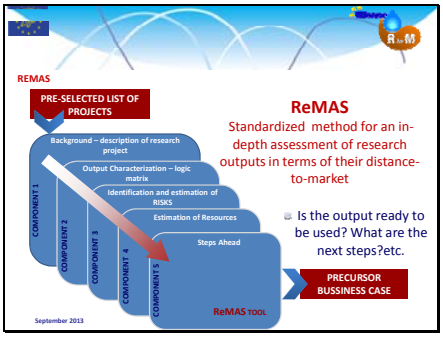
REMAS
PRE-SELECTED LIST OF PROJECTS
Background – description of research project
Output Characterization – logic matrix
Identification and estimation of RISKS
Estimation of Resources
Steps Ahead
COMPONENT 1
COMPONENT 2
COMPONENT 3
COMPONENT 4
COMPONENT 5
ReMAS TOOL
ReMAS
Standardized method for an in-depth assessment of research outputs in terms of their distance-to-market
Is the output ready to be used? What are the next steps?etc.
PRECURSOR BUSSINESS CASE
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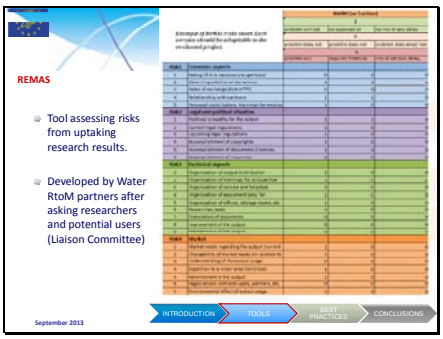
REMAS
Tool assessing risks from uptaking research results.
Developed by Water RtoM partners after asking researchers and potential users (Liaison Committee)
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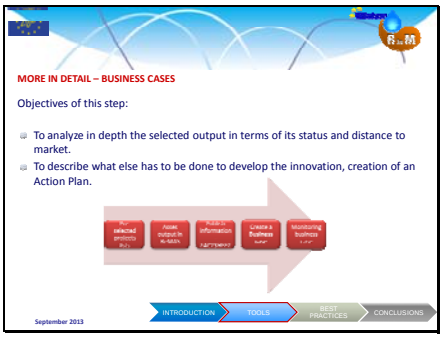
MORE IN DETAIL – BUSINESS CASES
Objectives of this step:
To analyze in depth the selected output in terms of its status and distance to market.
To describe what else has to be done to develop the innovation, creation of an Action Plan.
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MORE IN DETAIL – BUSINESS CASES
In October 2012...
Output
BC STATUS – RANKING
DEWELOPMENT
Achieved
ZIZOZAZ
Achieved
WCMS (water change)
In progress
GENESIS
In Progress
APIFLOT
In progress
INCOAGEN
In progress
PROPLIPHIC
In progress
EHREK
In progress
EKOROB
In progress
GNIEZNO
In Progress
REDSIM-IS
In progress
SEMEAU
In progress
AGUAFLASH
In progress
SMAA
Achieved
ECOWATCH
Draft
APORT
Draft
NPPT
Draft
AG-GUAS
Draft
Note: Status BC:
Achieved: output has been implemented into the Market.
In progress: Action plan (third phase BC) is active, Output has been analysed. Information in BC could be updated.
Draft: Output is being analysed. Factsheets is already done and is public.
ReMAS: Output needs first to be assessed by ReMAS tool, therefore after this evaluation the output can result not an innovation precursor and be revoked from this list.
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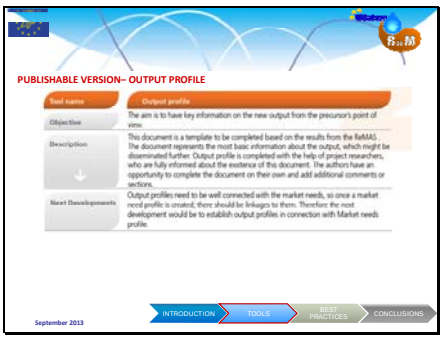
Table. Innovation precursors ranking by status


PUBLISHABLE VERSION– OUTPUT PROFILE
Tool name
Output profile
Objective
The aim is to have key information on the new output from the precursor's point of view.
Description
This document is a template to be completed based on the results from the ReMAS . The document represents the most basic information about the output, which might be disseminated further. Output profile is completed with the help of project researchers, who are fully informed about the existence of this document. The authors have an opportunity to complete the document on their own and add additional comments or sections.
Next Developments
Output profiles need to be well connected with the market needs, so once a market need profile is created, there should be linkages to them. Therefore the next development would be to establish output profiles in connection with Market needs profile.
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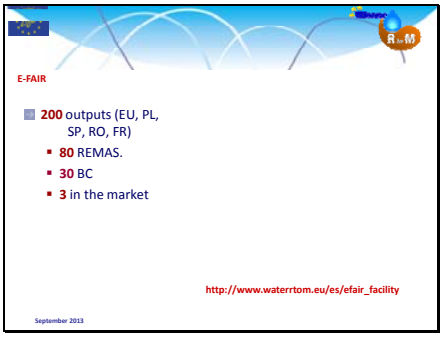
E-FAIR
200 outputs (EU, PL, SP, RO, FR)
80 REMAS.
30 BC
3 in the market
http://www.waterrtom.eu/es/efair_facility
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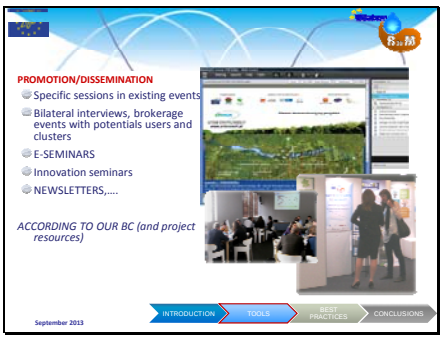
PROMOTION/DISSEMINATION
Specific sessions in existing events
Bilateral interviews, brokerage events with potentials users and clusters
E-SEMINARS
Innovation seminars
NEWSLETTERS,....
ACCORDING TO OUR BC (and project resources)
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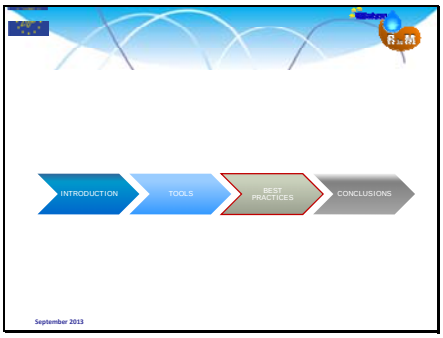
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STEP 1: IDENTIFYING USER NEEDS
IDENTIFYING USER NEEDS from research and enhancing their visibility
ANSWERS TO THE NEEDS
LESSONS LEARNT
• Difficulties to match offer and need/demand (research not always answer to end-user's needs).
• Working with clusters and networks, makes it easier.
• Many efforts/resources to participate at end-users' events, and this complicates an efficient permanent watching of the water market.
RECOMMENDATIONS
• Networking
• More events where KU meet KM.
• To set a strategy to assist end-users to better identify what are their needs.
• F should work at operational level to take up the CIS-SPI principles.
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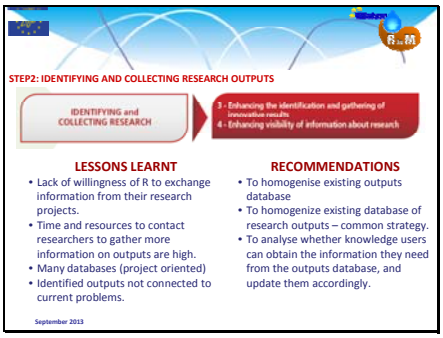
STEP2: IDENTIFYING AND COLLECTING RESEARCH OUTPUTS
IDENTIFYING and COLLECTING RESEARCH
3 - Enhancing the identification and gathering of innovative results
4 - Enhancing visibility of information about research
LESSONS LEARNT
• Lack of willingness of R to exchange information from their research projects.
• Time and resources to contact researchers to gather more information on outputs are high.
• Many databases (project oriented)
• Identified outputs not connected to current problems.
RECOMMENDATIONS
• To homogenise existing outputs database
• To homogenize existing database of research outputs – common strategy.
• To analyse whether knowledge users can obtain the information they need from the outputs database, and update them accordingly.
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STEP 3: ASSESING RESEARCH OUTPUTS IN TERMS OF DISTANCE TO THE MARKET
ASSESSING RESEARCH OUTPUTS IN TERMS OF
5 - Using a framework for analysis to assess the distance to market of research outputs
6 - Facilitating reuse and implementation of research outputs (IPR)
7 - Creating users' commitment (how do we know if the innovation offer has been relevant according to the addressed needs?)
8 - Developing a tool matching needs and offer
LESSONS LEARNT
• Distance to market can be calculated with the ReMAS.
• Available information on outputs is normally in scientific language, it needs "translation"
• KM need support to think next steps for output implementation.
• LC supported very efficiently Water RtoM.
• E-fair only effective for the research side.
RECOMENDACIONES
• To involve KU in the definition of "next steps".
• To develop a connection system to identify and link the research outputs with user's needs.
• To detailed reliable Action Plan to uptake the output + develop agreements with owners .
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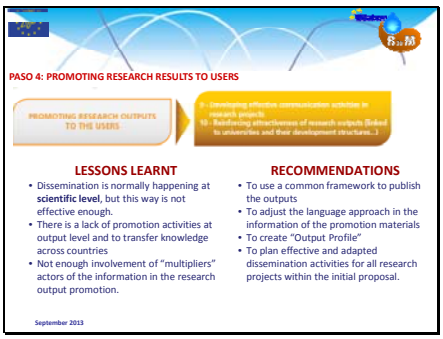
PASO 4: PROMOTING RESEARCH RESULTS TO USERS
PROMOTING RESEARCH OUTPUTS TO THE USERS
9 - Developing effective communication activities in research projects
10 - Reinforcing attractiveness of research outputs (linked to universities and their development structures...)
LESSONS LEARNT
• Dissemination is normally happening at scientific level, but this way is not effective enough.
• There is a lack of promotion activities at output level and to transfer knowledge across countries
• Not enough involvement of "multipliers" actors of the information in the research output promotion.
RECOMMENDATIONS
• To use a common framework to publish the outputs
• To adjust the language approach in the information of the promotion materials
• To create "Output Profile"
• To plan effective and adapted dissemination activities for all research projects within the initial proposal.
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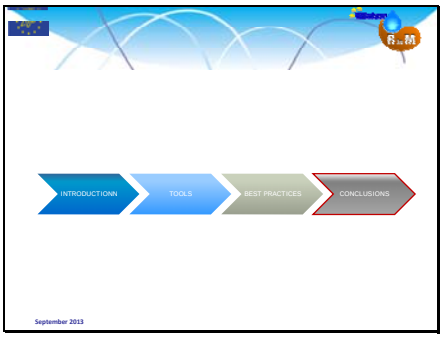
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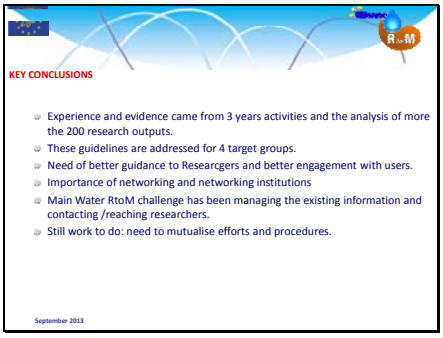
KEY CONCLUSIONS
Experience and evidence came from 3 years activities and the analysis of more the 200 research outputs.
These guidelines are addressed for 4 target groups.
Need of better guidance to Researcgers and better engagement with users.
Importance of networking and networking institutions
Main Water RtoM challenge has been managing the existing information and contacting /reaching researchers.
Still work to do: need to mutualise efforts and procedures.
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WATER RTOM AS A SERVICE?
September 2013


¡Thank you!
Download at:
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