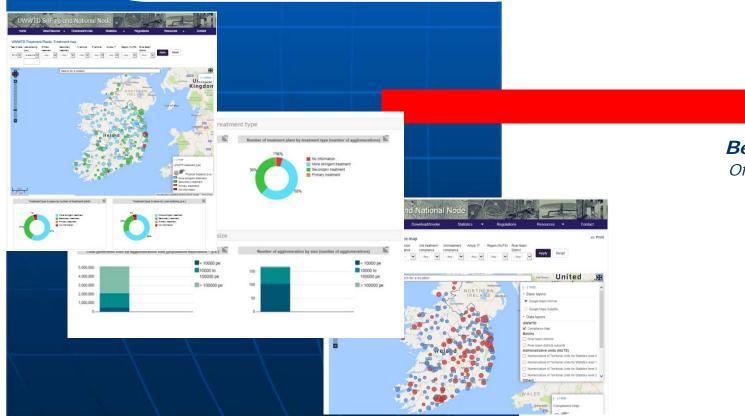
Parallel session: INSPIRE: a backbone for water community



INSPIRE: a backbone for water community in the future?

Part I: The INSPIRE Urban Waste water website functionalities



Benoît Fribourg-blanc
Office International de l'Eau





Urban Waste Water Treatment Directive:

the core elements



- Directive 91/271/EEC (UWWTD) requires
 - 3 types of reporting
 - Article 15 compliance assessment: detailed situation using 4 components
 - bagglomeration,
 - btreatment plant,
 - bdischarge point,
 - band receiving area
 - Article 16: summary national situation report
 - Article 17: implementation programme
 - Reporting data every two years since 1998
- A data collection process progressively implemented
- Identified as test case for implementation of SIIF concept



Implementing UWWTD: the reporting

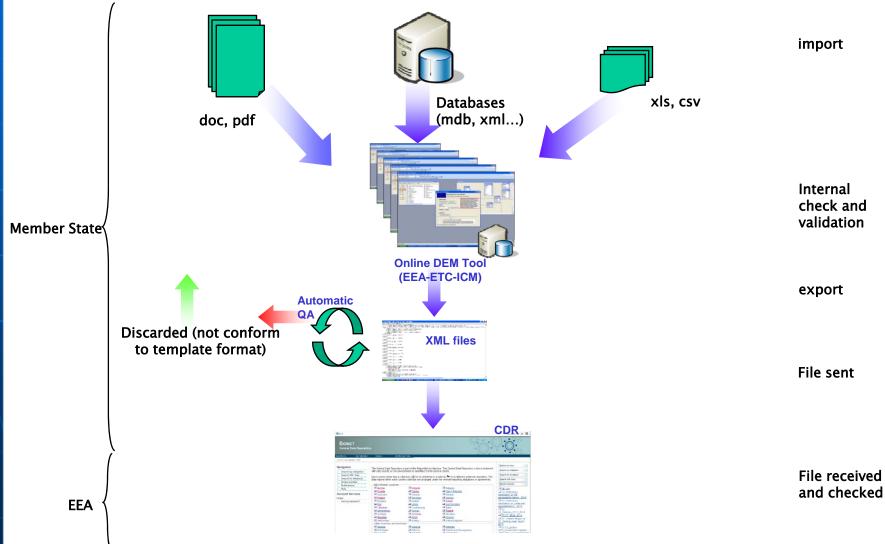


- A complete EU based data collection chain with:
 - Common EU data model on urban waste water with reporting guidelines not totally INSPIRE compliant (deadline 2020) but easily adjustable
 - Reporting tools managed by EEA to check the reporting format and the quality of data (<u>UWWTD webtool</u>)
 - Common public reporting platform at EEA level where to find all the XML reported datasets (<u>EIONET/reportnet</u>)



UWWTD data collection: a set of steps





4

INSPIRE: a backbone for water community in the future? Part I The INSPIRE Urban Waste water website functionalities: B. Fribourg-blanc (OIEau)
Parallel session: INSPIRE: a backbone for water community in the future, 27th September 2016, room H1, Barcelona, Spain



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What is the UWWTD-SIIF: framework

The UWWTD-SIIF platform is a tool to use national validated dataset

- It is not a collection tool
- It is not a reporting tool
- It is not fully Inspire compliant tool because
 - data schema absent
 - Not all webservices are fully implemented
 - Metadata not available for all datasets
 - WFS is in simple feature format (pragmatic)
- It is provided for free, as support for MS, not mandatory
- It will evolve in the future with contributions from users

The UWWTD-SIIF platform can be used for many different purposes (see plenary I presentation):

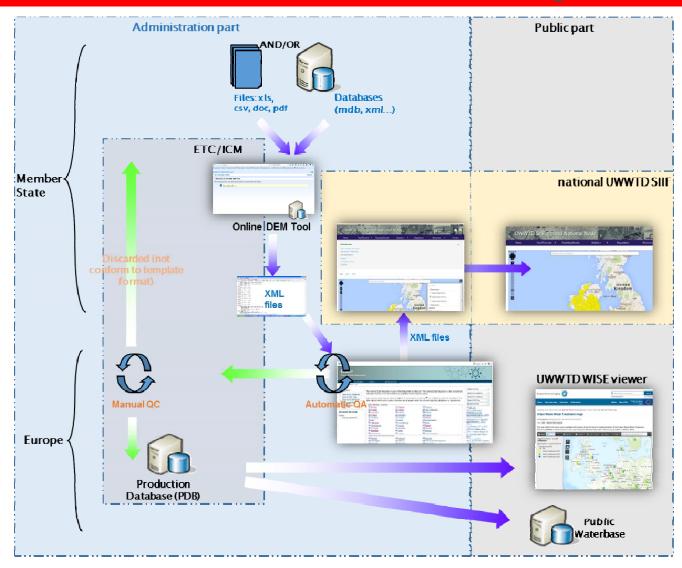
- Visualisation of data collected and reported,
- Assess the MS/local situation as regards UWWTD implementation,
- Check, identify errors, and correct data,
- Download sub sets of data,
- 0 ...



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Where is the UWWTD-SIIF in EU system





UWWTD-SIIF: planned future (2016-2017)



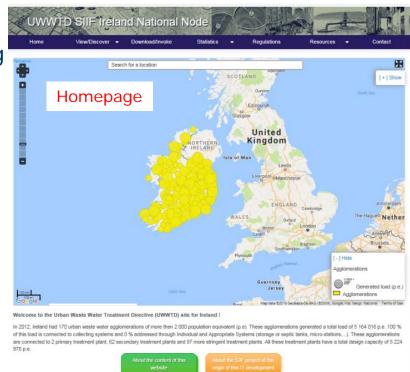
- a) Some candidate countries will implement on their server
- b) The platform will be used for assessment of the latest reporting
- → One platform per MS
- → A EU platform to gather some summary information
- → Interlinkage via webservices
- c) Inspire validated schemas will be made available (implemented in SIIF?)
- d) Extension to other environmental domains (Drinking water, bathing water...)



UWWTD SIIF: What is it?



- In close collaboration with Commission and pilot Member States
- A national generic open source waste water website
 - Inspire compatible,
 - Disseminating datasets, including data not relevant for Inspire (Art17)
 - Showing and using the data,
 - Tool free to be reused,
 - including many functionalities,
 - with maps, graphs, tables
 - with individual fiches...

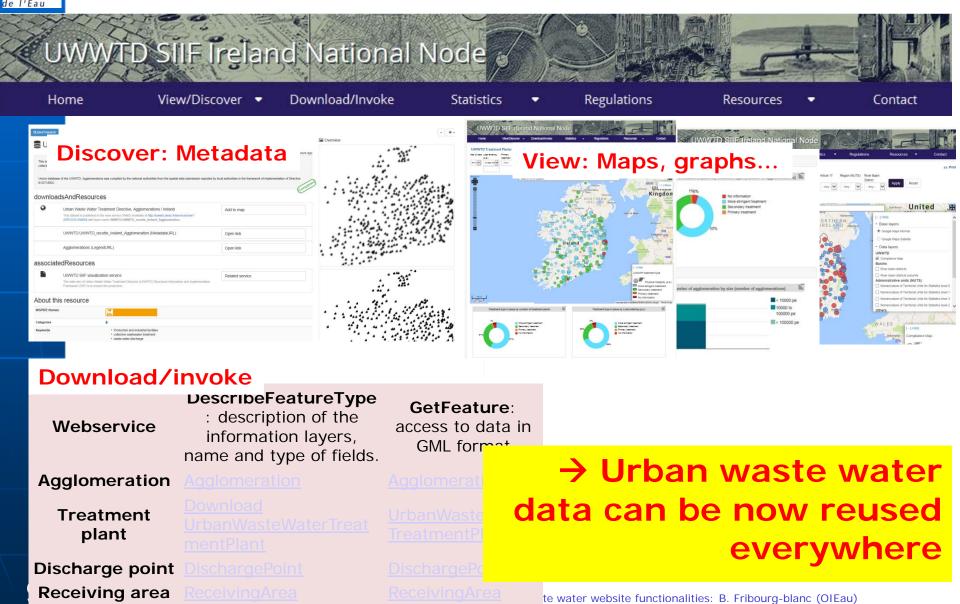


- Generic website: uwwtd.oieau.fr
- 2. webtool and documentation for developers:

https://github.com/OIEau/uwwtd



Implement Article 11 of INSPIRE Directive



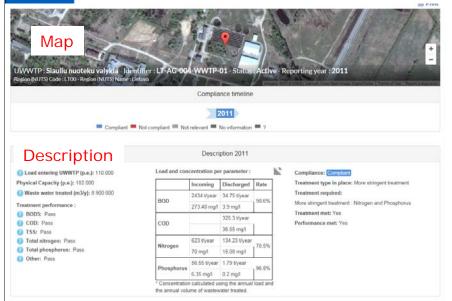
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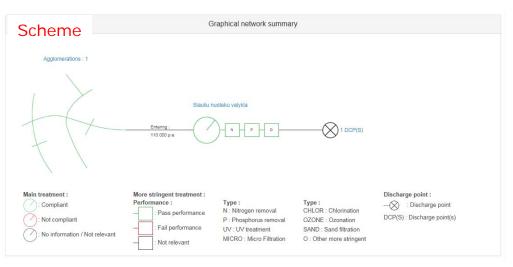


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A Fiche for each geographical object

- 4 geographical objects: Agglomeration, Treatment plant,
 Discharge Point, Receiving area
- An information fiche with map, data, scheme, graph, links...





Easy possibility to **link other websites** to these webpages:

http://www.uwwtd.oieau.fr/agglomeration/ieag_469

http://www.uwwtd.oieau.fr/treatment-plant/ietp_818



Information about future UWWT projects



Article 17 of the Directive requests such information (programme of implementation)

Letterkenny CLondonderry Derry Ballymena NORTHERN IRELAND Ballina Castlebar Westport Galway Ireland Killaney Control Killaney Control Killaney Control Killaney Control Killaney Control Killaney Control Killaney Kill

Map viewer of agglomerations with projects

Forward looking aspect

Identified reason(s) for non compliance:

All agglomeration load not collected and delivered for treatment

Measure(s) foreseen to reach compliance with Article 3 (collecting systems and IAS):

Network and pumping station upgrades.

Date or expected date for completion of preparatory measures for the collecting system or IAS (planning, design, procurement, c:

01 November 2015

Start date or expected start date for works on the collecting systems or IAS:

01 February 2016

Expected date of completion of the collecting system or IAS works:

■01 May 2017

Forecast investment cost for the collecting system or IAS (as in the national plan):

11700000.00

Name of EU fund planned to be used to complete the collecting system or IAS (if any):

Any relevant comment on collecting system or IAS: Upgrade of network to be implemented via two contracts, 2A and 2B.

deadlines

cost



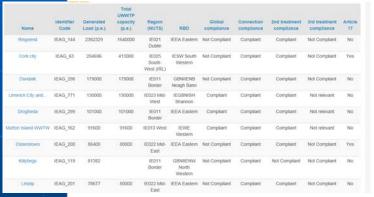
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Transformation services:

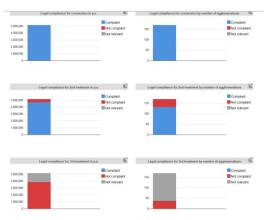
Focused on compliance and reporting improvement

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Calculation and visualisation of compliance (11 algorithms) for the reporting exercise.







Lists

Maps

Graphs



Automatic generation of the reporting register. Excel file with several sheets that provide detailed information about the compliance of each agglomeration and UWWTP



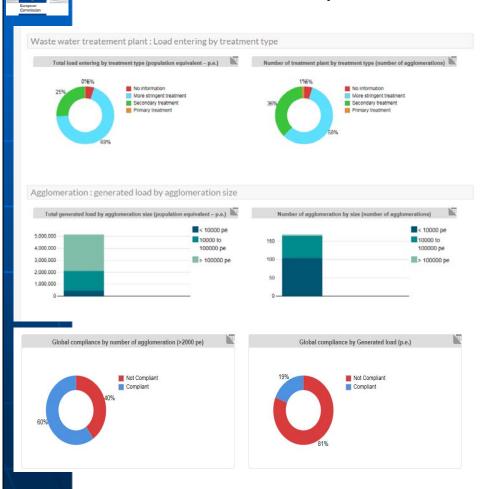
Transformation services:

Focused on end user needs

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- generate automatically aggregated statistics
- calculate new parameters useful to waste water expert



Load and concentration per parameter:



	Incoming	Discharged		Rate	
BOD	6067 t/year	42 t/year		99.3%	
	755.07 mg/l	5.23 mg/l			
COD	14246 t/year	535.94 t/ye	ar	r 96.2%	
	1772.99 mg/l	66.7 mg/l		30.276	
Nitrogen	676 t/year	65.53 t/year	ar 90.3%		
	84.13 mg/l	8.16 mg/l		30.370	
Phosphorus	143 t/year	4.56 t/year		96.8%	
	17.8 mg/l	0.57 mg/l			

^{*} Concentration calculated using the annual load and the annual volume of wastewater treated.



Quick tour on the platforms



2 cases presented

- 1: use the tool as dissemination tool and a daily help to all kind of users,
- 2: use the tool as an help to reporting exercise
- The country platforms
 - IE http://uwwtd.oieau.fr/
 SI http://uwwtd.oieau.fr/slovenia/
 HR http://uwwtd.oieau.fr/croatia/
 LT http://uwwtd.oieau.fr/lithuania/
 CY http://uwwtd.oieau.fr/cyprus/
 - RO http://uwwtd.oieau.fr/romania/
 - PL http://uwwtd.oieau.fr/poland/
- The toolbox dissemination
 - https://github.com/OIEau/uwwtd



Thanks for your attention

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