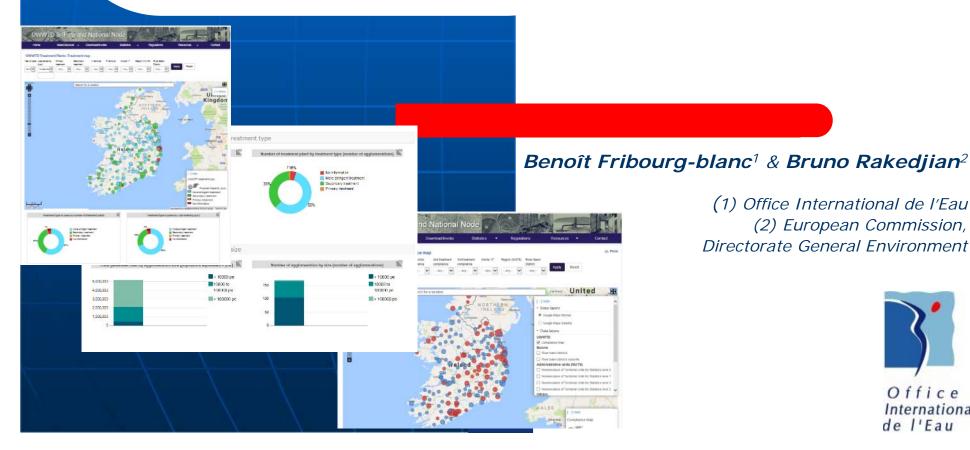
Thematic Plenary I: INSPIRE for Environment – closing the implementation gap



# INSPIRE for Reporting and Dissemination of Urban Waste Water Information



(1) Office International de l'Eau (2) European Commission, Directorate General Environment





## **Objectives & context**



#### Better implementation of Directives:

- Urban Waste Water Directive 91/271/EEC
- INSPIRE Directive 2007/2/EC
- public access to environmental information Directive 2003/4/EC

#### A specific context:

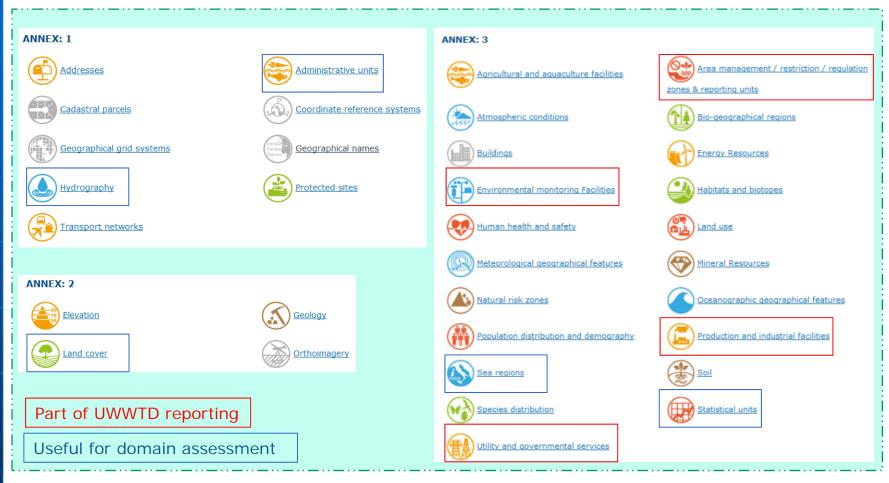
- → A need to speed up availability of information on Urban Waste Water and its Treatment (UWWT)
- → A new concept: Structured Implementation and Information Framework (SIIF)
- → A requirement for **testing** on a well established EU reporting framework: the biannual UWWT Directive reporting



#### Internationa de l'Eau

## Under contract for

## **UWWTD SIIF: INSPIRE Themes covered**



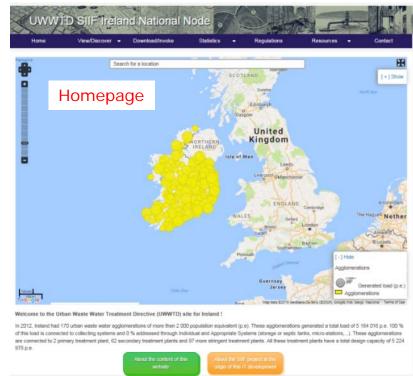
- → INSPIRE **highly relevant** for the UWWTD SIIF
- → BUT: not ultimate objective for UWWTD SIIF



### What was done?



- In close collaboration with Commission and pilot Member States
- Creation of a generic open source waste water website
  - Inspire compatible (Inspire services, organisation,...)
  - showing and using the data,
  - disseminating the data
  - tool free to be reused,
  - including many functionalities,
  - with maps, graphs, tables
  - with individual fiches...
  - and allowing regular evolution.



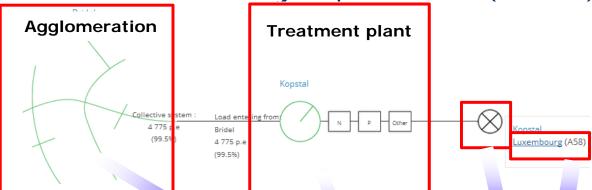
- Generic website: uwwtd.oieau.fr
- 2. web tool and documentation for developers:

https://github.com/OIEau/uwwtd



# UWWTD SIIF: a tool for environmental domain experts

- → INSPIRE schemas are not available for all objects
- → The INSPIRE services are **not fully** implemented (needed?)



UWWT Directive			Agglomerations	Treatment plants	Discharge points	Sensitive areas
DISCOVERY SERVICE	[INSPIRE] Service making it possible to search for spatial data sets and services on the basis of the content of the corresponding metadata and to display the content of the metadata.	Implementation	YES	YES	YES	YES
		Userfriendly	YES	YES	YES	YES
		Catalogue Midlleware	YES	YES	YES	YES
		Comment / layer	YES	YES	YES	YES
		url hyperlink	http://www.uwwtd.oieau.fr/catalogue/srv/ows/catalog.search#/home			
		Comment for the service	Doesn't exist but the metadata a			
	[INSPIRE] Service that makes it possible, as a minimum, to display, navigate, zoom in and out, pan or overlay viewable spatial data sets and to display legend information	Implementation	Available on the geo catalogue  YES YES YES YES YES			YES
		Userfriendly	YES	YES	YES	YES
VIEW SERVICE		SIG Midlleware	Geoserver	Geoserver	Geoserver	Geoserver
		Comment / layer	GCGGCIVCI	GCGGCIVCI	GCOSCIVCI	Geogerver
		url hyperlink		WMS URL		
		Comment for the service			implemented and fully functionnal	
		Implementation	YES	YES	YES	YES
DOWNLOAD SERVICE	[INSPIRE] Service that enables copies of spatial data sets, or parts of such sets, to	Userfriendly	YES	YES	YES	YES
		SIG Midlleware	Geoserver	Geoserver	Geoserver	Geoserver
	be downloaded and, where practicable,	Comment / layer		21111	21111	
	accessed directly.	url hyperlink			WFS URL	
		Comment for the service			implemented and fully functionnal	
TRANSFORMATION SERVICE	[INSPIRE] Service that enables spatial data sets to be transformed with a view to achieving interoperability	Implementation	NO	NO	NO	NO
		Userfriendly	NO	NO	NO	NO
		SIG Midlleware	Geoserver	Geoserver	Geoserver	Geoserver
		Comment / layer	pre processed	pre processed	pre processed	pre processed
		url hyperlink				
		Comment for the service	No implemented yet			

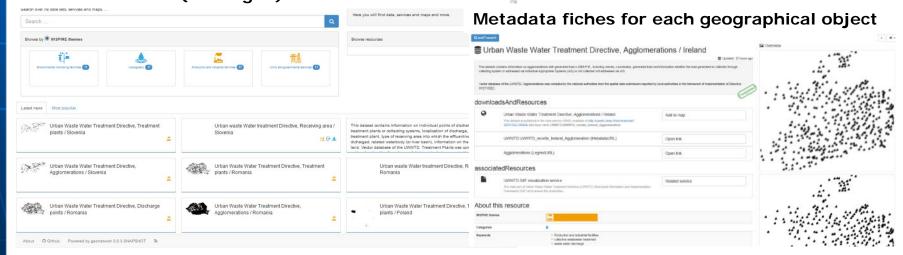


## Implement INSPIRE Article 11: Discover



**Discover: Metadata** 

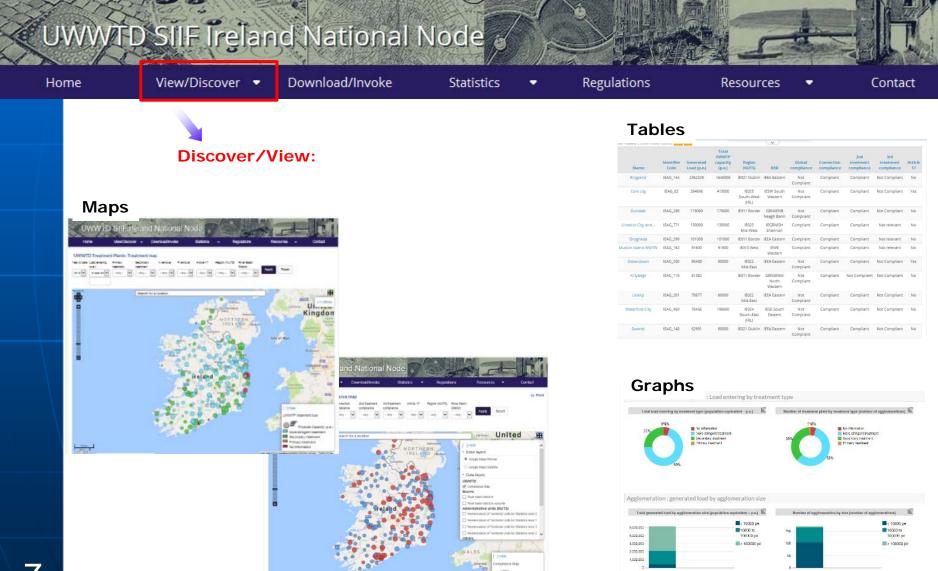
Dissemination via Geoserver (cartographic service) and Geonetwork (catalogue)



#### → To be developed: dissemination of statistics



## Implement INSPIRE Article 11: View



7

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## Implement INSPIRE Article 11: Download

# UWWTD SIIF Ireland National Node Home View/Discover Download/Invoke Statistics Regulations Resources Contact

#### **Download**

#### Data and metadata

In this section you can access to the data used on the platform and download them.

#### Select the

2012 Apply Reset

1			
Title	Coverage	Flles avallable	
Full UWWTD reported data	Country	xml	
Agglomerations	Country	xml, csv, shp, kml	
Urban Waste Water Treatment plants	Country	xml, csv, shp, kml	
Discharge points	Country	xml, csv, shp, kml	
Sensitive areas	Country	xml, csv, shp, kml	

#### Motadata

In this section you can access the metadata fiches for each of the four geographical layers covered by UWWTD //01/271/6

Title	Coverage	Download	VIew
Agglomerations	Country	xml, pdf	html, xml, pdf
Urban Waste Water Treatment plants	Country	xml, pdf	html, xml, pdf
Discharge points	Country	xml, pdf	html, xml, pdf
Sensitive areas	Country	xml, pdf	html, xml, pdf

#### **Services**

Webservice

DescribeFeatureType
: description of the
information layers,
name and type of fields.

GetFeature: access to data in GML format

Agglomeration

Treatment plant

Receiving area

<u>Download</u> <u>UrbanWasteWaterTreat</u> mentPlant

Discharge point DischargePoint

Agglomeration

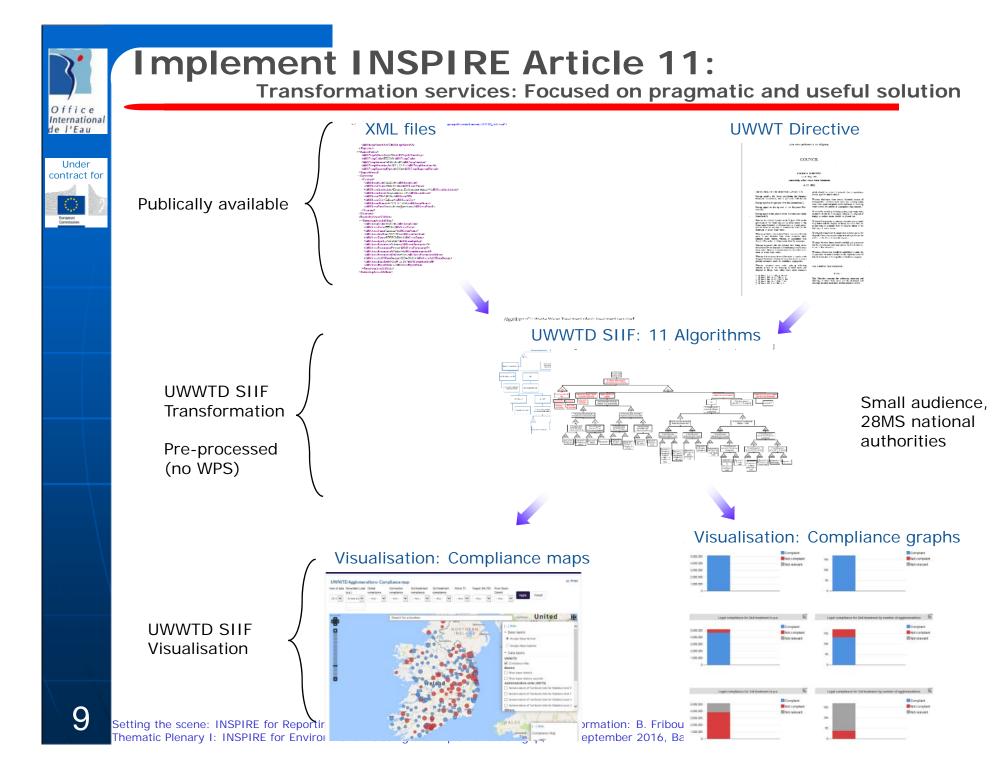
ReceivingArea

**Agglomeration** 

<u>UrbanWasteWater</u> <u>TreatmentPlant</u>

<u>DischargePoint</u> ReceivingArea

Urban waste water data can be now reused everywhere





Under

contract for

# INSPIRE: an incentive for environmental domains experts

#### Online available layers (OGC web services):

Administrative and hydrographic

EEA Natura 2000

bathing water,

State of Environment water monitoring layers

Natura 2000 ers



→ Allow crossing different layers for a better understanding of the relationships between pressure and impact

Agglomeration not compliant

Bathing water in poor quality

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# Conclusion: A win-win process



The Commission has financed the development of a urban waste water website that :

- Fills the INSPIRE national implementation gap,
- Increases transparency,
- Increases the use of reporting data by different types of users,
- Improves the reporting process,
- Avoids some MS to develop their own website
- Can be improved and updated with new needs by all users
- Contributes to growth and jobs and digital agenda of the Commission



# Thanks for your attention

Benoît Fribourg-blanc Office International de l'Eau b.fribourg-blanc@oieau.fr

Come and visit...

...Live presentation today at 15.00 - Room H1

+ feedback of Romania and the European Commission (DGENV)

Office International de l'Eau