

Thematic Session:

Title: INSPIRE: a backbone for water community in the future?

Abstract : Multi-benefits approach and functionalities of a waste water dissemination website (<http://uwwtd.oieau.fr/>) that implements INSPIRE services. How to use it and how to reuse this approach in other fields? How to go further to INSPIRE requirements for the benefit of the final users..

- **Purpose of the thematic session including specific learning objectives.**

Under a European Commission pilot project, International Office for Water has developed an open source generic website dedicated to urban waste water. It can be used by European Member States to disseminate urban waste water information based on a common European data model. It includes INSPIRE services requested under Article 11 of the INSPIRE directive. The generic site contains also automatic features that go beyond INSPIRE requirements: compliance calculations, graphic viewing, individual sheets for each agglomeration, waste water treatment plant, discharge point, and receiving area, a facilitated access to dataset including via web services and various print and export functions. It has been successfully tested at national level by some pilot countries such as Romania or Cyprus.

The way the system is organized enables further developments and evolutions. It contributes to improve the implementation of the Urban Waste Water Treatment Directive, on one of the most expensive European environmental legislation.

The objective of this thematic session is to present the multi-benefits approach and the functionalities of the IT system created and how it has been welcomed by pilot countries. It will explore not only how this approach can be reused by others in other fields but also propose debates on the way forward by presenting and discussing the issues raised during the pilot project, with in view to think about the future of INSPIRE directive:

INSPIRE implementation issues

- Is the website INSPIRE compliant?
- How to make the environment domain¹, IT and GIS community meet?
- Do we have to leave each Member State alone to address INSPIRE data harmonisation?
- Do we have to create INSPIRE environmental domains community to develop guidance, data model, IT data filling and dissemination tools for each policy?
- Do we have to start harmonising data to the INSPIRE rules or develop first end-users applications with data not INSPIRE compliant?
- Are the existing INSPIRE guidance compatible with the environmental domains data models?
- ...

Going beyond INSPIRE

- Do we have to develop also generic European data filling tools based on common data model in the future?

¹ Environment domain is here understood as the core domains: water, air, waste and soil and their sub-domains (ex: urban waste water, drinking water...)

- Do we have to develop best practice website implementing INSPIRE services?
- What is the good frequency for updating data models and IT systems related?
- How to maintain and update IT systems?
- How to link data together?
- How to enlarge the use of data?
- Concerning a policy, do we have to develop one end-user application compatible to different users' needs or an end-user application per user need.
- Is English the unique language that has to be used in European data model, data filling and dissemination tools?
- How to use INSPIRE to improve the world influence of the European Union?
- Do we contribute to investments, growth and jobs with INSPIRE and end-users application?
- Is it worth collecting and disseminating data on European policies?
- Do we save time and money with creation of European integrated management tools?
- Is it the role of European or world institution to create common data models and dissemination tools to help countries to manage correctly European or world policies?
- Is transparency needed and does it lead to more or less administrative burden?
- Is INSPIRE going to help implementing sustainable development goals?
- Can we propose the framework to SME's to develop their business?
- What about developing IT systems following the same principles than Facebook or LinkedIn replacing information about people by information about objects?
- ...

further information :

Waste water policy

- To learn more about [Urban Waste Water Treatment Directive \(UWWTD\)](#) [EN]

Commission pilot project

- [First phase](#) [EN]
- [Second phase](#) [EN]
- [Third phase](#) [EN]
- [Last SIIF meeting](#) [EN]
- [Synthesis](#) [EN]

Urban waste water generic website

- [UWWTD Ghitub platform](#) -
- Ireland - [UWWTD SIIF Ireland : visit website](#) [EN]
- Cyprus - [UWWTD SIIF Cyprus : visit website](#) [EN]
- Lithuania - [UWWTD SIIF Lithuania : visit website](#) [EN]
- Slovenia - [UWWTD SIIF Slovenia : visit website](#) [EN]
- Croatia - [UWWTD SIIF Croatia : visit website](#) [EN]
- Romania - [UWWTD SIIF Romania : visit website](#) [EN]
- Poland - [UWWTD SIIF Poland : visit website](#)[EN]

- **Contact Information for Proposed Workshop (name, title, address, country, phone, fax, e-mail)**

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MS2					

- **Target workshop audience.**

INSPIRE/GIS/Web developers, World/EU/national/regional/local institutions, Water stakeholders, Sme's, Researchers, general public

- **Length of the thematic session (Number of 90 Minute sessions).**

1h30 in three parts see detailed description below

- **AV requirements.**

Beamer, screen, computer and microphone for questions

- **Room setup requests**

Chairs and a four seat table for the speakers and the Chair person. Size to be defined as regards the topic

- **Instructions for participants - materials required (laptops, pre-workshop preparation)**

Nothing

- **Detailed description of your event (including workshop agenda and list of speakers).**

I The INSPIRE Urban Waste water website functionalities – Benoit Fribourg-Blanc (40 minutes)

Benoit Fribourg-blanc, the developer of the website, will present its multi-functionalities. He will explain how he has used INSPIRE for the benefits of the users.



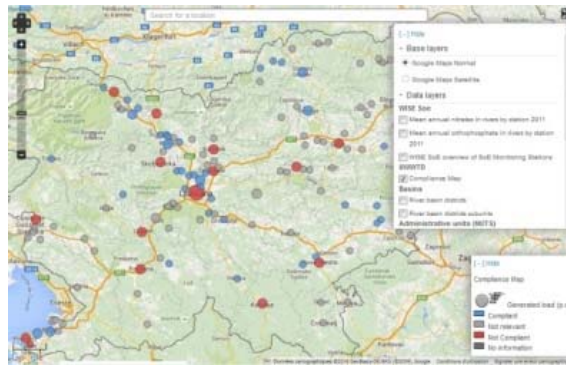
Inspire services



Automatic compliance calculation



Automatic statistic generation



Automatic compliance visualisation

Document to be published with more illustrations

II Point of view of a website user – Corina Boscornea – National Administration “Romanian Waters”- Romania (20 minutes)

Romania has accepted to become involved in the Commission project to test the website at national level. Romania is a country that has still to invest billions of euros in urban waste water policy to achieve the requirements of the urban waste water directive. Corina Boscornea will present her point of view on this project and why Romania is going now to use it.

III What else – a DREAM to the future – Bruno Rakedjian, - European Commission – DG Environment (30 minutes)

DG Environment has contributed to the development of a generic waste water website that is now operational. This approach opens way to similar structured approaches and developments of IT systems under other policies. It opens also windows to new opportunities. It has now to escape to its developers. Bruno Rakedjian will provide ideas for future development that not only are related to INSPIRE services but also INSPIRE data harmonisation.



Benoit Fribourg-Blanc

EU Project Manager

Office International de l'Eau, France (www.oieau.org)

Biography

Benoit FRIBOURG-BLANC has been working for OIEau since 2000 on projects on water, water pollution and data, assisting the European institution for the implementation of water Directives. Graduate in agriculture and advanced master on drinking water production and wastewater management by education, he was particularly active on projects at the interface between water emission and pollution, and data management and reporting to European institutions since.

Since three years he is involved in the development of the UWWTD SIIF concept (uwwtd.oieau.fr). During this period he participated to the definition of the UWWTD SIIF concept document, to production of various assessments on country situation including as regards implementation of INSPIRE, and coordinated the team who developed the UWWTD SIIF platform.

He was in charge in 2013-2016 of the development of the European knowledge platform on Natural Water Retention Measures (<http://www.nwrm.eu/>). Before, he has been involved seven years in the technical assistance to the European Commission on the definition of relevant priority substances under the Water Framework Directive. He led the development of the new information system, managed the data collection, the database (14.6 million geo localised individual chemical analyses with up to 150 information on each analysis) and the associated website (still active) and produced assessments on the datasets.

He is also an active member of the European Topic Centre on Inland, Coastal and Marine waters for the European Environment Agency since January 2014 and before from 2000 to 2006, period during which he was in charge of emission inventory. Since 2012, he is trainer on water statistics for EUROSTAT.



Corina Cosmina Boscornea

Romanian national expert

Natuional Administration Romanian Waters

Biography

Corina Cosmina BOSCORNEA is graduate in chemical engineering sciences and PhD in technical sciences. He has specialised in environmental protection especially in the field of waste waters technologies.

She started working in National Institute for Research Development in Environmental Protection – ICIM Bucharest contributing to the development of national legislation for implementation of Urban Waste Water Treatment Directive in Romania and to the improvement of wastewater treatment technologies, wastewater plant monitoring methodologies, combined chemical-biological solutions for urban wastewater treatment (i.e. for Bucharest, Brasov, Constanta, Braila big agglomerations).

She published some papers regarding the new treatment processes of urban wastewater containing refractory pollutants, methodology for sensitive areas identification under UWWTD requirements, extensive advanced system for waste water discharges from medium and small

human agglomeration, challenges concerning the building of waste water infrastructure in Romania, according to the requirements of European Union, etc..

Since 2007 is member of the Expert Group for Urban Wastewater Treatment Directive 91/271/EEC of the European Commission, member of the National Committee for implementation and reporting of the Regulation no 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register and member of National Chemistry Society of Romania.

She developed also studies for implementation of the Regulation 2001/761 allowing voluntary participation by organisations in a Community eco-management and audit scheme (EMAS) into Romanian legislation and she was executive director of the first certification body under EMAS scheme in Romania.

Since 2005 she started working in the water management field at National Administration Romanian Waters in Bucharest, where was coordinator of Muntenia and Dobrogea regions in the Department of Management Plans and International Cooperation. After 2010 until nowadays he is the Head of Office for Danube River Basin Management Plan in the River Basin Management Plans Department. The main activities are focused on coordination and checking the activities for assessment of River basin Management Plans and elaboration and promotion of methodological guidelines for implementing of Water Framework Directive, elaboration of Programme of Measures for pollution sources from urban agglomerations and industry sectors, according to the European Directives and national legislation requirements (WFD, UWWTD, IPPC, SEVESO, Land disposal), coordinating and participation to international projects for implementation of Water Framework Directive (PHARE, MATRA, FFEM, FP7), annual reporting to Ministry of Environment, Waters and Forests the level of implementation of Urban Wastewater Treatment Directive 91/271/EEC in Romanian and reporting to European Commission the implementation progress in Romania concerning the Urban Wastewater Treatment Directive 91/271/EEC (requirements under art. 15, 16 and 17), water Framework Directive 2000/60/EC (art. 11 and art. 13) and E-PRTR Regulation no 166/2006 for water field.

Since 2015, she has been involved as a national expert in European pilot project SIIF ([Structured Implementation and Information Framework](#)), in order to better report the information at European level and also to disseminate the waste water information as regards the requirement of the INSPIRE and the public access to environmental information directives. Under SIIF project she organised national discussions about the implementation and data organisation of the UWWTD and promoted the national website under SIIF.



Bruno Rakedjian

European Commission Directorate-General for the Environment

Unit C2: Marine Environment & Water Industry Belgium

Biography

Bruno RAKEDJIAN is a French project manager graduated in urban development policy (advanced engineering degree). He has specialised in water policy, especially in the field of urban wastewater.

He started working in the field of flood prevention and waste policy as a policy officer in Bangui (Central African Republic) on behalf of the French Ministry of Cooperation (national voluntary service).

Then he worked seven years for the SIAAP (waste water public utility of Parisian agglomeration) and was in charge of the studies of ones of the biggest treatment plants in France (Seine-aval, Seine-centre).

In 2000, he joined during two years the social urban development policy service of the City of Paris acting with NGO's as project manager in a district of Paris.

Then he worked five years for the Seine-Normandy river basin department (local authority of the French Ministry of Environment). He was in charge of the implementation of the urban waste water treatment directive (UWWTD), the nitrate directive and the water framework directive (related to waste water aspects) in this river basin.

After this period he joined the national level of the French Ministry of Environment in charge of the implementation of the UWWTD. He wrote and implemented two national waste water implementation plans ([2007-2011](#) and [2012-2018](#)) and published yearly different indicators. He created with colleagues the [French waste water website](#). He managed the waste water data collection and European UWWTD reporting. He was in charge of the waste water training in France and went dozens of times on the ground to assess the waste water situation and to help local authorities to implement correctly the UWWTD. He was in contact with the European Commission as regards the implementation of the UWWTD in France, but also as speaker to present the French approach in different countries (Armenia, Lithuania, [Montenegro](#), Serbia, Romania, Poland). He crossed lots of different indicators to show the positive results on water quality related to UWWTD implementation. This approach and the network he built with river basin agencies, local authorities, water experts and stakeholders helped France not to be financially [sentenced by the European Court of Justice](#).

Since 2013, He has been working as a French seconded national expert in the 'water industry team' of the DG Environment of the European Commission. He is specifically in charge of the implementation of the urban waste water policy and also of a pilot project, the SIIF ([Structured Implementation and Information Framework](#)), to help Member States to better report their information at European level and also to disseminate nationally their waste water information as regards the requirement of the INSPIRE and the public access to environmental information directives. For this project he was several times on the ground (CY, HR, LT, PL, RO, SI) and organised national discussions about the implementation and data organisation of the UWWTD. He was at the source of its new implementation programme and [his analysis](#) allowed for the first time the Commission to have a better view of the investment costs of the directive: 25 billion each year. He also implemented a new approach called '[distance to compliance](#)' in order to have a better picture of the real situation in each Member State. Both approaches are included in the [8th urban waste water report](#). He is also in charge of the storm water sewage overflow policy and [has proposed approaches](#) to reduce this pressure on the environment.