Webinar 4 on the SDG search service model

June 09-06-2021

09:30-11:30 (GMT+1)

Organised by the Catalogue of Services Action of the ISA² programme

Webinar practicalities

Click on « connect audio » but please mute your microphones.

You can share your questions and comments via the chat at any time during the webinar.

The webinar will be recorded.

1. Welcome

Speaker: Miguel Alvarez Rodriguez

Agenda

1. Welcome   10'

2. Discussing the model: tackling the GitHub issues   40'

3. Pilot   60'

4. Next steps   10'

Approach

STEP	STATUS
Analyse and model the information requirements from the SDGR	Done
Prioritise the information in function of its added-value for the end-user and propose a first model	Done
Updated the model based on the input received.	Today
Create a specification which can be used as a common reference by all Member States	Today
Conduct a pilot	Not started

2. Discussing the model: tackling the GitHub issues
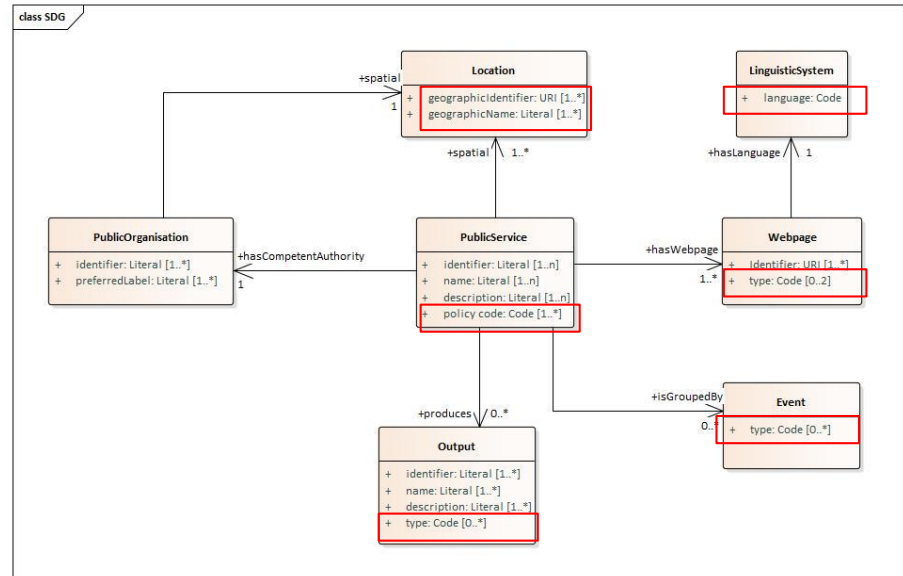
Speaker: Florian Barthélemy

Updated model
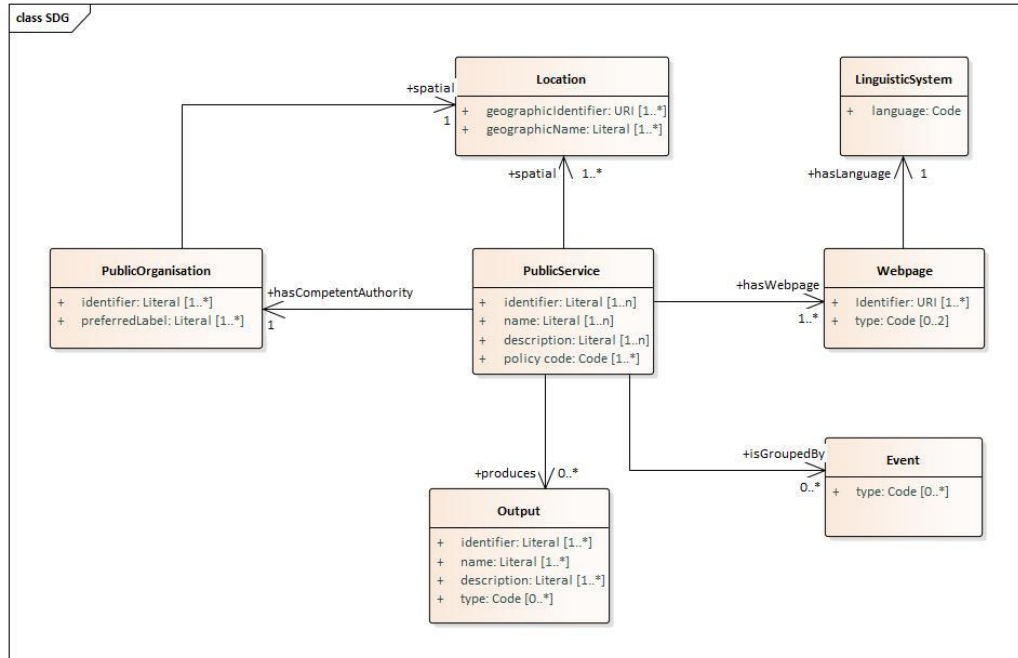
Information captured within the model

1. information that MS are already providing for the metadata for URLs (indicated red)

2. additional information in the model which will be tested during the pilot phase (all others)

Changes from v0.01 to v0.02

1. Added **policy code** under **Public Service** (#38)

1. Removed **Contact Point** (#41,#42)

1. Agreed to use NUTS/LAU for **Location** (#40)

1. Added **geographic name** to **Location** (#40)

1. Changed cardinality **hasLanguage** from **Webpage** from 1..* to 1 (#45)

1. Added **Event** as class and property **isGroupedBy** from **Public Service** to **Event** (#38)

1. Cardinality of **spatial** of **Public Service** updated from 0..* to 1..*

1. Added **type** to **Webpage** to cover different kind of pages. {information/procedure}

1. No additional **Channels** were added to the model (#43)

1. Updated **type** of **Output** to cover the outputs as mentioned in Annex II of the SDGR (#37)
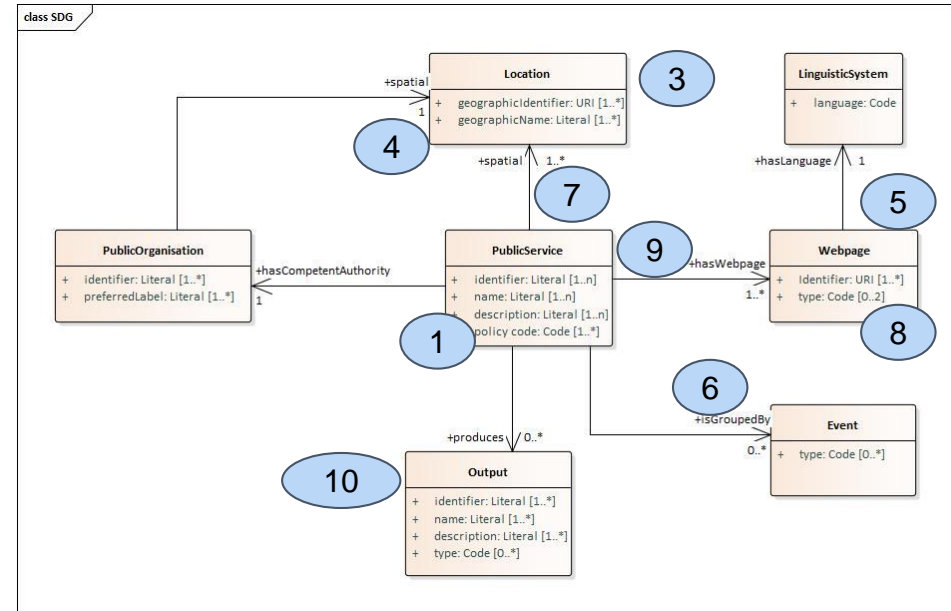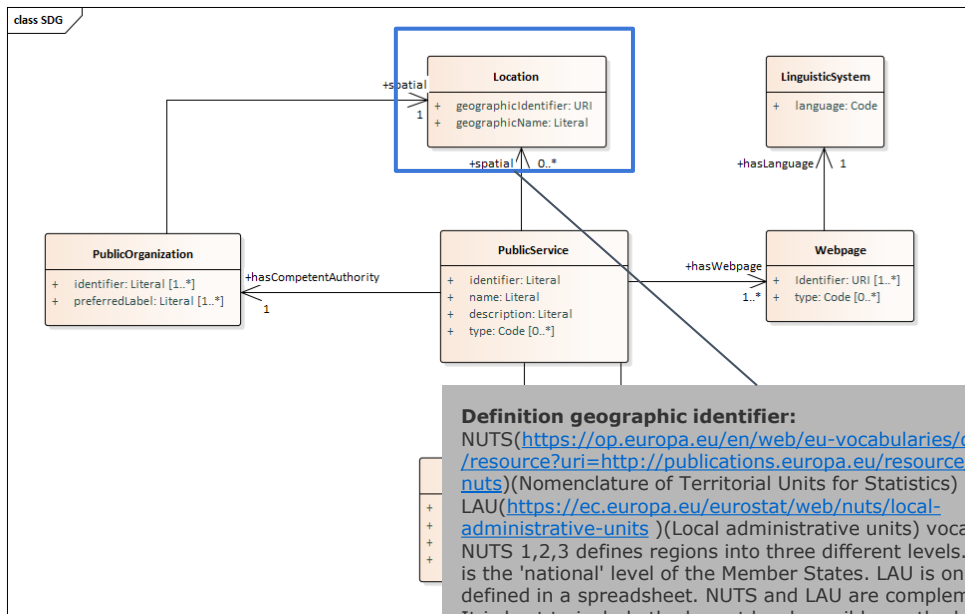
Location is defined by NUTS/LAU, in alignment with the metadata for URLs for the repository of links. The name is in alignment with the codes from NUTS/LAU.

Issue **#40**

Additional context
- NUTS and LAU codelists agreed in alignment with the metadata for URLs

- Indicate lowest level possible, higher levels can be automatically retrieved

- Name according to NUTS/LAU

Proposition
We propose to add an optional property for capturing alternative labels of location to enrich the search. Do you agree?

Definition geographic identifier:
NUTS(https://op.europa.eu/en/web/eu-vocabularies/dataset/-/resource?uri=http://publications.europa.eu/resource/dataset/nuts)(Nomenclature of Territorial Units for Statistics) or LAU(https://ec.europa.eu/eurostat/web/nuts/local-administrative-units)(Local administrative units) vocabulary. NUTS 1,2,3 defines regions into three different levels. NUTS 0 is the 'national' level of the Member States. LAU is only defined in a spreadsheet. NUTS and LAU are complementary. It is best to include the lowest level possible, as the higher levels could be automatically retrieved.

The classification of outputs is according to the outputs defined in Annex II, which are not types bot exact outputs depending on the procedure.

Issue #39

Proposition
We propose to create a classification which is more generic than the ones defined in Annex II in order to improve the search results.

Approach:
- Analyse the existing types of output from Annex II
- Identify additional outputs from Annex I
- Compare with existing sources, such as the CPSV-AP
- Create a more generic list of outputs

Outputs annex II

ANNEX II

Procedures referred to in Article 6(1)

Life events	Procedures	Expected output subject to an assessment of the application by the competent authority in accordance with national law, where relevant
Birth	Requesting proof of registration of birth	Proof of registration of birth or birth certificate
Residence	Requesting proof of residence	Confirmation of registration at the current address
Studying	Applying for a tertiary education study financing, such as study grants and loans from a public body or institution	Decision on the application for financing or acknowledgement of receipt
	Submitting an initial application for admission to public tertiary education institution	Confirmation of the receipt of application

Examples: output types defined by CPSV-AP:
- Declaration
- Physical object
- Code
- Financial obligation
- Financial benefit
- Recognition
- Permit

(This list comes from page 39 of the CPSV-AP specification)

Overview of outputs within Annex II

| Life events	Procedures	Expected output subject to an assessment of the application by the competent authority in accordance with national law, where relevant
Requesting proof of registration of b	Proof of registration of birth or birth certificate	Proof of registration of birth or birth certificate
Residence	Requesting proof of residence	Confirmation of registration at the current address
Studying	Applying for a tertiary education study financing, such as stu	Decision on the application for financing or acknowledgement of receipt
	Submitting an initial application for admission to public tert	Confirmation of the receipt of application
	Requesting academic recognition of diplomas, certificates o	Decision on the request for recognition
Working	Request for determination of applicable legislation in accord	Decision on applicable legislation
	Notifying changes in the personal or professional circumstan	Confirmation of receipt of notification of such changes
	Application for a European Health Insurance Card (EHIC)	European Health Insurance Card (EHIC)
	Submitting an income tax declaration	Confirmation of the receipt of the declaration
Moving	Registering a change of address	Confirmation of deregistration at the previous address and of the registration of the new address
	Registering a motor vehicle originating from or already regis	Proof of registration of a motor vehicle
	Obtaining stickers for the use of the national road infrastruct	Receipt of toll sticker or vignette or other proof of payment
	Obtaining emission stickers issued by a public body or instit	Receipt of emission sticker or other proof of payment
Retiring	Claiming pension and pre-retirement benefits from compuls	Confirmation of the receipt of the claim or decision regarding the claim for a pension or pre-retirement benefits
	Requesting information on the data related to pension from	Statement of personal pension data
Starting, running and closing a busir	Notification of business activity, permission for exercising a	Confirmation of the receipt of notification or change, or of the request for permission for business activity
	Registration of an employer (a natural person) with compuls	Confirmation of registration or social security registration number
	Registration of employees with compulsory pension and inst	Confirmation of registration or social security registration number
	Submitting a corporate tax declaration	Confirmation of the receipt of the declaration
	Notification to the social security schemes of the end of cont	Confirmation of the receipt of the notification
	Payment of social contributions for employees	Receipt or other form of confirmation of payment of social contributions for employees

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We are currently describing public services through the policy code and the types of events according to Annex II.

Issue #37   Issue #38

Questions:

- Do we need to provide additional classification on top of the policy code to arrive at the right level of usability/granularity?

- Should each public service have a life or business event/output? (also services annex I)
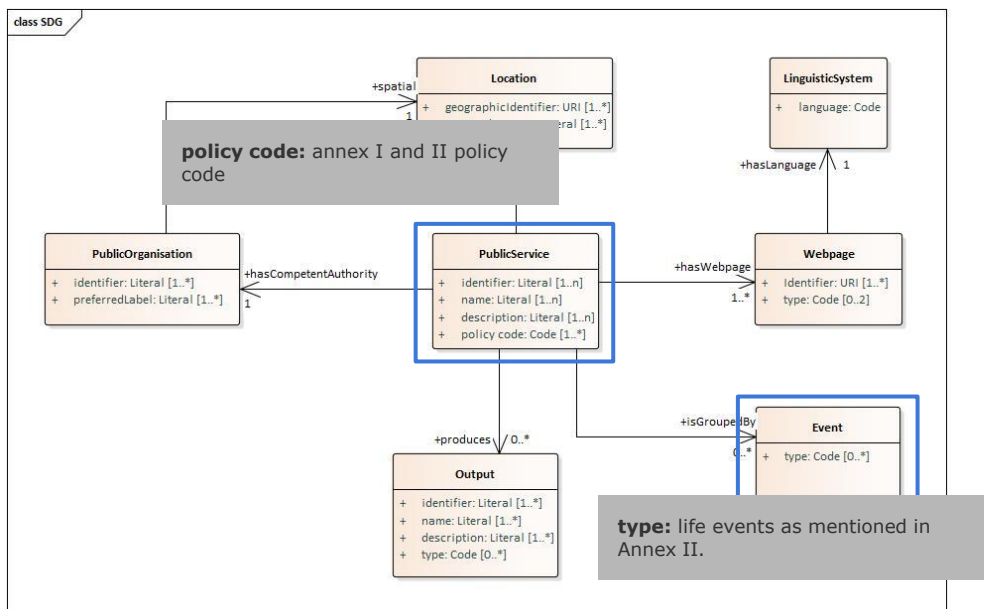
Proposition
We propose to analyse further the different life/business events captured in the annexes and other sources (CPSV-AP).

Additional classifications can improve the search in the search engines.

ISA²
You click, we link

CPSV-AP: Life Events   Life Events from Annex II

1st level life event	SDGR
Having a child	Birth
Becoming a (social) caretaker	
Starting education	Studying
Looking for a new job	Working
Losing/quitting a job	Working
Looking for a place to live	Residence
Changing relationship status	
Driving a vehicle	Moving
Travelling abroad	Moving
Moving to/from the country	Moving
Going into military service	
Facing an emergency / health problem	
Facing a crime	
Retirement	Retiring
Death of a relative	

European Commission

Business Events from Annex II

Single placeholder for all business related events: "*Starting, running and closing a business*"

Starting, running and closing a business	Notification of business activity, permission for exercising a business activity, changes of business activity and the termination of a business activity not involving insolvency or liquidation procedures, excluding the initial registration of a business activity with the business register and excluding procedures concerning the constitution of or any subsequent filing by companies or firms within the meaning of the second paragraph of Article 54 TFEU	Confirmation of the receipt of notification or change, or of the request for permission for business activity
	Registration of an employer (a natural person) with compulsory pension and insurance schemes	Confirmation of registration or social security registration number
	Registration of employees with compulsory pension and insurance schemes	Confirmation of registration or social security registration number
	Submitting a corporate tax declaration	Confirmation of the receipt of the declaration
	Notification to the social security schemes of the end of contract with an employee, excluding procedures for the collective termination of employee contracts	Confirmation of the receipt of the notification
	Payment of social contributions for employees	Receipt or other form of confirmation of payment of social contributions for employees

CPSV-AP: 2 levels Business Events

Starting business	Registering a company
	Needing a licence, permit or certificate to start or continue an activity
	Registering Intellectual Property
	Registering a branch
	Starting a new activity
	Financing a company
	Hiring an employee
Starting cross-border business	Registering a cross-border business
	Registering a branch
Doing business	Financing a company
	Needing a licence, permit or certificate to start or continue an activity
	Registering Intellectual Property
	Hiring an employee
	Participating in public procurement
	Notifying and reporting to authorities
	Starting a new activity
	Registering a branch
	Having problems in paying creditors
Closing business	Restructuring of a company
	Dissolution of a company

European Commission

The classification of webpages is currently defined whether it is information about a service or you can perform the procedure.
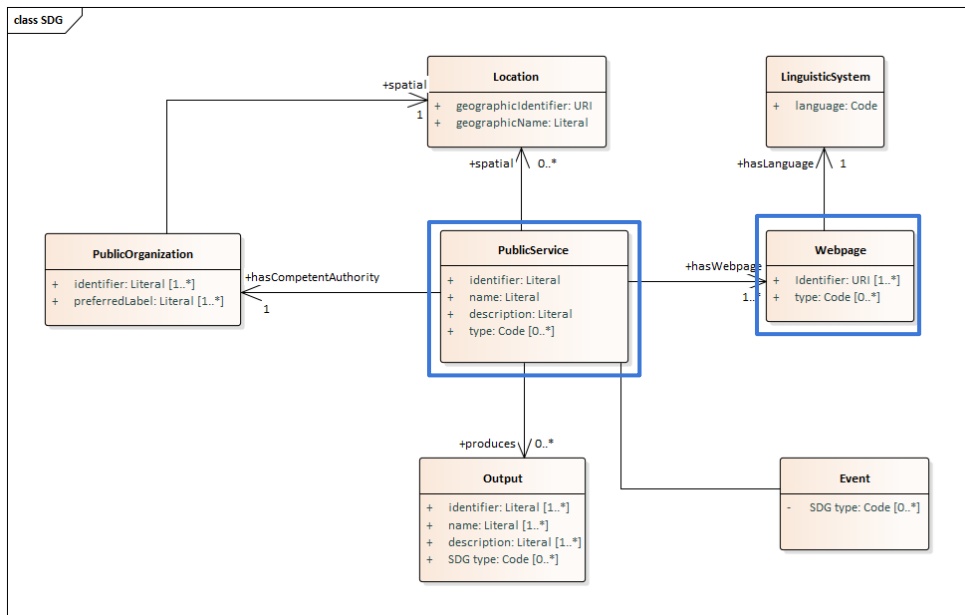
Current status

Classification information/procedure can be relevant for both annex I and II.

- *Information*: information about rules/obligations/guidelines or procedures
- *Procedure*: the page where can you initiate the procedure (distinction with application?)

Proposition
We propose to keep the classification as it is defined for the repository of links. Is there a need to have additional classification to enrich the information and improving the findability?

class SDG

Location
+ geographicIdentifier: URI
+ geographicName: Literal

LinguisticSystem
+ language: Code

PublicOrganization
+ identifier: Literal [1..*]
+ preferredLabel: Literal [1..*]

PublicService
+ identifier: Literal
+ name: Literal
+ description: Literal
+ type: Code [0..*]

Webpage
+ Identifier: URI [1..*]
+ type: Code [0..*]

Output
+ identifier: Literal [1..*]
+ name: Literal [1..*]
+ description: Literal [1..*]
+ SDG type: Code [0..*]

Event
- SDG type: Code [0..*]

+spatial 1
+spatial 0..*
+hasLanguage 1
+hasCompetentAuthority 1
+hasWebpage 1..*
+produces 0..*

Currently several webpages can be indicated for a specific public service. The question arises whether you should only indicate one webpage for each public service or multiple ones.

Issue #45

Recommendation

The amount of pages that you want to show can be chosen by the Member States, multiple services for one policy code and multiple pages for the same service.

Indicating more webpages for a service will provide multiple options, but the search engine could benefit from the additional information provided. (e.g. by also providing additional tags)

It depends on the amount of granularity that you want to achieve at European level.
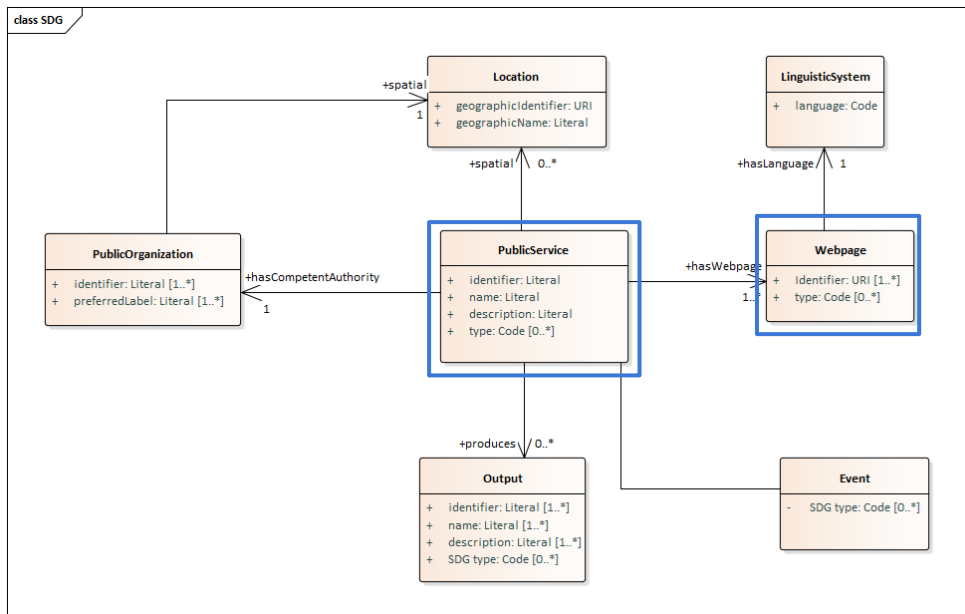
Identifiers

Explicit identifiers have been included within the model for classes such as Public Organization, Public Service and Output. These allow for identification of the instances. (E.G in json or xml)
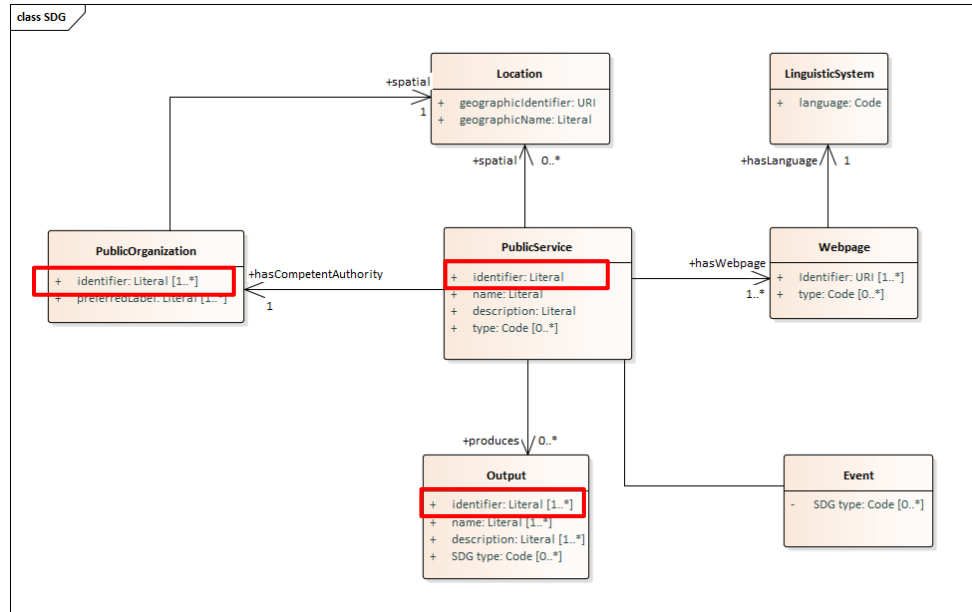
Within an RDF distribution, unique identification is facilitated by the value of the RDF node. In this case, the identifier should best be equivalent to the value of the RDF node.

For example:
<rdf:Description
rdf:about="http://127.0.0.1:3362/**TCC-001**">
<dct:identifier>**TCC-001**</dct:identifier>

Proposition
We propose to have the identifiers for national identification. Do you agree?

class SDG

Location
+ geographicIdentifier: URI
+ geographicName: Literal

LinguisticSystem
+ language: Code

PublicOrganization
+ identifier: Literal [1..*]
+ preferredLabel: Literal [1..*]

PublicService
+ identifier: Literal
+ name: Literal
+ description: Literal
+ type: Code [0..*]

Webpage
+ Identifier: URI [1..*]
+ type: Code [0..*]

Output
+ identifier: Literal [1..*]
+ name: Literal [1..*]
+ description: Literal [1..*]
+ SDG type: Code [0..*]

Event
- SDG type: Code [0..*]

+spatial 1
+spatial 0..*
+hasLanguage 1
+hasCompetentAuthority 1
+hasWebpage 1..*
+produces 0..*

# 4. Pilot

Speaker: Florian Barthélemy

Objectives

1. Can you easily provide the additional data agreed?
2. Are the search results improved at national and/or European level thanks to:
   a. Metadata tags?
   b. More public services described?
3. Can the usability of the search be improved by:
   a. Showing additional data?
   b. Proposing additional filters?
4. Can the provision of the data be (partially) automated?

Some small examples

- Impact of structured data

- New filters

- Additional information displayed and how to display them

Impact of structured data

Search appearance
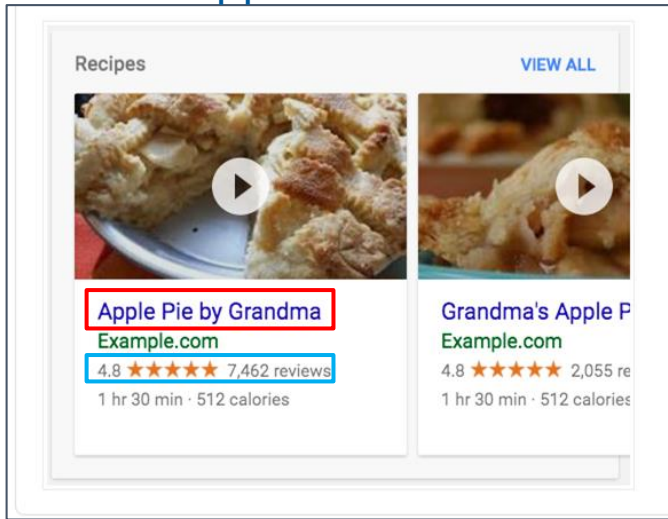
Structured data


```
<html>
  <head>
    <title>Apple Pie by Grandma</title>
    <script type="application/ld+json">
    {
      "@context": "https://schema.org/",
      "@type": "Recipe",
      "name": "Apple Pie by Grandma",
      "author": "Elaine Smith",
      "image": "http://images.edge-generalmills.com/56459281-6fe6-4d9d-984f-385c9488d824.jpg",
      "description": "A classic apple pie.",
      "aggregateRating": {
        "@type": "AggregateRating",
        "ratingValue": "4.8",
        "reviewCount": "7462",
        "bestRating": "5",
        "worstRating": "1"
      },
      "prepTime": "PT30M",
      "totalTime": "PT1H30M",
      "recipeYield": "8",
      "nutrition": {
        "@type": "NutritionInformation",
        "calories": "512 calories"
      },
      "recipeIngredient": [
        "1 box refrigerated pie crusts, softened as directed on box",
        "6 cups thinly sliced, peeled apples (6 medium)"
      ]
    }
```

New filters

Structured data and tagging can serve as input to feed filters to improve and speed up the search.

Option 1: without annotation of webpages

1

Mapping from MS model to the SDG Search Service model

2a

Provide the information manually/upload CSV/web services

3a

Process uploaded information on European portal

4

Use the data as basis for the search in YE

2b

Identify and annotate HTML data within the Webpages

3b

Harvest at European level
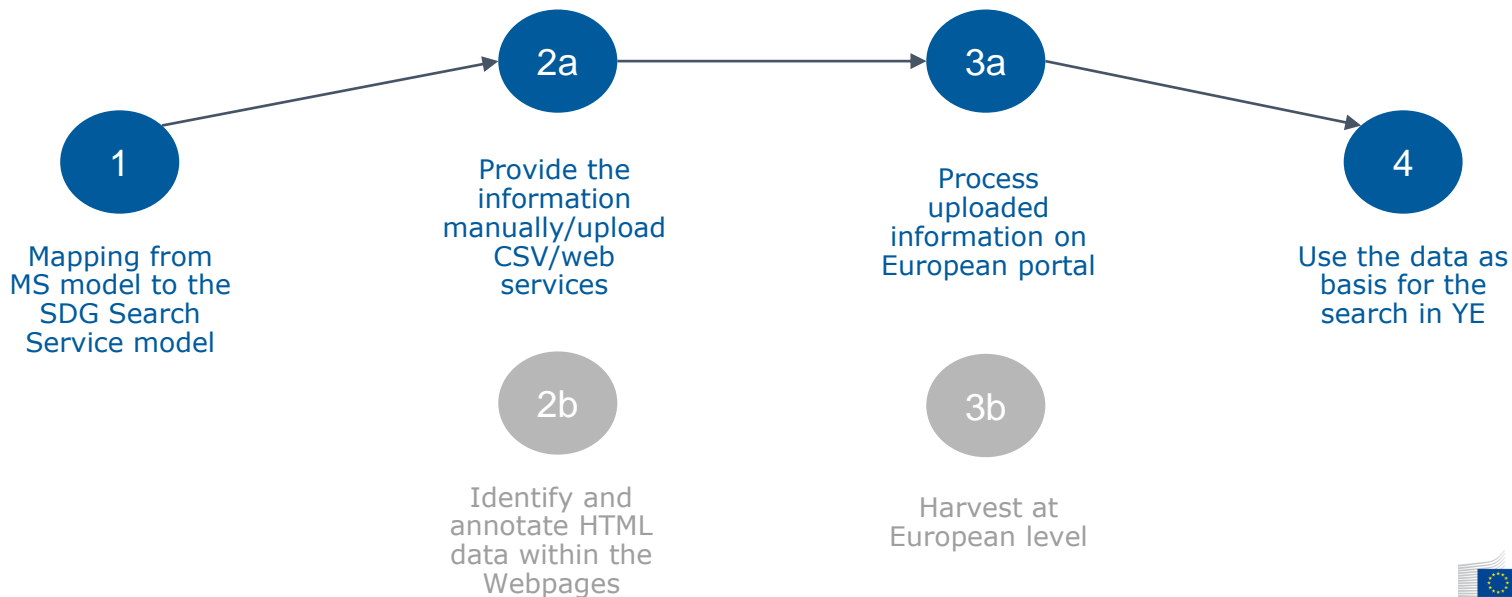
Option 2: with annotation of webpages

1 Mapping from MS model to the SDG Search Service model

2a Provide the information manually/upload CSV/ web services

2b Identify and annotate HTML data within the Webpages

3a Process uploaded information on European portal

3b Harvest at European level

4 Use the data as basis for the search in YE

Input for the pilot

Input required from the Member States

1 Mapping from MS model to the SDG Search Service model

2 Prepare information of MS in collectable format
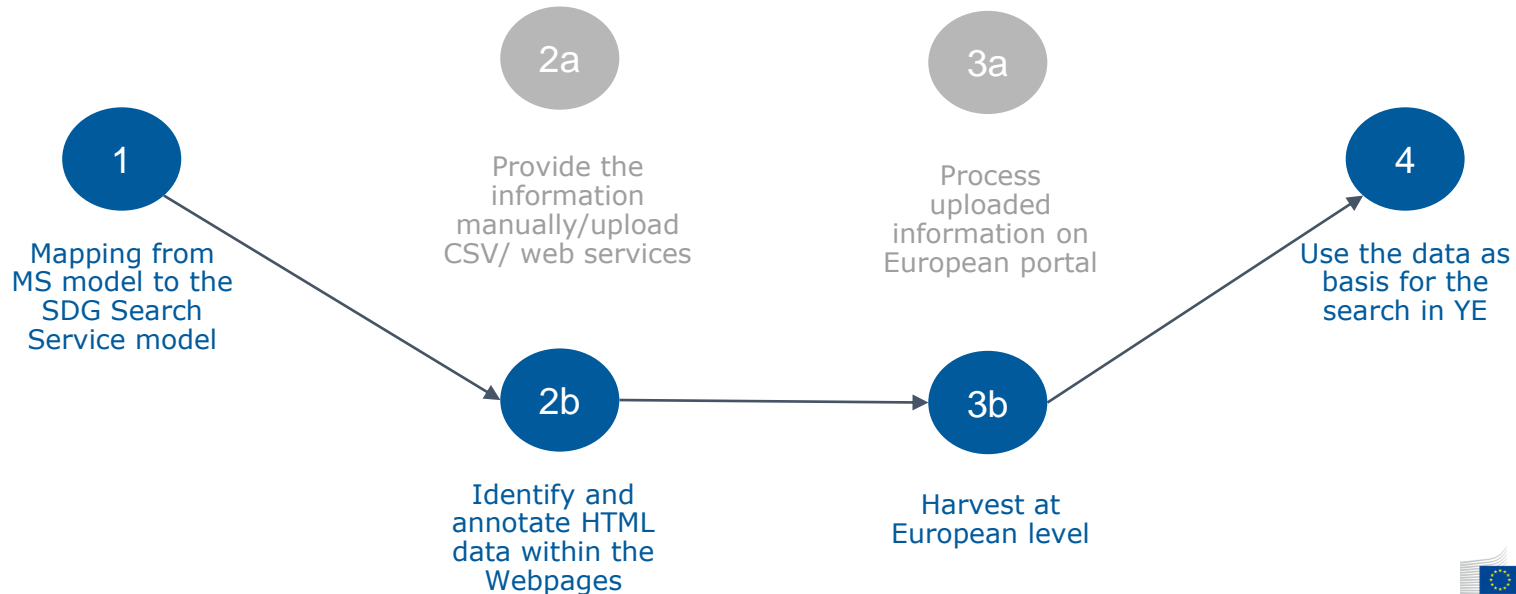
3 Collect the information at European level

4 Use the data as basis for the search in YE

- Gather the required information to be mapped
- Integration of the MS metadata and the mapping tool
- Perform the mapping

2A: Provide the information manually/upload CSV/web services

- Perform the transformation to the required format of the agreed metadata

2B: Identify and annotate HTML data within the Webpages

- Perform the automated annotation of the webpages

3A: Process uploaded information on European portal

- Provide the required links and information to the European portal

3B: Harvest at European level

- Indicate the annotated webpages to the European portal

- Perform tests on the YourEurope portal regarding searchability

5. Next steps

Speaker: Florian Barthélemy

Next steps

| PERIOD	ACTIVITY
Jun 9	***Present stable version & brainstorm on pilot options - Webinar #4*** *Present and discuss the stable version and brainstorm on potential pilot activities.*
Jun 18	***Share stable version of the model*** *The stable version that will serve as input for the pilot will be published.*
Jun 18	***Share proposed scope of the pilot*** *We will sent a document containing the scope, requirements and envisioned outcome of the pilot.*
Jun 30	***Decision on conducting the pilot*** *Receive confirmation from the interested Member States on conducting a pilot.*
Start during/after the Summer months	***Conducting the pilot(s)*** *Technical discussions with the participants, refine the scope for each participant, provide the technical specifications (e.g. mapping template or tool) and collect input, provide regular support.*

European Commission

Participation pilot

Would you be willing to participate in the pilot in the coming months? (yes/no)

Feedback & Collaboration
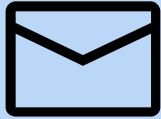
Feedback can be provided by email to the following people:

- barthelemy.florian@pwc.com
- maxime.pittomvils@pwc.com
- miguel.alvarez-rodriguez@ec.europa.eu

Feedback/Input can be provided through GitHub by creating an issue:
https://github.com/catalogue-of-services-isa/SDG-search-service-model

ISA² programme

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ISA² Programme

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