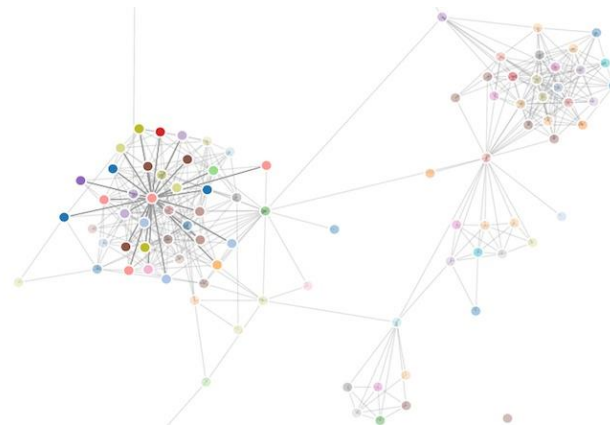# e-Procurement Ontology
Publications Office – Unit C2

4th Working Group Meeting: 2018-02-23

1. Presentations of the attendants

2. Introduction (*Manuela Cruz*)
3. Current Status of Work (*Natalie Muric*)
4. Glossary (*Laia Bota*)
5. Wiki Content Management (*Enric Staromiejski*)
6. Code lists (*Natalie Muric*)
7. Conceptual Data Model (*Maria Font*)
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9. Planning of actions and tasks

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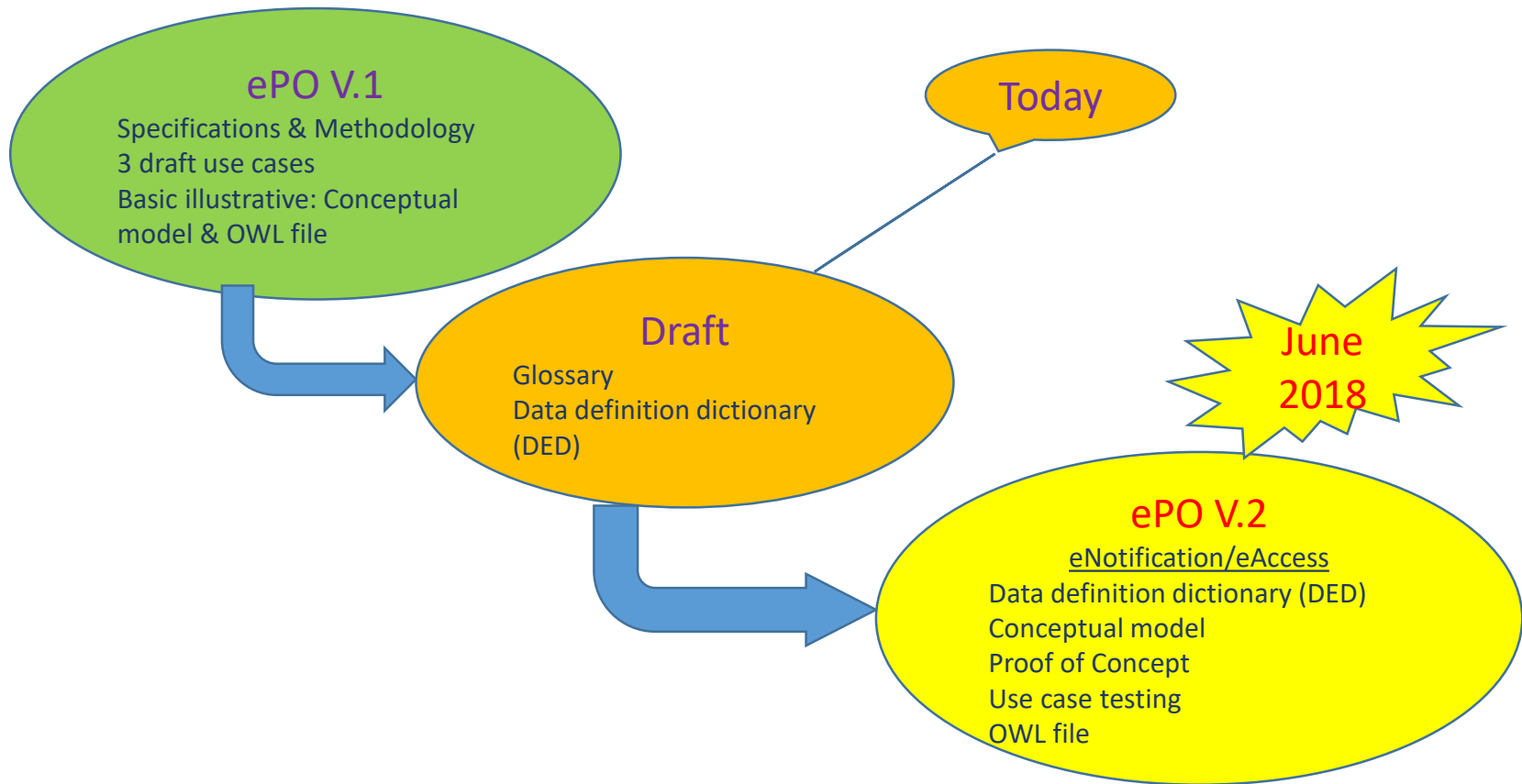9. Planning of actions and tasks

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3. Current status of work

ePO V.1
Specifications & Methodology
3 draft use cases
Basic illustrative: Conceptual model & OWL file

Today

Draft
Glossary
Data definition dictionary (DED)

June 2018

ePO V.2
eNotification/eAccess
Data definition dictionary (DED)
Conceptual model
Proof of Concept
Use case testing
OWL file

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4. Glossary

Background

List of Business Terms

OP

e-Forms review
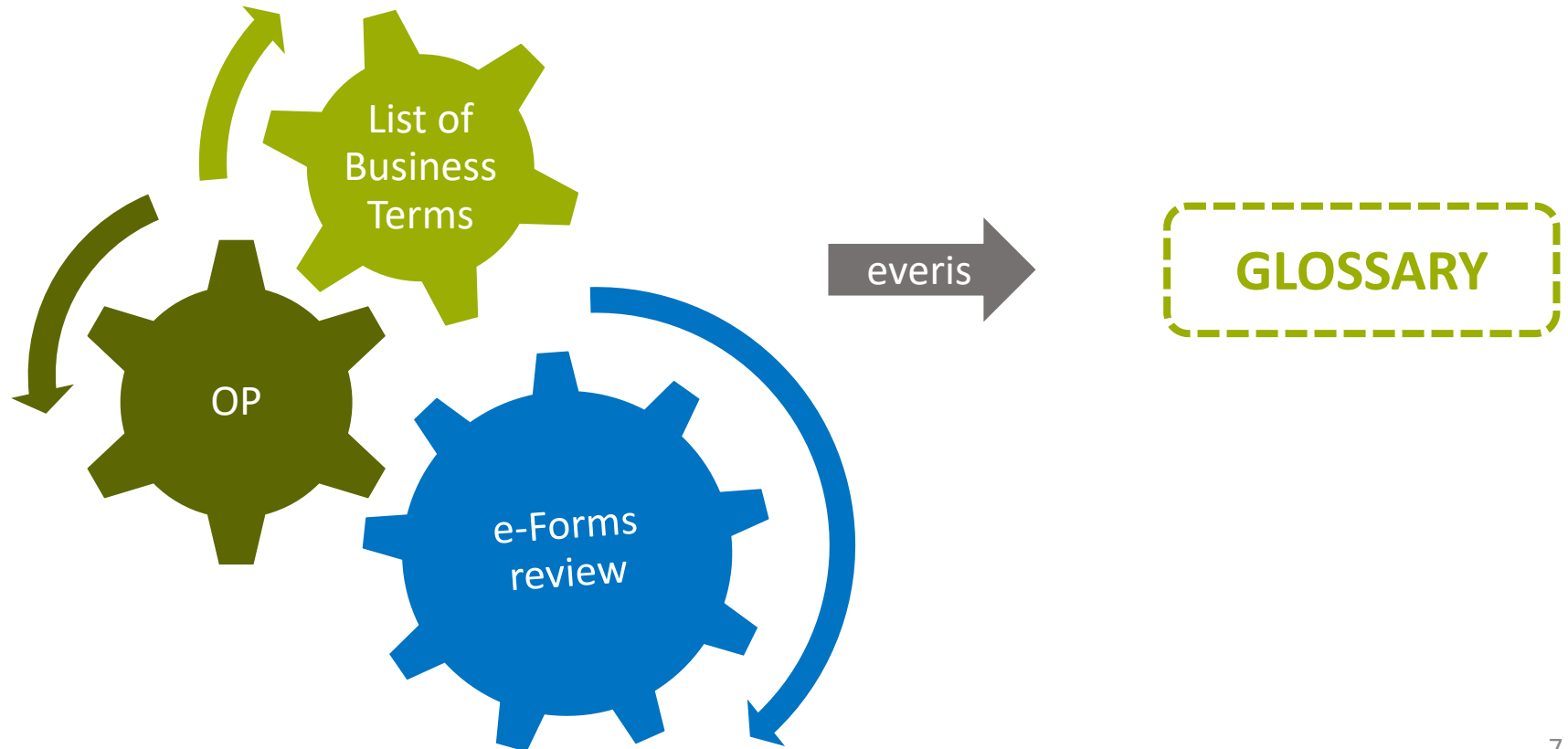
everis

GLOSSARY

4. Glossary

Content (1/2)

Definitions tab	• List of the Business Terms and their corresponding definitions; • Comments from everis and from OP
Details tab	• Other extra definitions obtained from additional sources of information to get a broader overview of the Business Terms; • The Use Case related to each Business Term; • The e-Procurement phases related to each Business Term

4. Glossary

Content (2/2)

Definitions tab:

	ID	Context	Business Term	Definition	Comments	Status	OP comments
1							
	BT-194	Notice/Result/	Exclusion Tenders Abnormally Low	There are one or several bids with unexpected cheap prices.	Ontology proposal. See ID C-112 in Details tab for further information. New Business Term proposed (it replaces "Exclusion Ternders Anormally Low Indicator": an indicator to specify whether the tenders are abnormally low or not).	Reviewed and Pending Approval	
1195							

Details tab:

|	Concept identification		Concept definition				
1							
2	ID	Concept	Definition		Source	Additional source information	Related BT in Definitions tab
3	C-112	Abnormally low tenders	There are one or several bids with unexpected cheap prices.		Ontology proposal	An indicator to specify whether the tenders are abnormally low or not	BT-194
4	C-112	Abnormally low tenders	Tenders that appear abnormally low in relation to the works, supplies or services might be based on technically, economically or legally unsound assumptions or practices. Where the tenderer cannot provide a sufficient explanation, the contracting authority should be entitled to reject the tender.		DIRECTIVE 2014/24/EU	Whereas (103)	BT-194
5	C-112	Abnormally low tenders	Contracting authorities shall require economic operators to explain the price or costs proposed in the tender where tenders appear to be abnormally low in relation to the works, supplies or services		DIRECTIVE 2014/24/EU	Article 69	BT-194
6	C-112	Abnormally low tenders	Text describing the exclusion criterion for abnormally low tenders.		UBL		BT-194
7	C-112	Abnormally low tenders	Text describing the exclusion criterion for abnormally low tenders.		ESPD		BT-194

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5. Wiki Content Management

Link to the [Wiki](#)

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6. Code lists
Conceptual data model

6. Code lists

MDR — Metadata Registry
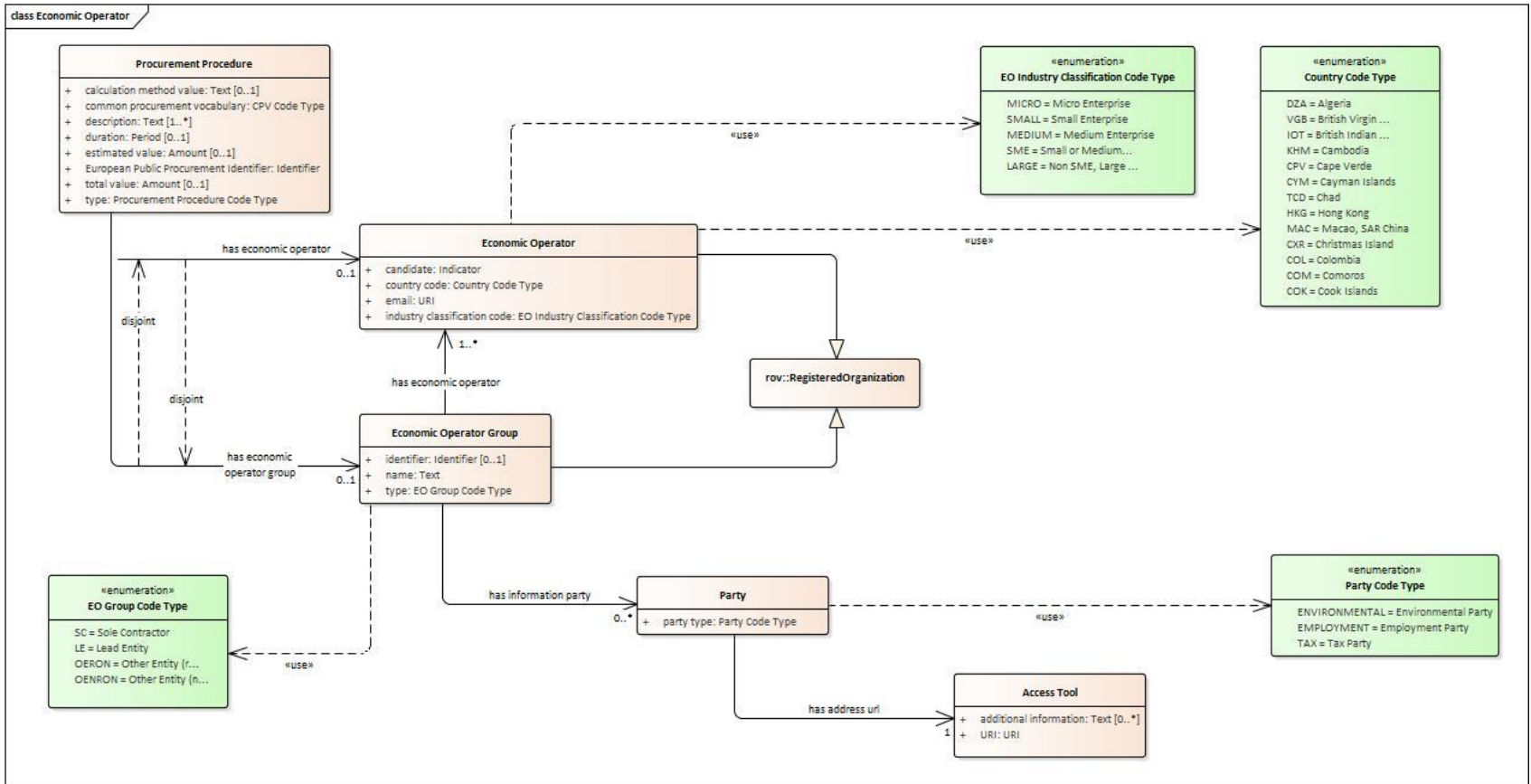
> *Authorities*

In order to harmonise and standardise the codes and the associated labels used in the Publications Office and on inter-institutional level in the context of the data exchange between the institutions involved in the legal decision-making process, a number of Named Authority Lists (NALs) have been defined. These NALs are also known as (Common) Authority Tables (CATs), controlled vocabularies or value lists.

The following NALs are maintained in the Metadata Registry:

List of available tables

If you click on the links, the last published version of the table will be displayed in different formats.

The released NAL versions are available as well as datasets on the European Union Open Data Portal (ODP).

- Access right
- Address type
- Administrative territorial unit
- Administrative territorial unit type
- Capital classification
- Case report
- Case status
- Concept status
- Continent
- Corporate body
- Corporate body classification
- Correction status
- Country
- Court type
- Currency
- Data theme
- Dataset status
- Dataset type
- Directory of EU legal acts

- Distribution type
- Documentation type
- EU budget amount status
- EU budget stage
- EU budget status
- EU programme
- Event
- File type
- Formation of the Court
- Frequency
- Grammatical alternation
- Grammatical consciousness
- Grammatical gender
- Grammatical number
- Honorific
- Human sex
- Interinstitutional procedure
- Label type
- Language

- Legal proceeding
- Legal proceeding result
- Legal proceeding type
- Licence
- Licence domain
- Membership classification
- Modification type
- Multilingual
- Notation type
- Number
- Number type
- Organization type
- Place
- Position grade
- Position status
- Position type
- Procedure nature
- Product form
- Publication theme

- Resource type
- Role
- Role nature
- Role qualifier
- Script
- Site
- Subdivision
- Subdivision position
- Subject matter
- Summaries of EU legislation classification
- Target audience
- Time period
- Treaty
- Treaty classification
- Use context
- Writing system

- Authority Type
- Legal Basis
- Procurement Procedure

- Award Criteria
- Main Activity

- Bid Type
- Market Regulation

- Contract Nature
- Notice Type

6. Code lists
Public procurement formats

MDR — Metadata Registry

MDR > Authorities > *Currency* NAL

The Currencies Named Authority List (NAL) or Common Authority Table (CAT) is a controlled vocabulary listing currencies with their authority code and labels in the 24 official languages of the EU (when available). The list is based on the ISO standard ISO 4217. This NAL is maintained by the Publications Office of the EU in its Metadata Registry (MDR).

The following distributions are available:

- XML *(source format)*
- SKOS *(standard SKOS RDF/XML distribution; does not contain all elements included in XML)*
- SKOS-AP-EU *(enriched RDF/XML distribution conform to SKOS-AP-EU profile covering all XML elements)* Beta version
- HTML *(does not contain all elements included in XML)*
- eProcurement simpleType declaration:
  - t_currency_tedschema.xsd (documentation)
  - t_currency_devcoschema.xsd (documentation)

These links lead to the latest version of the NAL in question. For previous versions, please consult the complete MDR publications.

Documentation

MDR > Authorities > *Authority type* NAL

This table provides a list of types of buyer within the domain of public procurement.

The following distributions are available:

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Documentation

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7. Conceptual Data Model

DED.
- Excel file;
- The result of a mapping between the Glossary and the Ontology;
- The classes and the attributes will be identified together with the data types and their cardinality.

Conceptual Model.
- Enterprise Architect (EA) file;
- This tool will allow us to obtain a first version of this model: a graphic with all the classes, attributes and relations.

7. Conceptual Data Model

Glossary is static.


	B	C	D	E
	ID	Concept	Concept Definition	Source
	C-112	Abnormally low tenders	There are one or several bids with unexpected cheap prices.	Ontology proposal

EU e-Procurement Glossary

Data Entry Dictionary (DED)

Conceptual Model

Glossary definition or Updated WG definition

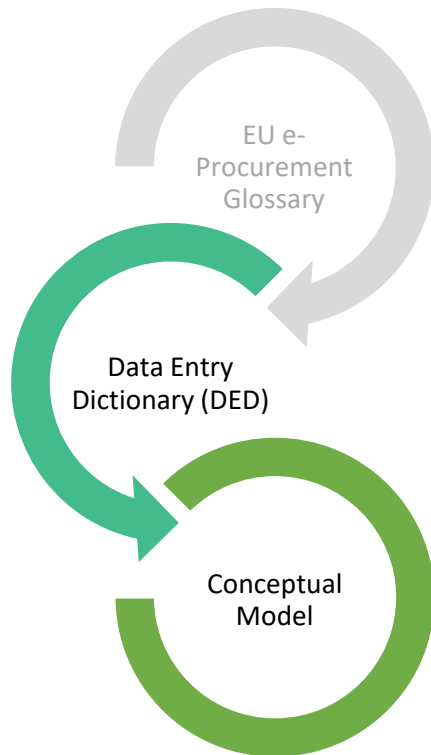| ePO Business Term	Concept Definition (these definitions come from the Glossary)	Examples	Co
Abnormally Low Tender	A tender that is judged by the contracting authority as abnormally low in relation to the works, s		

DED is dynamic.
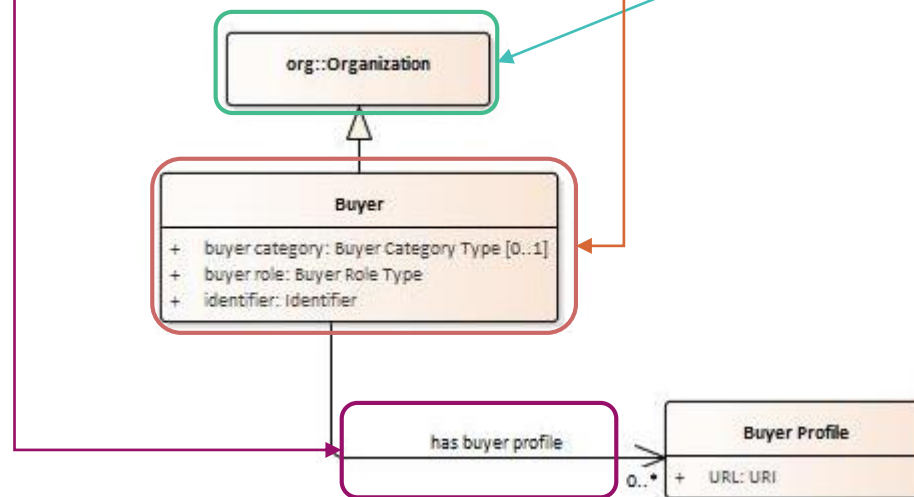Any concept definition improvement coming from the Working Group is updated in this file.
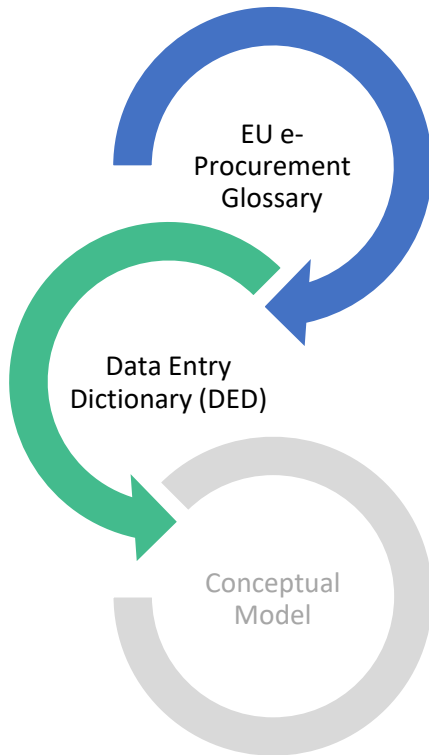
7. Conceptual Data Model

- "**Pink** rows": represent a **class**. The rows between one pink row and another show the content of the class;
- "**White** rows": represent an **attribute** (simple data type) of a class;
- "**Green** rows": represent a **relationship** between other classes of the Ontology.

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8. Technical Documentation

Link to the Technical Documentation

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(*Natalie Muric*)

Kick-off Meeting (23rd January)

Working Group Meeting (23rd February)
Subject: Presentation of the new mission, considerations on the scope and methodology.

9th March:
1. *Glossary acceptance by the Working Group.*
2. *Sample Competency Questions available for the WG.*

23rd March:
1. *Conceptual data model available for revision by WG.*
2. *WG to provide competency questions*

Working Group Meeting (28th March)
Subject: PoC validation of the approach, the use case and the expected results.

19th April: *PoC and new version of the conceptual data model available for revision by WG.*

Working Group Meeting (27th April)
Subject: Revision of the ontology, conceptual model and design considerations.

26th April: PoC Report available for revision by WG.

Working Group Meeting (1st June)
Subject: Revision of the ontology, OWL implementation and results of the PoC.

18th June: Complete release v2.0.0 available for revision by WG.

Release version 2.0.0 (25th June)