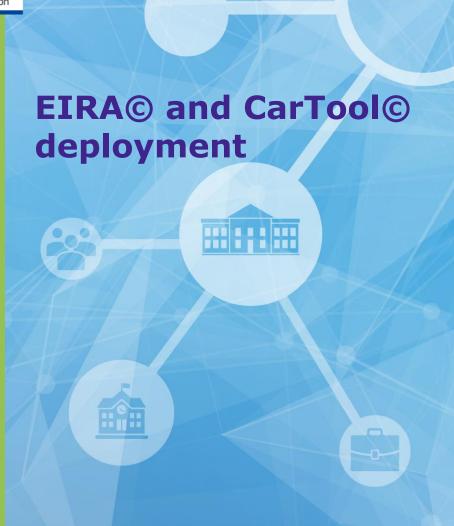


EIRA local workshop – Ministry of Finance (Finland)

16th October 2019

Dr. Raul M. Abril
EUROPEAN COMMISSION

Directorate-General for Informatics (DIGIT)



Disclaimer



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EIRA workshop 16th October - Agenda



- 1) 08:30 09:00 Welcome coffee
- 2) 09:00 09:20 Workshop opening
- Workshop opening
- Introduction of National Goals in Finland
- 3) 09:20- 09:50 EIRA/CarTool Introduction
- Overview of the EIRA© and Archi/CarTool©
- 4) 09:50 10:20 EIRA/CarTool use case for Finnish Public Administration (Part 1)
- Presentation of the addressed Use Case: "Document the Ecosystem of Digital Death Detailed-level
 Interoperability Requirements SAT"

BREAK (15 minutes)

- 5) 10:35 12:00 EIRA/CarTool use case for Finnish Public Administration (Part 2)
- Technical interactive session: consolidation and validation of the modelled solution with Archi© Focus on Legal and Organizational views
- Q&A

LUNCH (1 hour)

EIRA workshop 16th October - Agenda



6) 13:00 - 14:00 EIRA/CarTool use case for Finnish Public Administration (Part 3)

- Technical interactive session: consolidation and validation of the modelled solution with Archi© Focus on Semantic view
- Q&A

7) 13:00 - 14:00 EIRA/CarTool use case for Finnish Public Administration (Part 4)

- Technical interactive session: consolidation and validation of the modelled solution with Archi© Focus on Technical and Infrastructure view
- Q&A

COFFEE BREAK (15 minutes)

- 8) 15:15 15:45 CarTool v3.0.0 hands-on session
- Hands-on session: how to use the new CarTool release in practice
- 9) 15:45 16:30 Wrap-up
- Wrap-up on the implemented use case
- Q&A



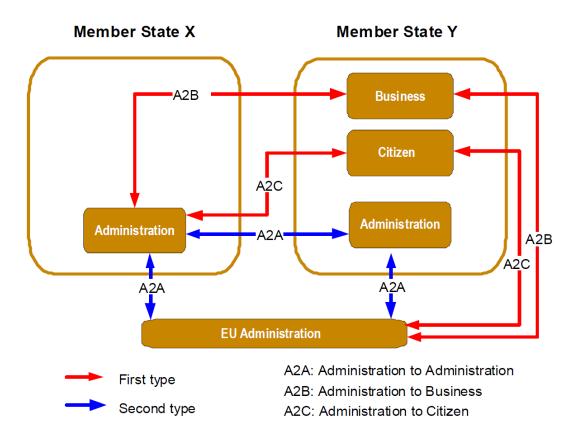
Section 1: Workshop opening



Section 2: **EIRA/CarTool Introduction**

Scenarios





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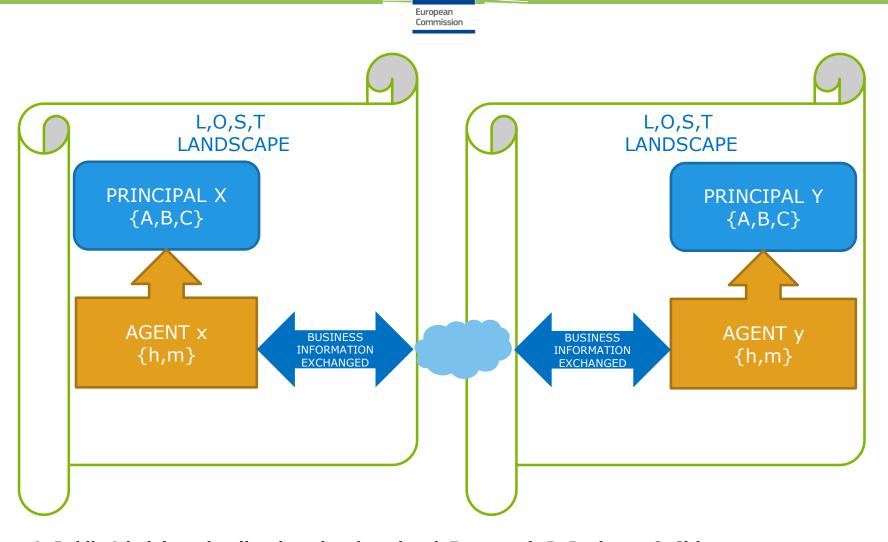
Example of European Public Service

Sector/Area	Service
Business development (A2B, A2A)	Start-up of a company
	Public procurement
	Registration of patents, trademarks, designs
	Consumer protection, labelling, packaging
Certificates and	Birth and marriage
licenses (A2C)	certificates
	Driving licences
	Passports, visas
	Residence and working permits
	Car registration
Education (A2C)	Enrolment in schools and universities
	Study grants
Taxes for citizens (A2C)	Online Tax

Sector/Area	Service
Social security (A2C)	Information service for social security systems Unemployment benefits Child allowances
	Pensions Public health insurance
Supply of statistical data (A2B, A2A)	Tax for businesses VAT refunding Information on tax incentives Declaration of excise goods
Work (A2C)	Recognition of qualifications and diplomas Job search
Customs (A2C, A2B, A2A)	Information on Customs duties Customs declarations

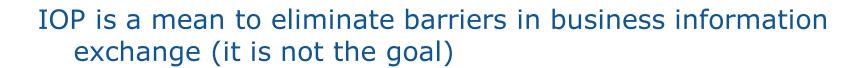
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The IOP challenge: lost landscapes of agents

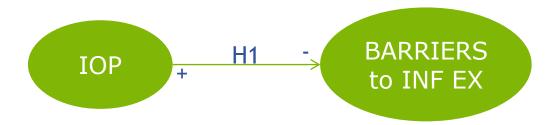


A: Public Administration (local, regional, national, European); B: Business; C: Citizen

Business case for IOP in e-Government



H1: "There is a negative correlation between IOP and barriers to business information exchange"



Business case for IOP in e-Government

IOP is the independent variable [of performance/economic cost variables]

H2: "There is a positive correlation between IOP and [performance variable] (i.e. # requests/hr) of public service delivery to public administrations citizens and businesses"

H3:"There is a negative correlation between IOP and [economic cost variable] (i.e. # rejection cost) of public service delivery for public administrations, businesses and citizens"

citizens"

H2

PV

H3

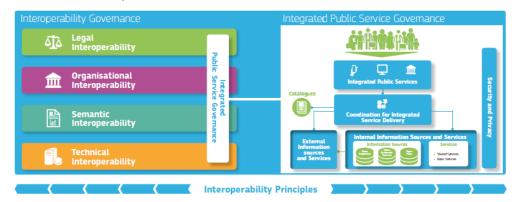
EIRA Value proposition



EIRA

EUROPEAN INTEROPERABILITY REFERENCE ARCHITECTURE

The revised EIF Conceptual Model





ASSESSING EIF CONFORMANCE IN PUBLIC SERVICE



ASSESSING EIF CONFORMANCE IN SW COMPONENT





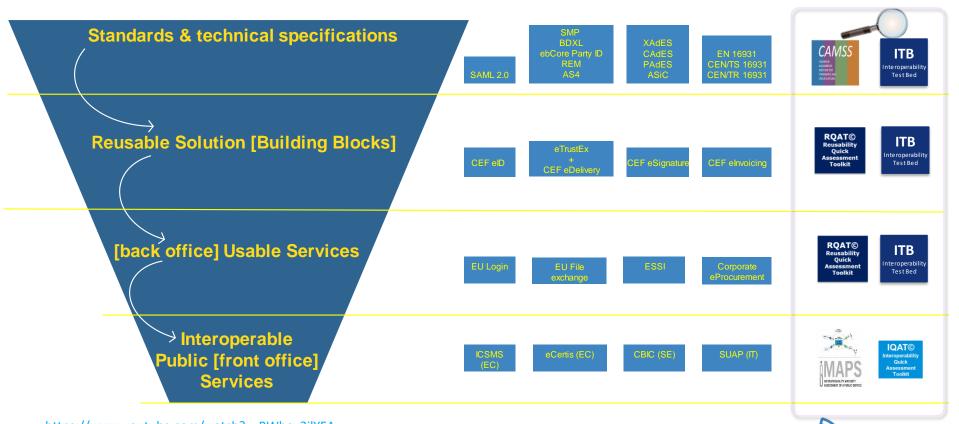


ASSESSING STANDARDS

EIRA supports **EIF** implementation (*)







https://www.youtube.com/watch?v=RWhoy3ilYEA https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/about (*) DECISION (EU) 2015/2240 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL





Why EIRA? ISA2 legal bases (*)

EIRA
EUROPEAN
INTEROPERABILITY

ARCHITECTURE



".... The ISA²programme shall support and promote:

f) the mapping and analysis of the overall interoperability landscape in the Union through the establishment, maintenance and improvement of the EIRA and the EIC as instruments to facilitate the re-use of existing interoperability solutions and to identify the areas where such solutions are still lacking;

Commission

(g) the maintenance, updating, promotion and monitoring of the implementation of the EIS, the EIF and the EIRA



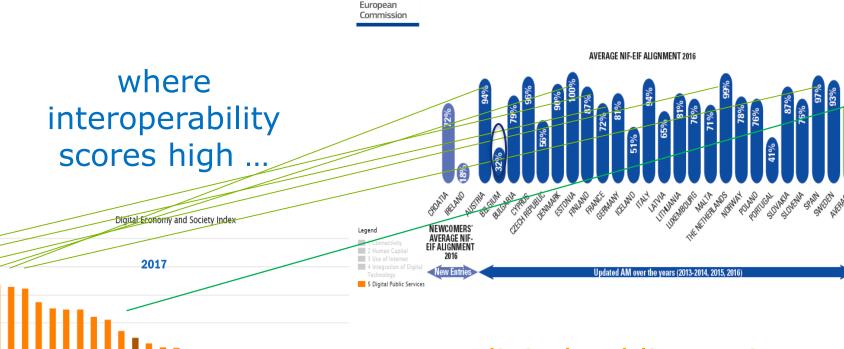




- ✓ Architecture content metamodel
- ✓ Defining the most salient architectural building blocks (ABBs) needed to build interoperable solutions supporting public services
- Each ABB models a decoupled functionality
- ✓ Result of a collaborative effort of MS
- ✓ As any RA
 - Has a focus: Interoperability
 - Has an Reference Model/Ontology: ArchiMate ©
 - Has an Architecture Style: SOA

Digital public services - Current landscape

Copy the first of the state of



...digital public services score high







DIGITALISERINGSSTYRELSEN



RIIGI INFOSÜSTEEMI AMET

BO

DG Digitale Transformatie
FOD Beleid en Ondersteuning

DG Transformation digitale SPF Stratégie et Appui



Direktoratet for forvaltning og IKT



AgID Agenzia per l'Italia Digitale



MYNDIGHETEN FÖR
DIGITAL FÖRVALTNING
Agency for Digital Government

ISA²

17

EIRA v3.0.0 High-Level viewpoint

EIRA

EUROPEAN INTEROPERABILIT REFERENCE ARCHITECTURE

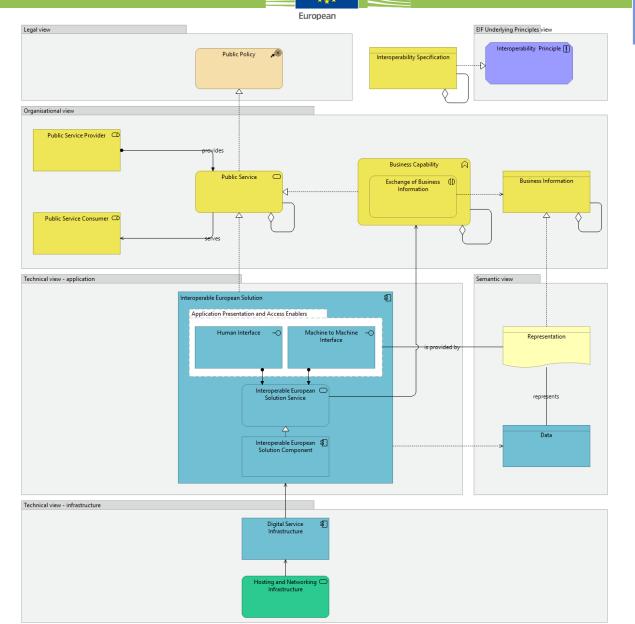
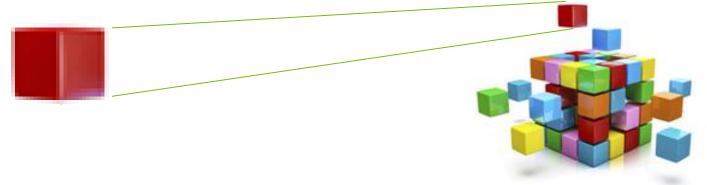




ABB salient for the interoperability

Public service interoperable

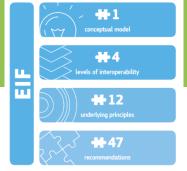


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Interoperability saliency in an ABB means

- ✓ The ABB is a [key] interoperability enabler because [...] and/or
- ✓ The ABB is salient for [legal | org | semantic | tech] interoperability because [...]

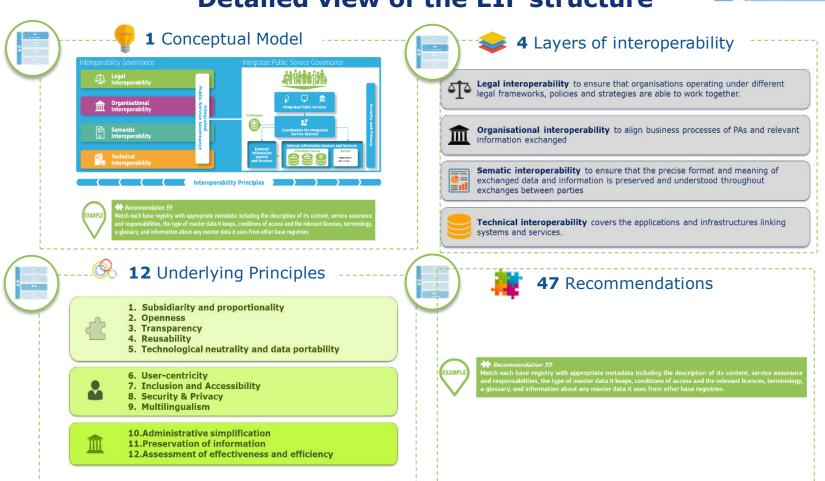
Presentation of the European Interoperability Framework (EIF)



Detailed view of the EIF structure

European

Commission



EIRA© EIF Alignment



EIRA

EUROPEAN
INTEROPERABILITY
REFERENCE
ARCHITECTURE

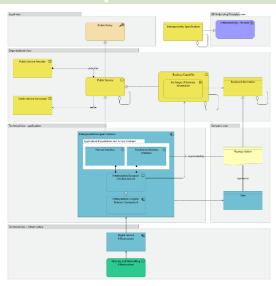
EIF

Framework and principles



EIRA[©] v3.0.0

Implementation guidelines and specifications



EIRA value proposition





The European Interoperability Reference Architecture (EIRA) is an architecture content metamodel defining the most salient architectural building blocks (ABBs) needed to build interoperable eGovernment systems. The EIRA provides a common terminology that can be used by people working for public administrations in various architecture and system development tasks.

EIRA use cases

Design

Accelerate the design of systems that support the delivery of interoperable digital public services (across borders and sectors)

Assess

Provide a reference model for comparing existing architectures in different policy domains and thematic areas, to identify focal points for convergence and reuse

Communicate & Share

Help documenting the most salient interoperability elements of complex systems and facilitate the sharing of reusable solutions

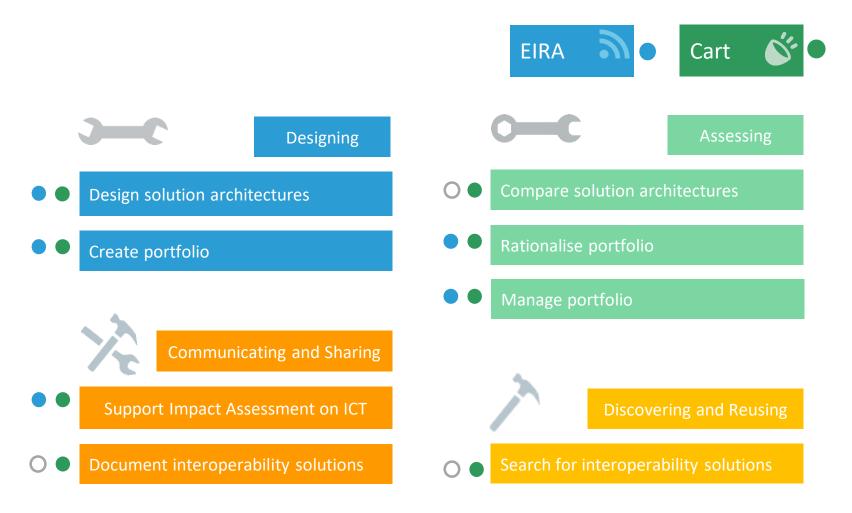
Discover & Reuse

Ease the discovery and reuse of interoperability solutions through the TES Cartography using the CarTool

Available at: https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/about

Potential use cases

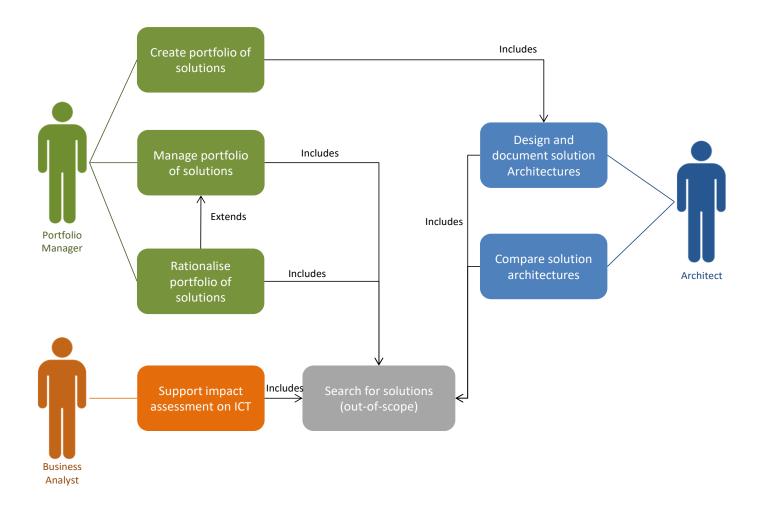




Value of EIRA from different, viewpoint

Target users and their use cases within the EIRA©





What is the CarTool



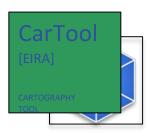
A solution owner or an service acting on his/her behalf uses the CarTool in any of the use cases. He/She might work on the basis on the documentation on an existing solution



The CarTool is the response of the EC to a request of the MS In order to allow them to document solutions in compliance to EIRA lis an open SW pluggin developed for the ARCHI SW

Documentation on a Solution in production





The CarTool supports 1) to design, document and search solutions according to EIRA and 2) to export descriptions of solutions in MEF standard format



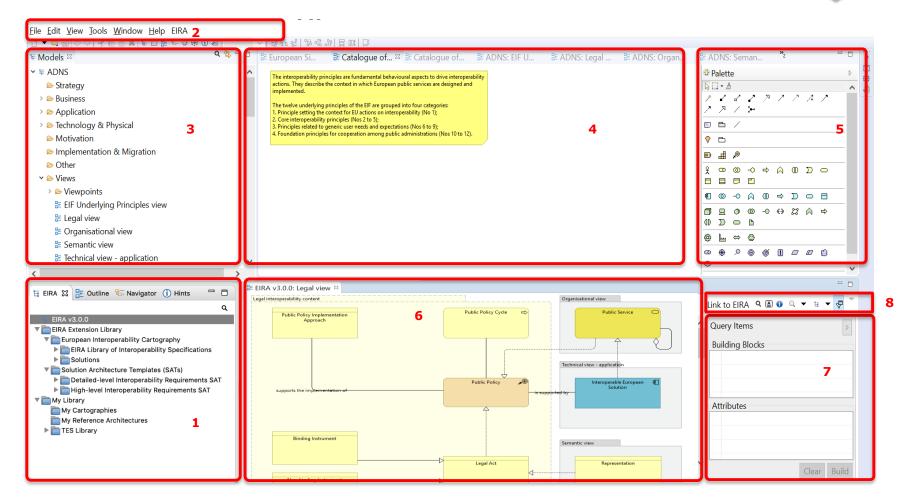


A cartography is the outcome of mapping/decomposing existing solutions or documenting new ones against a taxonomy (EIRA in our case)

CarTool Overview







Navigation online of EIRA ABBş description using **Persistent URIs (PURIs)** European Commission Public Policy Web Documentation DR8 Add to Model page Add to Model as ABB View Availa Public Policy X **EU PO ABB** Add to Qu ABB URL persistent URIs documentation DESCRIPTION: \wedge Add Attrib Action taken by a public authority to bring about social change in the Consult Or medium and long term. It is based on certain values and object is implemented using a variety of methods. It applies on the territ within which the authority is authorised to act.Based on EuroVoc http://eurovoc.europa.eu/drupal/?q=request&concepturi=http%3A %2F%2Feurovoc.europa.eu%2F8466&termuri=http%3A%2F joinup (COLLECTIONS SOLUTIONS KEEP UP TO DATE **Public Policy Public Policy DESCRIPTION:** Action taken by a public authority to bring about social change in the medium and long term. It is based on certain values and objectives and is implemented using a variety of methods. It applies on the territory within which the authority is authorised to act. Based on EuroVoc The policies; overview of EU activities in all areas, from agriculture to transport: http://ec.europa.eu/policies/index_en.htm Syn. Policy Action INTEROPERABILITY SALIENCY: The Public Policy ABB is salient for legal interoperability because it drives the production and formulation of legislation, and it is one of the main context elements to be taken into account when organisation need to work together, as stated ISA²

CarTool Value proposition





The Cartography Tool (CarTool) brings together high level support for the EIRA as a plug-in for the popular ArchiMate modelling tool Archi®. It includes both editing features, to model solutions using the EIRA, and querying features to query an EIRA-based Cartography of solutions.

CarTool use cases

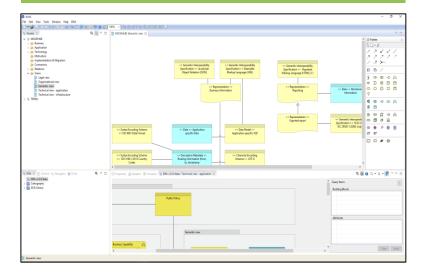
Search

- Query Cartographies, such as the EIC and the TESCart for used solutions
- Consult a list of proposed IoP Specifications

Model

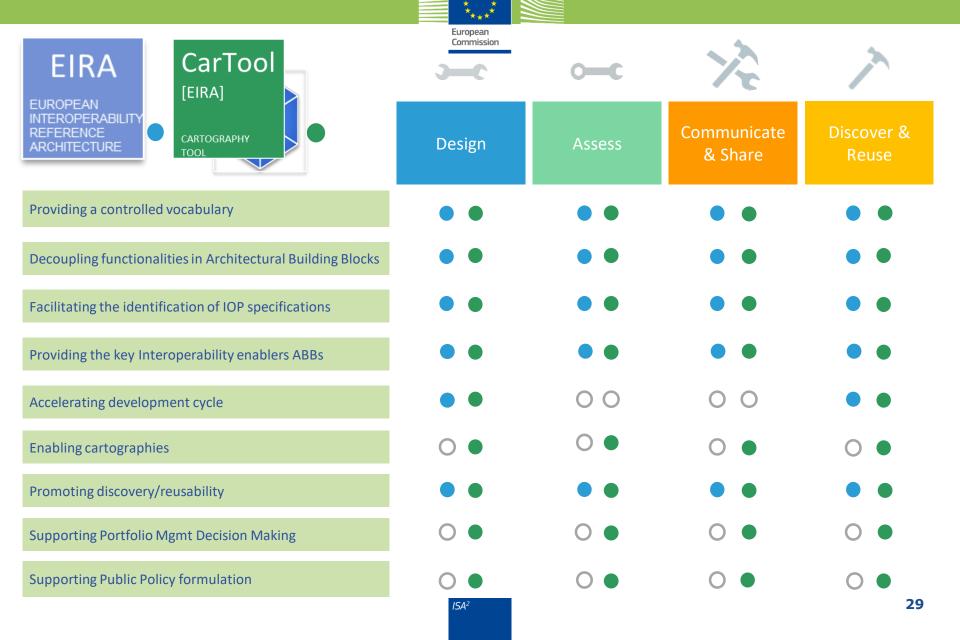
- Model new solutions based on either the EIRA, SATs or existing TES
- Model SATs based on the EIRA

CarTool view



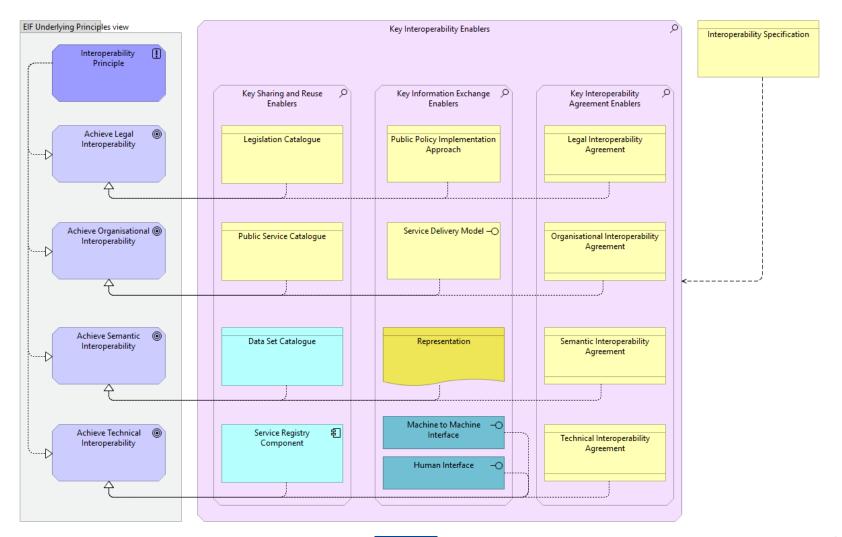
Available at: https://joinup.ec.europa.eu/solution/cartography-tool/about

EIRA & CarTool key areas of support



How the EIRA© & CarTool© support IoP in e-Government?

Key Interoperability enablers ABBs



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How EIRA supports IOP in e-Government?

LOST IOP support

"Public Policy Implementation Approach ABB is influenced by the regulatory state and the delegation of powers"

Example: Focus on the public policy implementation approach of a national PA including references to TOGAF v 9.1

JETAIL-LEVEL

REGULATORY STATE

HIGH-LEVEL

THE INFORMATIONAL **SCENARIO**

PP IMPLEMENTATION APPROACH: FOCUS ON **SEMANTIC INTEROPERABILITY** (i.e. data architectures, base registries)

THE GOVERNANCE SCENARIO

PP IMPLEMENTATION APPROACH: FOCUS ON **ORGANIZATIONAL INTEROPERABILITY** (i.e. organizational interoperability agreements, governance structures)

THE STRUCTURAL SCENARIO

PP IMPLEMENTATION APPROACH: FOCUS ON **TECHNOLOGY INTEROPERABILITY** (i.e. interoperability specifications, reusable building blocks, common [back-office] services, networks)

THE SUBSIDIARITY SCENARIO

PP IMPLEMENTATION APPROACH: FOCUS ON LEGAL INTEROPERABILITY (i.e. interoperability frameworks, interoperability reference architectures)

CENTRALISED DELEGATED DELEGATION OF POWERS



Section 3: EIRA/CarTool use case for Finnish Public Administration

("Document the Ecosystem of Digital Death Detailed-level Interoperability Requirements SAT")



Section 4: CarTool v3.0.0 hands-on session



Section 5: Wrap-up





Questions?

Satisfaction Survey on the EIRA and Cartography Tool workshops

European Commission

It's your time: Please fill the satisfaction survey

