

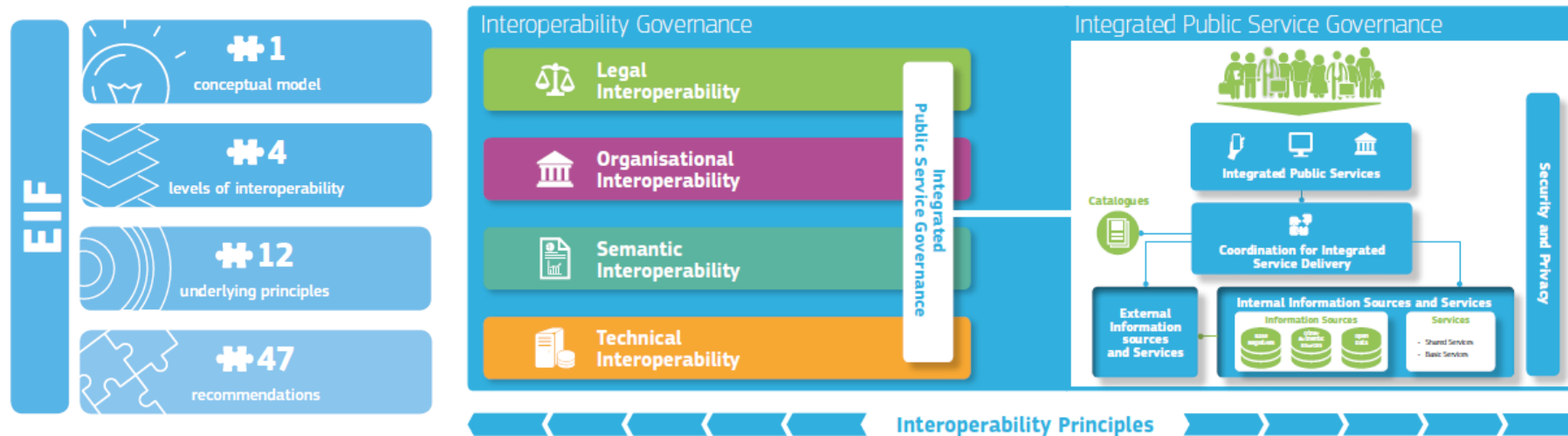


# And if data could talk and understand data?

4 June 2019  
Natalia Aristimuño Pérez  
Head of the Interoperability Unit



# EIF – European Interoperability Framework



## ➤ Recommendation 42:

Publish open data in machine-readable, non-proprietary formats. Ensure that open data is accompanied by high quality, machine-readable metadata in non-proprietary formats, including a description of their content, the way data is collected and its level of quality and the licence terms under which it is made available. The use of common vocabularies for expressing metadata is recommended.

## Proposed solution

For example those included in the DCAT-AP specification developed in the context of the ISA programme.



The ISA<sup>2</sup> programme supports the development of **digital solutions** that enable public administrations, businesses and citizens in Europe to benefit from **interoperable** digital public services.

## Goals of the programme

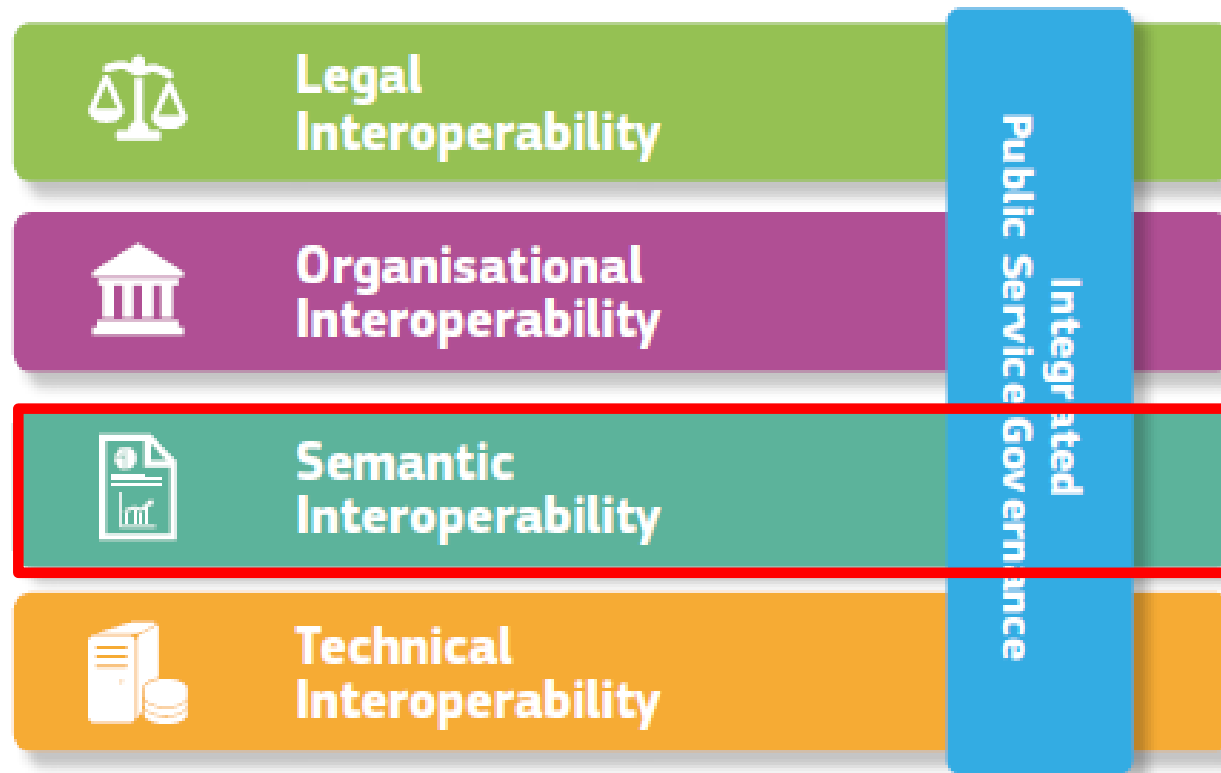
Promote a holistic approach to interoperability

Cross border, cross sector and user centric public administrations

Identify, create and operate interoperability solutions

Facilitate the reuse of interoperability solutions by European public administrations.

## Semantic interoperability





## ISA<sup>2</sup> Action 2016.07 SEMIC: Promoting Semantic Interoperability amongst the EU Member States

Raising awareness on the importance of metadata management.



Identifying opportunities for alignment on semantic definitions, metadata and reference data sources with special focus on identification and definitions of Core Concepts/ Vocabularies.



Promoting, share and reuse of semantic assets, experiences and tools and facilitating agreements in key areas.



## SEMIC specifications

ADMS

DCAT-AP

- Stat DCAT-AP
- Geo DCAT-AP

Core Vocabularies

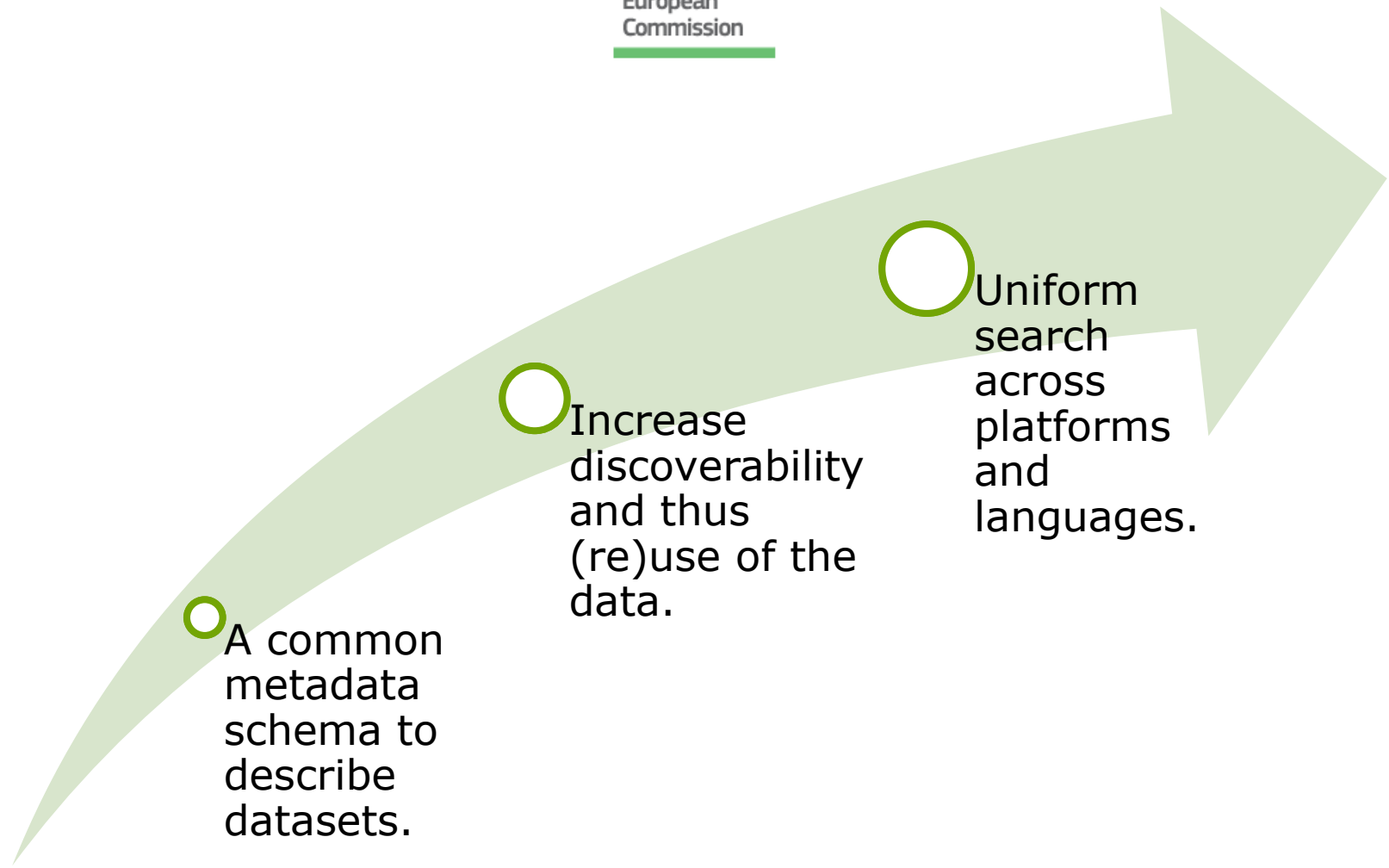
- Person, Business, Location
- Public Service
- Public Organization
- Criterion, Evidence



# DCAT-AP

4 June 2019



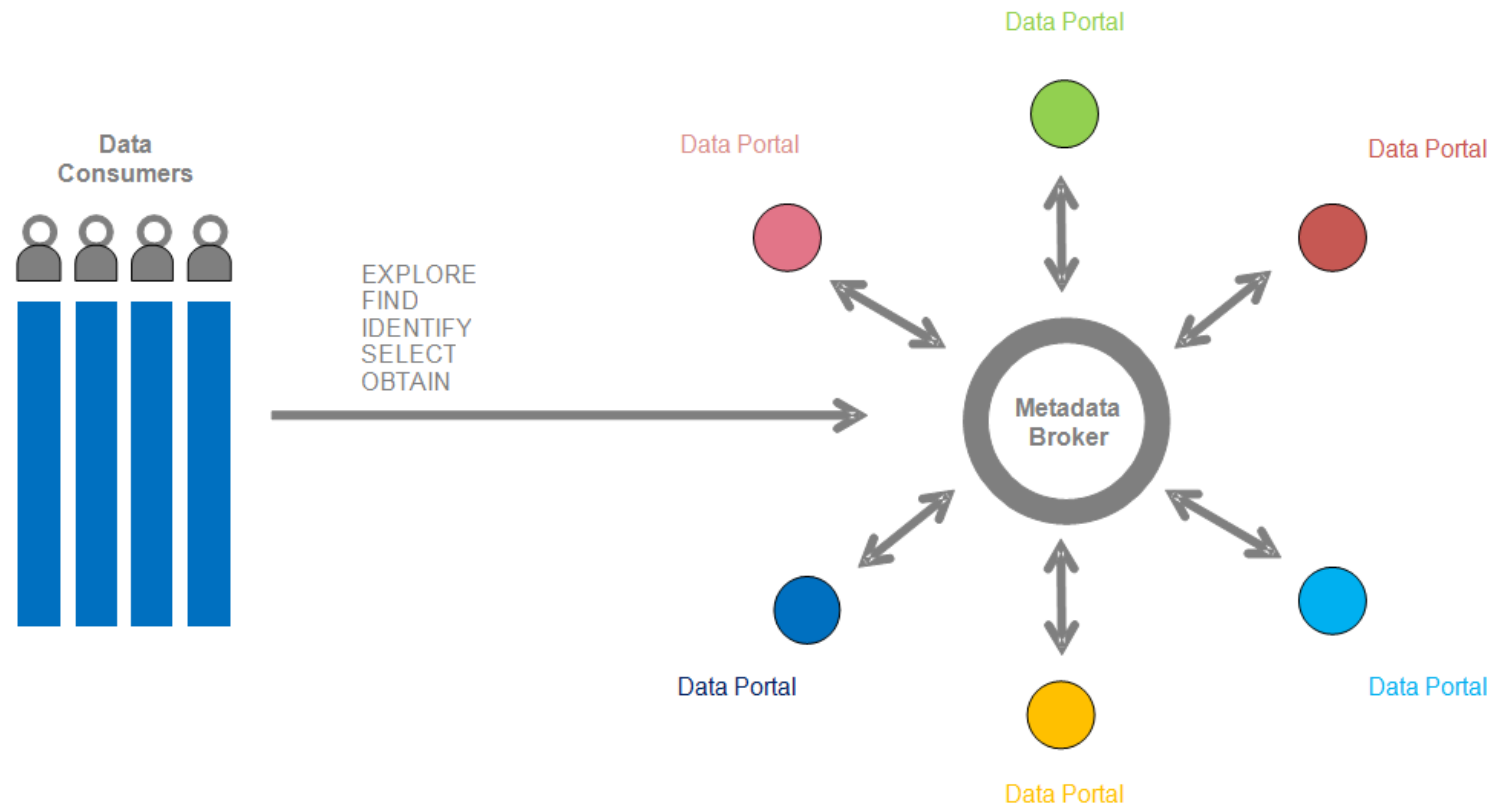


A common metadata schema to describe datasets.

Increase discoverability and thus (re)use of the data.

Uniform search across platforms and languages.

## DCAT-AP enables the exchange of dataset metadata between portals





What's in the specification?

A common vocabulary for describing datasets hosted in data portals in Europe, based on the Data Catalogue vocabulary (DCAT).





# Scottish Road Accident Statistics

dct:title (Dataset)

Data about injury road accidents, accident costs, vehicles involved, drivers and riders, drink-drive accidents, drivers breath tested, casualties and international comparisons.



dct:description

Source agency: Scottish Government

Designation: National Statistics

Language: English *dct:language*

Alternative title: Scottish Road Accident Statistics

## Licence

*dct:license*

UK Open Government Licence (OGL) [OPEN DATA](#)

## Data Resources 2

Key statistics for 2007

2007 Volume

*dct:title (Distribution)*

Details Download

Details Download

*dcat:accessURL*

*dcat:downloadURL, dct:issued, dct:format, dct:description*

## Additional Information

|                       |                                       |
|-----------------------|---------------------------------------|
| Openness score        | ★★★★★                                 |
| Geographic coverage   | Scotland <i>dct:spatial</i>           |
| National statistic    | yes                                   |
| ONS Category          | Travel and Transport <i>dct:theme</i> |
| Temporal coverage     | No value <i>dct:temporal</i>          |
| Date added computed   | No value                              |
| Date updated computed | No value                              |

*dct:publisher*

## Publisher

Scottish Government

### Enquiries:

No details supplied

### FOI Contact:

- Web:

<http://www.whatdotheyknow.com...>

*adms:contactPoint*

## Tags

- accident
- health-well-being-and-care
- road
- road-accidents
- road-safety
- roads
- safety
- transport
- transport-accidents-and-casualties
- travel-and-transport

*dcat:keyword*

## About this dataset

- Added to data.gov.uk: 10/12/2011 *dct:issued*
- Modified on data.gov.uk: 10/06/2013 *dct:modified*
- History of changes
- JSON, API and URI for developers

## Do more with this data

- Share your app
- Share an idea
- Request new data

Tweet Share Google +1



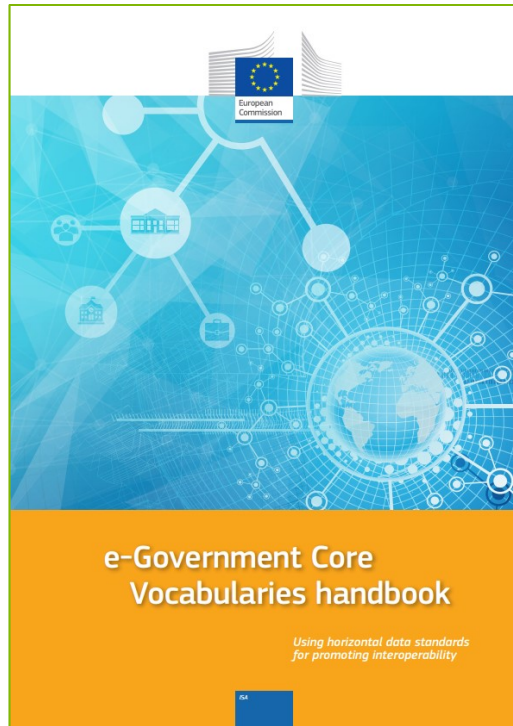
# CORE VOCABULARIES

4 June 2019

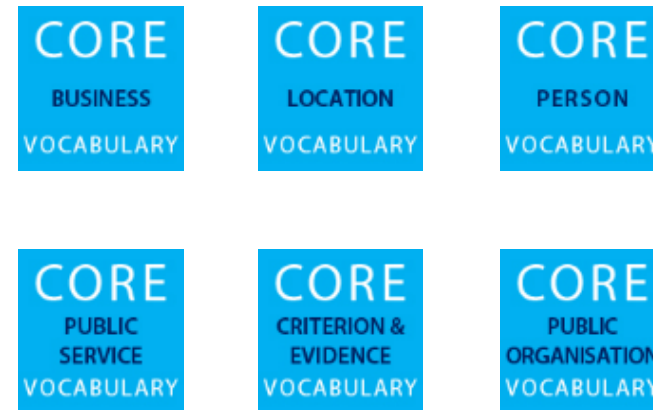
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## Core Vocabularies



**Simplified, re-usable, and extensible** data models that capture the fundamental characteristics of a data entity in a context-neutral and syntax-neutral fashion



4 June 2019

See also:

[e-Government Core Vocabularies Handbook](https://joinup.ec.europa.eu/asset/core_vocabularies/asset_release/core-vocabularies-v20)  
[https://joinup.ec.europa.eu/asset/core\\_vocabularies/asset\\_release/core-vocabularies-v20](https://joinup.ec.europa.eu/asset/core_vocabularies/asset_release/core-vocabularies-v20)





# Sharing & Reuse

CONFERENCE

*11 JUNE 2019*

*BUCHAREST, ROMANIA*

Open.Share.Link





## RECAP

- The European Interoperability Framework is the overarching framework for digital public services interoperability in the EU.
- The ISA<sup>2</sup> programme, as predecessors and successors, supports and develops the EIF.
- An ISA<sup>2</sup> action, SEMIC, has developed specifications (DCAT-AP, ADMS, CoreVocs) allowing *data* to talk and understand data.



## **ISA<sup>2</sup> programme** *You click, we link.* **Stay in touch**

**[ec.europa.eu/isa2](http://ec.europa.eu/isa2)**

 **@EU\_isa2**

 **ISA<sup>2</sup> Programme**

 **ISA<sup>2</sup> Programme**

 **[digit-isa2-comm@ec.europa.eu](mailto:digit-isa2-comm@ec.europa.eu)**

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