

## Interoperability Platform & Method

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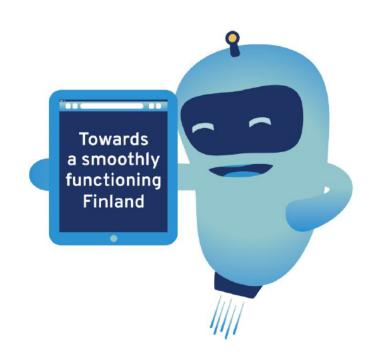
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## Background



# Why interoperability: The Once-Only Principle

- Citizens and businesses often have to provide the same information multiple times when interacting with public administrations.
- In EU, the Once-Only Principle (OOP)
  will enable public entities to share
  citizen data with each other, so that
  people using any public services only
  have to enter their information once.
- The target is to reduce administrative burdens on citizens and businesses
- With the help of OOP, public administrations in Europe can share data that people have already supplied, in a transparent and secure way.



Source:

https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Once+Only+Principle





# Finnish government activities implementing EU directives on the reuse of information

### The Joint Metadata and Information Management Key Project

- National application and implementation of the European Interoperability Framework (EIF)
- A two-year project in 2016 2018, funded and steered by the Ministry of Finance
- The "once-only" principle applied to government information requests: using said information for various legitimate purposes
- The project had two focus areas:
  - the Interoperability Method, which is a management solution for the core and metadata in the public administration, and
  - the national metadata service called as the Interoperability Platform

## Public Information Management Act (Informationshanteringslagen)

- Ministry of Finance presented Act on Information Management in Public Administration. The law was passed by Parliament in 2019.
- The authorities shall implement electronic disclosure of regular and standard information between information systems via technical interfaces.
- The description of the data structure of such technical interface is determined and maintained by the authority that discloses the information.





# The Interoperability Platform and Method



## Interoperability platform is the place to be!

**Comments** 

Tool for maintaining (terminological) vocabularies and defining concepts.

http://sanastot.suomi.fi

Terminologies Reference Data Tool for maintaining and publishing code lists and reference data.

http://koodistot.suomi.fi

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 identifiers, URIs.

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

Integrated set of tools; can be used separately or as a suite of tools

Interoperability

**Platform** 

Data Vocabularies

Tool for collecting comments and feedback from stakeholders.

http://kommentit.suomi.fi

Tool for maintaining and publishing data vocabularies and data models.

A tool for shared data vocabulary libraries and application profiles for data semantics of application programming interfaces (API) and various other data resources.

http://tietomallit.suomi.fi





About the system Project VOOKA Data content Contact us

#### A new home for information on the built environment

Key information on the Finnish built environment is being brought together in a new national information system. Having a common system and shared operating practices will make information management clearer and simpler. Having higher quality information also contributes towards effective planning and decisionmaking for a sustainable living environment.



#### The information system is now being built

The built environment information system will be implemented through extensive cooperation. The reform will serve to carry forward Finland's digital vision.



Front page → Data content

#### Data content of the system

The information submitted to the built environment information system will comply with jointly agreed technical requirements, meaning that it uses the standardised national data models.

The data is generated in the basic work of municipalities and regional councils and, as a rule, is submitted to the national information system via an interface in as automated a manner as possible.

The submission of the data has been possible since the beginning of 2024, and the relevant legislation specifies the transitional periods and deadlines for submission of different data.

## Construction data that will be submitted to the system

- building permit
- demolition permit
- landscaping permit
- deviation decision
- building code (PDF-format in 2024, data-model format at a later date)

#### Transition period provides flexibility

The Construction Act will enter into force on 1 January 2025. Municipalities must submit their construction-related data to the information system no

#### Area use data

- local detailed plan
- local master plan
- regional plan
- urban land use plan (PDF-format in 2024, data-model format at a later date)
- building prohibition
- building restriction
- restriction on action
- area requiring planning

In the future, planning data will be produced in Finland using a nationally interoperable, spatial data-based planning data model and will be stored in the built environment information system. The digitalisation process will not change the roles of land use planning.

#### **Transition period provides flexibility**

The law requires municipalities and regional councils to submit new land use plans and other data on area use to the national built environment information system. The data can be submitted from 1 January 2024 onwards, and must be provided no later than 1 January 2029.

#### Data content will expand later on



Datasystemet för den byggda miljön

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Till Ryhti-tjänsten 🗹

Tjänster 💟

Information om systemet (V



Områdesanvändning (V



Byggande (V



Anvisningar och stöd (



Exempel (

Förstasidan ->

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Anvisningar och stöd



Datamodeller

## Datamodellerna för den byggda miljön

Datamodellerna för den byggda miljön styr byggandet av datasystemen och databaserna. Datamodellen är ett sätt att beskriva information och relationerna mellan information. Till systemet skickas information i enlighet med samma nationella datamodeller.

https://ryhti.syke.fi/sv/ohjeet-ja-tuki-sv/datamodeller/



## European Interoperability Principles (EIF) in the Built Environment

Information
Management Act
(906/2019, 6 \$)

"Each ministry shall, within its own mandate [ - - - ] maintain the general strategies to promote the interoperability of shared information pools and information systems."

## Legal Interoperability

Reform of the Law on Land Use
Planning and Construction & Law
on the Built Environment
Information System

Present or future legislation promotes interoperability

## Semantic Interoperability

Common Data Models, Terminologies and Code Lists

Preservation of the Precise Meaning and Form of Data, Data is Understood in the same way Integrated Public Services

Built Environment Information System

Standardization

Enterprise Architecture

## Technical Interoperability

Interfaces between the BEIS and other information systems

## Organizational Interoperability

Common Processes & Memos of Desired State

Documenting and
Digitalization of Business
Processes and the Data
flowing in these

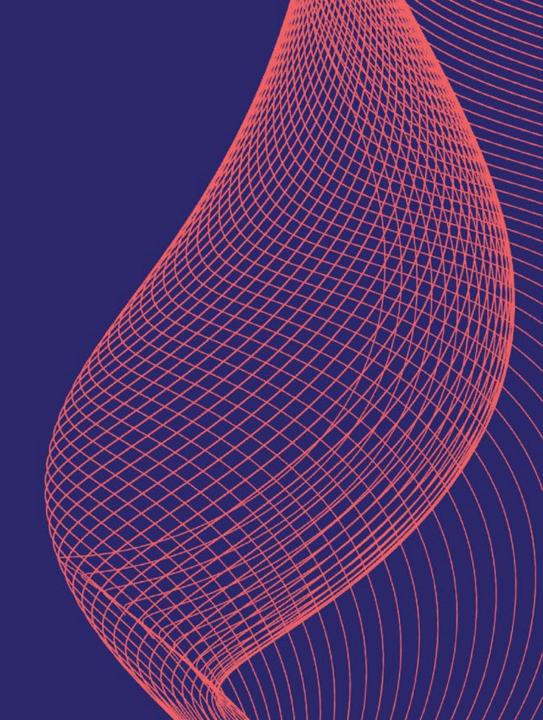
Applications and Infrastructure that binds together IT-systems and Services are interoperable

# SA D Reliability and Data Quality - Deliverables and (Nordic) added value

NSG&B Final Programme Meeting Iceland 22-23 May 2024



## **Deliverables from SA D**



## **Overall achievements**

- Basic Information about businesses, including HVD NACE codes (Activity of the business description) and Tax information
- Signatory rights
- API requirements, API specifications
- PoC on EU Company Certificate
- Nordic Government API and implementation in four Nordic countries
- API integration between the Nordic countries

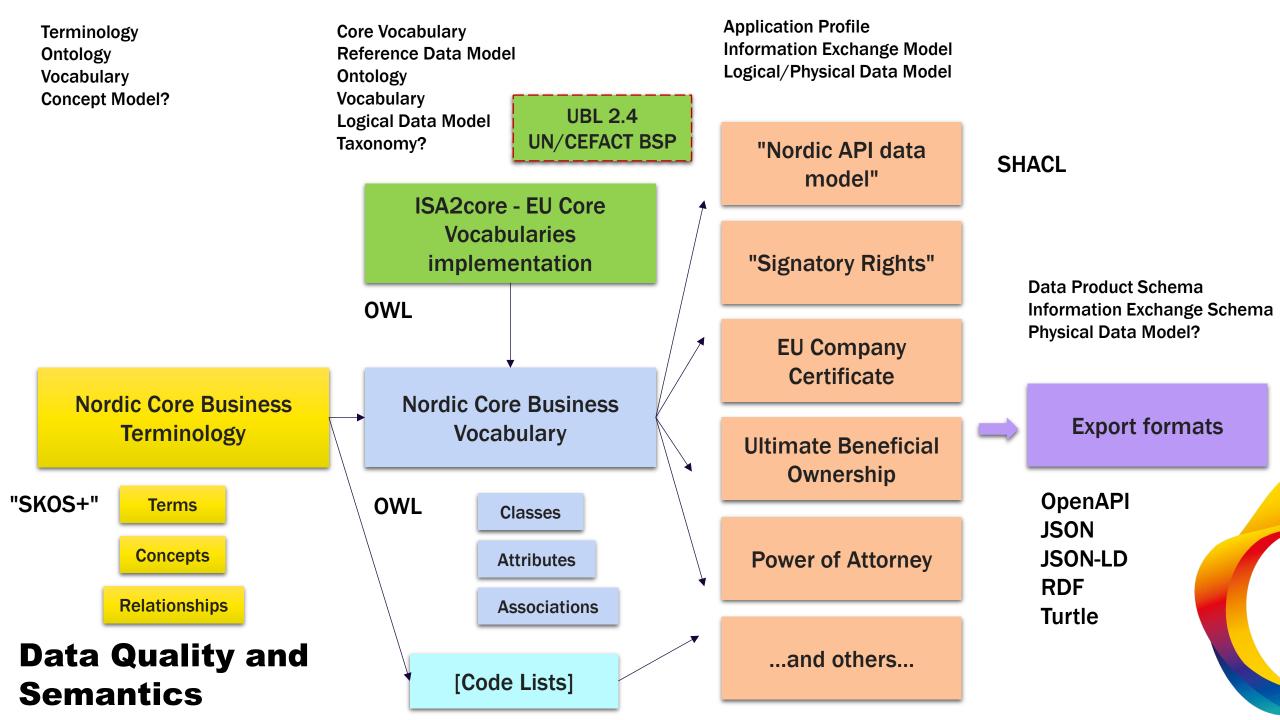


## Stakeholders affected

- ERPs, System Providers, Service Providers offering value added services etc.
- SMEs
- Authorities working with semantics related to different EU initiatives or reusing the API spec.

The work will continue.....





Front page

Tools 🕶

Information about the service

Terminologies > Nordic Core Business Terminology > legal form



CONCEPT · NORDIC CORE BUSINESS TERMINOLOGY · Draft

#### URI

https://iri.suomi.fi/terminology/nbvoc/concept-16

#### Terms

FI	oikeudellinen muoto	Preferred term, Draft
EN	legal form	Preferred term, Draft
DA	juridisk selskabsform	Preferred term, Draft
NB-NO	organisasjonsform	Preferred term, Draft
SV-FI	juridisk form	Preferred term, Draft
SV-SE	juridisk form	Preferred term, Draft

#### Definition

EN a legal structure according to national legislation

#### Note

Reason for a definition that is different from the EU Core Business Vocabulary:
 EU Core Business Vocabulary is using "Legal form type" = The classification of the Legal
 Entity as a member of a particular group in the context of legal registration.
 We are defining the concept legal form

#### Organization

Finnish Tax Administration

#### Created at

28/01/2022, 15.33

#### Relationship information

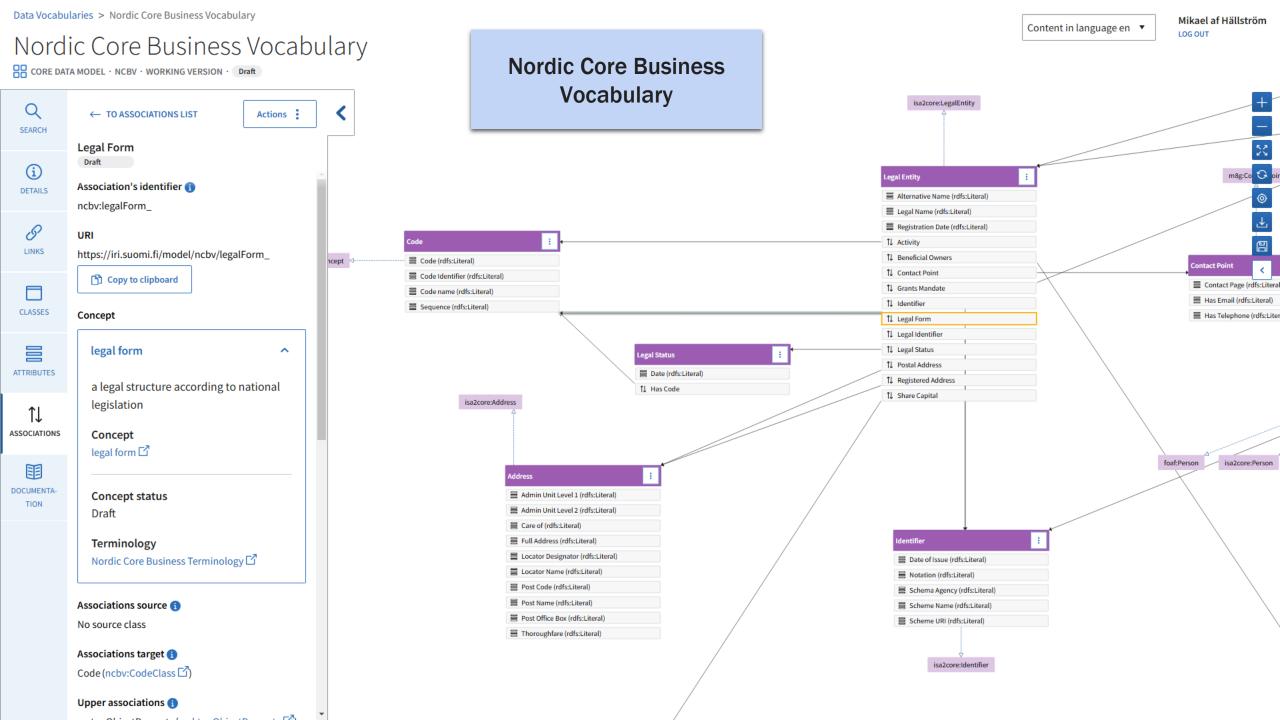
#### Related concept

agent

#### Member of collection

> NSG&B 2024 version

Nordic Core Business Terminology



**Data Spaces** 



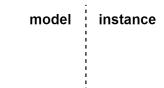


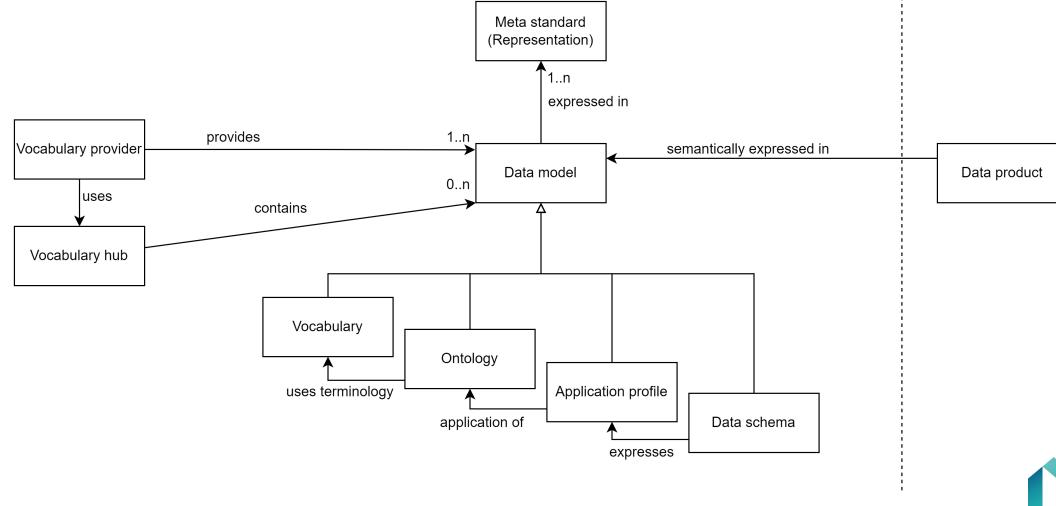
# Data Spaces Blueprint v. 1.0

- The Blueprint is a consistent and comprehensive set of guidelines to support the development cycle of data spaces. It includes the conceptual model of a data space, data space building blocks, and recommended standards and specifications.
- A data space is a distributed system defined by a governance framework. It facilitates secure and trustworthy data transactions between participants, emphasising trust and data sovereignty. A data space supports one or more use cases.
- More information: <u>https://dssc.eu/space/BVE/357073006/Data+S</u> paces+Blueprint+v1.0



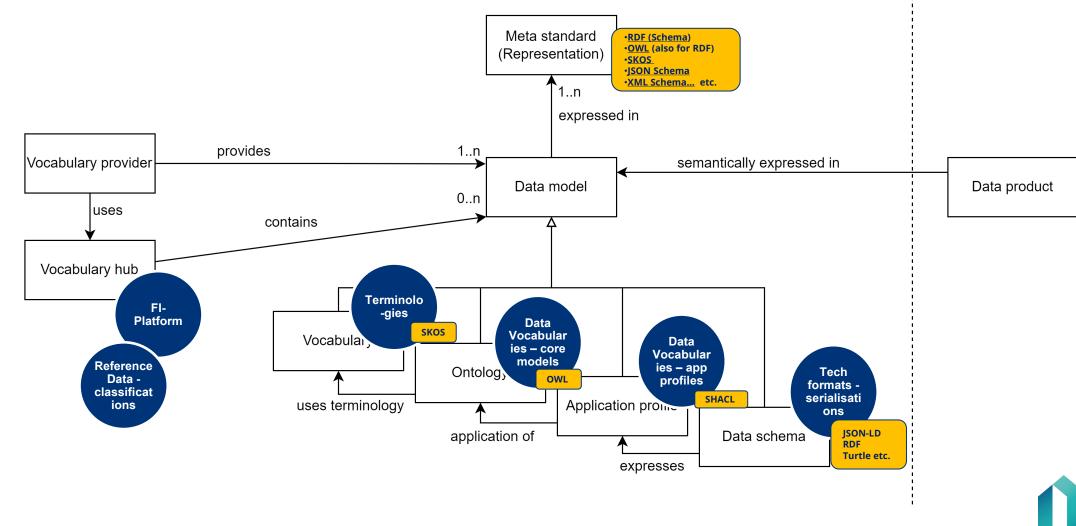
## Data Spaces: Conceptual model of the **Data Models Building Block**





# Data Spaces Blueprint vs. the Finnish Interoperability tools

26.2.2025



model

instance

## **EUDI Wallets for Individuals and Businesses**

EWC and WE BUILD LSPs

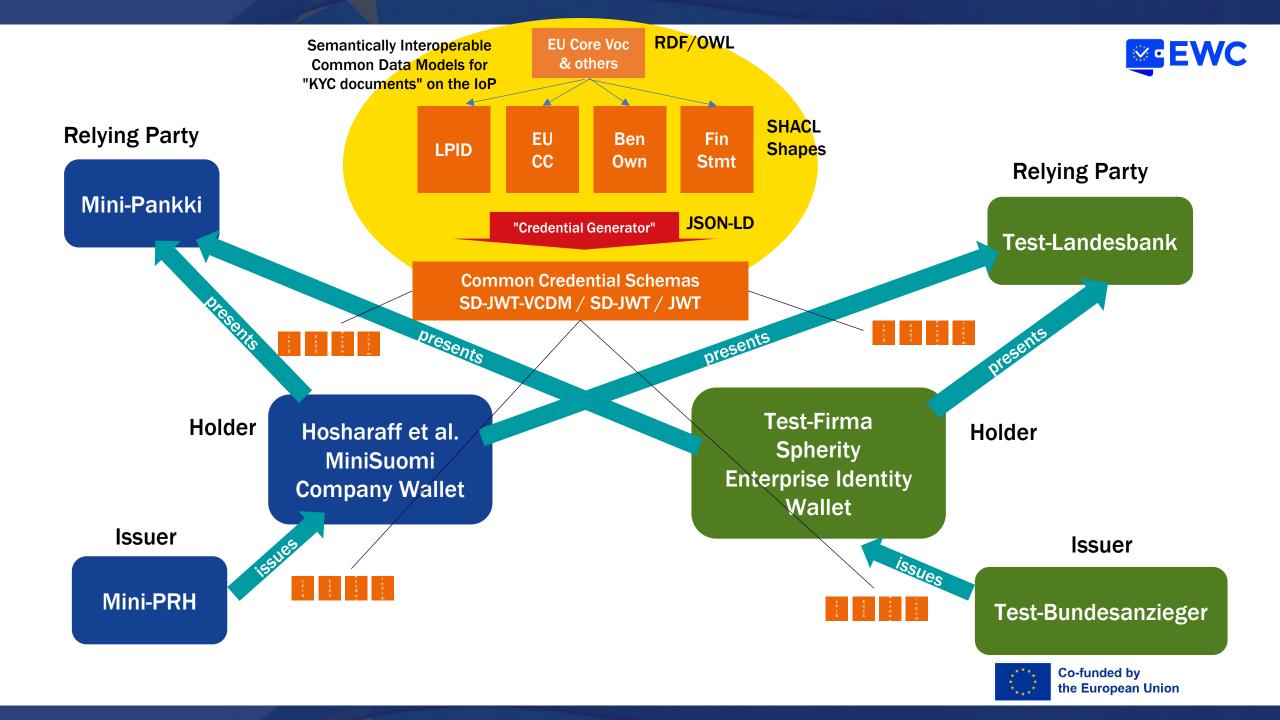


## **EWC KYC -pilot Germany-Finland & others**

Mikael af Hällström

Finnish Tax Administration **EWC** 



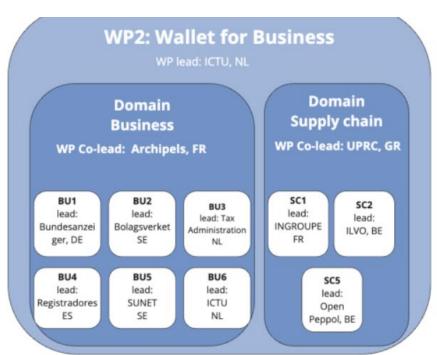




WP lead: Bolagsverket, SE

Ecosystems Forum (including domain specific) Forum lead: lzertis ES

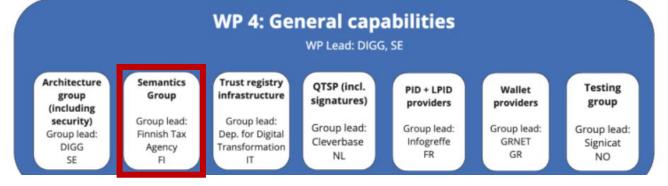
Member States Advisory Forum Forum lead: BMDV DE











Norwegian participants:

BankID BankAxept AS

Direktoratet for forvaltning og økonomistyring Signicat AS

The Brønnøysund Register Centre /(BRC)

The Norwegian Digitalisation Agency (Digdir)



