• Promoting Semantic Interoperability in Europe

• Open Data
Promoting Semantic Interoperability in Europe
Using Core Vocabularies for Master Data management
“Whole-of-government”

“Once-only principle”

from isolated information silos...

...to Enterprise-wide Information Management and sharing
Core Vocabularies

- People
- Master Data
- Services
- Locations
- Businesses

- CORE VOCABULARY
- CORE LOCATION VOCABULARY
- CORE BUSINESS VOCABULARY
- CORE PUBLIC SERVICE VOCABULARY
- CORE PERSON VOCABULARY
Core vocabularies (aka Core Data models)

Simplified, re-usable, context-neutral and extensible data models for master data entities.
Core Vocabularies

Value

- **New systems**: Core Vocabularies to be used as default starting points for data modeling ensuring cross domain interoperability
- **Existing systems**: Core Vocabularies to be used as reference data models to allow mapping
- **Open Data**: As export specifications for publishing open data
Core Vocabularies

Examples

- **Core Public Service vocabulary:** developing a Catalogue of Service for the Points of Single Contacts
- **Core Business Vocabulary:** developing the EU Business Registries Interconnection System (BRIS)
- **Core Vocabularies:** developing a standard for information exchange among local authorities (OSLO initiative in Flanders)
- Several pilots with the participation of MSs and EC services
Open Data
Creating a European open data ecosystem with the DCAT-AP
Open Data

Public Sector Information
from National Closed Documents...

...to European Open Data
Open Data initiatives...

- promote transparency
  - promoting accountability by providing the public with information about what the Government is doing
- allow the creation of new, innovative, added-value services
  - enabling the mash up of existing data in unforeseen ways
- accelerate scientific progress
  - to meet the challenges of the 21st century in scientific discovery and learning
- improve the quality of decision-making
  - providing the means for evidence-based policy development
- foster collaboration across government and beyond
  - improving effectiveness by encouraging partnerships and cooperation across levels of government, and between the Government and private institutions
Open Data

As-Is

• +150 Data Portals in EU
• Different metadata
• Limited accessibility

To-Be

Pan European Data Portal
A single point of access
2013: pilot of a pan-European Open Data Portal

2015-2020: progressive implementation as one of the CEF (Connecting Europe Facility) Infrastructures (Open Data)
The DCAT Application profile (DCAT-AP) is a common template to describe public sector datasets and data catalogues.

- It is based on the W3C DCAT standard.
- It is the common European standard for open data.
Take home messages...

- **Information Management**
  - Enterprise-wide Information Management and Master Data Management as prerequisites for enabling the "Once-Only Principle"
  - **ISA Core Vocabularies** as standardized data models for master data

- **Open Data**
  - The need for common open data descriptions: the **DCAT-AP**
Contact us

vassilios.peristeras@ec.europa.eu

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