European Environment Agency

SEVESO REPORTING:

eSPIRS Data Model

Seveso Community of Practice
Webinar, Copenhagen
17 April 2024

Housekeeping rules for participants

No recording

The workshop is **not** being **recorded**

Keep your camera on

Feel free to keep your **camera on** but with your microphone muted – unless you wish to speak.

We want to hear from you

Raise your hand if you wish to speak.
Or share your comments, questions and insights **in the chat**.

Your name in TEAMS

In chat messages, **please type your name first, so we know who you are.**

Technical difficulties? Send a message through the chat, or email to Seveso.helpdesk@eea.europa.eu

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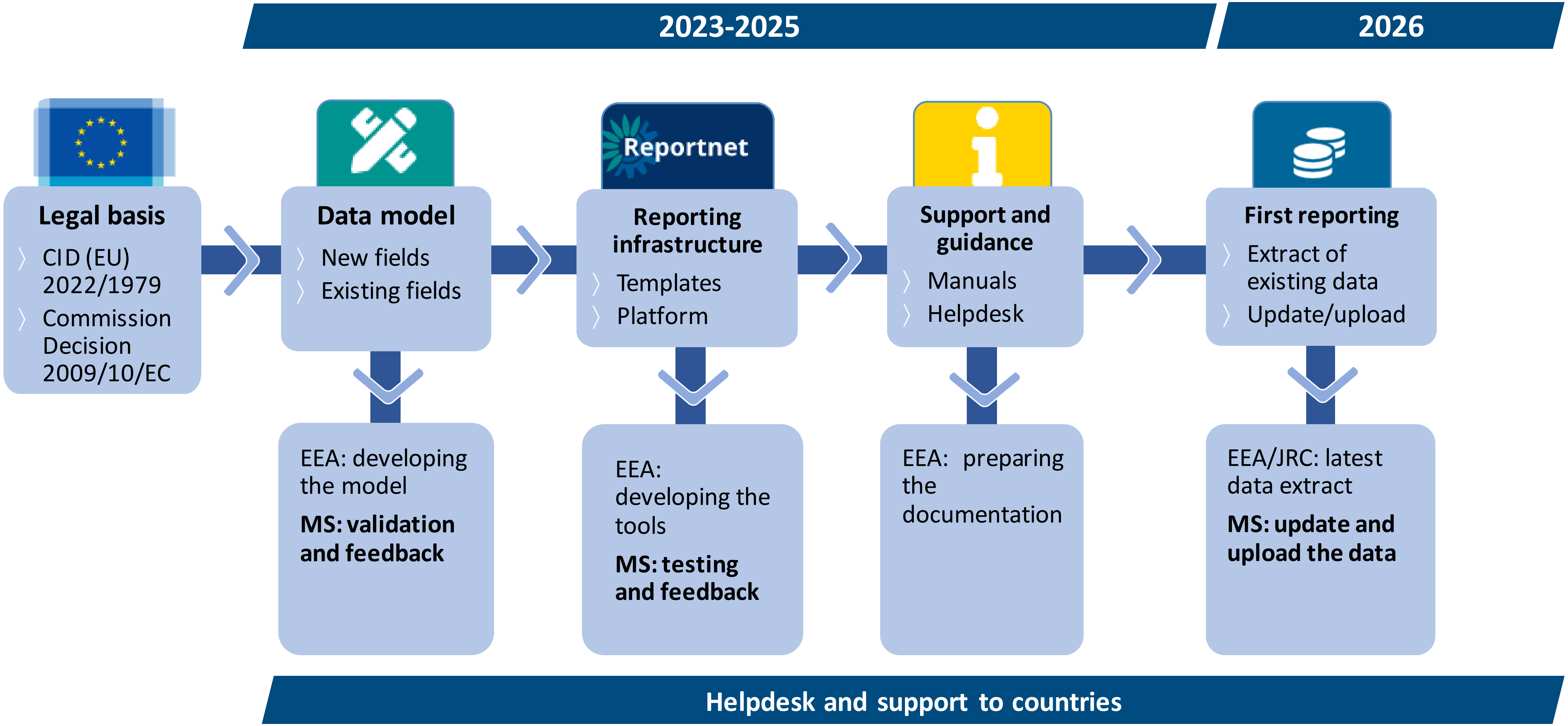
Aims of this webinar

- Present the latest version of the eSPIRS data model
- Discuss the feedback received from the countries
- Introduce INSPIRE identifiers and links with EURegistry
- Collect additional feedback
- Next steps

Background

- Seveso Directive reporting requirements
    - Establishment information
    - Major accident information
- New CID – New reporting framework
    - JRC stops hosting by end of 2025
    - EEA starts hosting from 2026

Process



2023-2025

2026

Legal basis
- CID (EU) 2022/1979
- Commission Decision 2009/10/EC

Data model
- New fields
- Existing fields

EEA: developing the model

MS: validation and feedback

Reporting infrastructure
- Templates
- Platform

EEA: developing the tools

MS: testing and feedback

Support and guidance
- Manuals
- Helpdesk

EEA: preparing the documentation

First reporting
- Extract of existing data
- Update/upload

EEA/JRC: latest data extract

MS: update and upload the data

Helpdesk and support to countries

Progress

- In 2023
  - Analysis of CIDs
  - Analysis existing JRC eSPIRS and eMARS platforms
  - Initial drafting of data model specifications

- In 2024
  - First draft of eSPIRS data model
  - Feedback on data model from the Community of practice

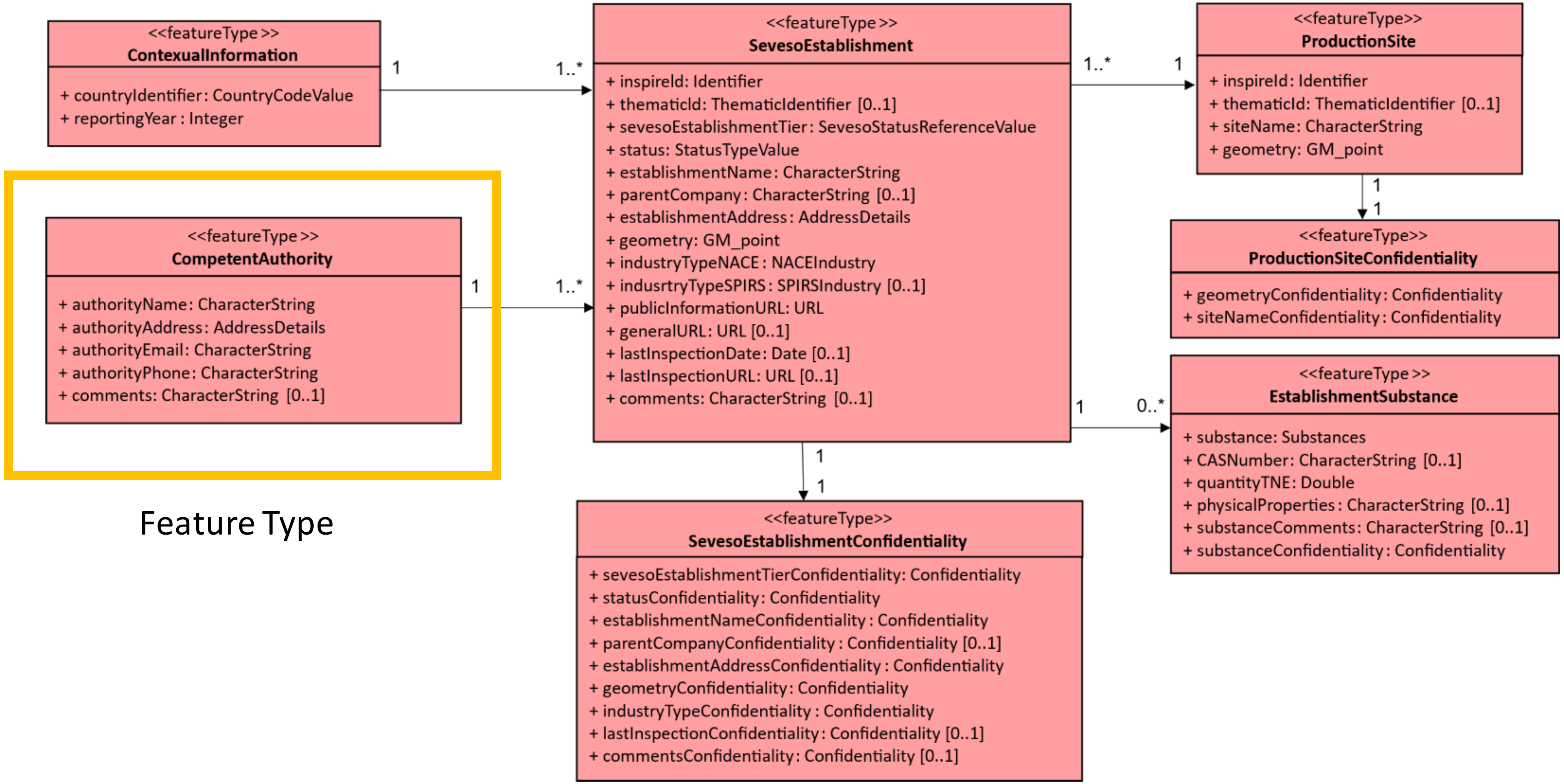
eSPIRS data model – Feedback from Countries

- Comments from eight countries
  - Two bilateral meetings
  - Six provided written feedback
- Most commented feature: Sites
- Many comments not directly related to the data model
  - File format for reporting
  - Reporting procedures
  - Establishment lifecycle
  - Links to other reporting obligations

eSPIRS Data Model

- Based on CIDs, Seveso directive, existing platforms
- Useful to :
  - identify data gaps
  - establish the type of each data element
  - define the relationship between different data elements
- File formats and reporting procedures will be discussed in the future

eSPIRS data model – UML Diagram



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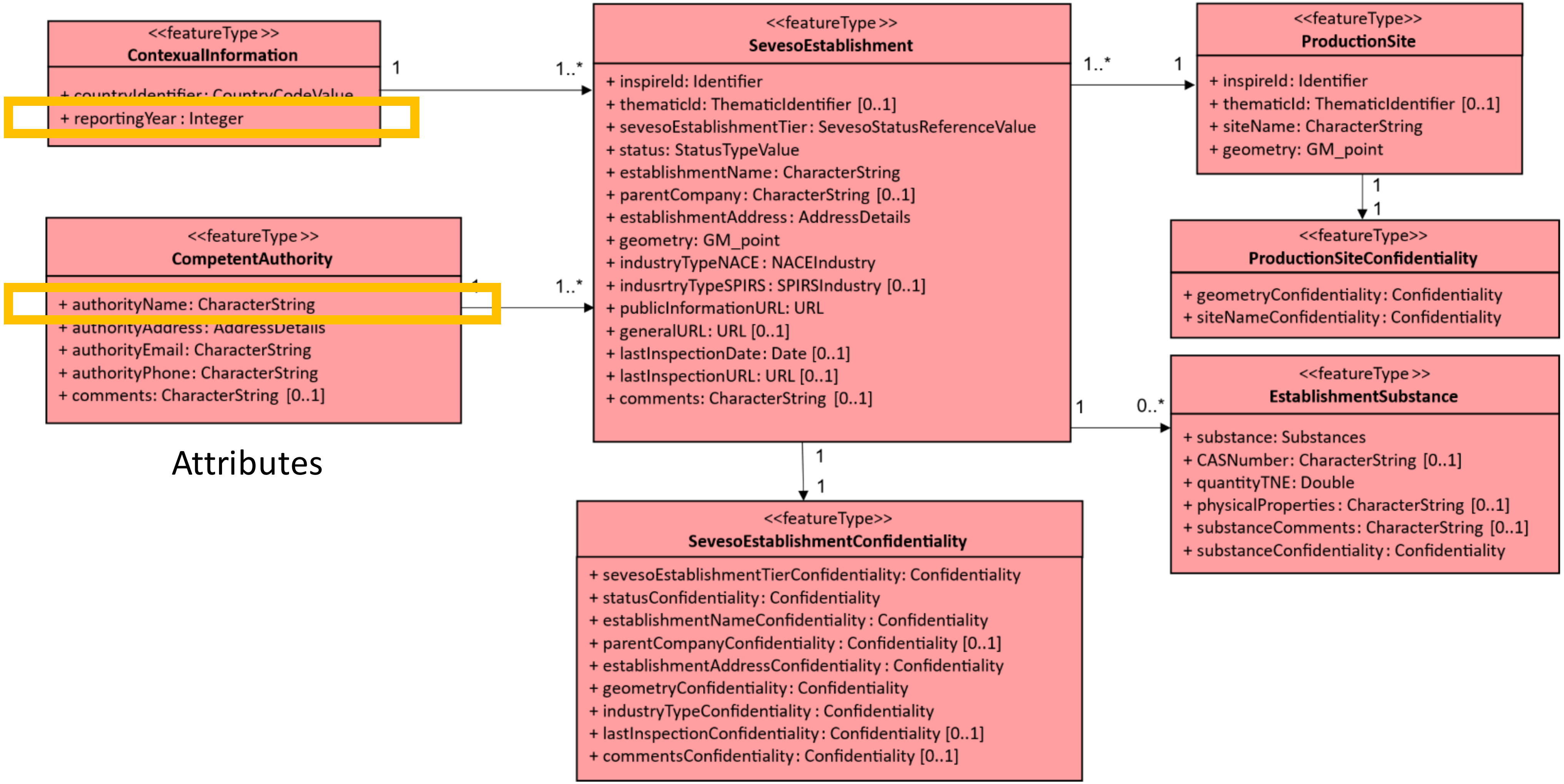
eSPIRS data model – UML Diagram Attributes



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Attributes

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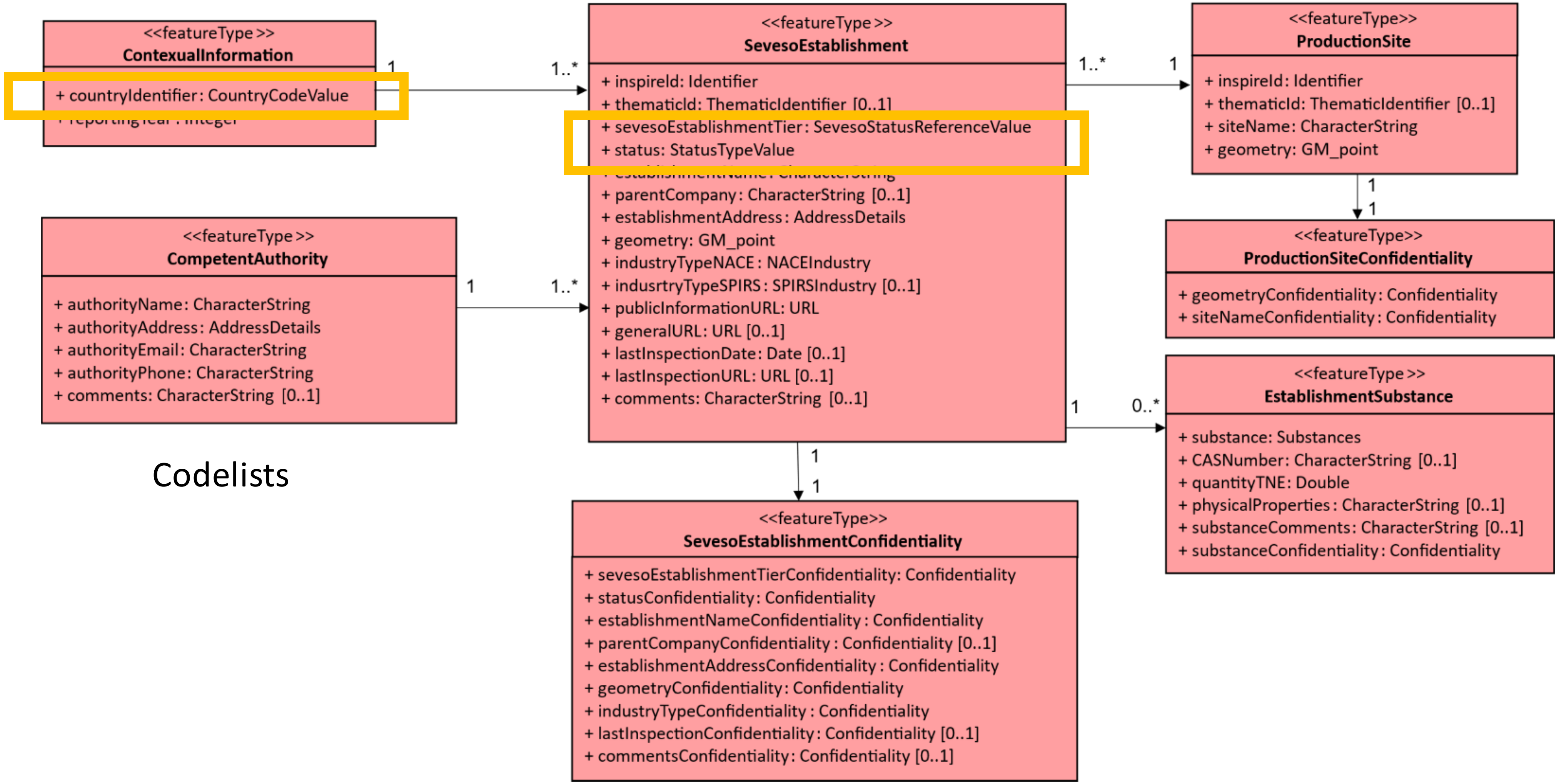
eSPIRS data model – UML Diagram Codelists



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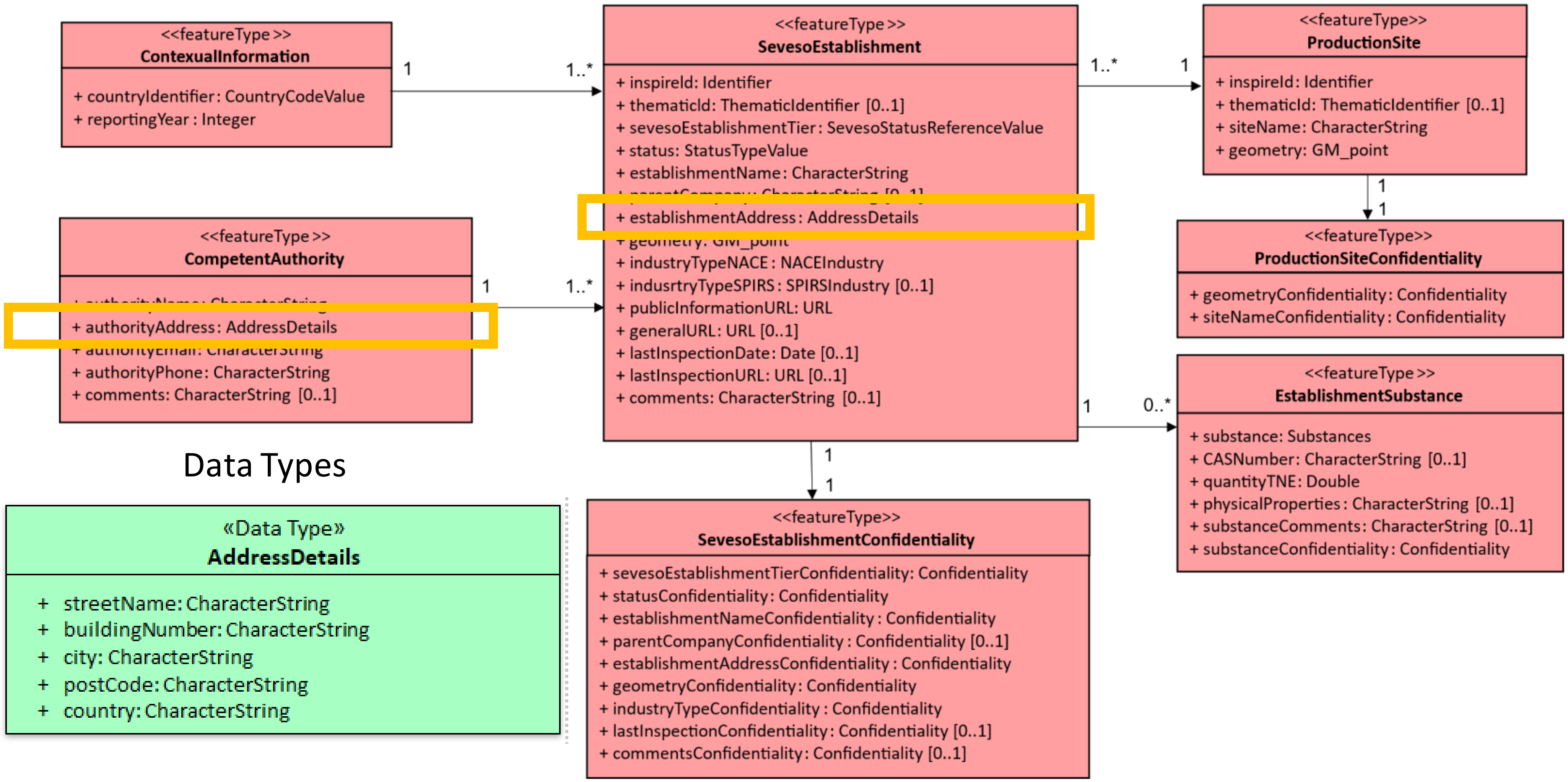
Codelists

eSPIRS data model – UML Diagram Data Types



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Data Types

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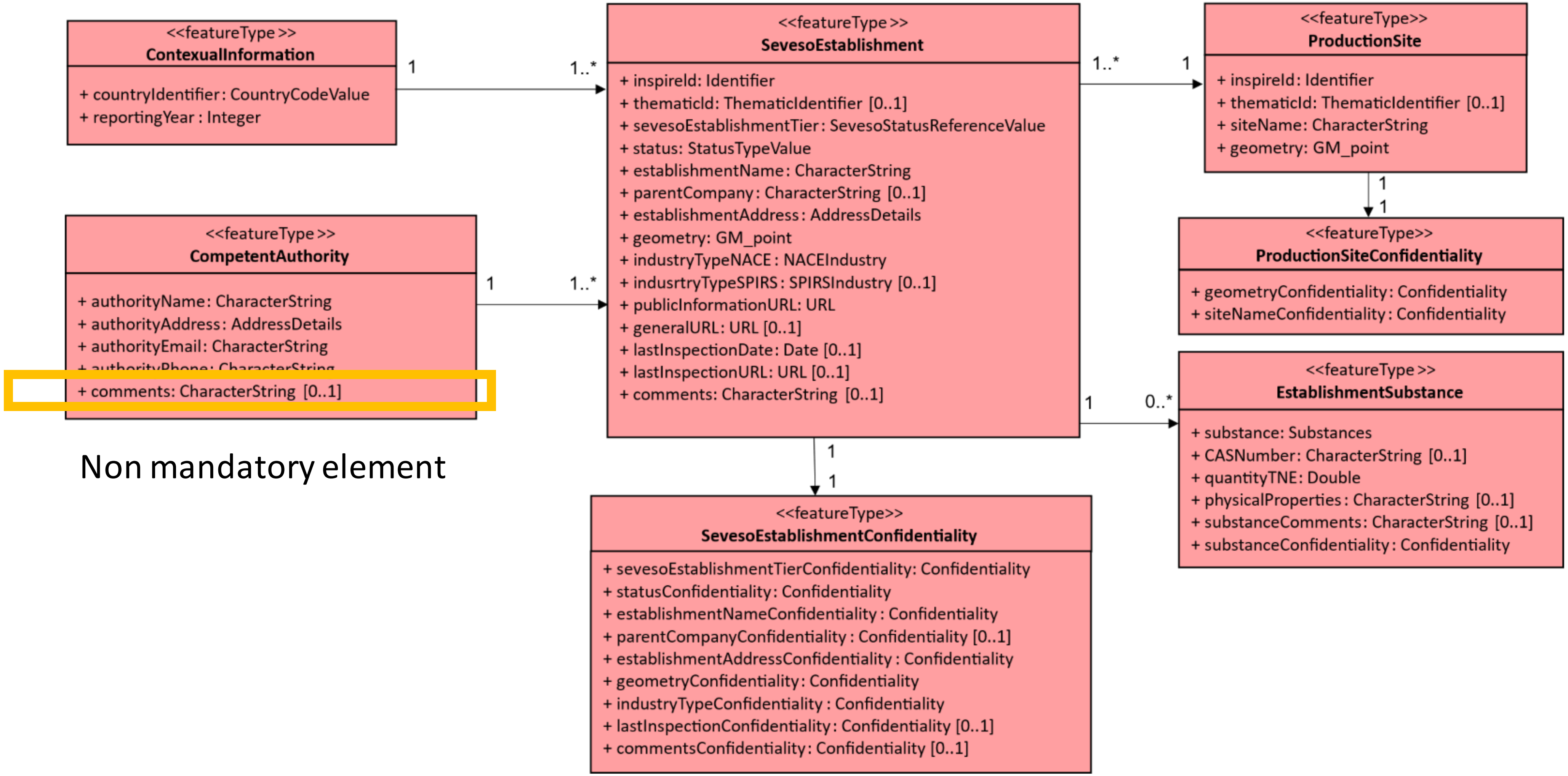
eSPIRS data model – UML Diagram Non Mandatory Element



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Non mandatory element

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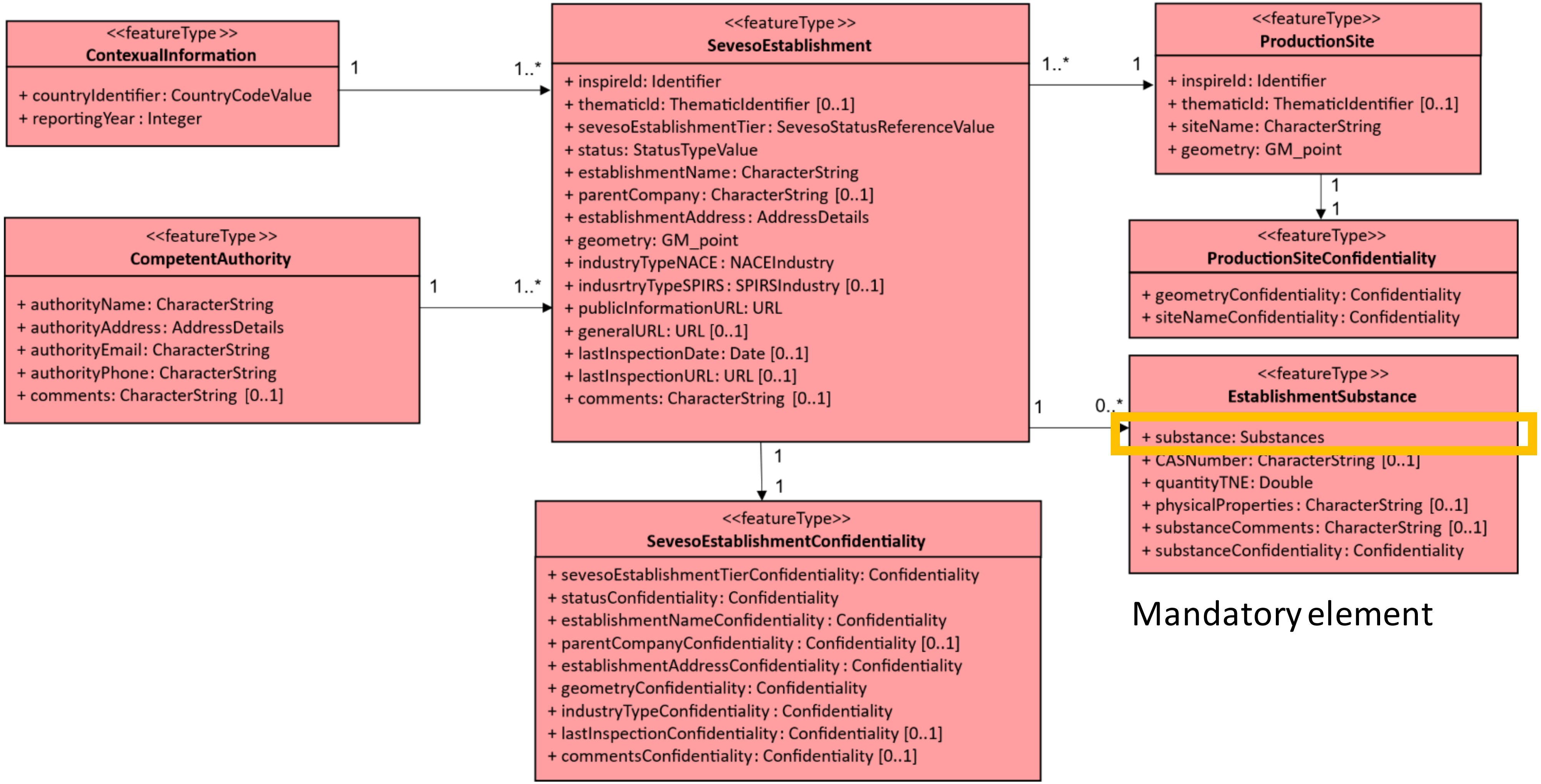

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Mandatory element

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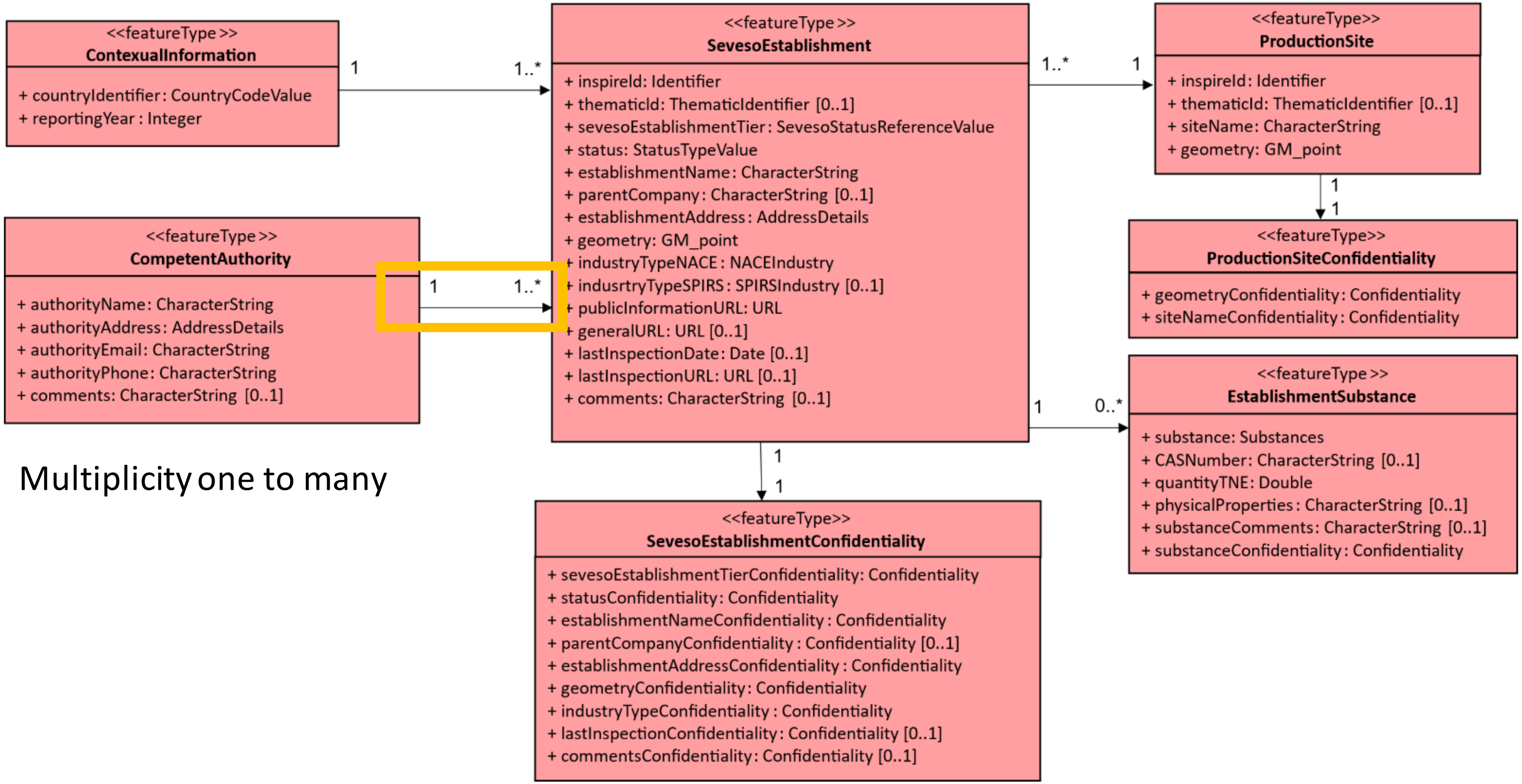
eSPIRS data model – UML Diagram Multiplicity



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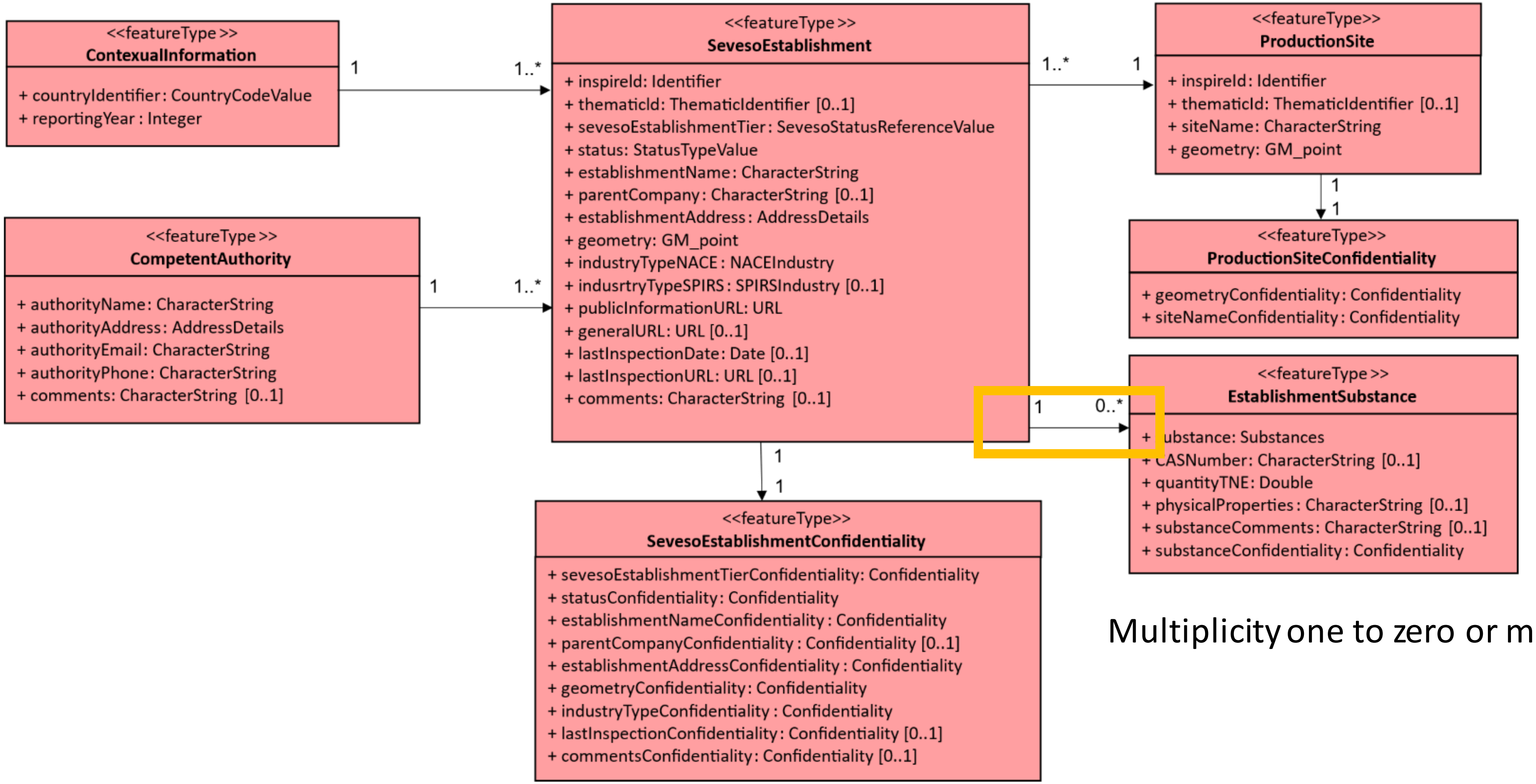
Multiplicity one to many

eSPIRS data model – UML Diagram Multiplicity



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Multiplicity one to zero or many

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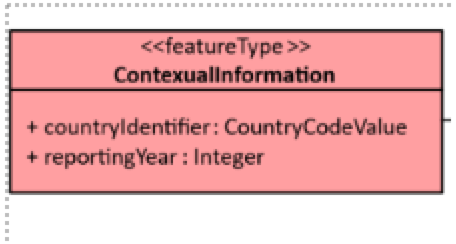
eSPIRS data model – New vs Old CID content

Contextual Information

CID 2014 /895/EU	CID 2022/1979	
	1.1 Country Identifier	🟨
	1.2 Reporting Year	🟨

- Metadata, one entry per delivery
- No confidentiality
- No comments from countries

🟩	Match
🟨	New element - information available/non mandatory
🟧	New element - additional mandatory data
🟪	New element - impact on implementation
🟦	Not included in new CID



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eSPIRS data model – New vs Old CID content

Reporting Competent Authority

CID 2014 /895/EU	CID 2022/1979	
2.1.a Reporting Competent Authority Name	**2.1 Competent Authority Name**	🟩
2.1.e Reporting Competent Authority Country	**2.2 Competent Authority Address - Country**	🟩
2.1.c Reporting Competent Authority City	**2.2 Competent Authority Address - CIty**	🟩
2.1.b Reporting Competent Authority Address	**2.2 Competent Authority Address - Street**	🟩
	2.2 Competent Authority Address - Building n.	🟨
2.1.d Reporting Competent Authority Post Code	**2.2 Competent Authority Address - Postal Code**	🟩
	2.3 Competent Authority Email	🟧
	2.3 Competent Phone Number	🟧
2.1.f Comments	2.3 Comments	🟩

- One entry per delivery - info on the authority sending the data to the EEA
- No confidentiality
- Minor changes from old CID
- No comments from countries

🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**

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CompetentAuthority

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«Data Type»
AddressDetails

+ streetName: CharacterString
+ buildingNumber: CharacterString
+ city: CharacterString
+ postCode: CharacterString
+ country: CharacterString

eSPIRS data model – New vs Old CID content

Information on Establishment 1/2

- More on the Ids later

CID 2014 /895/EU	CID 2022/1979	
	4.1 InspireId localId	🟪
	4.1 InspireId namespace	🟪
	4.2 ThematicId Identifier	🟪
	4.2 ThematicId IdentifierSchema	🟪
2.2a Seveso Status	**4.3 Seveso establishment tier**	🟩
	4.4 Status	🟧
2.2b Name of establishment	**4.5 Name of the establishment**	🟩
2.2c Name of parent company	4.6 Name of the parent company	🟩
2.2.d Personalized code		🟦
Country is by default the reporting one	**4.7 Establishment Address - Country**	🟨
2.3.a Establishment Location - City	**4.7 Establishment Address - CIty**	🟩
2.3.a Establishment Location - Street	**4.7 Establishment Address - Street**	🟩
2.3.a Establishment Location - Street number	**4.7 Establishment Address - Building n.**	🟩
Post code is collected in eSPIRS	**4.7 Establishment Address- Postal Code**	🟩
2.3.d Address comments		🟦
2.3.b Establishment Location Latitude	**4.8 Geometry Latitude**	🟩
2.3.c Establishment Location Longitude	**4.8 Geometry Longitude**	🟩

🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
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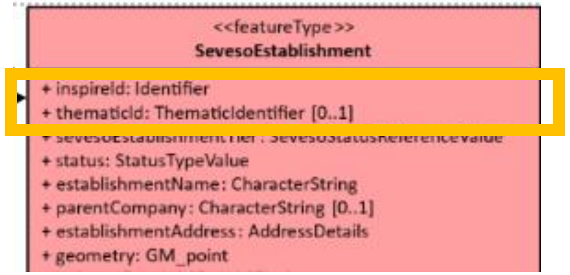

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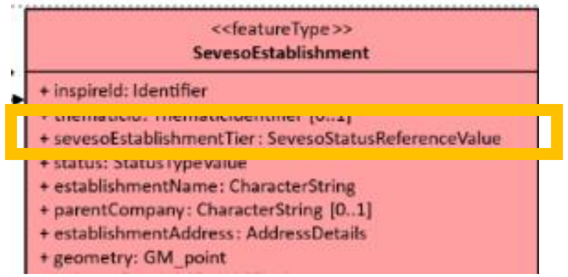
eSPIRS data model – New vs Old CID content

Information on Establishment 1/2

- Seveso Status is now the Tier

CID 2014 /895/EU	CID 2022/1979	
	4.1 InspireId localId	🟪
	4.1 InspireId namespace	🟪
	4.2 ThematicId Identifier	🟪
	4.2 ThematicId IdentifierSchema	🟪
2.2a Seveso Status	**4.3 Seveso establishment tier**	🟩
	4.4 Status	🟧
2.2b Name of establishment	**4.5 Name of the establishment**	🟩
2.2c Name of parent company	4.6 Name of the parent company	🟩
2.2.d Personalized code		🟦
Country is by default the reporting one	**4.7 Establishment Address - Country**	🟨
2.3.a Establishment Location - City	**4.7 Establishment Address - CIty**	🟩
2.3.a Establishment Location - Street	**4.7 Establishment Address - Street**	🟩
2.3.a Establishment Location - Street number	**4.7 Establishment Address - Building n.**	🟩
Post code is collected in eSPIRS	**4.7 Establishment Address- Postal Code**	🟩
2.3.d Address comments		🟦
2.3.b Establishment Location Latitude	**4.8 Geometry Latitude**	🟩
2.3.c Establishment Location Longitude	**4.8 Geometry Longitude**	🟩

🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**



<<featureType>>
SevesoEstablishment

+ inspireId: Identifier
+ thematicId: ThematicIdentifier [0..1]
+ sevesoEstablishmentTier: SevesoStatusReferenceValue
+ status: StatusTypeValue
+ establishmentName: CharacterString
+ parentCompany: CharacterString [0..1]
+ establishmentAddress: AddressDetails
+ geometry: GM_point

European Environment Agency

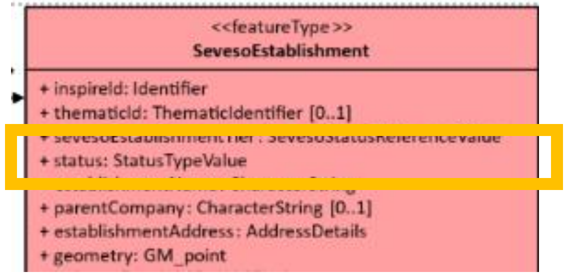
eSPIRS data model – New vs Old CID content

Information on Establishment 1/2

- Operational status of the establishment(functional, disused, decommissioned)
- Connected to EURegistry
- Comment on relevance to lifecycle and reporting

CID 2014 /895/EU	CID 2022/1979	
	4.1 InspireId localId	🟪
	4.1 InspireId namespace	🟪
	4.2 ThematicId Identifier	🟪
	4.2 ThematicId IdentifierSchema	🟪
2.2a Seveso Status	**4.3 Seveso establishment tier**	🟩
	4.4 Status	🟧
2.2b Name of establishment	**4.5 Name of the establishment**	🟩
2.2c Name of parent company	4.6 Name of the parent company	🟩
2.2.d Personalized code		🟦
Country is by default the reporting one	**4.7 Establishment Address - Country**	🟨
2.3.a Establishment Location - City	**4.7 Establishment Address - CIty**	🟩
2.3.a Establishment Location - Street	**4.7 Establishment Address - Street**	🟩
2.3.a Establishment Location - Street number	**4.7 Establishment Address - Building n.**	🟩
Post code is collected in eSPIRS	**4.7 Establishment Address- Postal Code**	🟩
2.3.d Address comments		🟦
2.3.b Establishment Location Latitude	**4.8 Geometry Latitude**	🟩
2.3.c Establishment Location Longitude	**4.8 Geometry Longitude**	🟩

🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**


<<featureType>>
SevesoEstablishment
+ inspireId: Identifier
+ thematicId: ThematicIdentifier [0..1]
+ sevesoEstablishmentTier : SevesoStatusReferenceValue
+ status: StatusTypeValue
+ parentCompany: CharacterString [0..1]
+ establishmentAddress: AddressDetails
+ geometry: GM_point

European Environment Agency

eSPIRS data model – New vs Old CID content

Information on Establishment 2/2

- Either SPIRS or NACE could be provided in previous CID
- Now NACE is mandatory
- Main Type is explicitly indicated in new data model
- Comment on NACE updates

CID 2014 /895/EU	CID 2022/1979	
2.e Industry Type NACE	**4.9 Industry Type NACE**	🟧
2.e Industry Type SPIRS	4.10 Industry Type SPIRS	🟩
	4.11 Link to website info to population	🟧
2.2.f Link to website with info on establishment	4.12 Link to generic website	🟩
	4.13 Date of last inspection	🟨
	4.14 Link to inspection conclusions	🟨
2.2.i Establishment comments	4.15 Comments	🟩
2.2.g EPRTR ID		🟦
2.2.g link to EPRTR website		🟦
2.2h IED ID		🟦
2.2h link to IED website		🟦

«Data Type»
NACEIndustry

+ mainNACEIndustryType: NACEValue
+ otherNACEIndustryType: NACEValue [0..*]

«Data Type»
SPIRSIndustry

+ mainSPIRSIndustryType: SPIRSCodeValue
+ otherSPIRSIndustryType: SPIRSCodeValue [0..*]

🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**

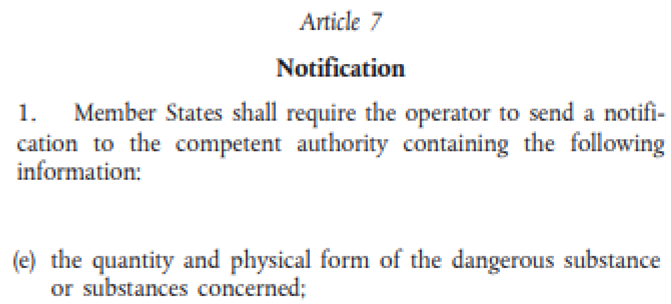
eSPIRS data model – New vs Old CID content

Establishment Substances

CID 2014 /895/EU	CID 2022/1979	
2.4.a Substance common name, or hazard classification	**5.1 Substance common name, or hazard classification**	🟩
2.4.b CAS Number (Auto-filled in eSPIRS)	5.2 CAS Number	🟩
2.4.c Quantity	**5.3 Quantity**	🟩
2.4.d Physical properties (Not implemented in eSPIRS)	5.4 Physical properties	🟨
2.4.e Substance comments	5.5 Substance comments	🟩

- Was in 2014 CID but was not implemented in eSPIRS
- Introduced as non-mandatory textual field
- Could complicate reporting if physical state, pressure and temperature are specified as indicated in CID
- Comment from country

Directive 2012/18/EU

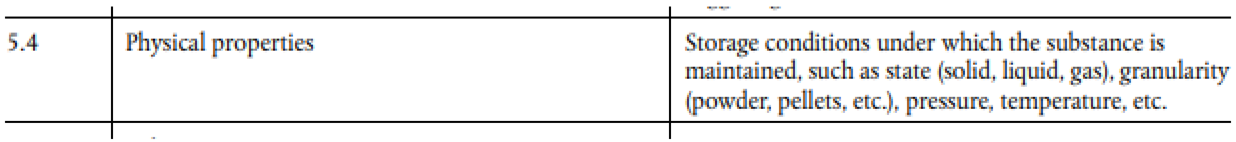


Article 7

Notification

1. Member States shall require the operator to send a notification to the competent authority containing the following information:

(e) the quantity and physical form of the dangerous substance or substances concerned;



5.4	Physical properties	Storage conditions under which the substance is maintained, such as state (solid, liquid, gas), granularity (powder, pellets, etc.), pressure, temperature, etc.

🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**

eSPIRS data model – New vs Old CID content

Establishment Substances

CID 2014 /895/EU	CID 2022/1979	
2.4.a Substance common name, or hazard classification	5.1 Substance common name, or hazard classification	🟩
2.4.b CAS Number (Auto-filled in eSPIRS)	5.2 CAS Number	🟩
2.4.c Quantity	5.3 Quantity	🟩
2.4.d Physical properties (Not implemented in eSPIRS)	5.4 Physical properties	🟨
2.4.e Substance comments	5.5 Substance comments	🟩

- It is auto-filled in eSPIRS same functionality in the new system
- No comment from country

🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**

eSPIRS data model – New vs Old CID content

Information on Production Site

CID 2014 /895/EU	CID 2022/1979	
	3.1 InspireId localId	🟪
	3.1 InspireId namespace	🟪
	3.2 ThematicId Identifier	🟪
	3.2 ThematicId IdentifierScheme	🟪
	3.3 Geometry Latitude	🟪
	3.3 Geometry Longitude	🟪
	3.4 Name of Production Site	🟪

- Production Site is a new requirement of 2022 CID
- Many comments on how to define and report the Site

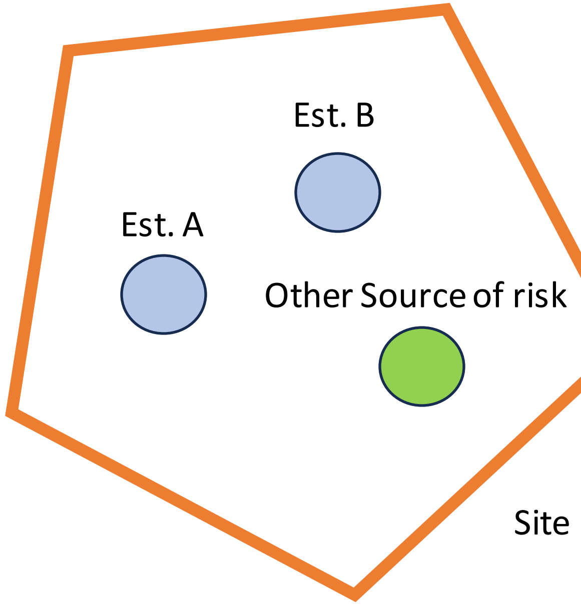
🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**

eSPIRS data model – New vs Old CID content

Information on Production Site

CID 2014 /895/EU	CID 2022/1979	
	3.1 InspireId localId	🟪
	3.1 InspireId namespace	🟪
	3.2 ThematicId Identifier	🟪
	3.2 ThematicId IdentifierScheme	🟪
	3.3 Geometry Latitude	🟪
	3.3 Geometry Longitude	🟪
	3.4 Name of Production Site	🟪

- Production Site is a new requirement of 2022 CID
- Many comments on how to define and report the Site



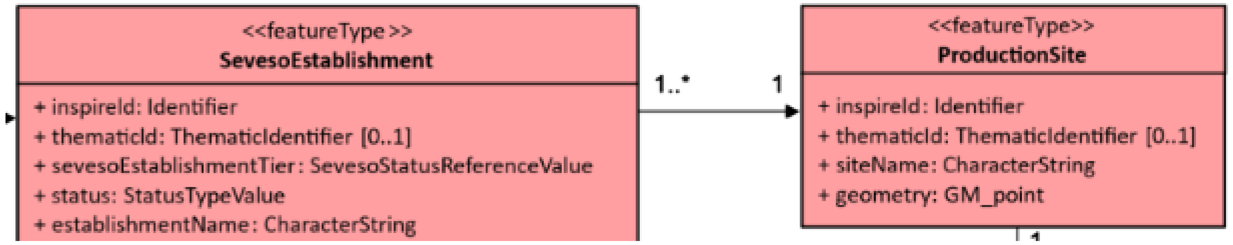
🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**

eSPIRS data model – New vs Old CID content

Information on Production Site

CID 2014 /895/EU	CID 2022/1979	
	3.1 InspireId localId	🟪
	3.1 InspireId namespace	🟪
	3.2 ThematicId Identifier	🟪
	3.2 ThematicId IdentifierScheme	🟪
	3.3 Geometry Latitude	🟪
	3.3 Geometry Longitude	🟪
	3.4 Name of Production Site	🟪

- Production Site is a new requirement of 2022 CID
- Many comments on how to define and report the Site

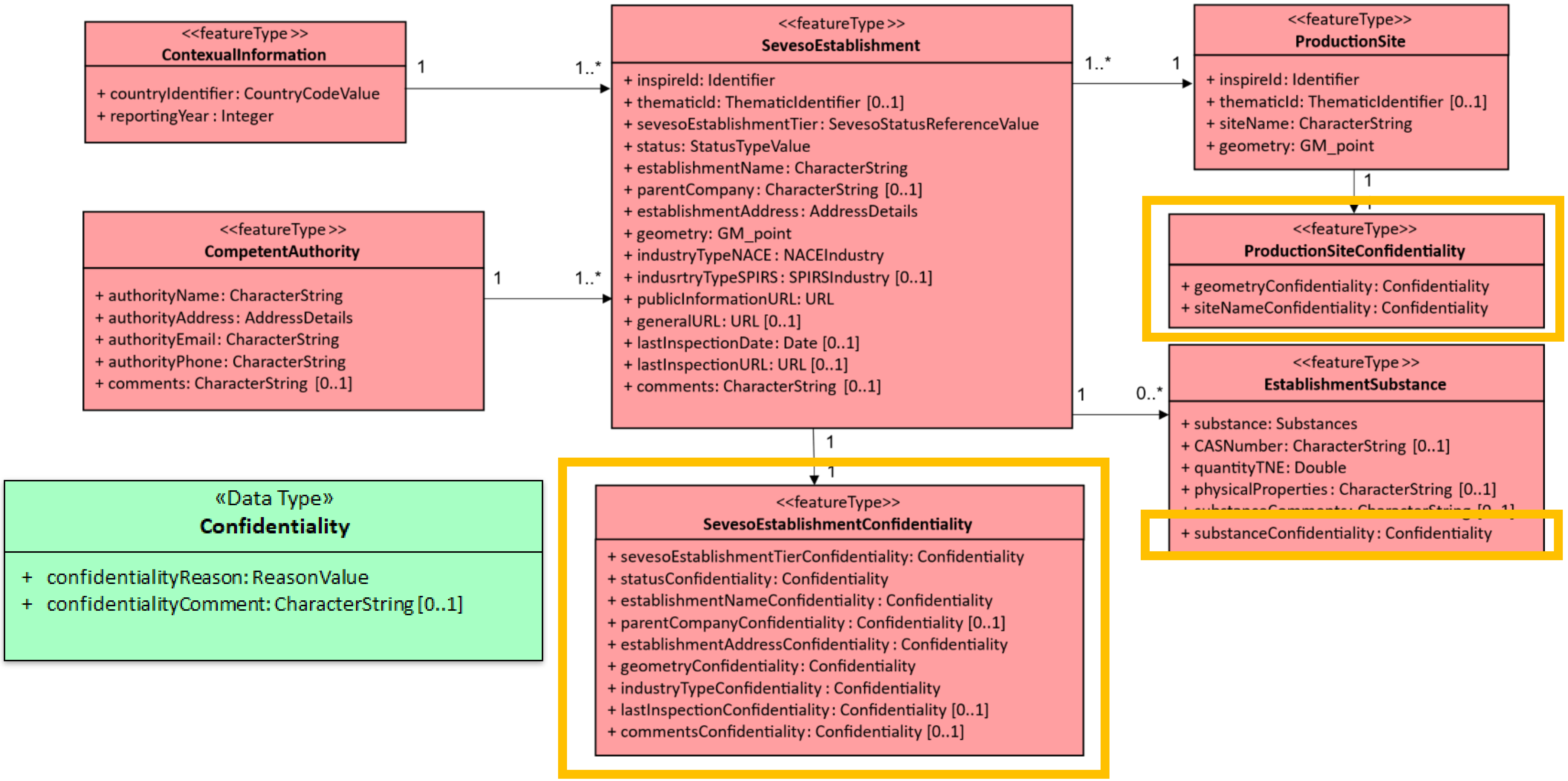

<<featureType>>
SevesoEstablishment
+ inspireId: Identifier
+ thematicId: ThematicIdentifier [0..1]
+ sevesoEstablishmentTier: SevesoStatusReferenceValue
+ status: StatusTypeValue
+ establishmentName: CharacterString

<<featureType>>
ProductionSite
+ inspireId: Identifier
+ thematicId: ThematicIdentifier [0..1]
+ siteName: CharacterString
+ geometry: GM_point

🟩	**Match**
🟨	**New element - information available/non mandatory**
🟧	**New element - additional mandatory data**
🟪	**New element - impact on implementation**
🟦	**Not included in new CID**

European Environment Agency

eSPIRS data model – Data specification Confidentiality



<<featureType>>
ContexualInformation
+ countryIdentifier: CountryCodeValue
+ reportingYear : Integer

<<featureType>>
SevesoEstablishment
+ inspireId: Identifier
+ thematicId: ThematicIdentifier [0..1]
+ sevesoEstablishmentTier: SevesoStatusReferenceValue
+ status: StatusTypeValue
+ establishmentName: CharacterString
+ parentCompany: CharacterString [0..1]
+ establishmentAddress: AddressDetails
+ geometry: GM_point
+ industryTypeNACE: NACEIndustry
+ indusrtryTypeSPIRS: SPIRSIndustry [0..1]
+ publicInformationURL: URL
+ generalURL: URL [0..1]
+ lastInspectionDate: Date [0..1]
+ lastInspectionURL: URL [0..1]
+ comments: CharacterString [0..1]

<<featureType>>
ProductionSite
+ inspireId: Identifier
+ thematicId: ThematicIdentifier [0..1]
+ siteName: CharacterString
+ geometry: GM_point

<<featureType>>
CompetentAuthority
+ authorityName: CharacterString
+ authorityAddress: AddressDetails
+ authorityEmail: CharacterString
+ authorityPhone: CharacterString
+ comments: CharacterString [0..1]

<<featureType>>
ProductionSiteConfidentiality
+ geometryConfidentiality: Confidentiality
+ siteNameConfidentiality: Confidentiality

<<featureType>>
EstablishmentSubstance
+ substance: Substances
+ CASNumber: CharacterString [0..1]
+ quantityTNE: Double
+ physicalProperties: CharacterString [0..1]
+ substanceComments: CharacterString [0..1]
+ substanceConfidentiality: Confidentiality

«Data Type»
Confidentiality
+ confidentialityReason: ReasonValue
+ confidentialityComment: CharacterString [0..1]

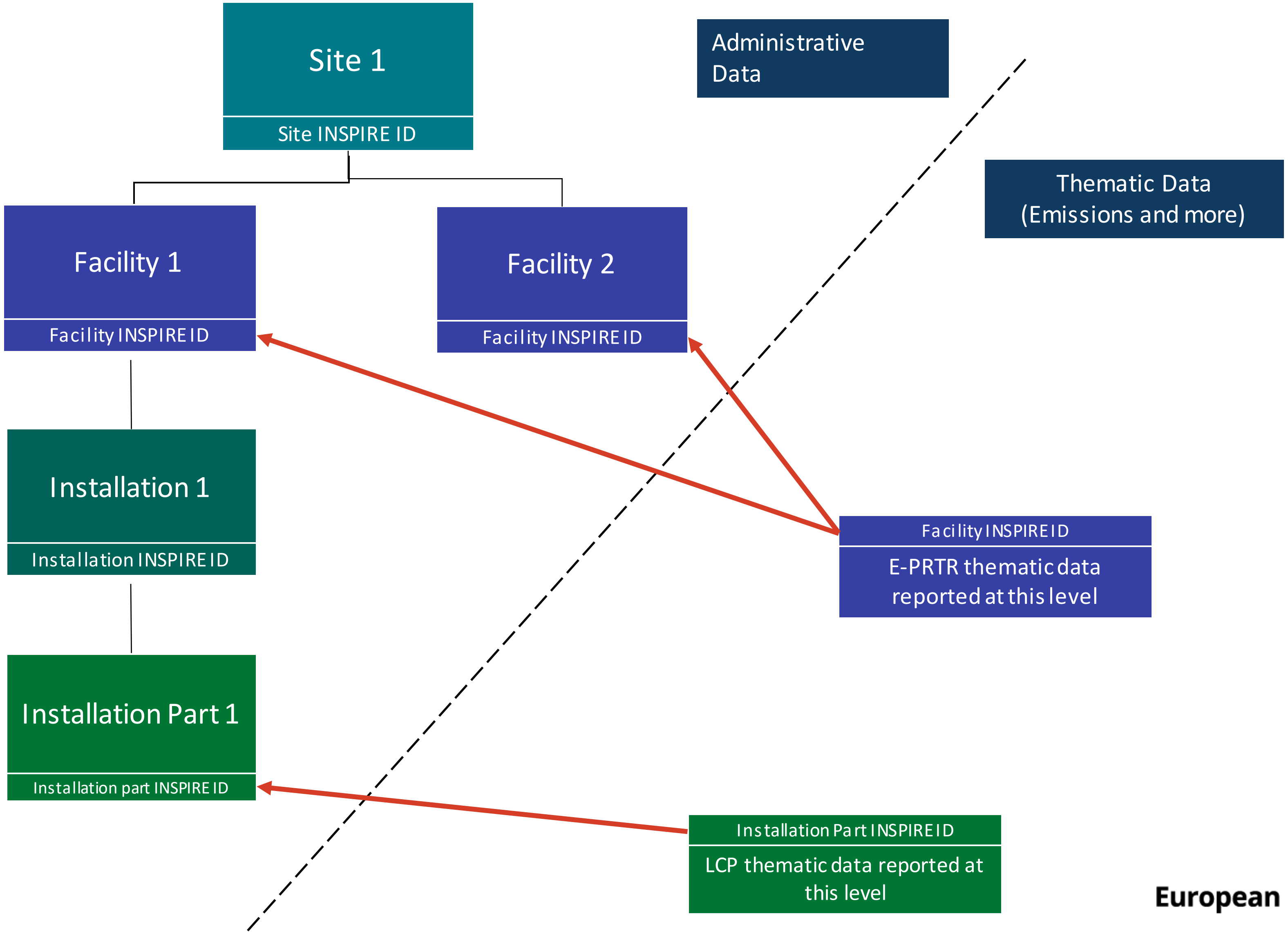
<<featureType>>
SevesoEstablishmentConfidentiality
+ sevesoEstablishmentTierConfidentiality: Confidentiality
+ statusConfidentiality: Confidentiality
+ establishmentNameConfidentiality: Confidentiality
+ parentCompanyConfidentiality: Confidentiality [0..1]
+ establishmentAddressConfidentiality: Confidentiality
+ geometryConfidentiality: Confidentiality
+ industryTypeConfidentiality: Confidentiality
+ lastInspectionConfidentiality: Confidentiality [0..1]
+ commentsConfidentiality: Confidentiality [0..1]

Questions? Comments?

Short break

- 5 minutes break
- Next topic after the break:
  - Introducing INSPIRE identifiers and links with EURegistry

EUReg Reference database + thematic reporting


Site 1
Site INSPIRE ID
Administrative Data
Thematic Data (Emissions and more)
Facility 1
Facility INSPIRE ID
Facility 2
Facility INSPIRE ID
Installation 1
Installation INSPIRE ID
Installation Part 1
Installation part INSPIRE ID
Facility INSPIRE ID
E-PRTR thematic data reported at this level
Installation Part INSPIRE ID
LCP thematic data reported at this level

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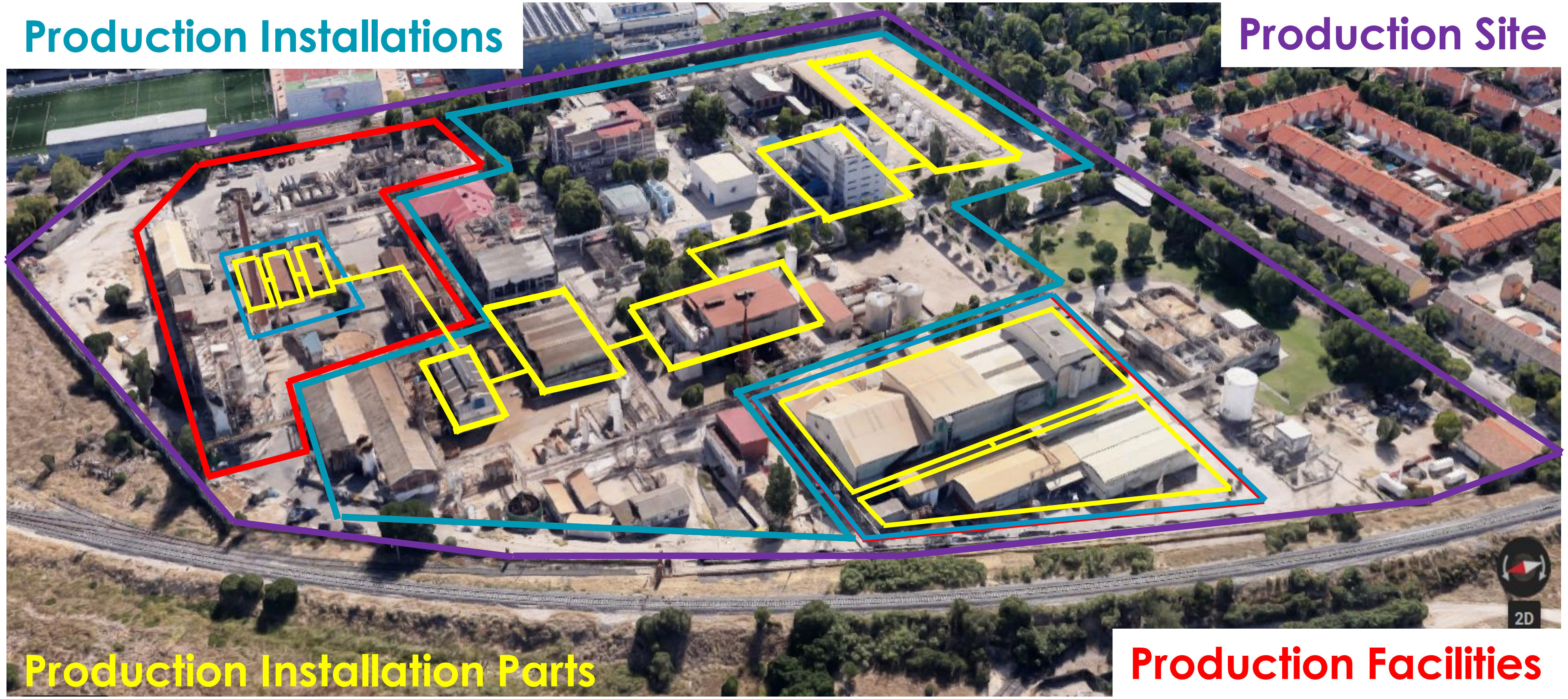
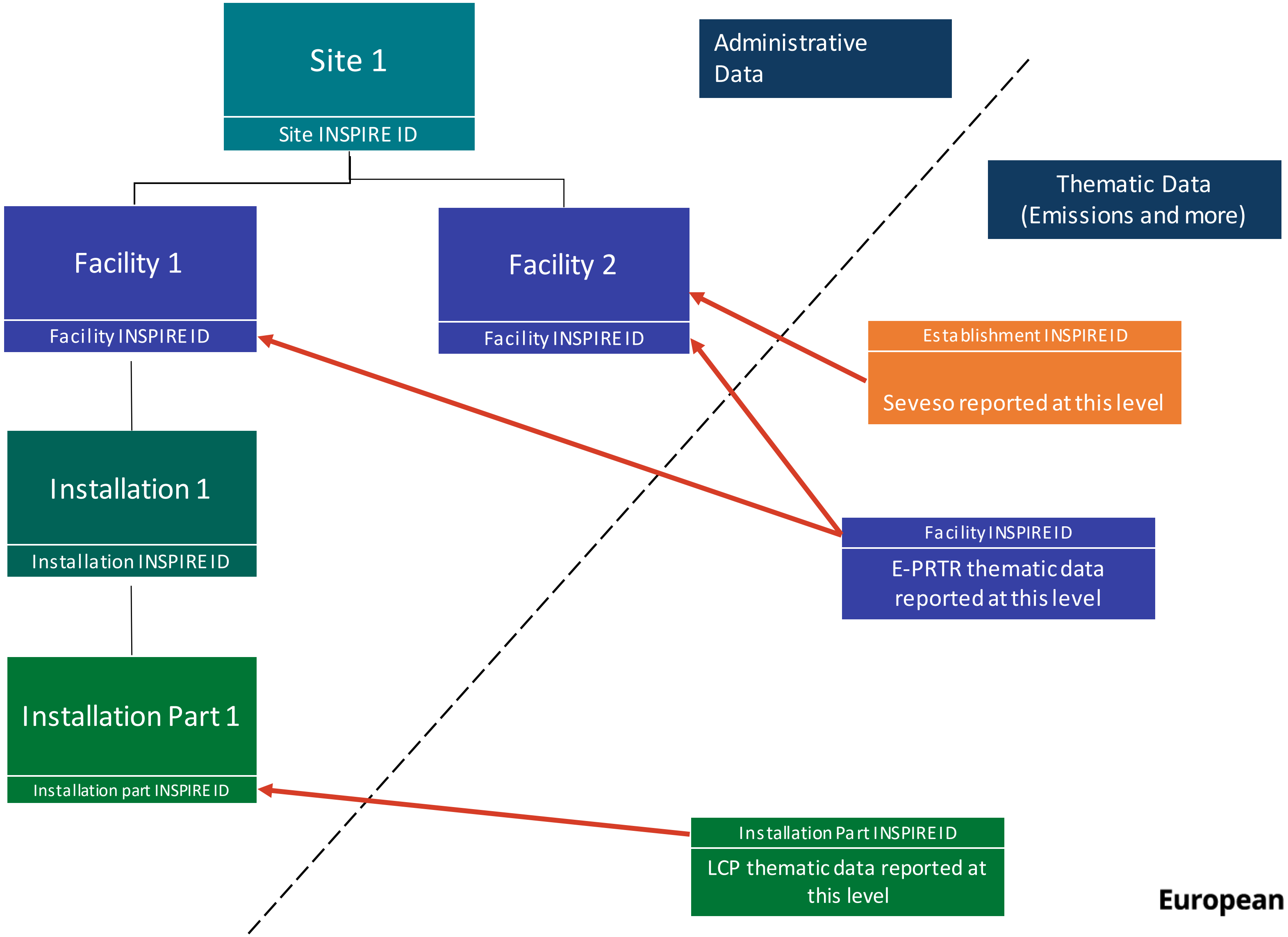
The EU Registry - Concept


Production Installations
Production Site
Production Installation Parts
Production Facilities
2D

Full definition in the EU Registry Manual For Reporters

EUReg Reference database + thematic reporting Seveso



Site 1

Site INSPIRE ID

Administrative Data

Thematic Data (Emissions and more)

Facility 1

Facility INSPIRE ID

Facility 2

Facility INSPIRE ID

Establishment INSPIRE ID

Seveso reported at this level

Installation 1

Installation INSPIRE ID

Facility INSPIRE ID

E-PRTR thematic data reported at this level

Installation Part 1

Installation part INSPIRE ID

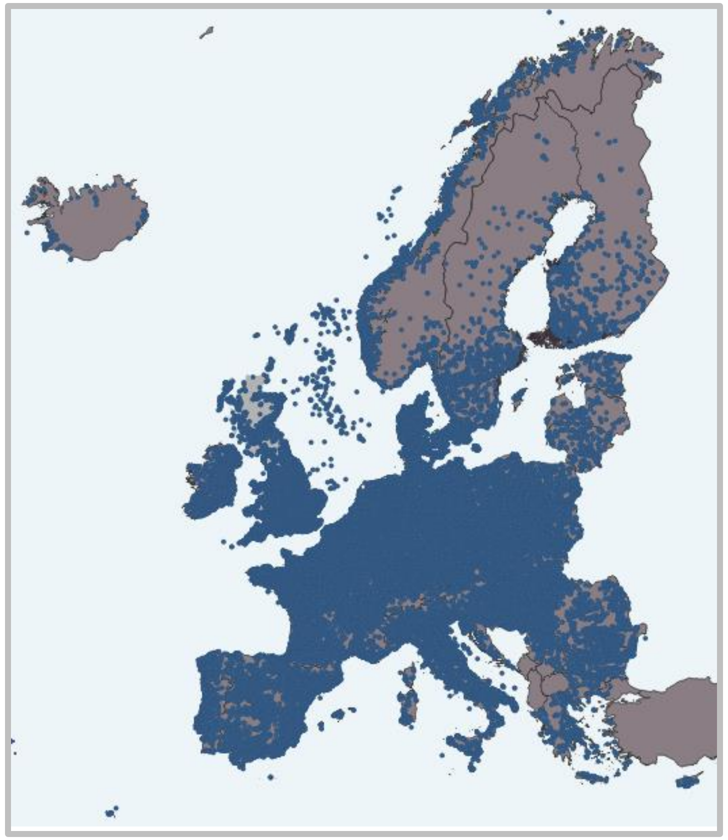
Installation Part INSPIRE ID

LCP thematic data reported at this level

European Environment Agency

EURegistry Facility and Seveso Establishments

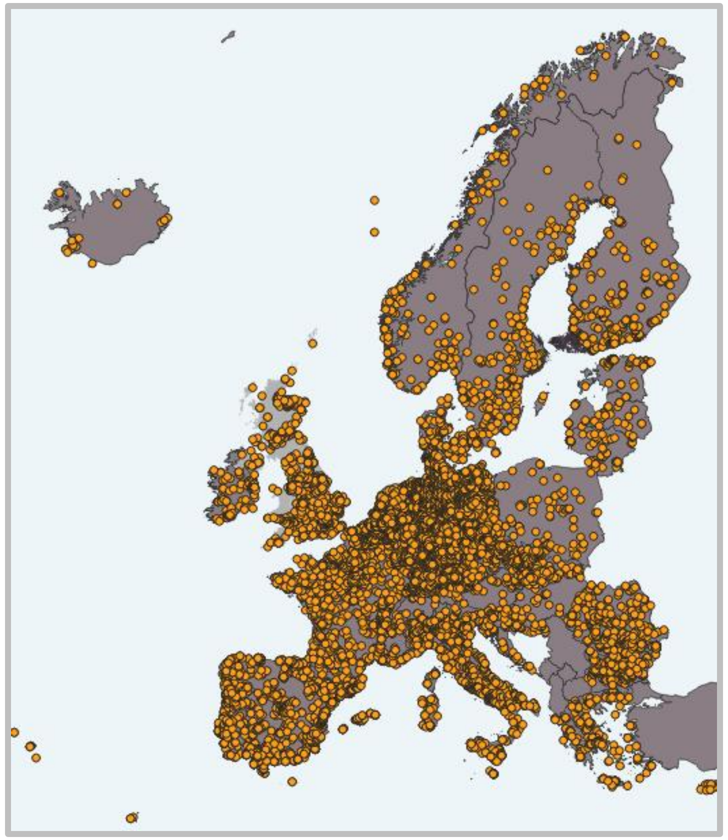
Facilities



100k records

Use coordinates to "match" Seveso establishment with existing EURegistry Production Facility

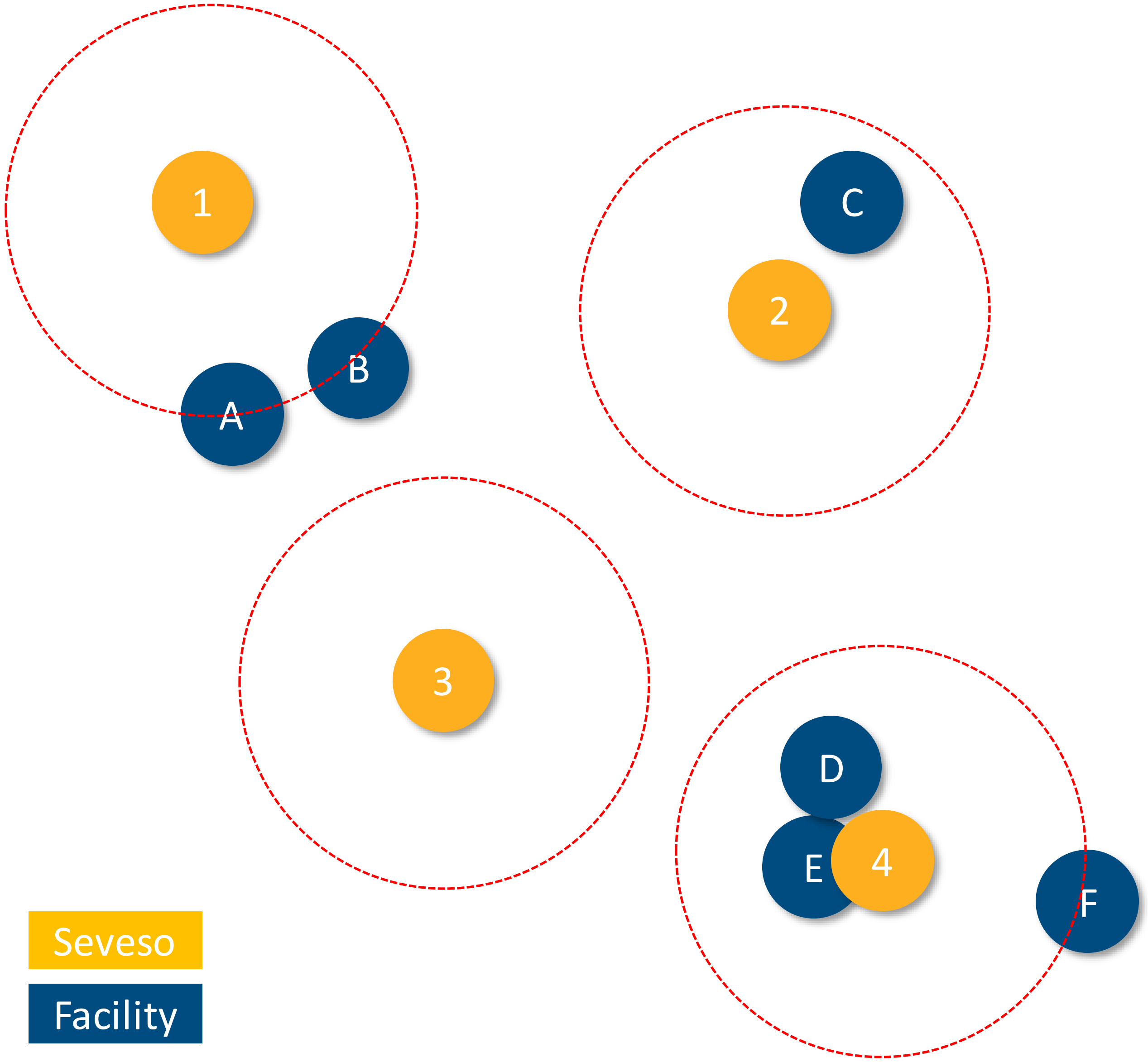
Establishments



10k records

European Environment Agency

EURegistry Facility and Seveso Establishments



Seveso Establishment	Candidate EUReg Facility	Distance [m]	Match?
1	A		Yes
1	B		No
2	C		No
3			
4	D		No
4	E		Yes
4	F		No

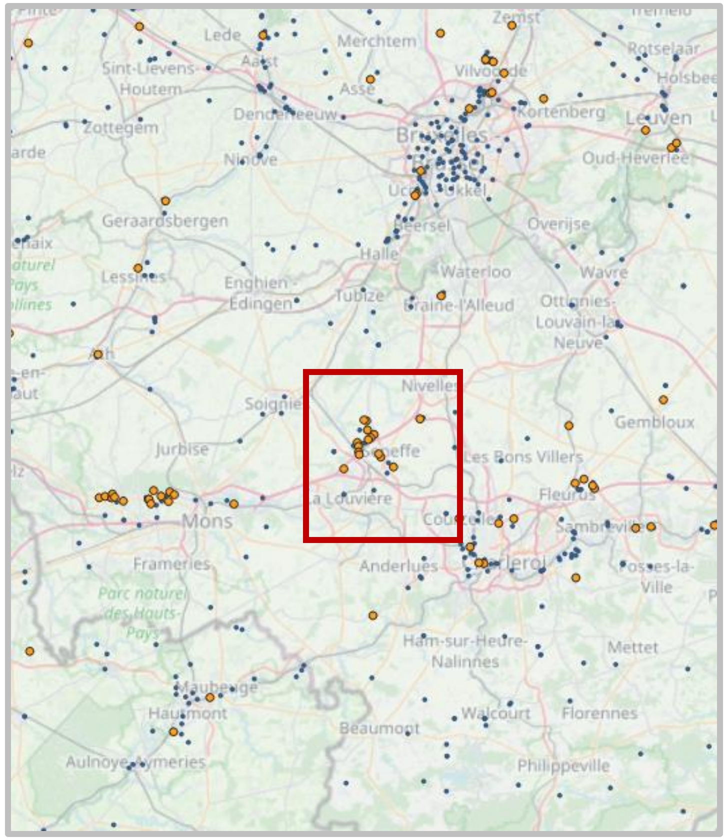
EEA will provide the list of Seveso establishment with the candidate facilities and the distance

Seveso reporter will select the matching combination

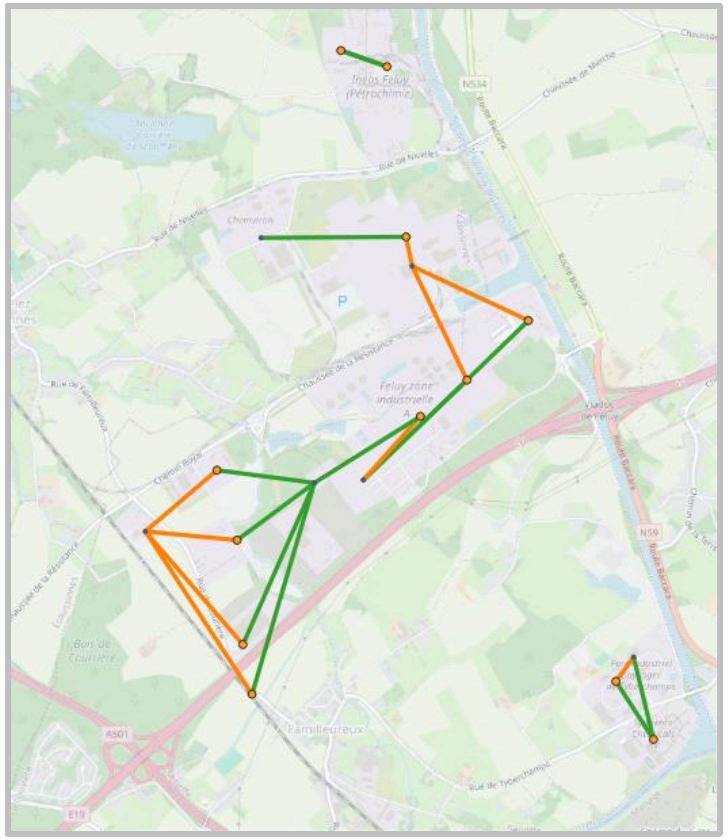
European Environment Agency

EURegistry Facility and Seveso Establishments

Links


Lede
Aalst
Merchtem
Zemst
Rotselaar
Sint-Lievens-Houtem
Asse
Vilvoorde
Holsbeek
Zottegem
Denderleeuw
Kortenberg
Leuven
Ninove
Bruxelles
Oud-Heverlee
Uccle
Ukkel
Geraardsbergen
Beersel
Overijse
Halle
Waterloo
Wavre
Lessines
Enghien - Edingen
Tubize
Braine-l'Alleud
Ottignies-Louvain-la-Neuve
Nivelles
Soignies
Gembloux
Jurbise
Seneffe
Les Bons Villers
La Louvière
Fleurus
Mons
Courcelles
Sambreville
Frameries
Anderlues
Charleroi
Fosses-la-Ville
Parc naturel des Hauts-Pays
Ham-sur-Heure-Nalinnes
Mettet
Maubeuge
Hautmont
Walcourt
Florennes
Beaumont
Aulnoye-Aymeries
Philippeville

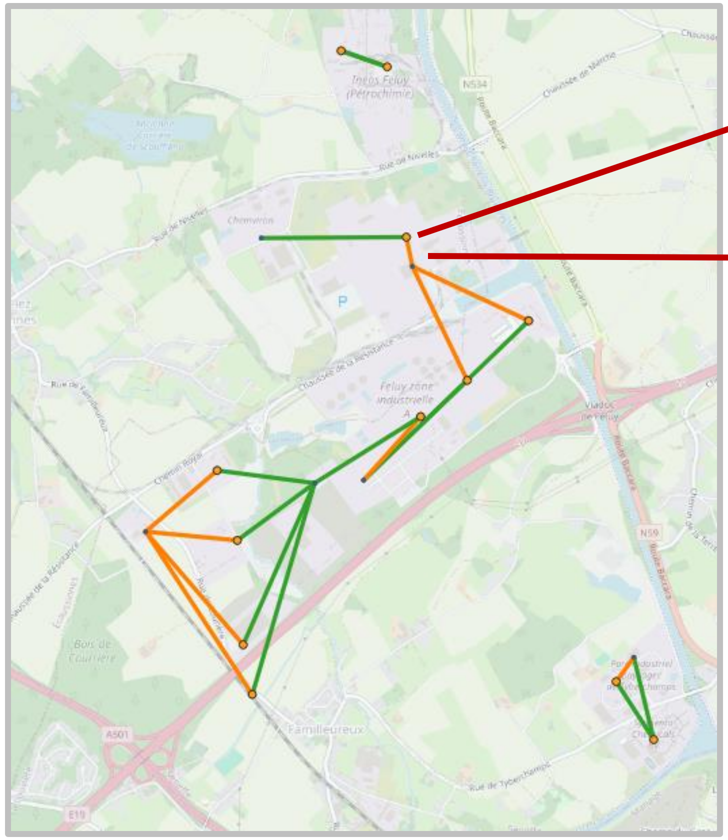
Links Detail


Ineos Feluy (Pétrochimie)
Feluy zone industrielle
Familleureux
P

European Environment Agency

EURegistry Facility and Seveso Establishments

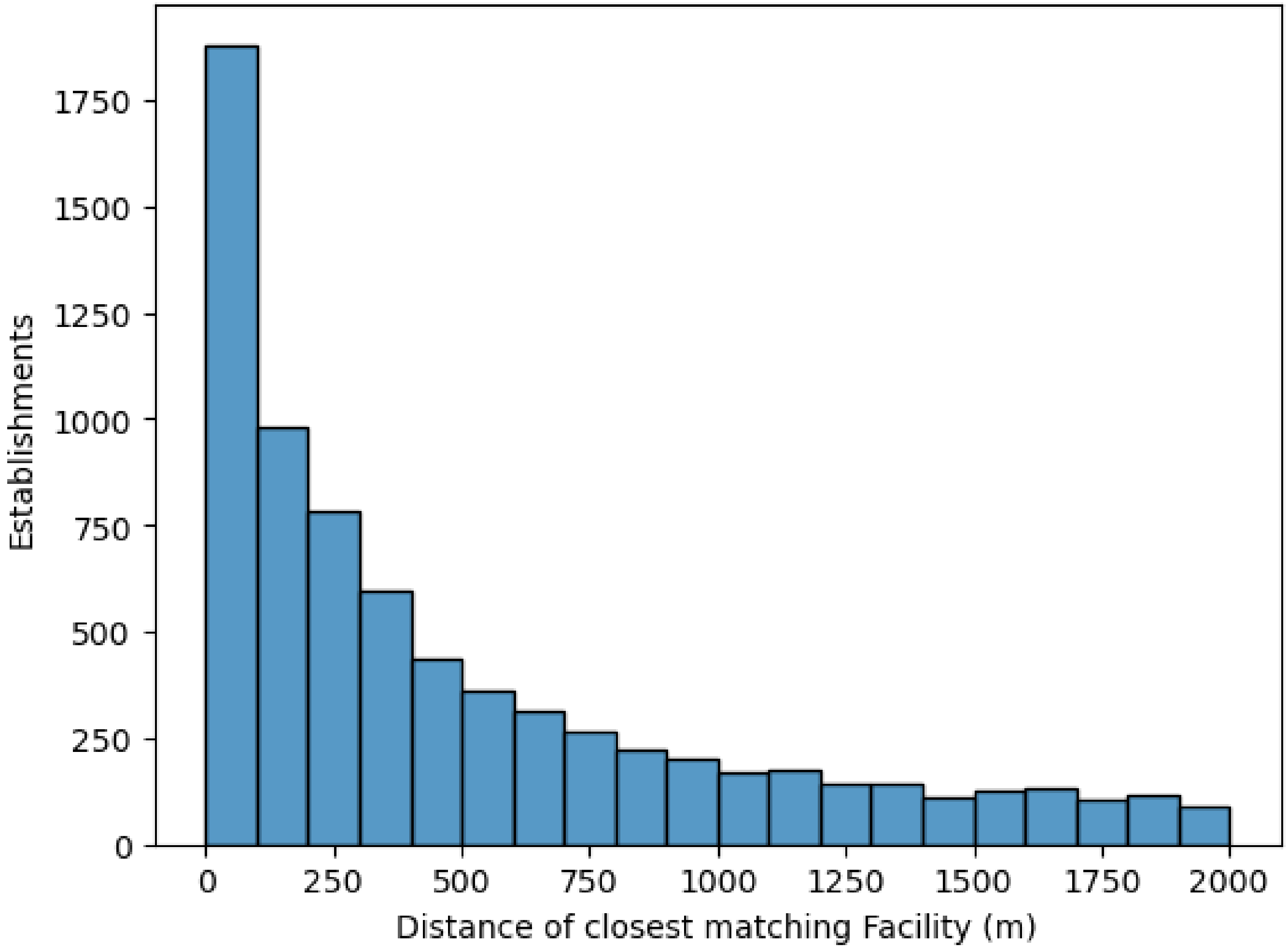
Links Detail


Total Feluy (Pétrochimie)
N534
Rue de Nivelles
Feluy zone industrielle A
Familleureux
Bois de Courrière
N59
A501
E19

TOTALENERGIES MARKETING BELGIUM

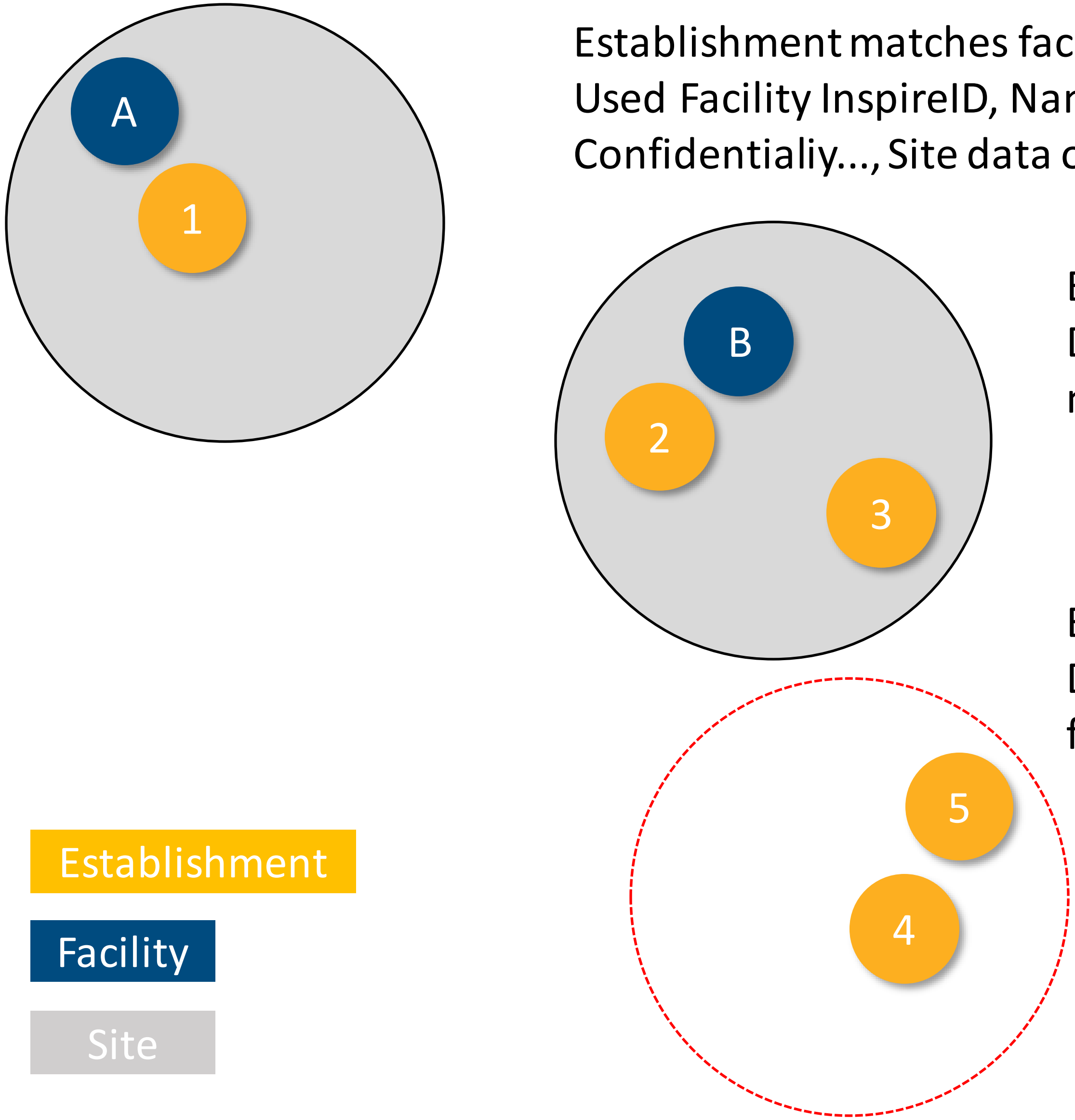
TotalEnergies Petrochemicals Feluy SA
INSPIREID: BE.WA/047010000.FACILITY

EURegistry Facility and Seveso Establishments - Feasibility



European Environment Agency

EURegistry Facility and Seveso Establishments - Scenarios



Establishment matches facility
Used Facility InspireID, Name, Status, Coordinates, Confidentialiy..., Site data obtained from the Facility Site

Establishment not matching facility but close to one that matches
Define new InspireIDs for 3, Site data obtained from nearby matching Facility B Site

Establishments not matching facilities but located close to each other
Define InspireIDs for Establishment and Site, coordinates and name for the site

eSPIRS data model – Inspire Identifier

Information on Establishment

CID 2014 /895/EU	CID 2022/1979	
	4.1 InspireId localId	🟪
	4.1 InspireId namespace	🟪
	4.2 ThematicId Identifier	🟪
	4.2 ThematicId IdentifierSchema	🟪
	4.3 Seveso establishment tier	🟩
2.2a Seveso Status	**4.4 Status**	🟩
2.2b Name of establishment	**4.5 Name of the establishment**	🟩
2.2c Name of parent company	4.6 Name of the parent company	🟩
2.2.d Personalized code		🟦
Country is by default the reporting one	**4.7 Establishment Address - Country**	🟨
2.3.a Establishment Location - City	**4.7 Establishment Address - CIty**	🟩
2.3.a Establishment Location - Street	**4.7 Establishment Address - Street**	🟩
2.3.a Establishment Location - Street number	**4.7 Establishment Address - Building n.**	🟩
Post code is collected in eSPIRS	**4.7 Establishment Address- Postal Code**	🟩
2.3.d Address comments		🟦
2.3.b Establishment Location Latitude	**4.8 Geometry Latitude**	🟩
2.3.c Establishment Location Longitude	**4.8 Geometry Longitude**	🟩

eSPIRS data model – Inspire Identifier

- External unique Identifier for INSPIRE spatial objects
- Reference valid outside the scope of Seveso – can be used to link EURegistry
- Unique within the INSPIRE domain
- Consists in a Namespace and a LocalId
- Stable

eSPIRS data model – Thematic Identifier

Information on Establishment

CID 2014 /895/EU	CID 2022/1979	
	4.1 InspireId localId	🟪
	4.1 InspireId namespace	🟪
	4.2 ThematicId Identifier	🟪
	4.2 ThematicId IdentifierSchema	🟪
	4.3 Seveso establishment tier	🟩
2.2a Seveso Status	**4.4 Status**	🟩
2.2b Name of establishment	**4.5 Name of the establishment**	🟩
2.2c Name of parent company	4.6 Name of the parent company	🟩
2.2.d Personalized code		🟦
Country is by default the reporting one	**4.7 Establishment Address - Country**	🟨
2.3.a Establishment Location - City	**4.7 Establishment Address - CIty**	🟩
2.3.a Establishment Location - Street	**4.7 Establishment Address - Street**	🟩
2.3.a Establishment Location - Street number	**4.7 Establishment Address - Building n.**	🟩
Post code is collected in eSPIRS	**4.7 Establishment Address- Postal Code**	🟩
2.3.d Address comments		🟦
2.3.b Establishment Location Latitude	**4.8 Geometry Latitude**	🟩
2.3.c Establishment Location Longitude	**4.8 Geometry Longitude**	🟩

eSPIRS data model – Thematic Identifier

- Similar to INSPIREId
- Only works within the scope of the Seveso reporting
- Unique within the Seveso reporting
- Consists in a IdentifierScheme and an Identifier
- Persistent in the Seveso reporting
- Can be used to store a national identifier such as personalized identifier

Questions? Comments?

eSPIRS data model – Next steps

- Finalise the data model document
- Include the matching table
- Upload /send the final version – to be used for next implementation steps

THANK YOU

FOR YOUR ATTENTION

✉ Seveso.Helpdesk@eea.europa.eu

European Environment Agency