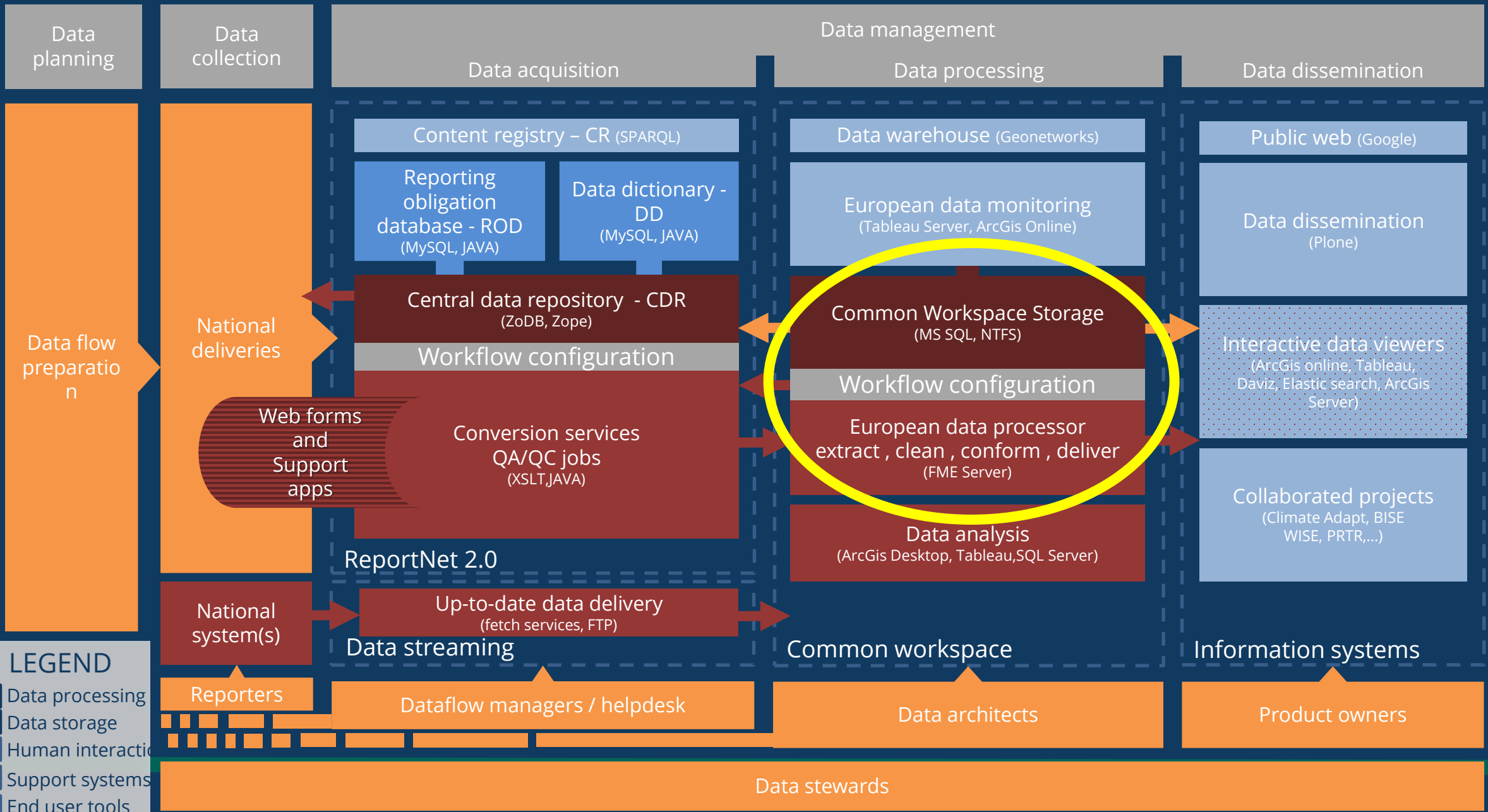


# Example of ReportNet (XML to Database)

InfoRAC visit 2017





# EIONET

## Reporting Obligations Database (ROD)

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- History

### Reporting obligation for: Drinking Water Directive - Report on Quality of Water for Human Consumption

<b>Title</b>	Drinking Water Directive - Report on Quality of Water for Human Consumption
<b>Description</b>	EC Water Reporting Obligation  According to Article 13, the Member State have the obligation to publish a report every three years on the quality of water intended for human consumption with the objective of informing the consumers. Delivery process is managed by EEA
<b>Legislative instrument title</b>	<a href="#">New Drinking Water Directive (consolidated)</a>

#### Reporting dates and guidelines

<b>National reporting coordinators</b>	<a href="#">WISE - National reporting coordinators (extranet-wise-nfp)</a>
<b>National reporting contacts</b>	<a href="#">Drinking Water Directive - Data Reporters (extranet-dwd-data)</a>
<b>Reporting frequency</b>	Every 36 months
<b>Next report due</b>	28/02/2018
<b>Date comments</b>	1st report shall cover the years 2002, 2003, 2004; the 2nd – 2005, 2006, 2007; etc. The report shall be published within one calendar year of the end of the reporting period and sent to the Commission within two months of the publication.

**Report to** [European Commission](#)

**Other clients using this reporting**

**Reporting guidelines** [Guidance document on reporting under the Drinking Water Directive 98/83/EC](#) [Valid since 22/09/2014]

**Extra information** DWD reporting resources include the support files for the reporting under the next request by the Commission (DWD Questionnaire 2011). The Commission letter launching this reporting exercise sets out the reference years for reporting (2008-2010) and provides the background of the main reporting requirements. The letter is available at <http://icm.eionet.europa.eu/announcements>

The support files consist of help (guidance) documents, schemas, Excel spreadsheets, etc. Drinking Water User Manual v1.0 provides support to the workflow for the DWD reporting and explains the main reporting steps for reporting information to the Commission in Reportnet. A common structure to be used in the reporting was agreed in May 2007. The guidance document has been revised and divided into Guidance Document on reporting and Guidance Document on derogations. It presents a new, table-oriented way of reporting, in line with DWD and with the WISE approach for reporting.

```
<?xml version="1.0" encoding="UTF-8"?>
- <dd579:DWD_AM xsi:schemaLocation="http://dd.eionet.europa.eu/namespace.jsp?ns_id=579 http://www.w
id=TBL9130" xmlns:dd585="http://dd.eionet.europa.eu/namespace.jsp?ns_id=585"
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  <dd585:WSZ_ID>BEWWSZZAIEM1</dd585:WSZ_ID>
  <dd585:Parameter>Al</dd585:Parameter>
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</dd579:Row>
```

File Edit View Readers Transformers Writers Run Tools Help

100%

Navigator

- Transformers (3)
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- Bookmarks
- User Parameters (17)
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Transformer Gallery

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  - ReportIndexExtractor
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ReportNetToFileSystem Parameters

Transformer: ReportNetToFileSystem

User Parameters

ReportNet Obligation URL: <http://rod.eionet.europa.eu/obligations/171>

Download zip files: true

Lastest files only for each country: true

Output folder: E:\WaterQuality

Eionet user name: bliki

Eionet password: \*\*\*\*\*

Defaults OK Cancel

Retrieve lastest envelopes from ReportNet  
<http://rod.eionet.europa.eu/obligations/171>

Creator → ReportNetToFileSystem → ReportIndexExtractor

Translation Log

```

: Downloading resource 'http://cdr.eionet.europa.eu/hu/eu/dwd/envvv66va/envelope.zip' to local file 'E:\WaterQuality\hu.zip'
mary - status code: 200, download size: '302630 bytes', DNS lookup time: '0 seconds', total transfer time: '0 seconds'
: Downloading resource 'http://cdr.eionet.europa.eu/ie/eu/dwd/envvayvqdg/envelope.zip' to local file 'E:\WaterQuality\ie.zip'
mary - status code: 200, download size: '26914 bytes', DNS lookup time: '0 seconds', total transfer time: '0 seconds'
: Downloading resource 'http://cdr.eionet.europa.eu/it/eu/dwd/envvf1vtq/envelope.zip' to local file 'E:\WaterQuality\it.zip'
mary - status code: 200, download size: '530843 bytes', DNS lookup time: '0 seconds', total transfer time: '0 seconds'
: Downloading resource 'http://cdr.eionet.europa.eu/lt/eu/dwd/envvrbqca/envelope.zip' to local file 'E:\WaterQuality\lt.zip'
mary - status code: 200, download size: '159096 bytes', DNS lookup time: '0 seconds', total transfer time: '0 seconds'
: Downloading resource 'http://cdr.eionet.europa.eu/lu/eu/dwd/envvqheqa/envelope.zip' to local file 'E:\WaterQuality\lu.zip'
mary - status code: 200, download size: '398403 bytes', DNS lookup time: '0 seconds', total transfer time: '0 seconds'
: Downloading resource 'http://cdr.eionet.europa.eu/lv/eu/dwd/envvrb3ew/envelope.zip' to local file 'E:\WaterQuality\lv.zip'
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: Downloading resource 'http://cdr.eionet.europa.eu/mt/eu/dwd/envvovj9g/envelope.zip' to local file 'E:\WaterQuality\mt.zip'
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: Downloading resource 'http://cdr.eionet.europa.eu/no/eu/colp0r2w/dwd/envvvt2qig/envelope.zip' to local file 'E:\WaterQuality\no.zip'
mary - status code: 200, download size: '100000 bytes', DNS lookup time: '0 seconds', total transfer time: '0 seconds'

```

Drinking Water Directive X

rod.eionet.europa.eu/obligations/171

Apps Bookmarks ArcGIS Full Motion View FME Server AGOL Scanner Semantic Data Service Cool

EEA

EIONET Reporting Obligations Database (ROD)

SERVICES REPORTNET TOOLS TOPICS (ETCS)

You are here: Eionet » ROD » Obligations » Drinking Water Directive ...

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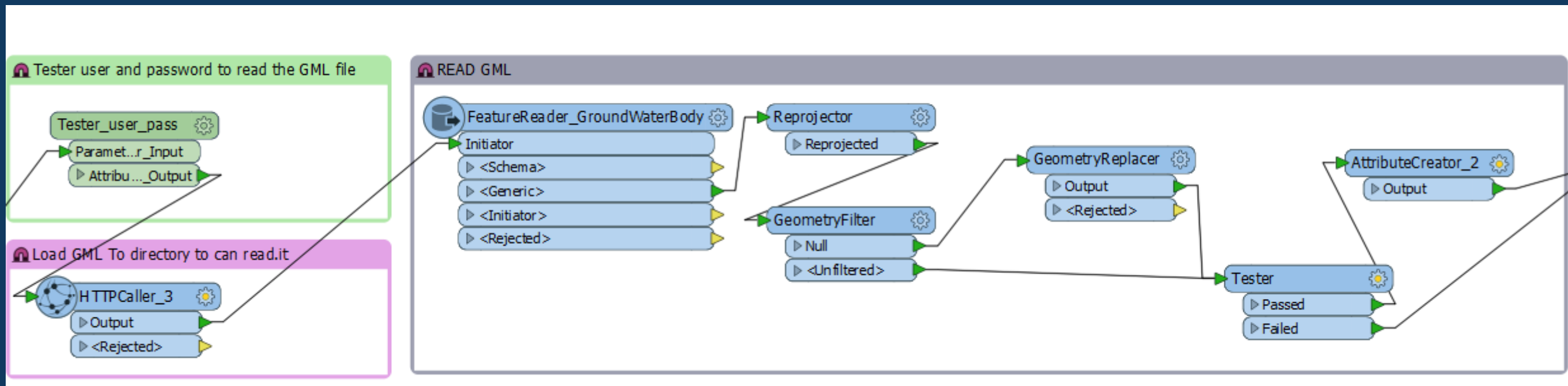
Overview Legislation Deliveries Parameters History

### Reporting obligation for: Drinking Water Directive - Report on Quality of Water for Human Consumption

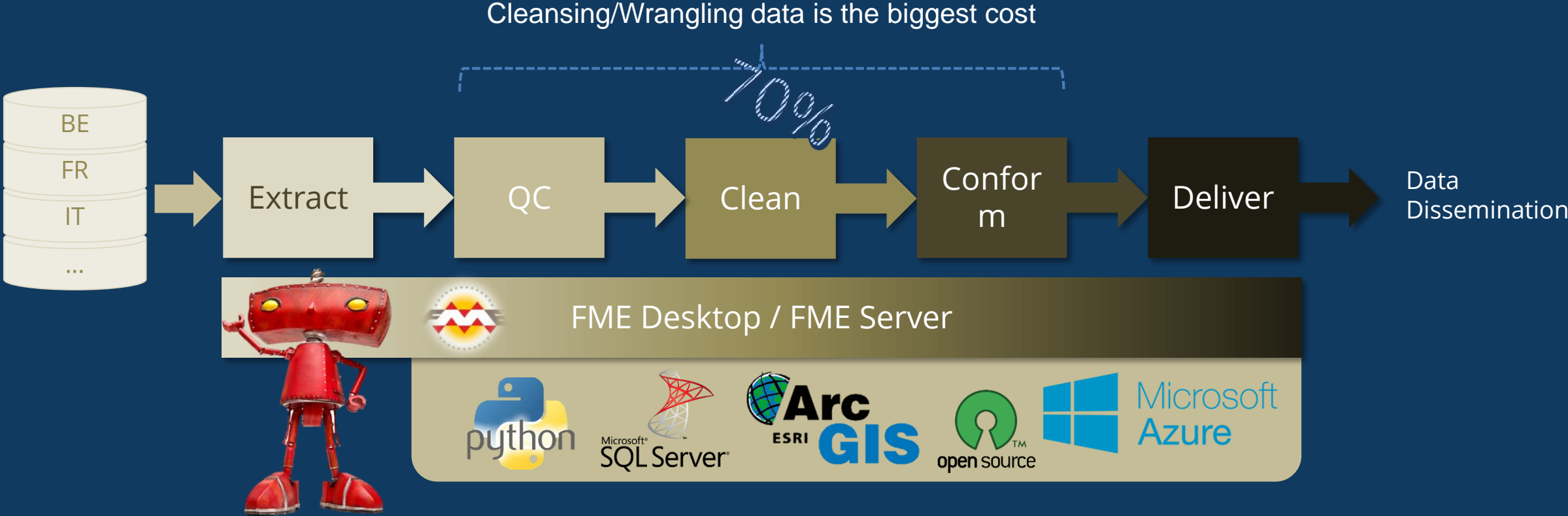
<b>Title</b>	Drinking Water Directive - Report on Quality of Water for Human Consumption
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<b>Other clients using this reporting</b>	
<b>Reporting guidelines</b>	<a href="#">Guidance document on reporting under the Drinking Water Directive 98/83/EC</a> [Valid since 22/09/2014]
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# Strong in spatial data manipulation



# Data processing



# Enterprise integration

Local desktop



Create/update  
Debug/test  
solutions

Easy server  
deployment

Production server



(Automation)  
Schedule  
Logs  
Process  
overview  
Web enabled





# Data processing

FME Server - Workspace X

fme.discomap.eea.europa.eu/fmeserver/repositories

safe.com | blog | knowledge

## Choose Workspace Repository

New Remove Edit

Search

Name

- Air Quality  
This repository should be used for all Air Quality related FME tasks.
- AirQuality
- AirQualityDownload  
Repository for asynchronous download of air quality data. The job is a copy of AirQualityUTDExport.fmw from the AirQuality repository.
- AirQualityZones  
This repository contains all scripts used for handling the AirQualityZones dataflow. Created By: Viktor Kalen 161024
- AirQuality\_Internal
- ArcGisEvaluators  
Scripts for evaluating ArcGIS Products
- ArcGisOnline  
ArcGis online integrated functionality in templates
- CDR\_AirQualityMetaData  
Read CDR Excel files from the Air Quality MetaData and store results into SQL DB of Artur.
- CommonWorkspace  
FME Tools used for the common workspace
- DAMPOS  
Export tool for DAMPOS currently hosted on EIONET
- Dashboards  
FME Server Dashboards Repository

FME Today FME Gantt bar (today) Memory Use Details FME Server Tasks

Date Started  
Last 3 months

### Daily Activity

Date Started 2017

februar marts april

Number of Records

40K 20K 0K

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

Success

✓ Keep Only ✗ Exclude

Day of Date Started: 19  
Month of Date Started: april  
Process Successful: Success  
Year of Date Started: 2017  
Number of Processes: 12.287

12.287

Process Successful

- Cancelled
- Reader failed
- Failed
- Success
- Fatal Error
- Unknown error

### Slow workspaces

0: Framework\_AQZ.fmw (7.184 sec)

6: Produce GDB for Webservice.fmw (134 sec)

AQMetsData\_Master\_E1A.fmw (155 sec)

ArcGisOnlineStressTest.fmw (1.786 sec)

DataDeliveriesITML2SQL.fmw (91 sec)

### FME Todays detail

Workspace Name	Username	Priority	Number of Records	
0. Framework_AQZ.fmw	kalenvik	100	1	7.184
1. Download Envelopes and Create Ind..	kalenvik	100	3	3.823
2. ImportGeom.fmw	kalenvik	100	64	1.593
2.2 ImportGeom_ifSHP.fmw	kalenvik	50	21	303
3. Create Production Table.fmw	kalenvik	100	1	22
3.2 Create Production Table - Update I..	kalenvik	100	1	5
4. Generalize.fmw	kalenvik	100	32	1.170

Click on the bars to see more details...

Number of Records

600 400 200 0

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23



CPU Time (Seconds)

20K 10K 0K



# FME and Open Source

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## FOSS

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Surrey, BC V3W 1J8

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CARIS CSAR GDAL Plugin  
CARIS CSAR Cloud C library  
cacert.pem  
CGAL  
Convex Hull Algorithm  
GD Graphics Library  
gifread  
LandXML Software Developers Kit Version 1.1  
Libcurl  
Minizip  
NCSA HDF5  
Netcdf  
OpenSSL  
PostgreSQL  
Python  
Requests-Kerberos  
SWQ  
What3Words  
APACHE  
Apache ActiveMQ  
Apache Commons Codec  
Apache Commons Lang  
Apache Commons Logging  
Apache Jakarta Commons IO  
Apache Log4j  
Apache XALAN-C  
AWS SDK for Java  
BigQuery API Client Library for Java  
HttpClient  
HttpCore  
Jackson JSON processor  
Kerberos-SSPI  
Log4Qt  
Mongo C++ Driver  
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BSD  
dateutil  
DSFL  
GeoHash  
NumPy  
PostgreSQL  
ppRepair  
pywin  
GNU LESSER  
The ESRI FGDB Unix Runtime Library  
FDO API  
GEOS (Geometry Engine Open Source) Library  
GNU libiconv  
IFC Exporter for Revit  
Mapnik  
MariaDB Client Library for C  
Qt  
SpatialLite  
VRML Plugin for OpenSceneGraph.  
OpenVRML Library  
python-ntlm3  
Qt  
Bootstrap  
Expat XML Parsers  
GDAL/OGR Geospatial Data Abstraction Library  
OpenGIS Simple Features Reference Implementation  
PyParsing





# QUESTIONS ?

Jan Bliki, Copenhagen 19-21 April 2017