THE ROLE OF DATA STANDARDS IN SEMANTIC INTEROPERABILITY

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Rethinking Information Systems

Data Standards

ISA\(^2\) work for Data Standards

Take home messages
Information Systems
Information Systems

- IT is a means not an end
- Information is neither an IT nor an IS by-product
- Information Management should become a Core Corporate policy
• We do a lot for IT management
• What about information management?
• We do a lot with IT standards
• What about data standards?
Rethinking Information Systems

Data Standards

ISA² work for Data Standards

Take home messages
Data standards:
Social agreements on how we describe the world
Data standards suffer from domain and country-based fragmentation.
We need universal data standards
in a similar way
we need universal technology standards
Rethinking "Information Systems"

Data Standards

ISA² work for Data Standards

Take home messages
What organisations should do with Data Standards...

- Create/Identify
- Implement
- Assess
- Document

ISA² work for Data Standards
ISA² work for Data Standards

How ISA² can help you with Data Standards...

- Core Vocabularies and ISA specs
- European Interoperability Framework
- EU Cartography
- EU Catalogue of Standards

Create/Identify

Assess

- CAMSS
- Interoperability Maturity Model (IMM)
How ISA² can help you with Data Standards...

Implement
- European Interoperability Strategy (EIS)
- European Interoperability Framework (EIF)
- Methodologies & Tools

Document
- ADMS
- DCAT-AP, GEO/DCAT-AP, STAT/DCAT-AP
- EIRA
Rethinking "Information Systems"

Information and Data Standards

ISA/ISA$^2$ work for Data Standards

Take home messages
Agency level

- Refocus on the "I" part of your "Information System"
- Use existing data standards, do not start your data model from scratch (no excuse!)
- Find standards in catalogues/Joinup
- Assess candidate standards using CAMSS
- Check ISA² methodologies and tools for data standards

National level

- Implement the EIF recommendations on information management/standards
- Use DCAT-AP for publishing open data
- Create Core Data Standards by reusing the ISA Core Vocabularies
- Create national catalogues of data standards
- Document and publish your standards using ADMS to describe them
- Contribute and support international data standards initiatives
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