

Interoperability Workbench and National Metadata Architecture

Riitta Alkula 15.11.2019

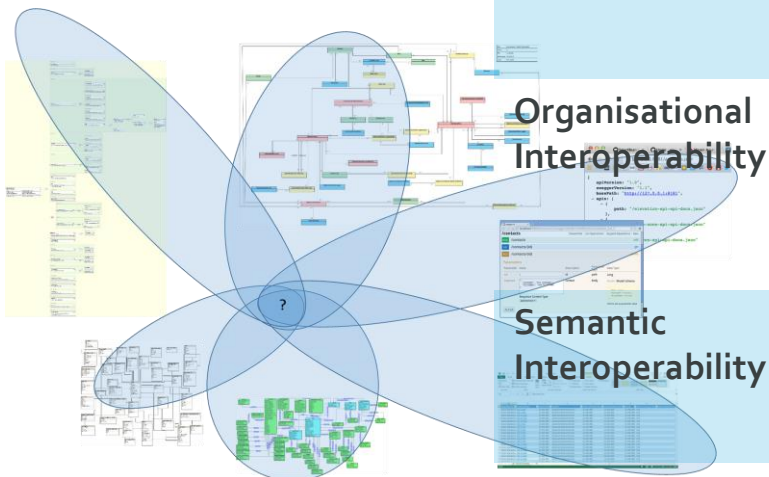
(Suvi Remeksen aineiston pohjalta)



The Joint Metadata and Information Management Key Project (2016-2018)

- The “once-only” principle applied to government information requests; using said information for various legitimate purposes.
- Reinforcing citizens’ right to access their own information (MyData principles) and officials’ access to information for official use.
- A management solution for the core and metadata in the public administration to be implemented; publishing of and easy access to open public data will be improved (incl. National Metadata Service).
- This work was funded and steered by the Ministry of Finance. The operative responsibility is in the Population Register Centre, in partnership with CSC – IT Center for Science and the National Library

Promotes Interoperability on all its Levels



Legal Interoperability

- Act on Information Management Governance in the Public Sector (2011) >> Information Management Act (into force 2019)
- Possibilities to support “vertical” semantic interoperability by providing semantic resources suitable both for law drafting and ICT development

Organisational Interoperability

- From duplication of effort to consistent workflow and use of shared platform as a support service
- Decentralised governance model and responsibilities
“Circular metadata economy” – boosting trust on resources others have produced & fellow-modellers

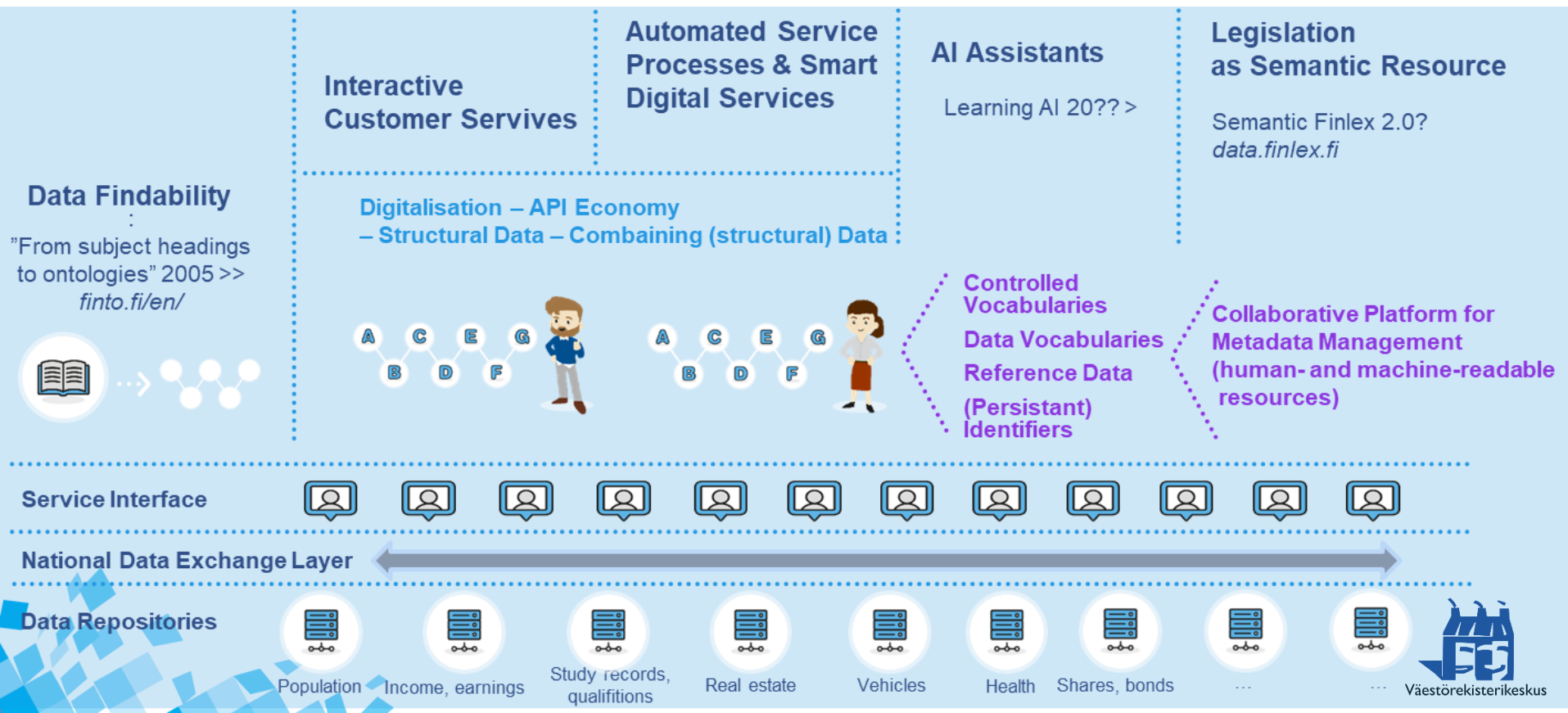
Semantic Interoperability

- Method to define technology independent documentation for all type of data representations
Method to define data semantics by systematic use of terminological concept analysis (ISO 704)

Technical Interoperability

- Support for bridging (semantic) data content documentation with (JSON & XML) technical schemas

Building Digital Information Infrastructure



Tool for maintaining (terminological) controlled vocabularies and defining concepts.

Controlled Vocabularies

<http://sanastot.suomi.fi>

Modern platform for collaborate metadata management. Based on Linked Data principles and W3C technical standards and semantic technologies.

Formal linkages between metadata elements based on machine readable URIs.

Metadata as human and machine readable data web – turning in future into a smart data catalog.

Inter-operability Platform

Integrated set of tools or use of one part of it – depending on the need

Reference Data

Tool for maintaining and publishing code lists and reference data.

<http://koodistot.suomi.fi>

Data Vocabularies

Tool for maintaining and publishing data vocabularies and data models. A tool for shared data vocabulary libraries and application profiles for data semantics of APIs and other various data resources.

<http://tietomallit.suomi.fi>

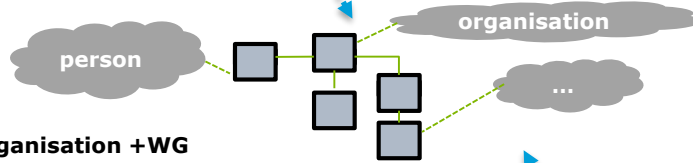
Planned Governance Model

International level



National level (Core Data Vocabulary + Terminological Vocabulary)

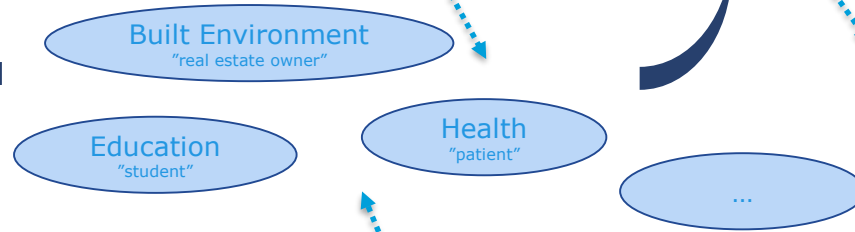
Steering: Ministry of Finance
Operational work: responsible organisation + WG



generalised
harmonised

Cross-organisational level (Thematic Core Data Vocabularies + Terminological Vocabularies *N)

Steering: Ministries
Operational work: responsible organisation + collaboration groups/players/WGs



Applying rule:
"No resource
without administrator"

Organisational level (Application Profiles, Technical Specifications)

applied,
specified



Digitaalisen yhteiskunnan – yhdessä rakentamamme



*Datamodel is more than a
visualisation.*

*It is linked data:
a collection of uniquely identified
resources, collectively defined and
used.*



Anatomy of the namespace and ID

Model ID / prefix

Namespace	Tool	Class	Attribute
https://tietomallit.suomi.fi/model/dt/Opiskeluokeus/			
https://tietomallit.suomi.fi/model/dt/Opiskelija/			74a39cbb-1250-4a16-ae97-86a4601a39cf

Tilakoodit

- *Keskeneräinen*
- *Luonnos*
- Voimassaoleva
- Korvattu
- Poistettu käytöstä
- Virheellinen
- Mahdollisia lisäyksiä:
 - Suositus
 - Ehdotus

Kuvaukset: <https://vrk-ewiki.eden.csc.fi/display/YTIJD/12.+Koodiston+ja+koodien+tilat>

Kiitos!



Ota yhteyttä!

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