

# Core Vocabularies

Online webinar #5  
2nd of December 2021

# Objectives of this webinar

- ❑ Discuss last issues & concerns related to these vocabularies; and
- ❑ Reach a consensus before their final publication.

CORE  
PERSON  
VOCABULARY

CORE  
LOCATION  
VOCABULARY

CORE  
BUSINESS  
VOCABULARY

CORE  
PUBLIC  
ORGANISATION  
VOCABULARY

# Agenda

1. Welcome
2. Overview of combined version of the Core Vocabularies
3. Break
4. Core Person & Core Location Vocabularies
5. Core Business & Core Public Organisation Vocabularies
6. Wrap up

# Webinar practicalities



Click on « connect audio » but please mute your microphones



You can also share your questions for the Q&A session via the chat\*



The webinar will be recorded

\*One question after each speaker + Q&A discussion

## 2. Overview of combined version of all Core Vocabularies

**Speaker: Pavlina FRAGKOU**

## Context of the Core Vocabularies

- The initial version (v1.0) of the Core Vocabularies was published in 2013. The Core Public Organisation Vocabulary was added to this list in 2016, together with the Core Public Service Vocabulary.
- Therefore, the revision process in view of a major release (v2.0) of the Core Vocabularies has been initiated by a public review in order to list the points of improvement and changes to be made.
- The objective of this webinar is to introduce the proposed new version (v2.0) of the Core Vocabularies based on your contribution, in order to discuss it and acknowledge it officially.

# SEMIC solutions



DCAT-AP  
FOR  
DATA PORTALS  
IN EUROPE

GeoDCAT-AP  
FOR  
GEOSPATIAL  
DATASETS

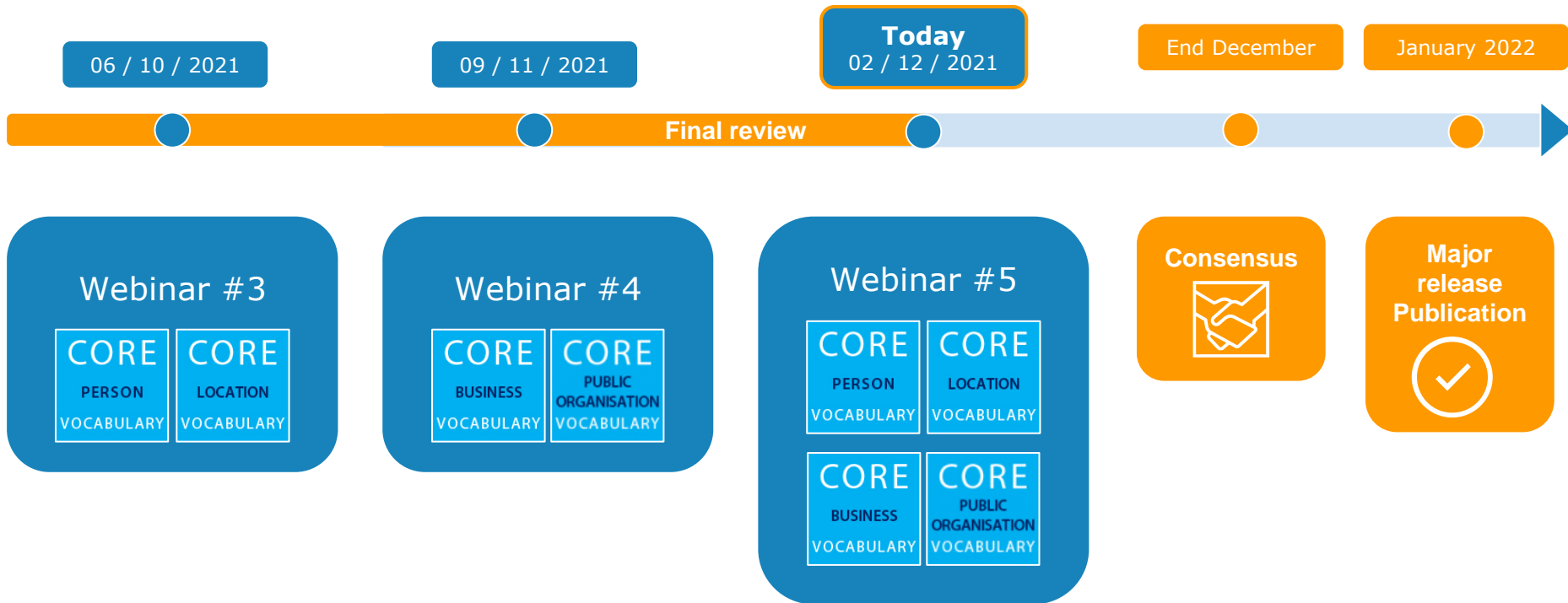
StatDCAT-AP  
FOR  
STATISTICAL  
DATASETS

ADMS  
ASSET  
DESCRIPTION  
METADATA  
SCHEMA

## Specifications

- **Core Person**
- **Core Location**
- **Core Business**
- **Core Public Organisation**
- Core Criterion and Core Evidence
- Core Public Service Vocabulary (Application Profile)
- DCAT-AP
- GeoDCAT-AP (DCAT-AP extension)
- StatDCAT-AP (DCAT-AP extension)
- ADMS

# Revision process of the Core Vocabularies





# Objective of the Core Vocabularies

*The e-Government Core Vocabularies are*

- **simplified,**
- **re-usable,** and
- **extensible**

*data models that capture the **fundamental** characteristics of a data entity in a context-neutral and syntax-neutral fashion.*

# Objective of the Core Vocabularies

The e-Government Core Vocabularies are

- **simplified,**
- **re-usable,** and
- **extensible**

data models that capture the **fundamental** characteristics of a data entity in a context-neutral and syntax-neutral fashion.

→ Keeping things simple require to find a balance between the use cases supported and their level of complexity.

→ We focus in the Core Vocabularies on the **reusability**. However, logging and describing use cases is very important for future work (whether it is part of extensions or in the Core Vocabularies directly).

We invite you to **log your use cases on [GitHub](#)** based on the proposed template (next slide).

Thanks for taking the time to create this use case

### Use case name \*

Please insert the name of the use case

### Please insert the status of the use case

Selections: ▾

### Use case creator \*

Please insert your first and last name

### Stakeholders \*

Mandatory list of stakeholders experiencing the problem. When describing the stakeholder, please be as specific as possible (e.g., citizens, service provider, base register, data consumer, data producer, data publisher, program, etc.) and avoid using the term user.

List of stakeholders

### Problem statement \*

Mandatory statement of the current situation, including a description of the problem, the stakeholders experiencing the problem, and what the stakeholder(s) are expected to supply (i.e. what contextual knowledge are they expected to have available) and/or receive to resolve the problem they are experiencing.

Problem statement

# Use case template

# Principles for creating good definitions

The “*Principles for creating good definitions*” are available in [GitHub](#).

Such principles (e.g. use singular, no circular dependencies, etc.) will be used in consistent manner thorough the Core Vocabularies.

Feel free to share your feedback on these principles by answering directly to the open issues on the respective Core Vocabularies or by [opening a new issue](#).

# Core Vocabularies in a nutshell

The Core Vocabularies are a set of semantic assets that aim at capturing the fundamental characteristics of data entities to ensure a minimum level of harmonisation across domains.

CORE  
PERSON  
VOCABULARY

A person's name(s), date and place of birth/death, identifier, addresses, citizenship, etc.

CORE  
BUSINESS  
VOCABULARY

The legal name, address, identifier, company type, and activities of a legal entity.

CORE  
LOCATION  
VOCABULARY

The different ways of describing a location, e.g. via an address, a geographic name, or a geometry, in alignment with INSPIRE.

CORE  
PUBLIC  
ORGANISATION  
VOCABULARY

The administrative information, hierarchy, identifiers, events and classification of a public organisation.

**describe**

## Core Vocabularies – simple example

Isabel has just been hired by IT Consulting corp. IT Consulting corp would like to verify her age and gender in order to obtain subsidies defined in a law. The subsidies are a public service provided by the Ministry of Interior.

The law wants to encourage IT businesses in the country to attract young graduated women in the IT domain and therefore requires the person hired to be under 24 years old and a female.

Amongst other documents, Isabel provides to IT Consulting corp. her birth certificate to prove her age and gender.

IT Consulting corp. requires an extract of the national address base registry, showing its address in order to prove that the company is under the right jurisdiction and sends all pieces of evidence to the authority.

## Core Vocabularies – simple example

Isabel (**Person**) has just been hired by IT Consulting corp (**Legal Entity**). IT Consulting corp would like to verify her age and gender in order to obtain subsidies (**Public Service**) defined in a law (**Reference Framework/Legal Resource**). The subsidies are a public service provided by the Ministry of Interior (**Public Organisation**).

The law wants to encourage IT businesses in the country (**Requirement**) to attract young graduated women in the IT domain and therefore requires the person hired to be under 24 years old (**Requirement**) and a female (**Requirement**).

Amongst other documents, Isabel provides to IT Consulting corp. her birth certificate (**Evidence**) to prove her age and gender.

IT Consulting corp. requires an extract of the national address base registry (**Evidence**), showing its address (**Address**) in order to prove that the company is under the right jurisdiction and sends all pieces of evidence to the authority.

(**BOLD**) Labels of concepts from the Core Vocabularies

Isabel (**Person**) has just been hired by IT Consulting corp. (**Legal Entity**).

### Core Person::Person

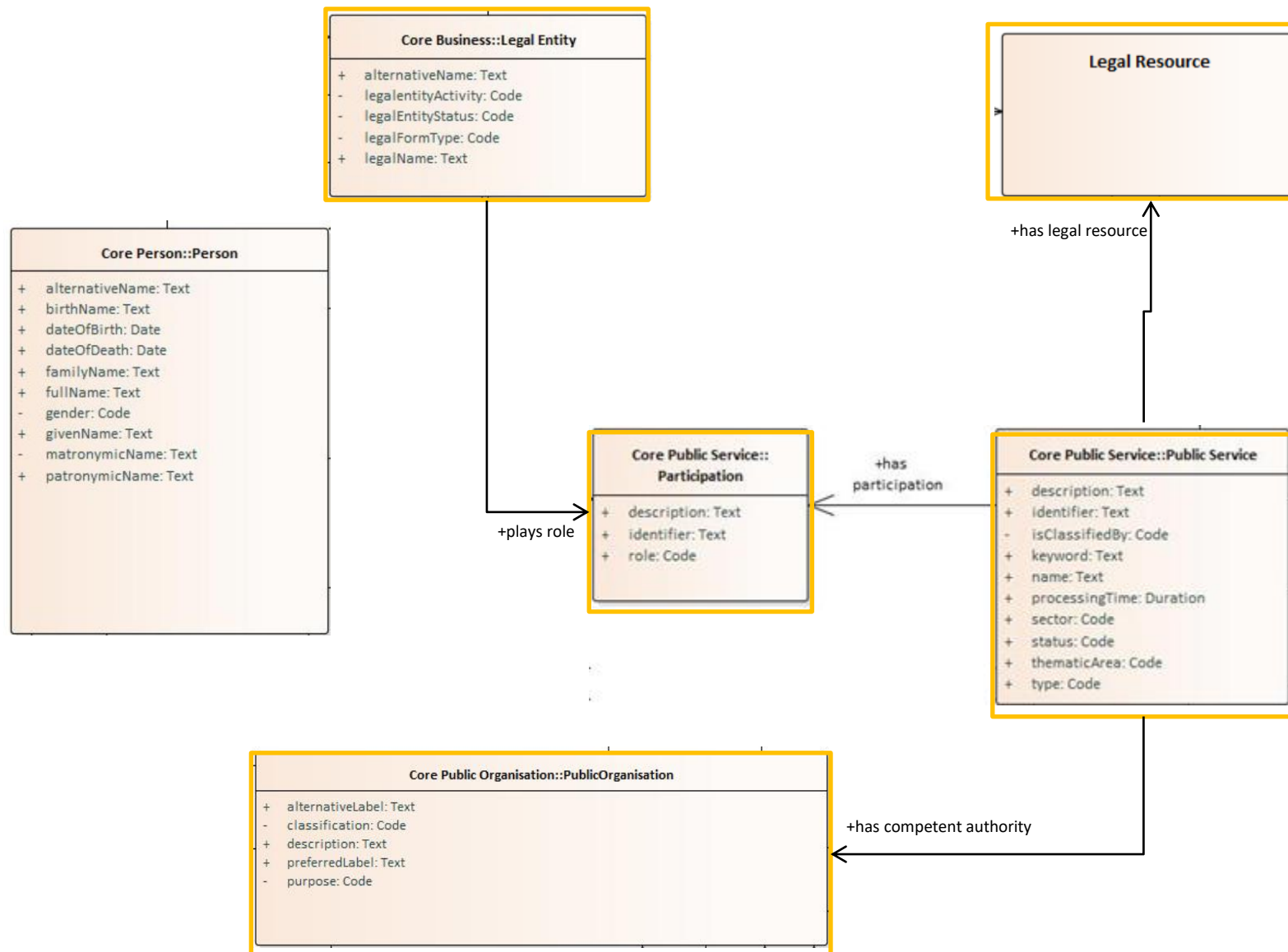
- + alternativeName: Text
- + birthName: Text
- + dateOfBirth: Date
- + dateOfDeath: Date
- + familyName: Text
- + fullName: Text
- gender: Code
- + givenName: Text
- matronymicName: Text
- + patronymicName: Text

### Core Business::Legal Entity

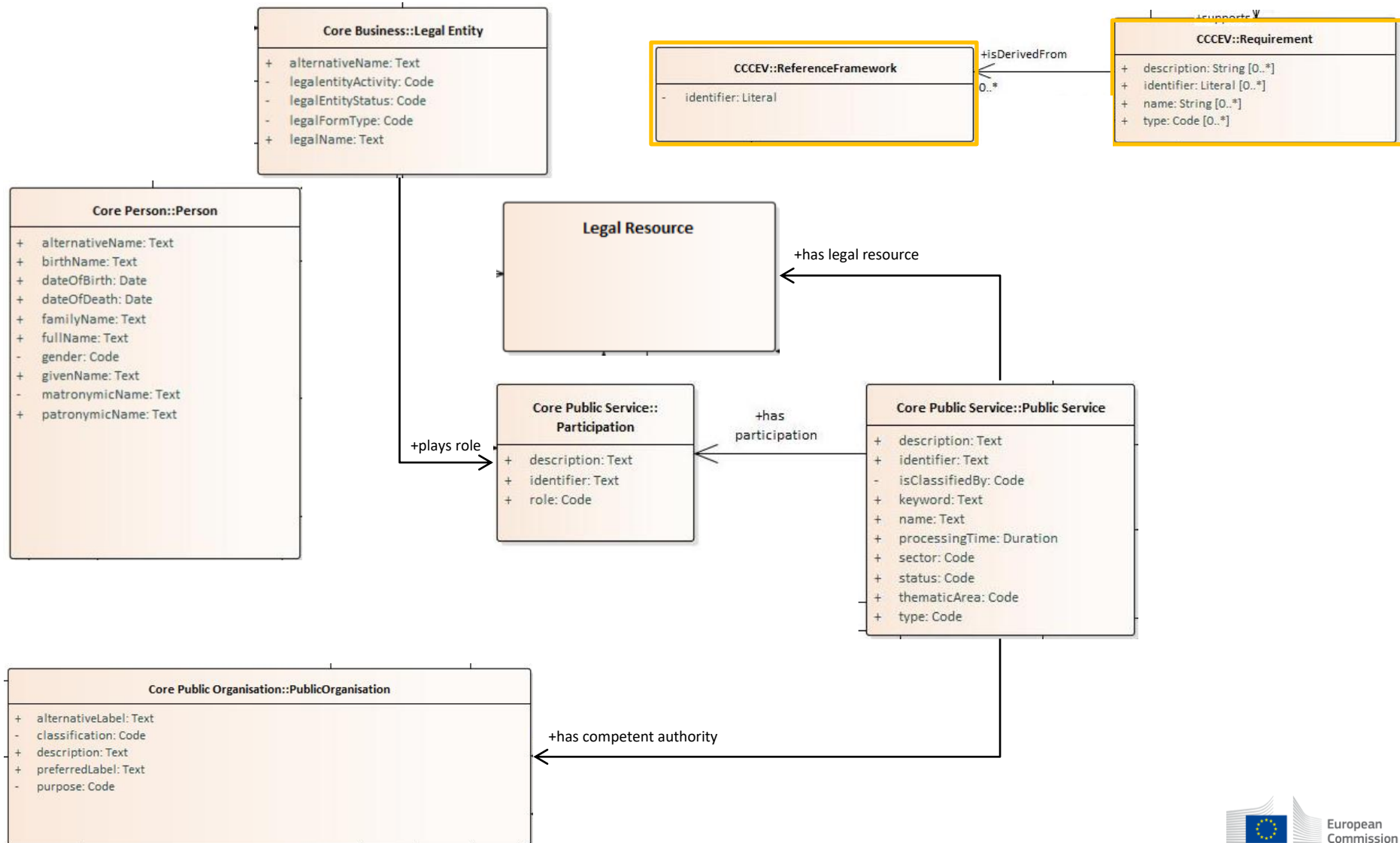
- + alternativeName: Text
- legalEntityActivity: Code
- legalEntityStatus: Code
- legalFormType: Code
- + legalName: Text



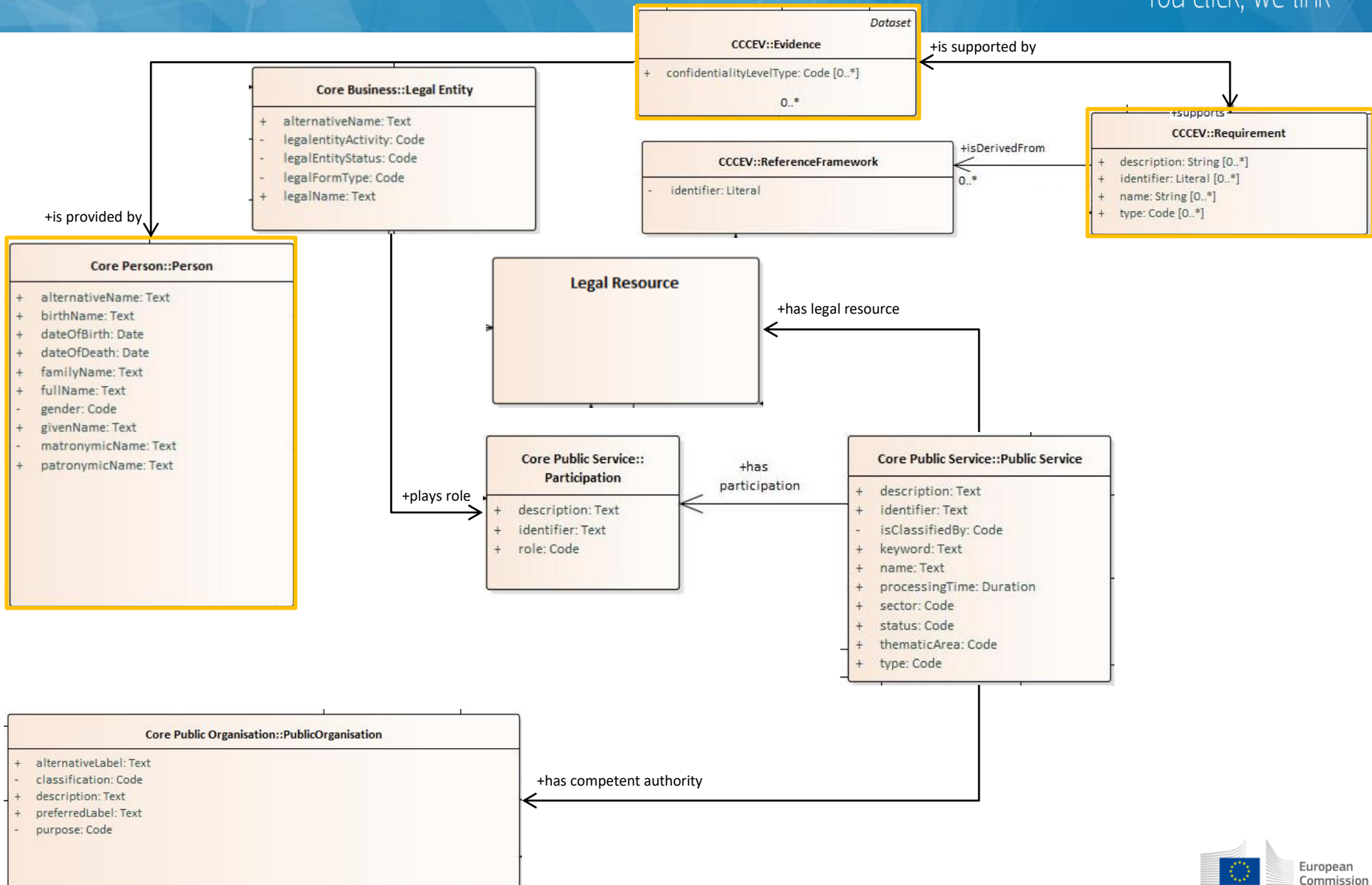
IT Consulting corp would like to verify her age and gender in order to obtain subsidies (Public Service) defined in a law (Reference Framework/Legal Resource). The subsidies are a public service provided by the Ministry of Interior (Public Organisation).



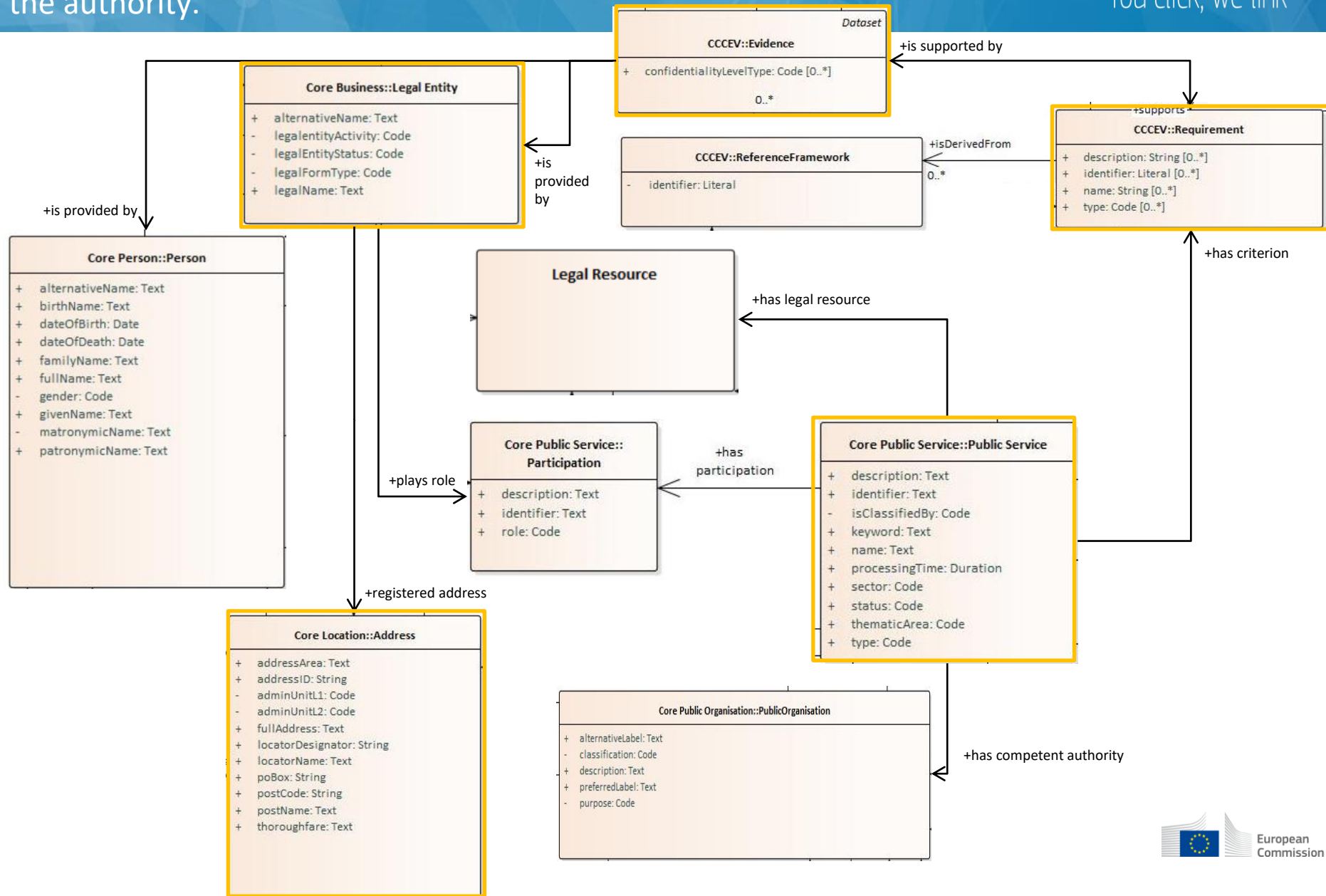
The law wants to encourage IT businesses in the country (Requirement) to attract young graduated women in the IT domain and therefore requires the person hired to be under 24 years old (Requirement) and a female (Requirement).



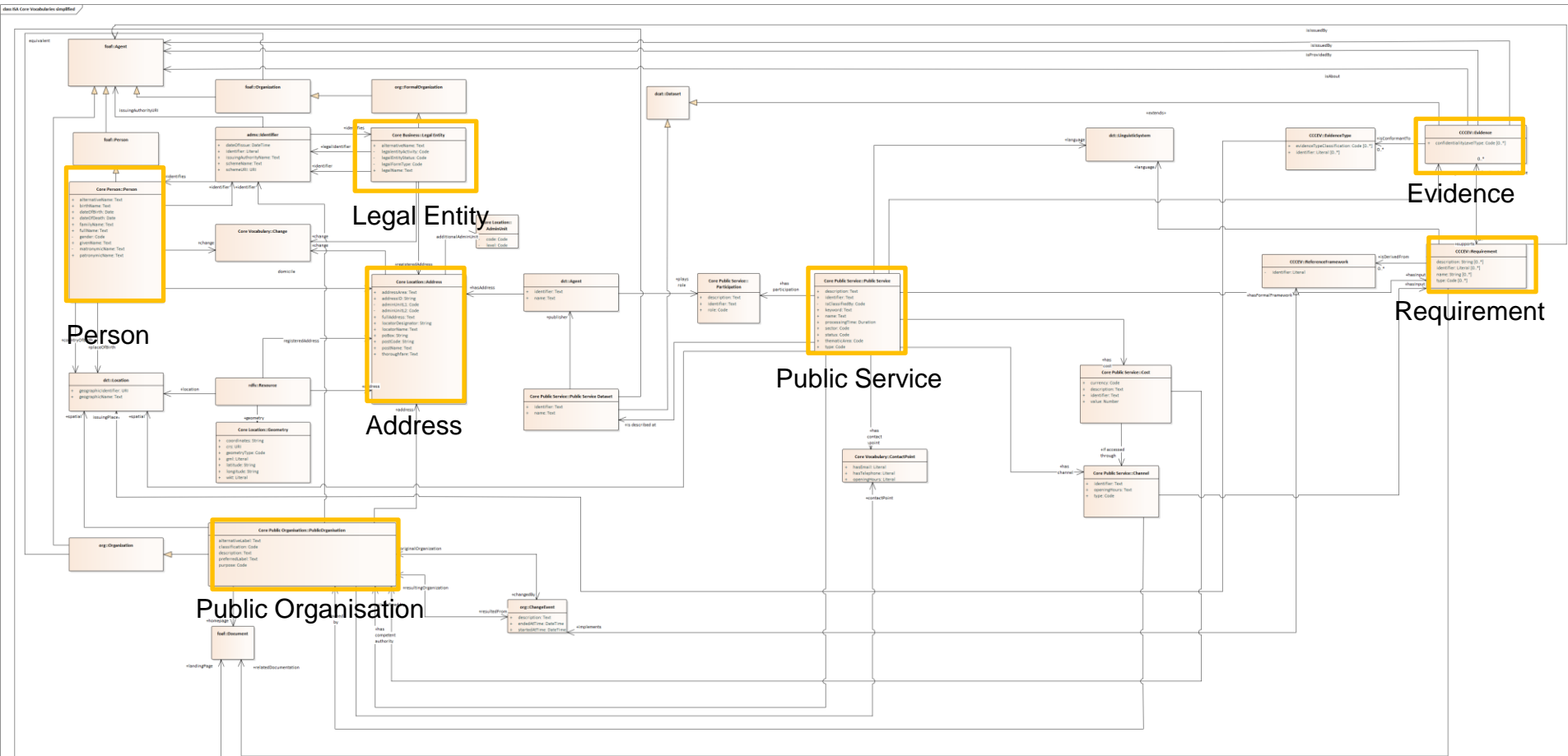
Amongst other documents, Isabel provides to IT Consulting corp. her birth certificate (Evidence) to prove her age and gender.



IT Consulting corp. requires an extract of the national address base registry (Evidence), showing its address (Address) in order to prove that the company is under the right jurisdiction and sends all pieces of evidence to the authority.



# Core Vocabularies – simplified diagram





# Core Vocabularies – document structure

## BIRTH

### MULTILINGUAL STANDARD FORM — TRANSLATION AID

Article 7 of Regulation (EU) 2016/1191 of the European Parliament and of the Council of 6 July 2016 on promoting the free movement of citizens by simplifying the requirements for presenting certain public documents in the European Union and amending Regulation (EU) No 1024/2012 <sup>(1)</sup>

- Belgium (BE)  Bulgaria (BG)
- Czech Republic (CZ)
- Denmark (DK)  Germany (DE)
- Estonia (EE)  Ireland (IE)
- Greece (EL)  Spain (ES)
- France (FR)  Croatia (HR)
- Italy (IT)  Cyprus (CY)
- Latvia (LV)  Lithuania (LT)
- Luxembourg (LU)
- Hungary (HU)  Malta (MT)
- Netherlands (NL)  Austria (AT)
- Poland (PL)  Portugal (PT)
- Romania (RO)  Slovenia (SI)
- Slovakia (SK)  Finland (FI)
- Sweden (SE)  United Kingdom (UK)

Reference  
Framework

Public  
Organisation's  
Country

## 3. INFORMATION RELATING TO THE PUBLIC DOCUMENT TO WHICH THIS FORM IS ATTACHED

- 3.1  Document emanating from an authority or an official connected with the courts or tribunals of a Member State
  - 3.1.1  Court decision
  - 3.1.2  Document emanating from a public prosecutor
  - 3.1.3  Document emanating from a clerk of a court
  - 3.1.4  Document emanating from a judicial officer ('huissier de justice')
  - 3.1.5  Other (to be specified) .....
- 3.2  Administrative document
  - 3.2.1  Certificate
  - 3.2.2  Extract from the Civil Status Register
  - 3.2.3  Extract from the Population Register
  - 3.2.4  Verbatim copy of civil status records
  - 3.1.5  Other (to be specified) .....
- 3.3  Notarial act
- 3.4  Official certificate placed on a document signed by a person in his or her private capacity
- 3.5  Document drawn up by a diplomatic or consular agent of a Member State in his or her official capacity
- 3.6 Date (dd/mm/yyyy) of issue .....
- 3.7 Reference number of the public document .....

Period of time  
Requirements

## IMPORTANT NOTICE

The sole purpose of this multilingual standard form is to facilitate the translation of the public document to which it is attached. This form shall not be circulated as an autonomous document between Member States.

This form reflects the content of the public document to which it is attached. However, the authority to which the public document is presented may require, when necessary for the purpose of processing the public document, a translation or transliteration of the information included in the form.

## 4. INFORMATION ON THE PERSON BORN

- 4.1 Surname(s) .....
- 4.2 Forename(s) .....
- 4.3 Date (dd/mm/yyyy) of birth .....
- 4.4 Place <sup>(1)</sup> and country <sup>(2)</sup> of birth .....
- 4.5 Sex:
  - 4.5.1  Female
  - 4.5.2  Male
  - 4.5.3  Undetermined

Person +  
Location

## NOTE FOR THE ISSUING AUTHORITY

Mention only information which is given in the public document to which this form is attached <sup>(2)</sup>.

If the public document to which this form is attached does not contain certain data or information, indicate '—'.

### 1. AUTHORITY ISSUING THIS FORM

1.1 Designation <sup>(3)</sup> .....

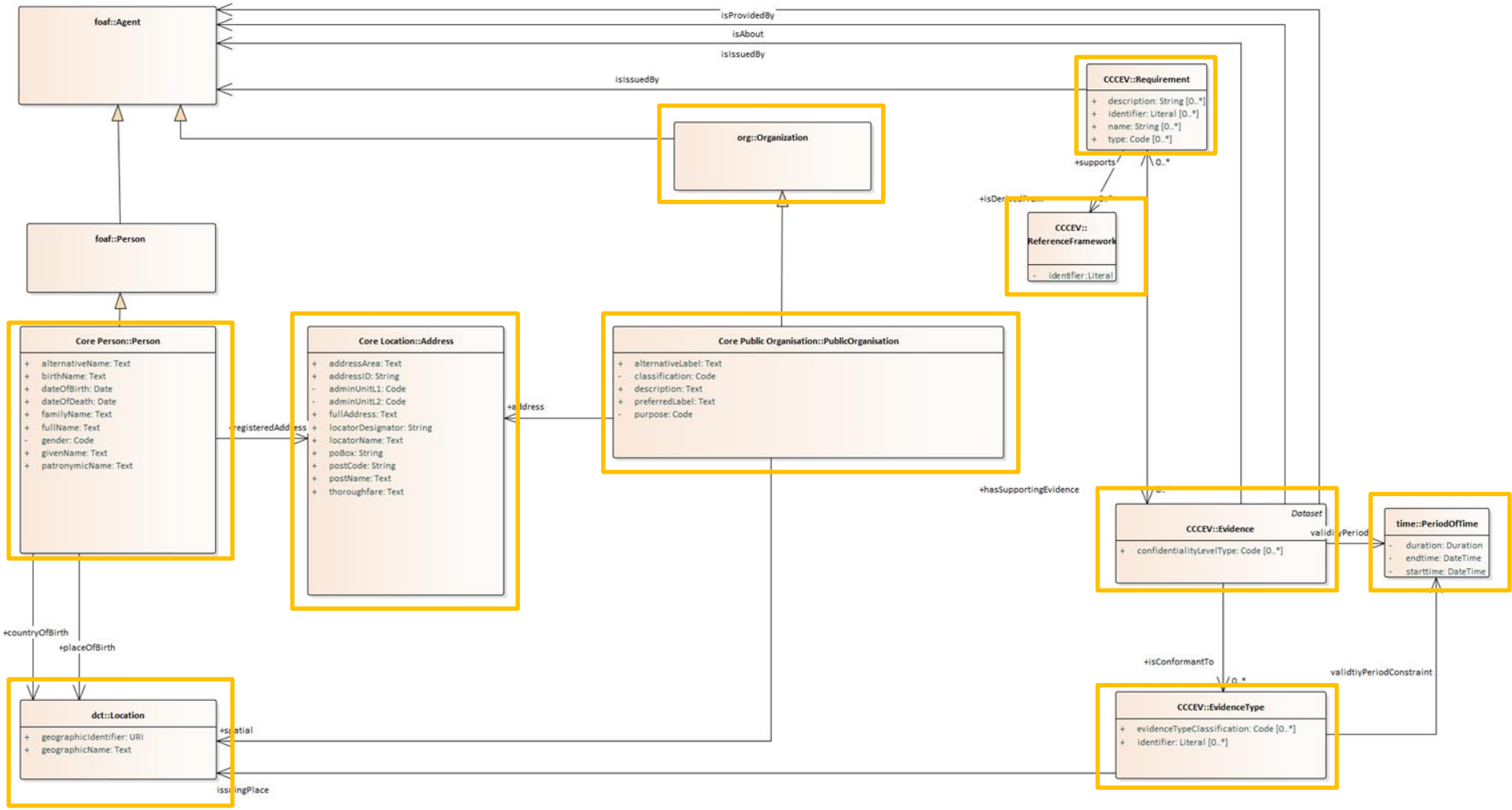
### 2. AUTHORITY ISSUING THE PUBLIC DOCUMENT TO WHICH THIS FORM IS ATTACHED

1.1 Designation <sup>(4)</sup> .....

## 5. SIGNATURE BOX

- 5.1 Surname(s) and forename(s) of the official who issued this form .....
- 5.2 Position of the official who issued this form .....
- 5.3 Date (dd/mm/yyyy) of issue .....
- 5.4 Signature .....
- 5.5 Seal or stamp .....

class birth certificate



# 3. Break



# 3. Core Person & Core Location Vocabularies

CORE  
PERSON  
VOCABULARY

CORE  
LOCATION  
VOCABULARY



Overview of key elements of each Core Vocabulary and changes proposed

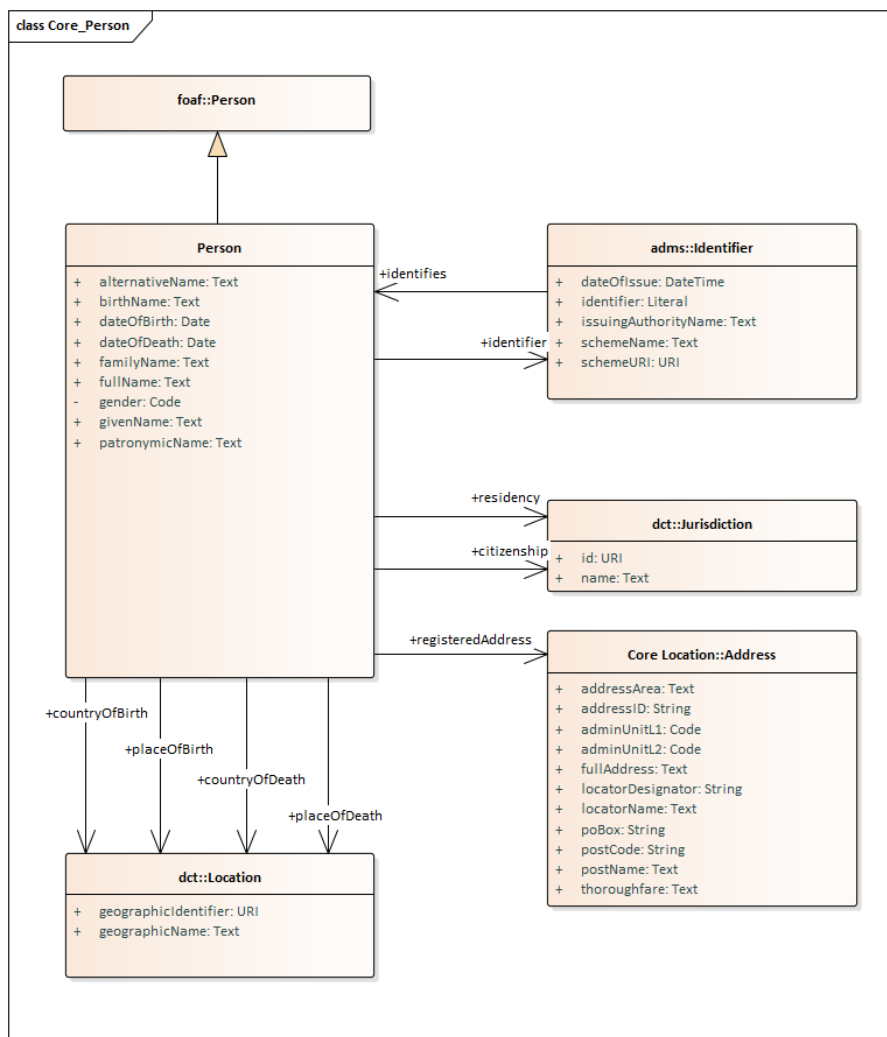


Discussion of key issues and proposed resolutions

**Speaker: Emidio STANI**

# Core Person

CORE  
PERSON  
VOCABULARY



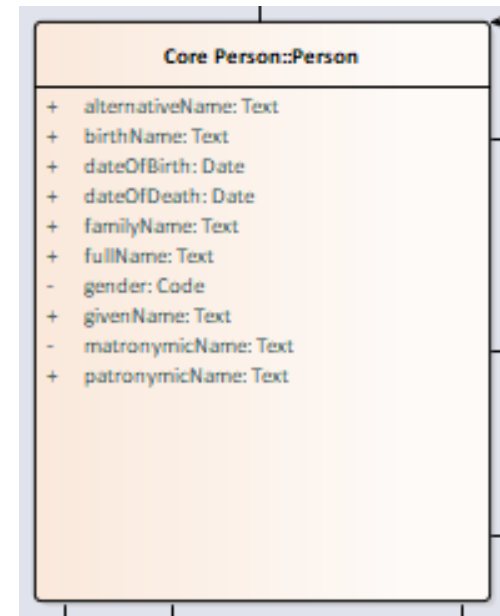


## Matronymic name (Core Person Issue [#25](#))

Finland and Sweden have been requested the addition of Matronymic Name. For inclusiveness alongside patronymic.

### Proposition :

Add matronymicName as property in Person class





## Birth and death date (Core Person Issue [#9](#) and [#17](#))

Last agreement was using the data type “Date” for the properties Birth and Death date.

In order to be flexible in case the exact day is not known, it is requested to indicate the Birth/Death date as of union of xs:date, xs:gYearMonth and xs:gYear

### **Proposition :**

Create a new data type “Date” as union of xs:date, xs:gYearMonth and xs:gYear, so information models can be flexible



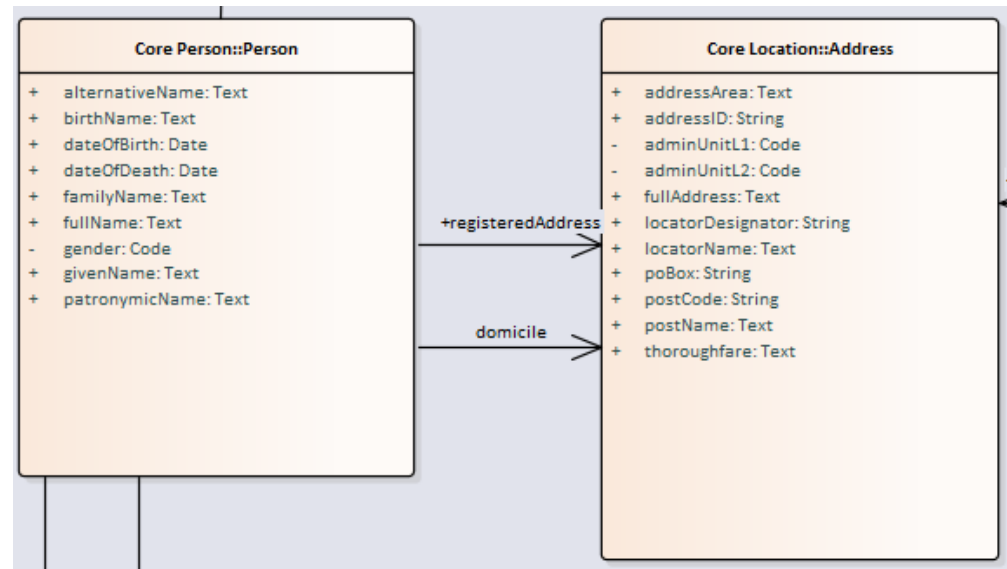
## Additional address (Core Person Issues [#3](#), [#32](#), [#35](#))

There are a few requests to add the concept of a 2<sup>nd</sup> address, that could be a domicile, in addition to the concept of residency.

Note: the concept of domicile is present in the Regulation on Public Documents.

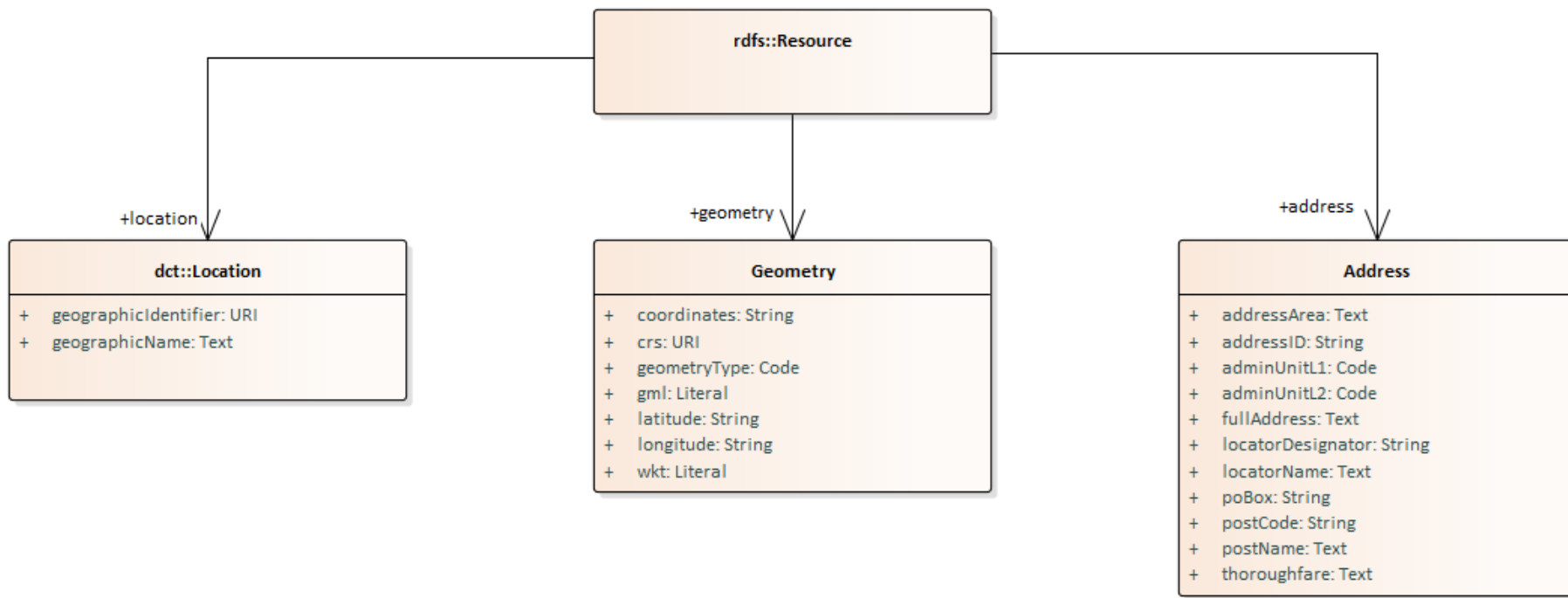
### Proposition :

Create a new relation “domicile” between Person and Address.



# Core Location

class Core\_Location





## Geopolitical code (Core Location issue #12)

AdminUnitL1 and L2 do not allow flexibility as there can be additional levels

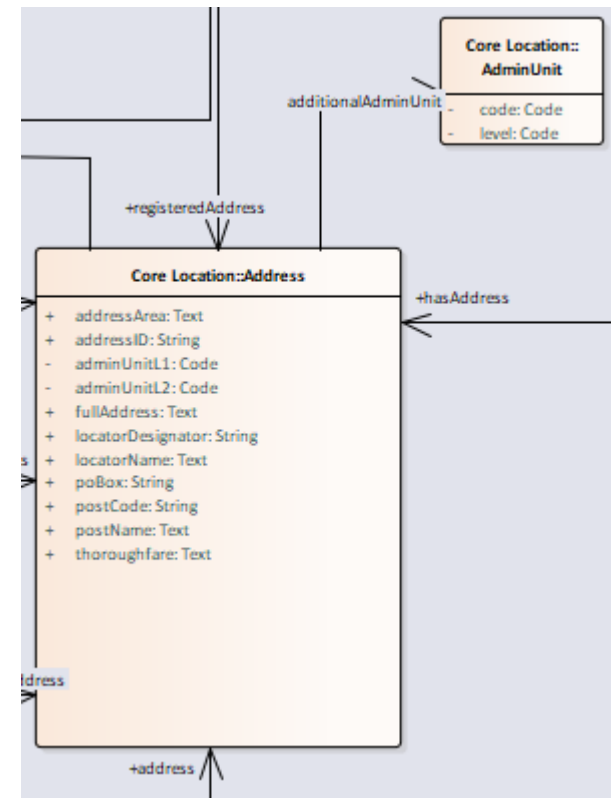
### Proposition :

Create a class AdminUnit with 2 properties:

- level (L3, L4, etc.) and
- the respective code for that level.

Link Address with AdminUnit with the respective property additionalAdminUnit

Keep adminUnitL1/L2 for backward compatibility



Impact: minor issue  
Status: resolution to be agreed

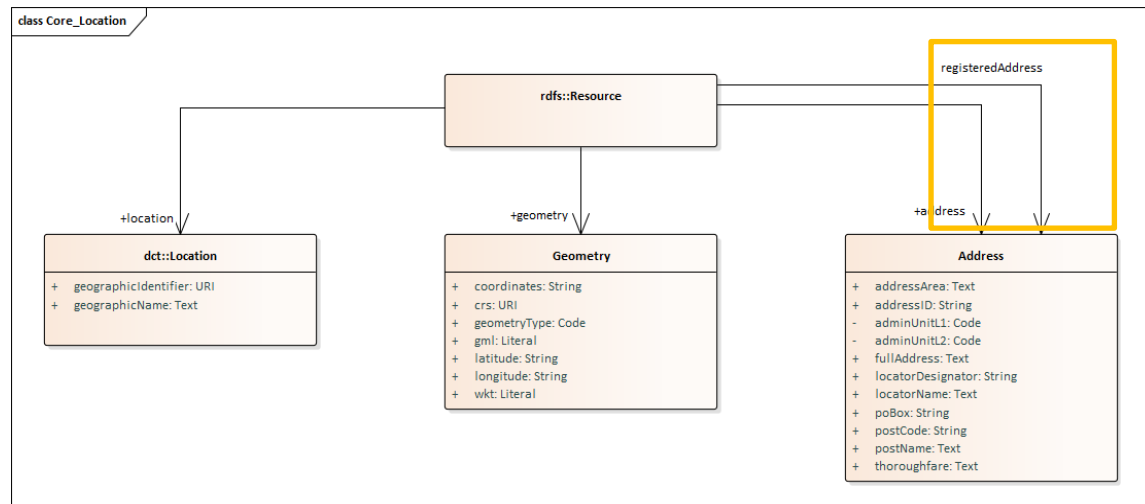


## Address property and registeredAddress used in other EU core vocs (Core Location issue #8)

The property registeredAddress is used in multiple vocabularies, the request is to move it in Core Location vocabulary instead of being part of the other Core Vocs.

### Proposition :

Move registeredAddress in  
Core Location





# 3. Core Business & Core Public Organisation Vocabularies



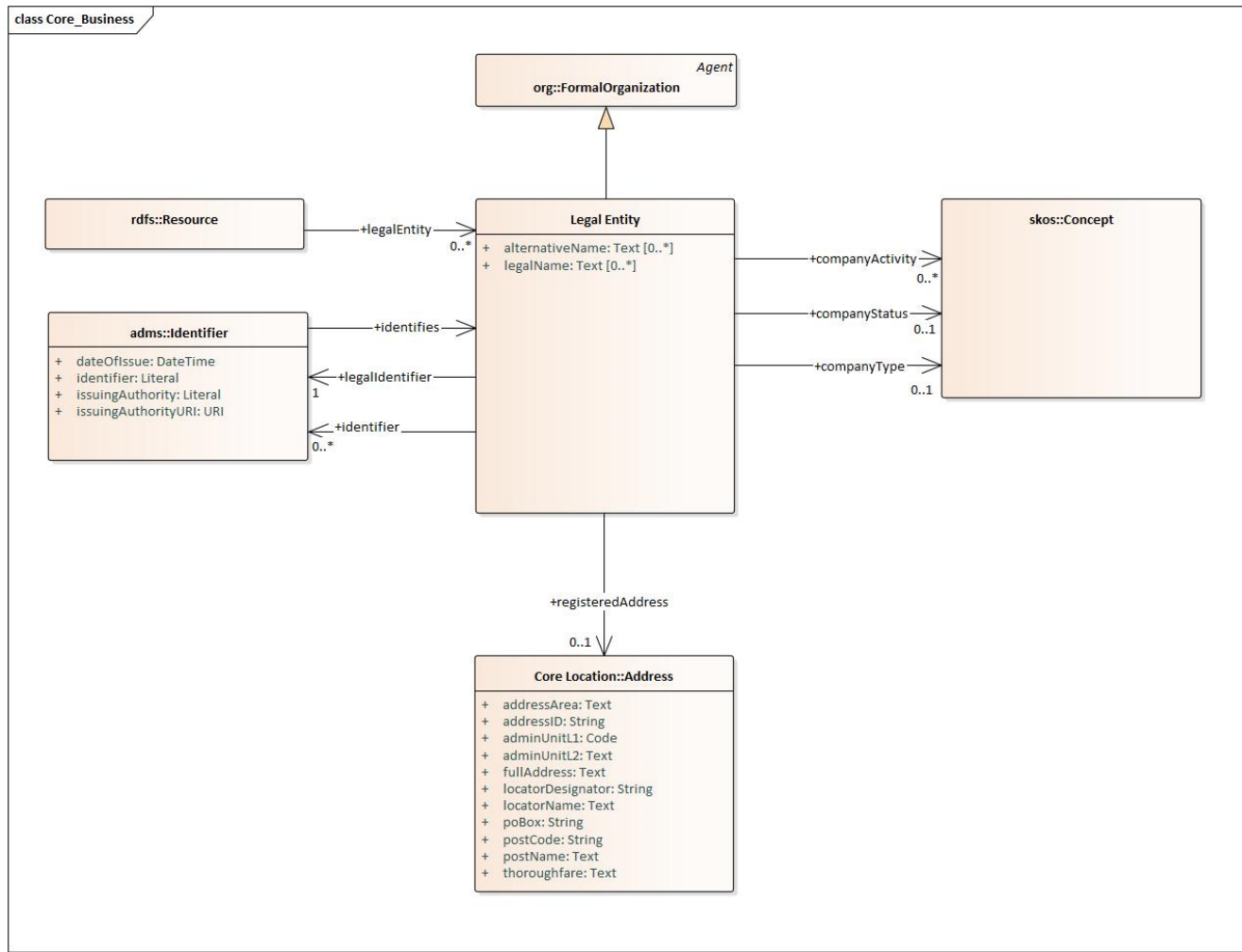
Overview of key elements of each Core Vocabulary and changes proposed



Discussion of key issues and proposed resolutions

**Speaker: Emidio STANI**

# Core Business Vocabulary

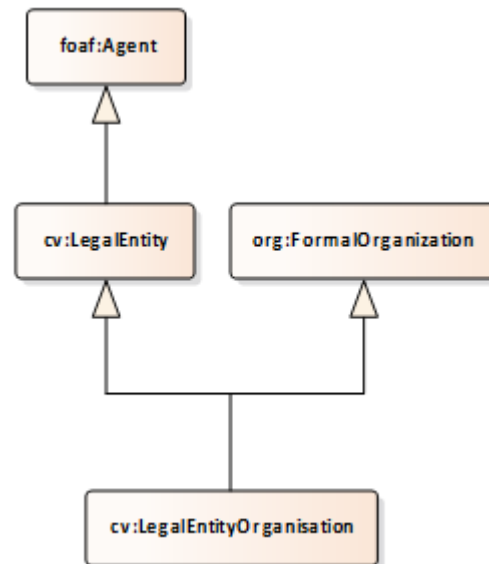


Impact: major issue  
Status: resolution to be agreed



## LegalEntity class, backward compatibility and a new class (Core Business issue [#21](#))

Request to make legal Entity under foaf:Agent and create a new class





## LegalEntity class, backward compatibility and a new class (Core Business issue [#21](#))

### Description

A Legal Entity able to transact business, typically registered with a body able to confer legal status such as a national business register.

### Usage

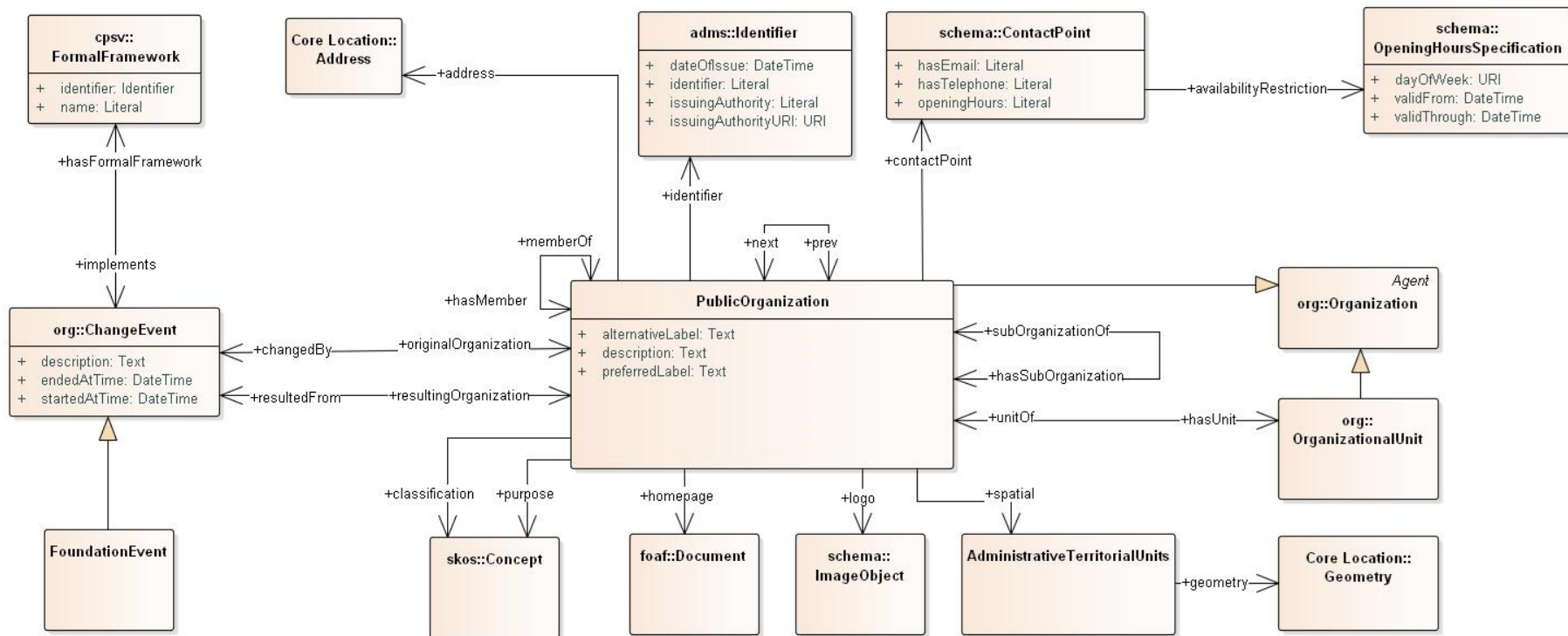
A Legal Entity is able to trade, is legally liable for its actions, accounts, tax affairs etc. This makes Legal Entities distinct from the concept of organisations, groups or sole traders. Many organisations exist that are not Legal Entities, yet to the outside world they have staff, hierarchies, locations etc. Other organisations exist that are an umbrella for several Legal Entities (universities are often good examples of this). This vocabulary is concerned solely with registered Legal Entities and does not attempt to cover all possible trading bodies.

### **Proposition :**

Keep Legal Entity as it is, it was always a subclass of org:FormalOrganization and diagram was a simplification

# Core Public Organisation Vocabulary

class Core\_Public\_Organisation

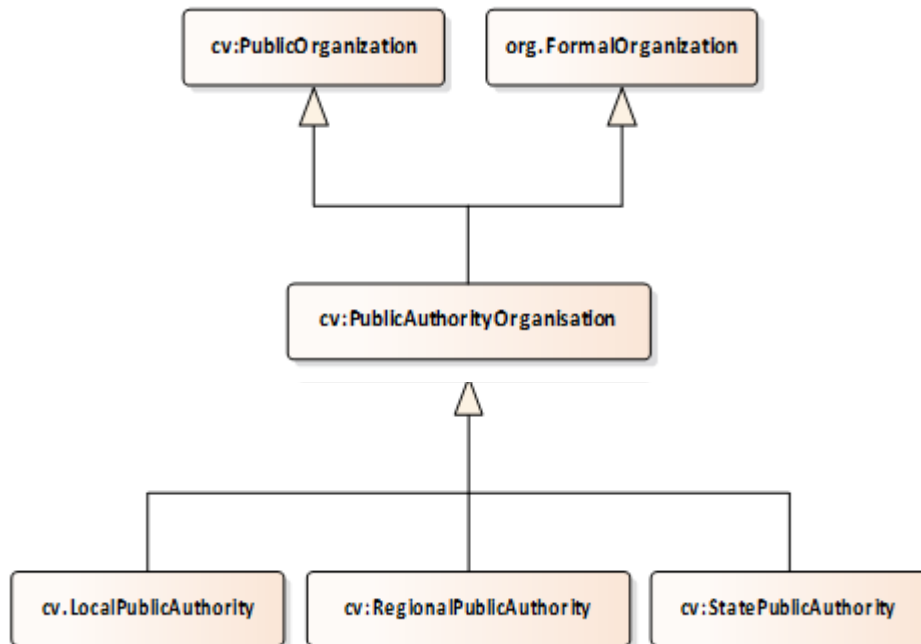


Impact: major issue  
Status: resolution to be agreed



## Adding class to define a public authority organisation (Core Public Organization issue [#18](#))

Request to add new class to define Public Authority Organisation and subclasses;



Are there any use cases ?

If there are use cases, it can be considered for future releases

# 6. Wrap-up

## Next steps

1. Feedback on the "*Principles for creating good definitions*" is more than welcome, deadline end of December, after that the new release will be created.
2. Core Vocabularies serializations, initial study of the guidelines rules followed by different approaches on [GitHub](#). Investigate on stakeholders needs and provision of feedback in GitHub.
3. Public review on GitHub :
  - <https://github.com/SEMICeu/Core-Person-Vocabulary/issues>
  - <https://github.com/SEMICeu/Core-Business-Vocabulary/issues>
  - <https://github.com/SEMICeu/Core-Location-Vocabulary/issues>
  - <https://github.com/SEMICeu/CPOV/issues>





# ISA<sup>2</sup> programme

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Programme



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Run by the Interoperability Unit at DIGIT (European Commission) with 131€M budget, the [ISA<sup>2</sup> programme](https://ec.europa.eu/isa2) provides public administrations, businesses and citizens with specifications and standards, software and services to reduce administrative burdens.

ISA<sup>2</sup>