Future LCP Reporting: EU Registry on Industrial Emissions

Image © Jorge Franganillo

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Overview

- Background on Reporting and Streamlining

- EU Registry Introduction and Resources

- Inspire Directive

- Reporting workflow & Additional Reporting Fields

- Publication of Data

- Next Steps

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Background

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Many datasets on the various facets of environment pressures from industry

Inventory on Large Combustion Plants

Convention on Long-range Transboundary Air Pollution

emep Co - operative programme for monitoring and evaluation of the long-range transmissions of air pollutants in Europe
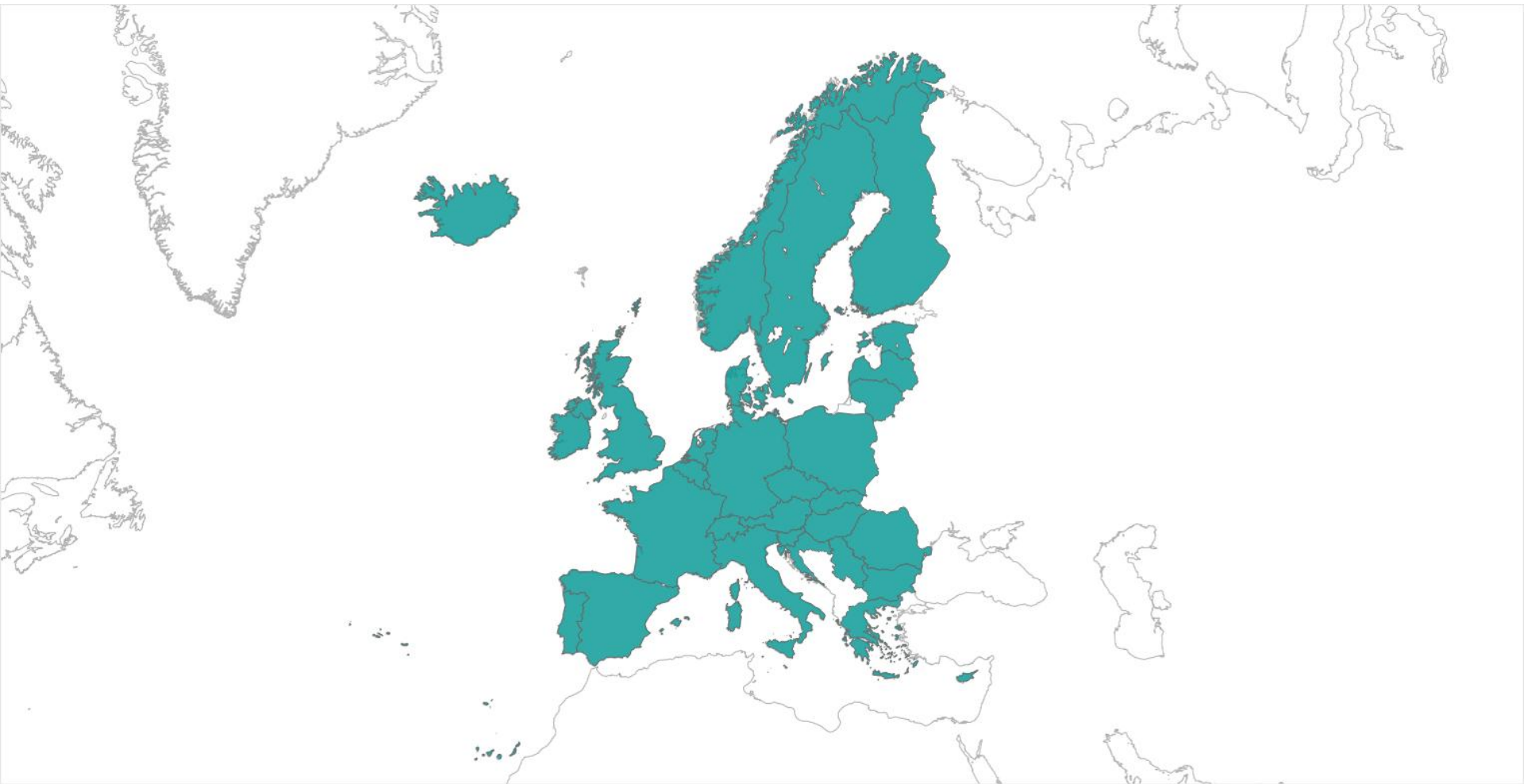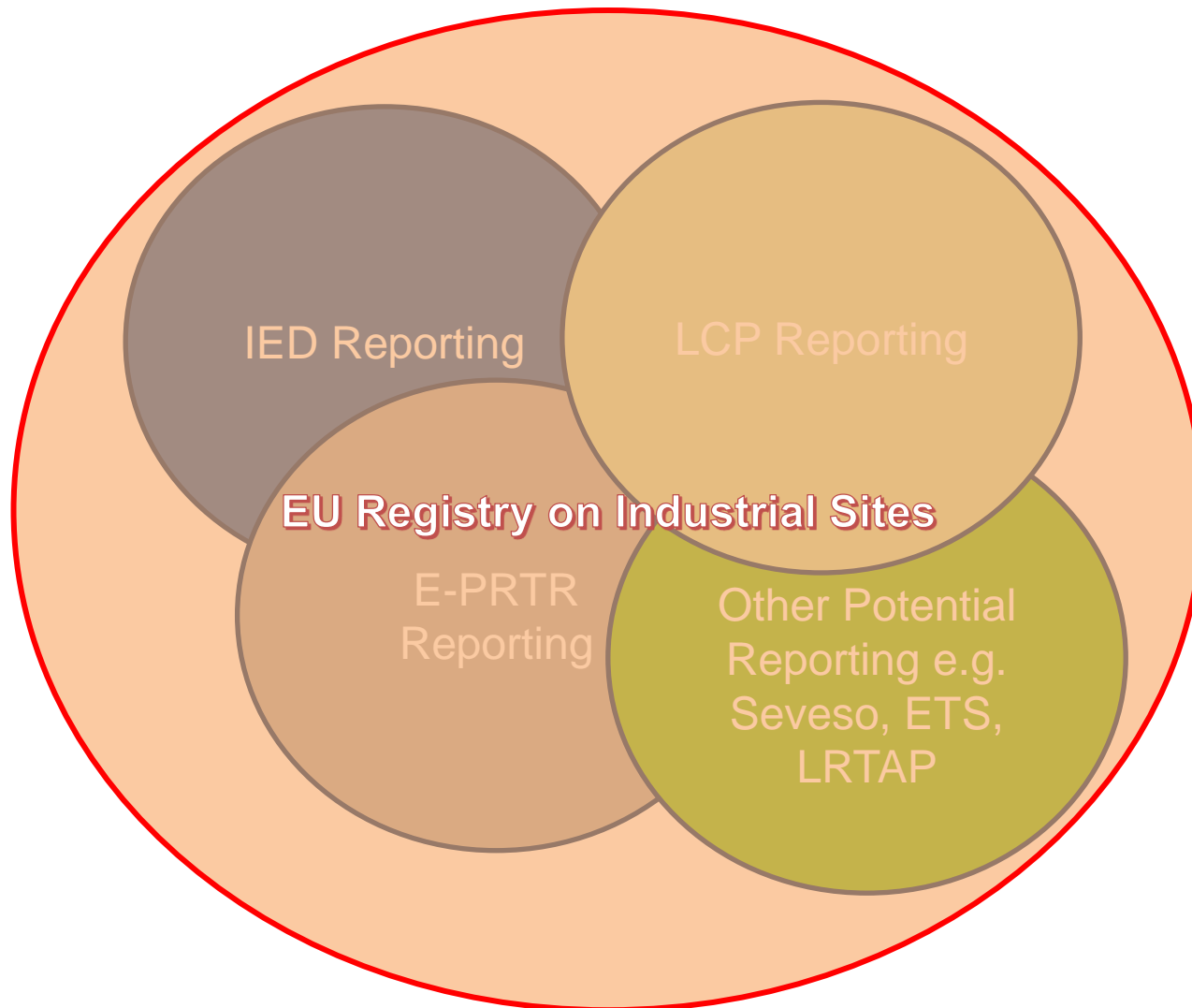
EUETS

Annual EU Greenhouse gas inventory

eSPIRS

eurostat

IED Industrial Emissions Directive

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Geographical Extent of E-PRTR Reporting

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IED Reporting

LCP Reporting

EU Registry on Industrial Sites

E-PRTR Reporting

Other Potential Reporting e.g. Seveso, ETS, LRTAP

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Future 'Vision' for Industrial Reporting

Elements Relevant to Energy Community Reporting

EU Registry

LCP Plant Emissions data

Single set of Industrial Site Administrative Data

E-PRTR Release & Transfer Data

IED Implementation Reporting Data

Other (future or current) reporting requirement
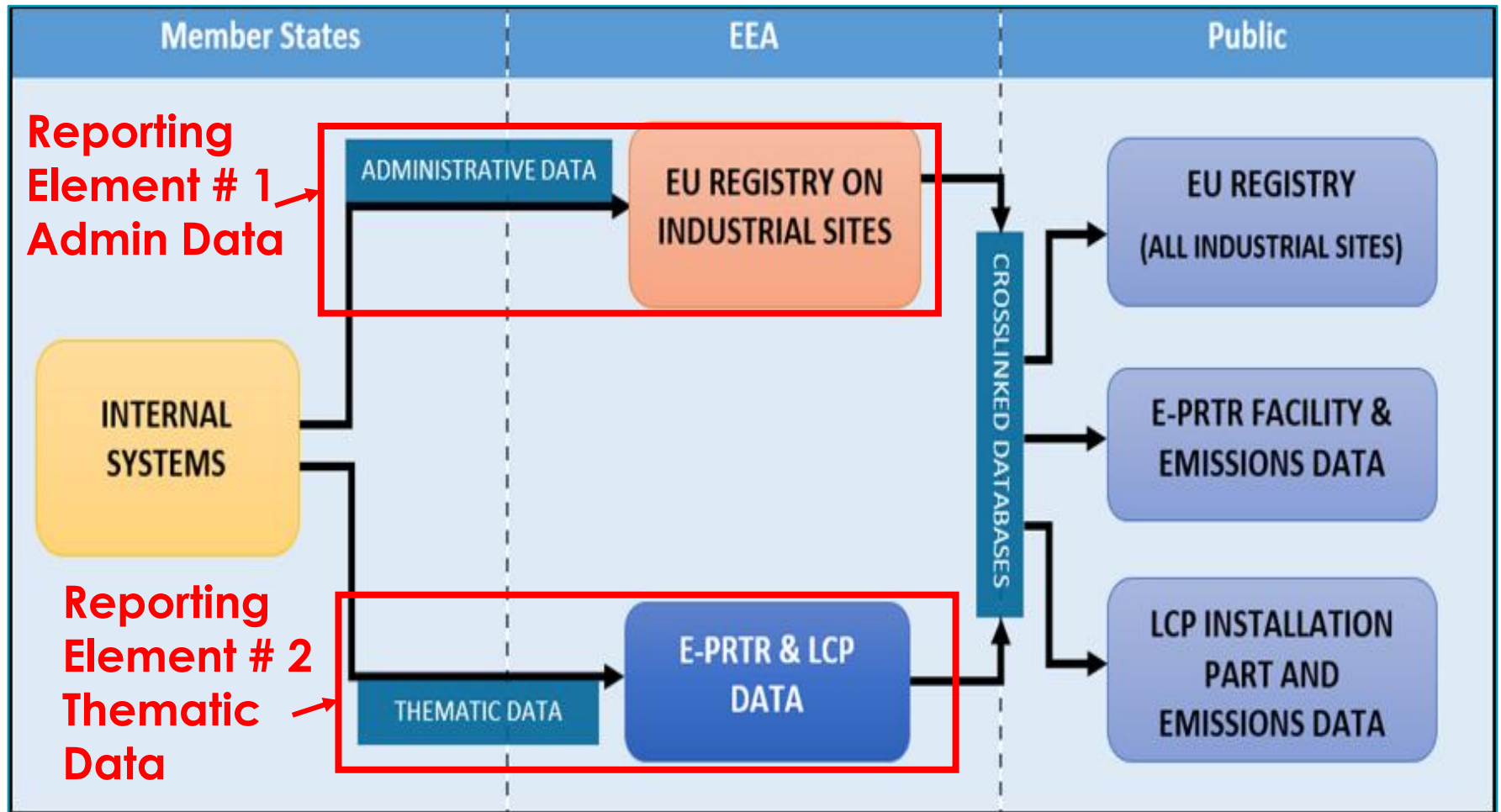
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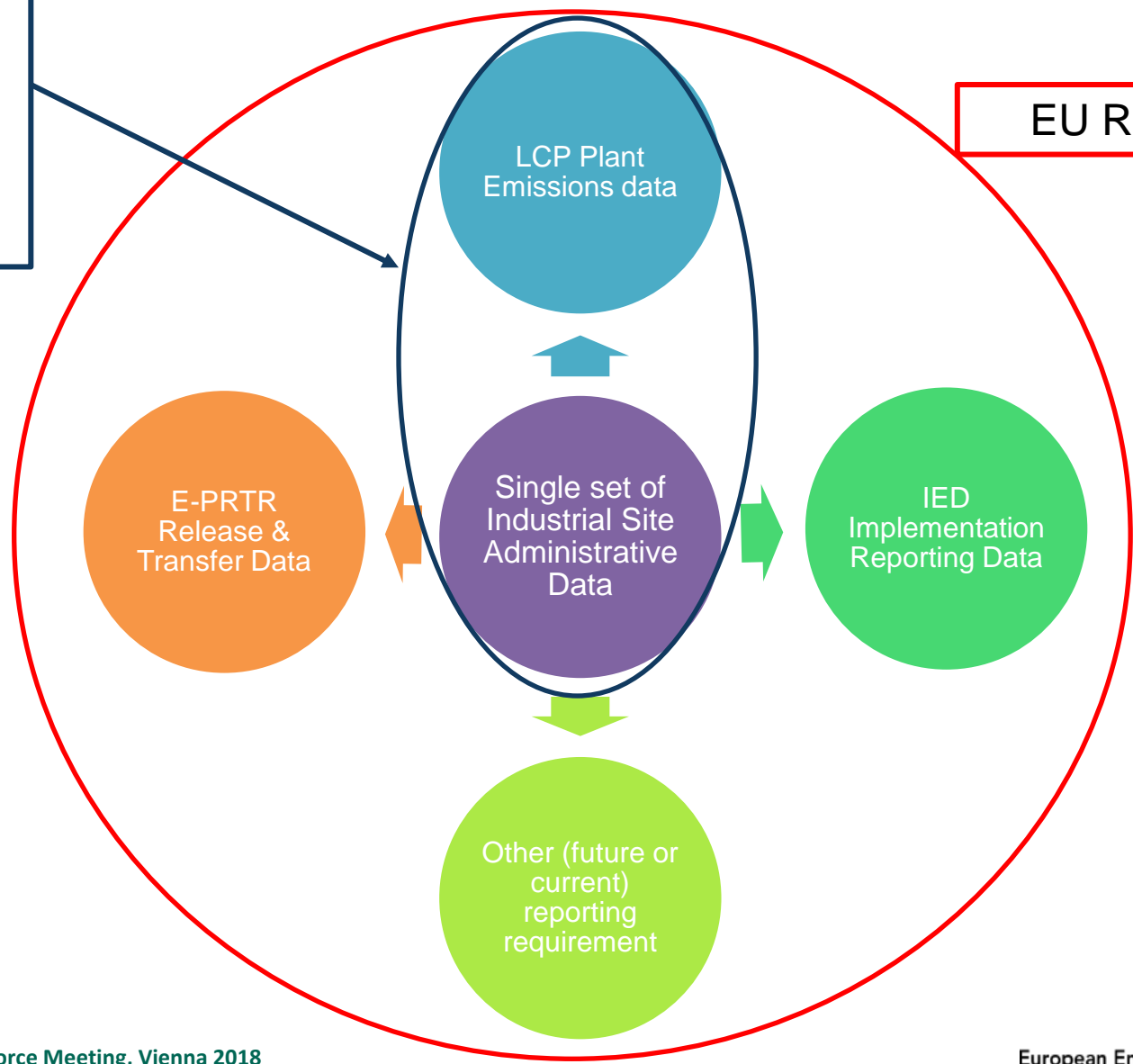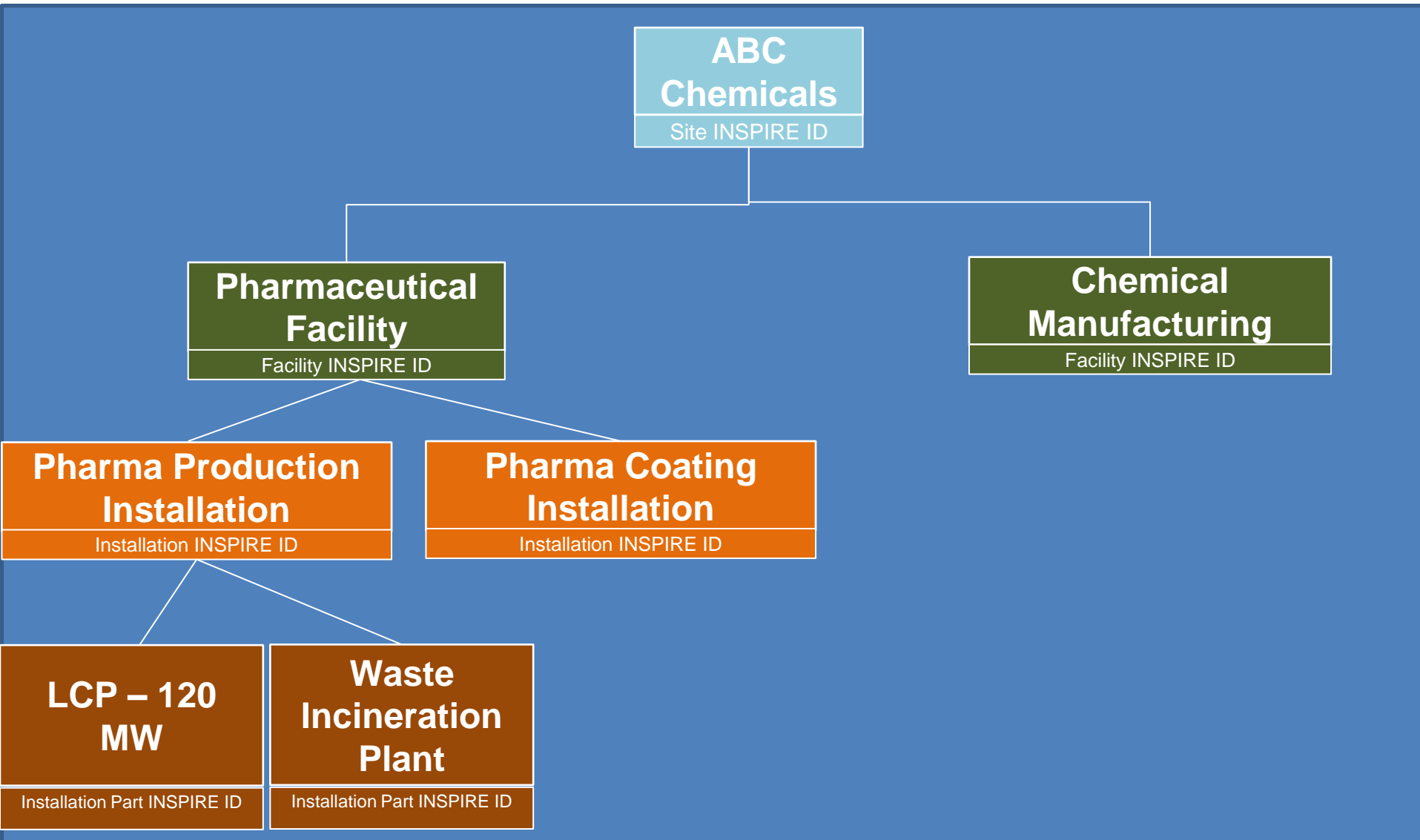
Background: Main Drivers

- **Why the integration of reporting?**
  - Pressure from Member States
  - European Commission decision in 2014
  - Immediate QA/QC cross-checks can improve data quality
  - Reduce the cost of data management and review, both for data providers and the EEA

- **Address key problems:**
  - Simplify and clarify industrial emissions reporting
  - Provide a reusable reporting structure for industrial sites
  - Duplications and inconsistencies
  - Reliability/consistency
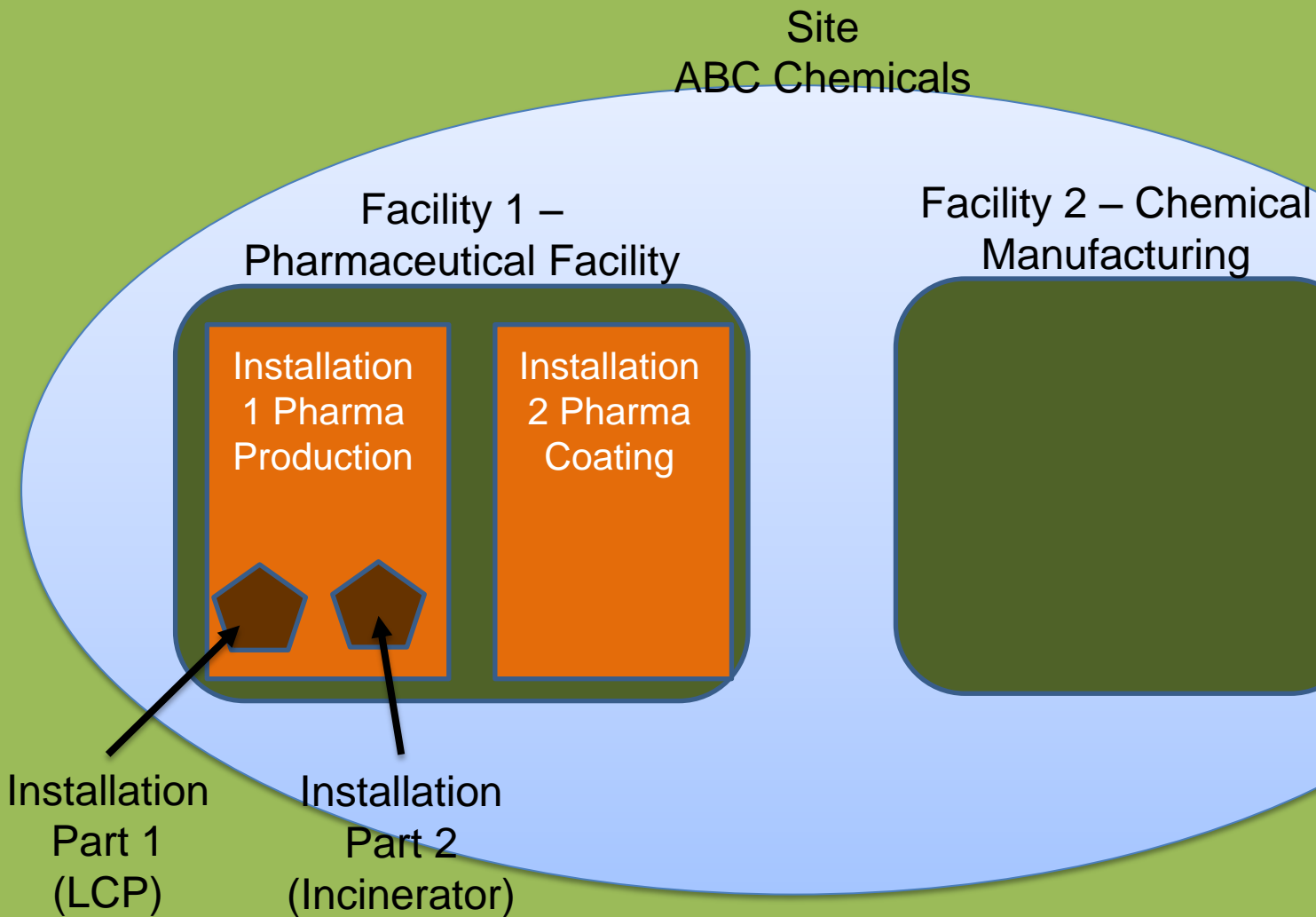 - Reduce reporting burden/complexity

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EU Registry - Overview

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Project overview

ABC Chemicals
Site INSPIRE ID

Pharmaceutical Facility
Facility INSPIRE ID

Chemical Manufacturing
Facility INSPIRE ID

Pharma Production Installation
Installation INSPIRE ID

Pharma Coating Installation
Installation INSPIRE ID

LCP – 120 MW
Installation Part INSPIRE ID

Waste Incineration Plant
Installation Part INSPIRE ID

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Example of 'Complex' Site – Plan View

Site
ABC Chemicals

Facility 1 –
Pharmaceutical Facility

Facility 2 – Chemical
Manufacturing

Installation 1 Pharma Production

Installation 2 Pharma Coating

Installation Part 1 (LCP)

Installation Part 2 (Incinerator)

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Energy Community Reporting Scenario - Example

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EU Registry Resources

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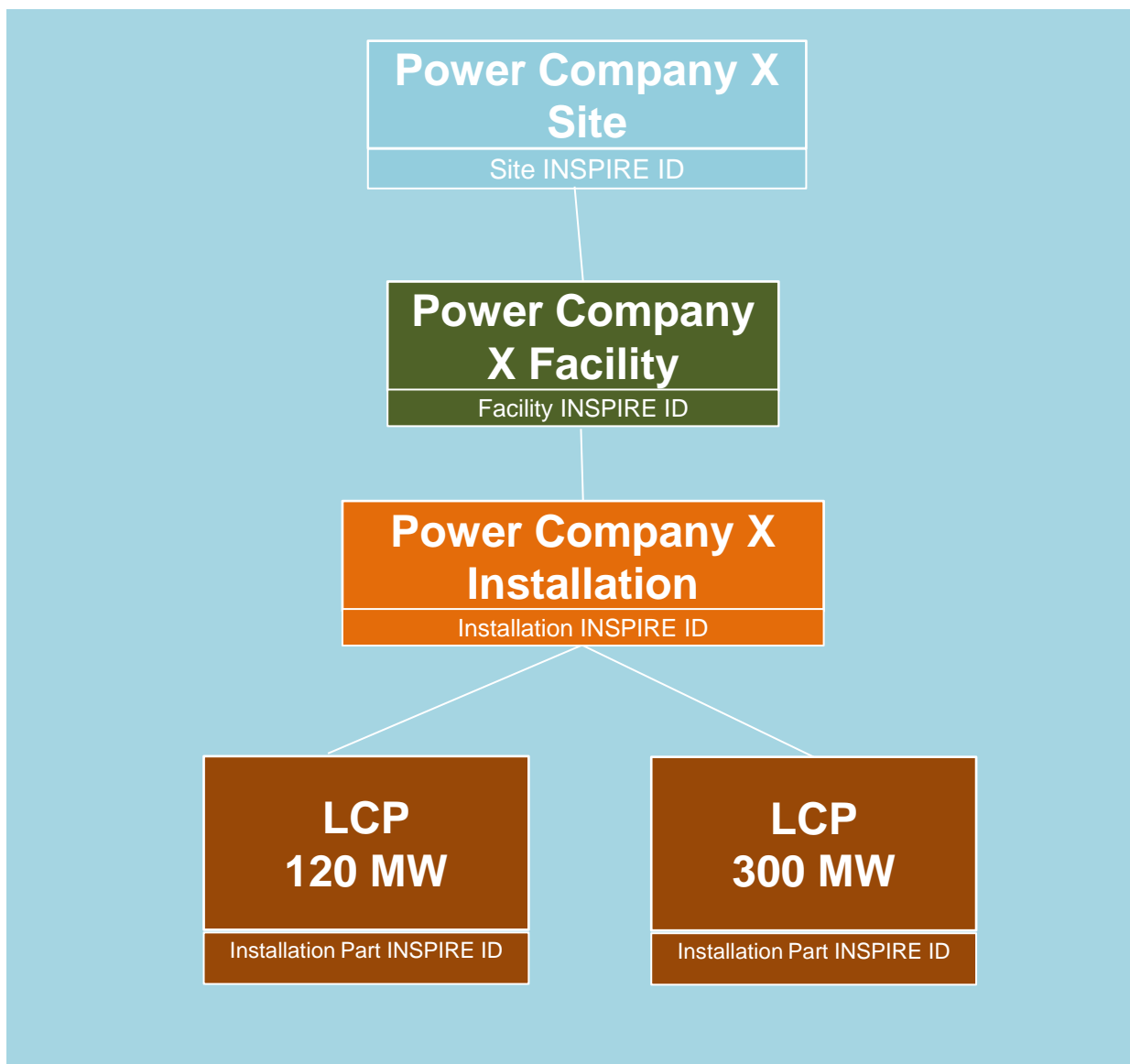
EU Registry resources:

EU Registry | Data model documentation

EU Registry on Industrial Sites
Data model documentation
Version 3.0 – 03/05/2017

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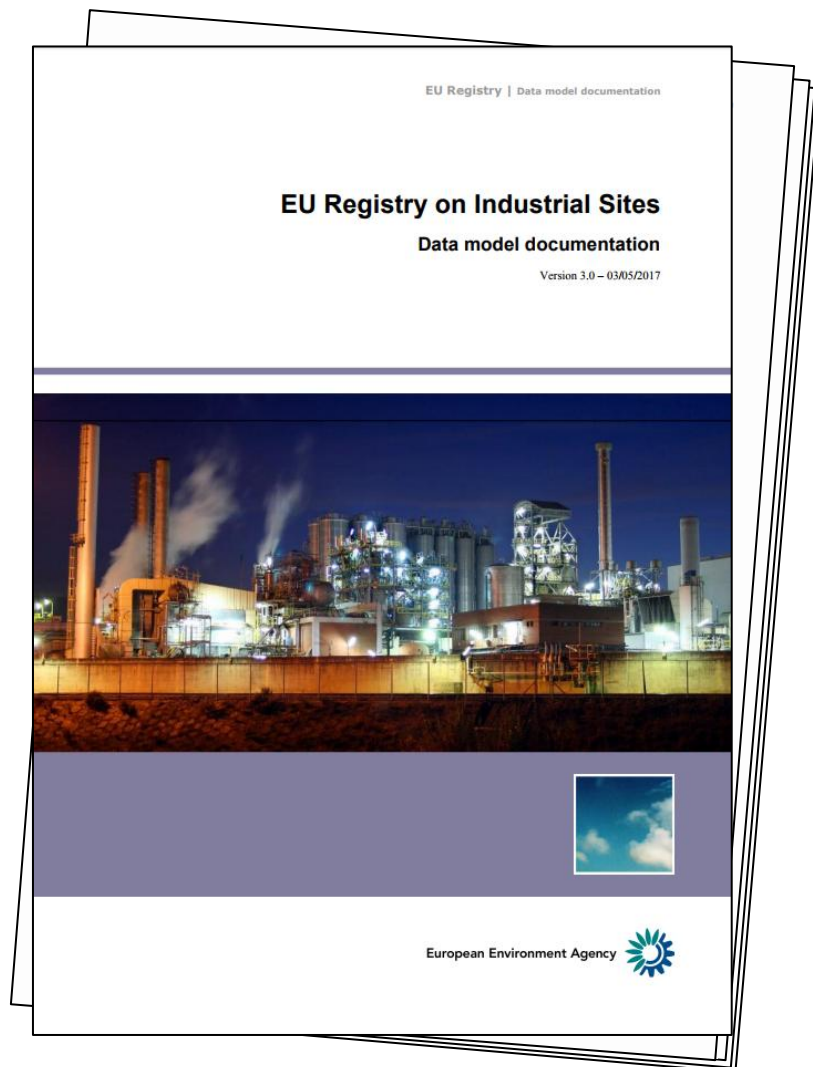
More information

On the project website

http://cdrtest.eionet.europa.eu/help/ied_registry

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Recorded Webinar:

EU Registry on Industrial Sites: Data model

Webinar
March 2017

Aether

Mark Gibbs
Aether Limited

▶ 10:07 / 48:43

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Resources

Data model Document
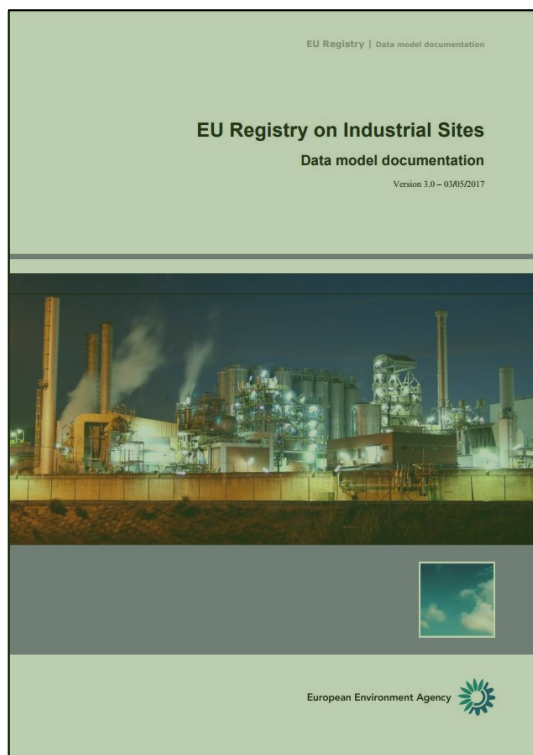
QA/QC Logic Manual
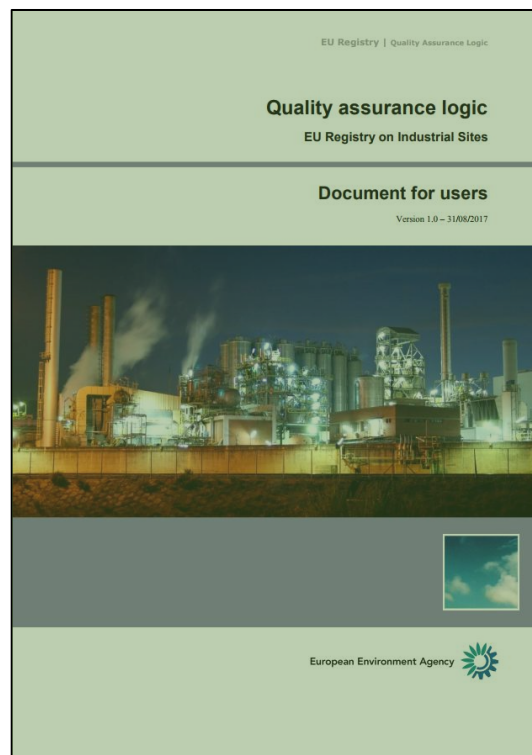
Manual for Reporters
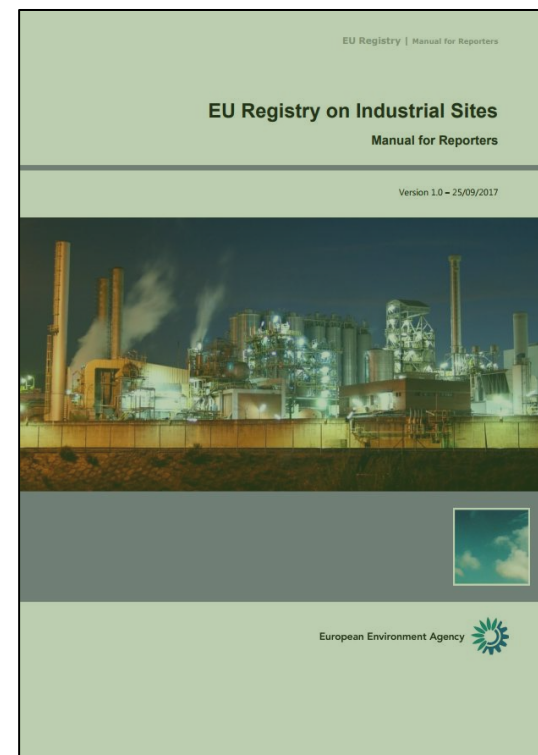
Inspire Directive Compliance (Briefly!)

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Inspire Directive Compliance

- 2007 EU Directive

- Development of common standards to describe spatial environmental data and to facilitate sharing of this data

- EU Registry is INSPIRE compliant, key element of dataset is the unique 'Inspire Identifier' for each spatial object

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Additional Fields to be Reported

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Main Additional Reporting Fields

- Administrative details of parent facility and installation in order to maintain the overall structure of the registry

- Status of LCP (e.g. active, decommissioned, disused)

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Reporting Workflow

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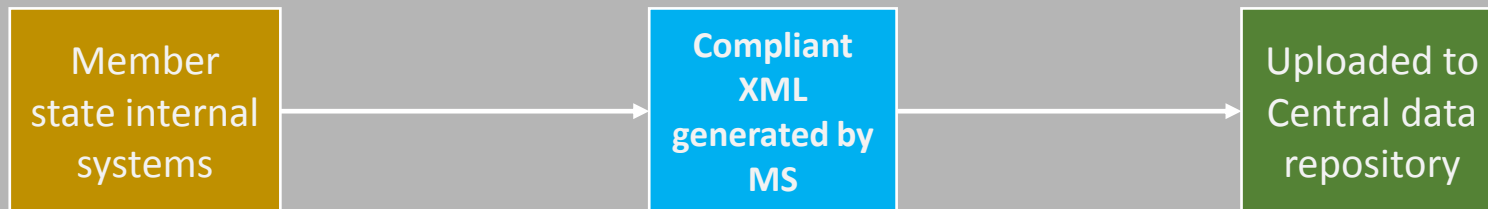
How to report data to the EEA

- The data must be in an 'XML' format

- Some fields are mandatory, some optional, these are clearly defined in guidance

- The data submission must follow a predefined structure in order to be accepted

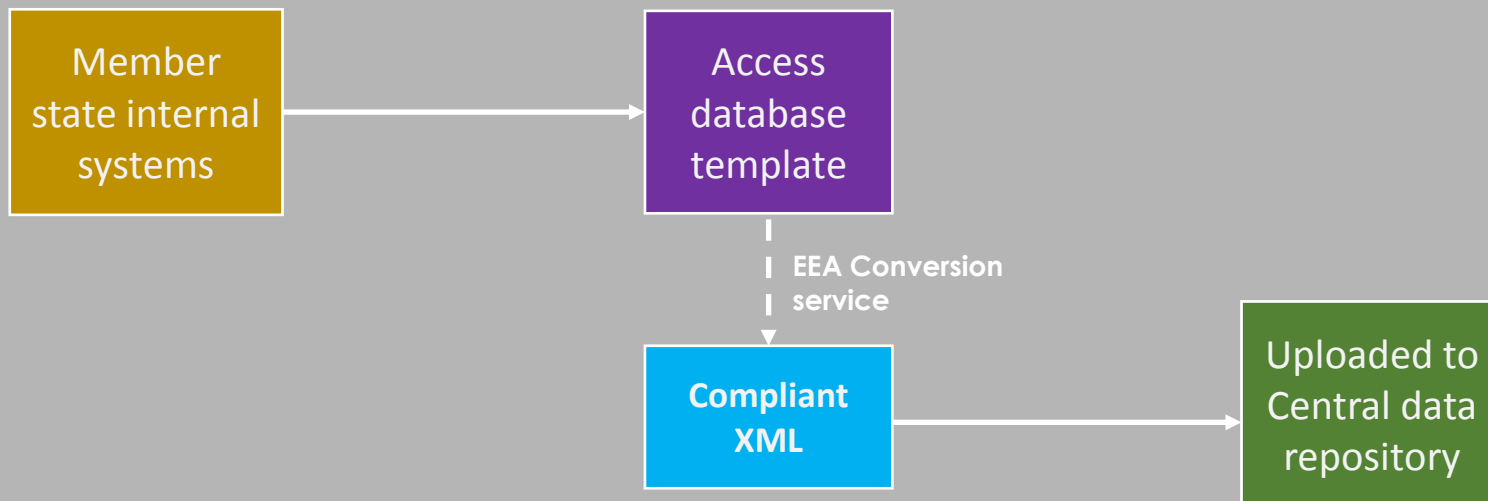- Use predefined 'code lists' for certain fields to ensure consistency

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Example Code List for LCP Fuels

Id	Label	Status	Status Modified	Notation
Biomass	Biomass	Valid	17.05.2017	Biomass
Coal	Coal	Valid	17.05.2017	Coal
Lignite	Lignite	Valid	17.05.2017	Lignite
LiquidFuels	LiquidFuels	Valid	17.05.2017	LiquidFuels
NaturalGas	NaturalGas	Valid	17.05.2017	NaturalGas
OtherGases	OtherGases	Valid	17.05.2017	OtherGases
OtherSolidFuels	OtherSolidFuels	Valid	17.05.2017	OtherSolidFuels
Peat	Peat	Valid	17.05.2017	Peat

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The workflow: XML or Access

Route 1

Member state internal systems → Compliant XML generated by MS → Uploaded to Central data repository

Route 2

Member state internal systems → Access database template → EEA Conversion service → Compliant XML → Uploaded to Central data repository

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EEA Hosted Conversion Service for MS Access Files

EIONET
CDR Testing

CDR playground website

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: Eionet » CDRTEST » Help » EU registry on ...» FME_processes » Access to GML - EU ...

Navigation
» Search
» Notifications
» Help
» Manage

Account Services
I have
» lost my password

Access to GML - EU Registry conversion tool

About the tool

Version of the tool: Version 0.2

Code of the FME process

The process that runs behind this website is also available for reuse. For that to be possible, the software Feature Manipulation Engine (FME) is necessary.

- Current version of the FME process: download here - Version 0.2

Access template

The EU Registry conversion tool uses a **pre-defined template in MS Access format**. Countries must **populate the template** with data referred to a **single reporting year** without any change in its structure. Once populated the conversion tool below generates a GML file compliant with the EU Registry's GML Schema.

Details of the template:

- Microsoft Access template: download here Version 0.2
- Instructions to populate the MS Access template: download here - Version 0.2
- Dummy-data example: download here Version 0.2

Conversion tool

The following tool converts a populated Access file to GML format. The output GML file has to then be uploaded to the relevant CDR envelope.

Form for the conversion:

| Browse... | Upload File |

File list:

E-mail address: [   ] Execute

Instructions:

1) Choose a file *(the button displays different messages depending on the browser e.g. "Choose File" or "Browse...")*

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EU Registry Now Open for Testing by Reporters

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CDR Testing

CDR playground website

SERVICES   REPORTNET   TOOLS   TOPICS (ETCS)

» You are here: Eionet » CDRTEST » Ireland » European Union (EU), obligations » EU Registry on Industrial Sites » Test Envelope » EU_Registry_Updated.gml

» **Services**
» » **Search**
» » **Notifications**
» » **Help**
» » **Manage**

Account Services

I have
» **lost my password**

→ **Note**

Subscribe to receive notifications if you want to stay updated about events in this site.

File: EU_Registry_Updated.gml

Back to envelope

View file as

- Original

File properties

Title	
Schema location	http://dd.eionet.europa.eu/schemas/euregistryonindustrialsites/EUReg.xsd
File size	16.4 KB (16781 Bytes)
Last uploaded	10 Nov 2017 15:10
Restricted from public view	No

Quality assessment

Run XML Schema Validation Run QA #1

Run Main QA script Run QA #2

Feedback posted for this file

No feedback available for this file.

Reporting Deadlines

- Administrative data to be reported 11 months after the end of the year, e.g. data for 2017 to be reported by November 2018

- Thematic (emissions) data to be reported 15 months after the end of the reporting year, e.g. data for 2017 to be reported by the end of March 2019.

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Quality Assurance on Submitted Data

- Majority of checks will be automated

- Checks include information, warning and blocking checks

- Historical 'trend' checks

- Cross – checking of data submitted for a given year (e.g. check of fuel usage and emissions quantity – is it reasonable?).

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Example of Automated Quality Control Results

C1.1	EPRTRAnnexIActivity mainActivity consistency	1 errors0 warnings	More...
C1.2	EPRTRAnnexIActivity otherActivity consistency	0 errors0 warnings	
C1.3	IEDAnnexIActivity mainActivity consistency	0 errors0 warnings	
C1.4	IEDAnnexIActivity otherActivity consistency	0 errors0 warnings	
C1.5	CountryId consistency	0 errors0 warnings	
C1.6	reasonValue consistency	0 errors0 warnings	

2. INSPIRE ID CHECKS

C2.1	High proportion of new inspireIds	1 error	More...
C2.2	ProductionSite inspireId uniqueness	0 errors0 warnings	
C2.3	ProductionFacility inspireId uniqueness	0 errors0 warnings	
C2.4	ProductionInstallation inspireId uniqueness	0 errors0 warnings	
C2.5	ProductionInstallationPart inspireId uniqueness	0 errors0 warnings	

3. DUPLICATE IDENTIFICATION CHECKS

C3.1	Identification of ProductionSite duplicates	0 errors0 warnings	
C3.2	Identification of ProductionFacility duplicates	0 errors0 warnings	

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What Will Happen to Submitted Data?

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Publication and Use of Reported Data

- Possible to keep data fields confidential but must have a valid legal reason

- Once data validated by EEA it is made available graphically (via website) and in raw form for others to use

- Publish indicators showing trends, etc..

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Publicly Available Data

Plant-by-plant emissions (LCP) and information on derogations

The database contains plant by plant information for Large Combustion Plants (LCP) on size, combustion technology, energy input, annual emissions (SO2, NOx and dust) and operation under specific derogatory regimes of combustion plants.

- 📁 **LCP_database_v3.1_mdb.zip** (ZIP archive)
  6.71 MB Download file

- 📁 **LCP_database_v3.1_csv.zip** (ZIP archive)
  3.08 MB Download file

Information on the database structure and use
- 📄 **LCP_database_metadata_v3.1.pdf** (PDF document)
  915.27 KB Download file

User-friendly tables in Excel
These tables, in Microsoft Excel format, offer an extract of the most relevant data fields in independent sheets for each year.

- 📁 **LCP_extract_v3.1_xlsx.zip** (ZIP archive)
  3.42 MB Download file

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Next Steps

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Next steps for Current Reporting Countries

- Complete informal testing phase

- Submit plant administrative data by November 30 2018 (for 2017 reporting year);

- Submit plant thematic (emissions data) by March 31 2019

- New website under development to display EU Registry data post validation

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Next Steps for Energy Community

- Consider possibility of reporting LCP data via EU Registry?

- EEA should be able to support requests to carry out some informal testing by contracting parties to assess feasibility.

- Depending on testing can then discuss next steps.

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