



Workshop on Structured Information and Implementation Frameworks (SIIF) in Slovenia concerning Urban Waste Water Treatment Directive (91/271/EEC)

3. Ongoing SIIF contract – pilot phase

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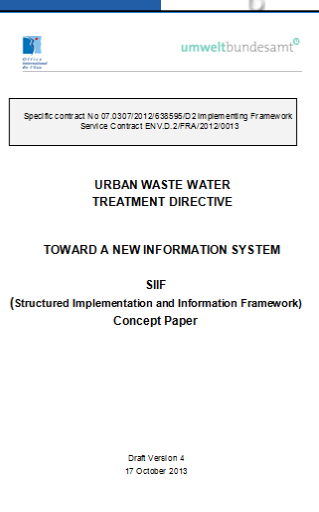
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UWWTD SIIF work: The framework

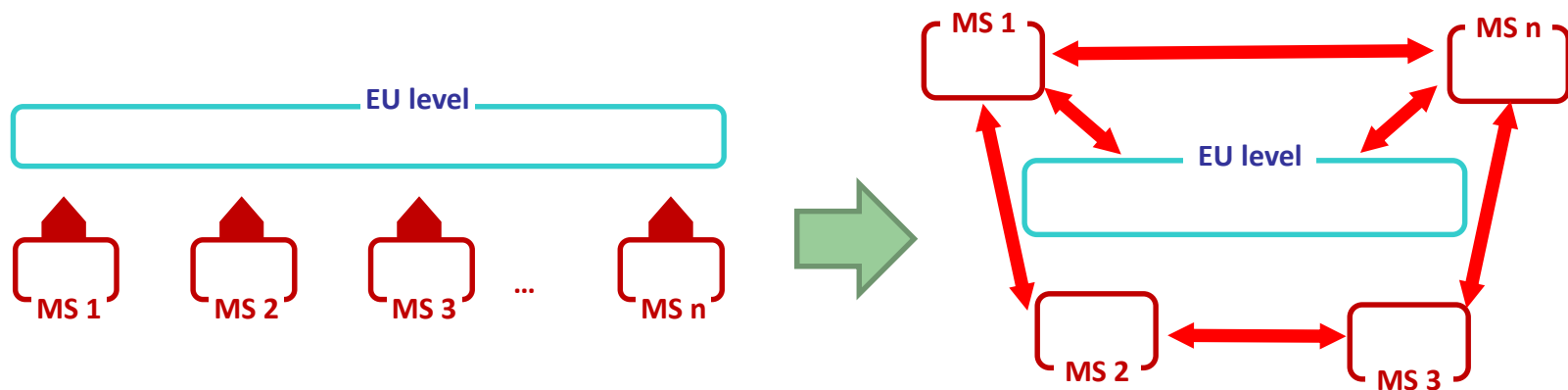
- A framework contract to support DGENV on Water Industry Directives: 2012-2016
- 2013: (Phase I) A specific contract "Towards a modern information system for the Urban Waste Water Treatment Directive (91/271/EEC)"
 - ◆ **Current situation** on UWWT information in EU28 MS and EU: availability and accuracy
 - ◆ Concept for a **new UWWTD reporting system** (assessment and information system, thematic implications, changes)
 - ◆ Changes in UWWTD reporting **parameters**
- 2014: (Phase II) A specific contract "Expanding the Urban Wastewater Structured Information and Implementation Framework (SIIF)"
 - ◆ Task I: Technical support for legal compliance (8th reporting) tomorrow
 - ◆ Task II: Implementation of UWWTD **SIIF platform in 3 pilot countries**
 - ◆ Development of a **generic toolbox**
 - ◆ Key **lessons** learnt



UWWTD SIIF: requirements

- UWWTD reported data are of interest for many different users (thematic domain experts, general public, EU services...)

→ a shift from **bottom up** reporting to **information exchange**



- Single infrastructure requires two elements:
 - ◆ same language (semantic),
 - ◆ Same/compatible tools (technical interoperability)

UWWTD SIIF: expected results

- With a shared EU system with national and EU node
 - ◆ automation is possible (collection, QA/QC, retrieval)
 - ◆ Machine to machine data exchanges are eased
 - ◆ Clear definitions + transparency on the situation and assessment methods increase the quality of data
 - ◆ Data can be made immediately available to all users
 - ◆ Use of the datasets are increased / widened & more users are involved:
 - generate new needs

Detailed objectives for 2014 work

- o 2014 objective: Pilot exercise to **test and develop** a UWWTD SIIF platform.
- o MS participating were invited to :
 - ◆ contribute to the definition of the main features of a SIIF for Urban Wastewater
 - ◆ develop and publish online a (pilot/demo or prototype) national SIIF
 - ◆ report the results and experiences of the pilot exercise to all MS
- o 3 pilot MS: Slovenia, Cyprus and Lithuania

Tasks of the contract and objectives

The main tasks of Objective II - *UWWTD SIIF national nodes - Support the development of online systems* are

- ◆ 1: Identify the **countries' needs** for establishing the national demonstration sites
- ◆ 2: For each of the countries participating, elaborate proposals to complete the basic IT system, present different **visualisation** options and enable the **exchange of information** with the EEA
- ◆ 3: Testing of Member States **web services** and Reportnet interface to EU level Plants
- ◆ 4: Establish an offline/restricted access version of the three **demonstration sites**, based on chosen data to be presented and visualisation options
- ◆ 5: Install on a **national server** and establish the three demonstration sites
- ◆ 6: Derive **recommendations** for developing national SIIF portals



Timeline

- ◆ The project started on 16st of December 2013 with the signature of the contract and will end on 15th of March 2015
- ◆ The selection of the 3 pilot Member States (MS) ended on mid-April : Cyprus, Lithuania and Slovenia
- ◆ Web conferences on countries needs with the 3 pilot MS took place on **March and April.**
- ◆ A **Workshop with 6 Member States** on SIIF and adaptation to INSPIRE took place on **May 5th.**
- ◆ First results and the prototype platform using data from Ireland were presented at the **3rd June Expert Group meeting,**
- ◆ The three national platform were implemented during **summer/autumn**
- ◆ Webconferences with the 3 pilot MS took place in **November** to collect feedback on the national SIIF
- ◆ Workshops were organized to present and install the tool in countries (**27/1**: Slovenia, **10/2**: Cyprus, **17/2**: Lithuania)

Task 1 : Collecting user needs

- o Three web conferences to collect MS situation and needs, regarding the UWWTD national SIIF node functions which are:
 - ◆ Reporting data
 - ◆ Data visualization
- o A specification document was elaborated and distributed.
- o Proposed approach was to develop a generic platform using these specifications and then a MS platform

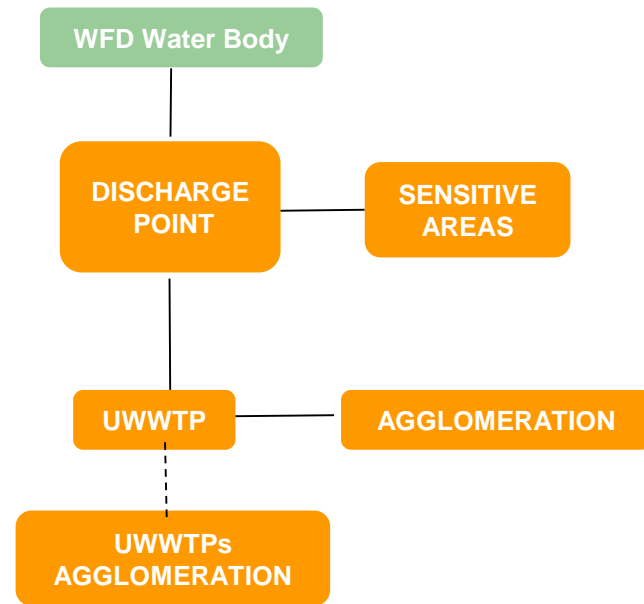
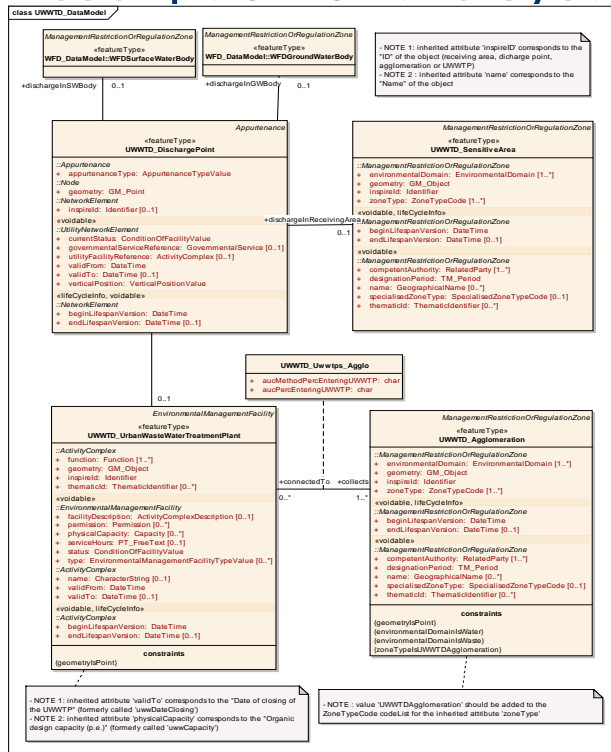
Task 2: Elaborate IT systems

- **What do we expect from the national nodes of the UWWTD SIIF?**
 - ◆ It does not
 - ◆ Be the production tool of the UWWTD data
 - ◆ Consolidate sub-national datasets in order to create the national dataset for reporting purpose
 - ◆ It does or will
 - ◆ Consider dataset as a whole: dataset items that is to say **“individual data” won't be amendable** with the tool
 - ◆ Carry out **Quality controls** on datasets
 - ◆ Be the **reporting tool** towards the EU platform
 - ◆ Be the **dissemination tool** towards the European and national web users via dynamic maps, graphs, statistics, exports and selection functions
 - ◆ Comprise a web portal and a webservice module, **easy to operate** and to manage, for national UWWTD data managers

Task 3: Testing of Member States Web Feature Services and Reportnet interface to EU level

Objective: Going further than the initial proof of concept presented in the concept paper on UWWTD SIIF on webservice

- ◆ consider recent development for INSPIRE (12/2013)
- ◆ Tests for different technical solutions (April - September)
- ◆ propositions for some adaptations
- ◆ Description of the system key components using modelisation



Task 4: Establish demonstration websites

- o **Objective: *Demonstration sites will be set up according to the technical and functional specification Document***

- o **Setting up a web portal for each country (*in English*):**
 - ◆ Hosted at our facilities
 - ◆ Provided with free access for test purpose
 - ◆ A demo website has been realised from Ireland UWWTD data (June-October)
 - ◆ National websites have been developed for each pilot MS (August-October), *see next agenda point*

- o **Next steps:**
 - ◆ Translation in national language
 - ◆ Feeding of text sections, of relevant resources and links
 - ◆ Connection with other potential references and links

Task 5: Install

- o **Objective: *Three demonstration sites have to be implemented on national servers***
- o **Providing the necessary kit to each of the country to set up their web portal**
 - ◆ The Workshop in each country can allow for extra hands-on technical support if need be.
 - ◆ An administration guide, written in English, is provided by the Contractor.
- o **Next steps before end of March:**
 - ◆ Provision of a dedicated space on a server by SL, LT, MT
 - ◆ Transfer of the platform
 - ◆ Tests and bug fixing, adjustment of the guide

Task 6: Derive recommendations for national portals

- **Objective: *Lessons learned from the creation of the demonstration portals should be communicated as widely as possible, to allow for an efficient development in other countries (non-pilot Member States) in the long run.***

- After implementation of the Three national platforms, the contractor write a report detailing the main lessons learnt from the implementation with
 - ◆ Key steps and challenges on IT and thematic aspects
 - ◆ Recommended approach for the next steps and for implementing a national SIIF portal

Key conclusion

- The UWWTD SIIF platform needs appropriation and the three pilot MSs have progressively adopted
- The toolbox makes visible the standardisation: allow connections
- It provides easy to use information and figures for all users from citizen to technical expert
- The toolbox implements Directives on public access to environmental information and INSPIRE
- Extension of the toolbox to DWD and BWD feasible?

Key recommendations:

1. What can be done by consultant

- ◆ Generic tool: a good idea to be continued
- ◆ Opensource softwares: could be used in any technical environment.
- ◆ No security breach was identified.
- ◆ To keep the security at its maximum, regular updates are needed.

Key recommendations:

1. What can be done by consultant

- ◆ Use of significant and permanent URLs, easy to build: a pragmatic approach to be continued
- ◆ For next round: Early Workshop with as a basis the generic tool with MS national dataset (first draft of national platform) for
 - ◆ use and tests by MS
 - ◆ give them a month for feedback
 - ◆ Push them to involve the relevant experts (IT and UWWTD)

Key recommendations: 2. What is recommended for the system

- ◆ Use of - and link to - reference systems necessary.
- ◆ Appropriate management of these references (genealogy/history, single shared EU lists and definitions): link to WISE and INSPIRE.
- ◆ Evolutions of the data model in separate tables for ease of management
- ◆ Visualisation options: optional information not provided not visible on fiches.

Key recommendations: 2. What is recommended for the system

- ◆ Centralisation of the data quality assessment: easy to maintain / update.
- ◆ The UWWTD data model is complex and the toolbox works: it could be used for the SIIF for DWD and BWD.
- ◆ Ideas for new uses are welcome:
 - ◆ adaptation for smartphones
 - ◆ ...

Thank you

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