

Finnish National reference architecture on Open Science and Research 2030 OScaR RA

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CSC – Suomalainen tutkimuksen, koulutuksen, kulttuurin ja julkishallinnon ICT-osaamiskeskus

Agenda

- Why
- What
- How (a description of the project)
- A couple of examples of artifacts
 - Metamodel
 - Capability Map
 - Service map
- We do not have time for demo

WHY – Objectives

- Information governance tool
- Information and data management tool
- Service management tool
- For **steering** open science and research at the national level
- **Implementing** Finnish open science declaration and policies
- **Visualizing** Finnish open science declaration and policies
- A coherent and holistic **overall picture of the Open science ecosystem**
 - not too detailed, not too general
- The OScaR reference architecture steers organizations' enterprise architecture definitions

Deliverables: a document guiding the development of the field of open science and guidelines for its use



EU Collaboration on Architecture on Open Science

- Do we require shared open science and research reference architecture among higher education institutions in the EU?

WHAT – Target state description 2030

EA artifact is usually a diagram, table or textual narrative

Architecture domain	Main artifacts	Status
Prinicple Level (strategic architecture)	Legislation, strategies, capabilities and resources Architecture principles, related architectures	Done
Business architecture	Actors, actor interactions, business services and business processes	done
Information architectre	Vocabularies, concepts, conceptual models, data models Logical data assets	
Application architecture	Applications, application integrations and API's	
Implementation of the architecture	Executive summary, guidance, roadmap and work pagages, Communication and collaboratio	

HOW – Enterprise architecture method

- **Reference arcitecture** → Enterprise architecture -> Solution architecture

EA is tool for digital transformation

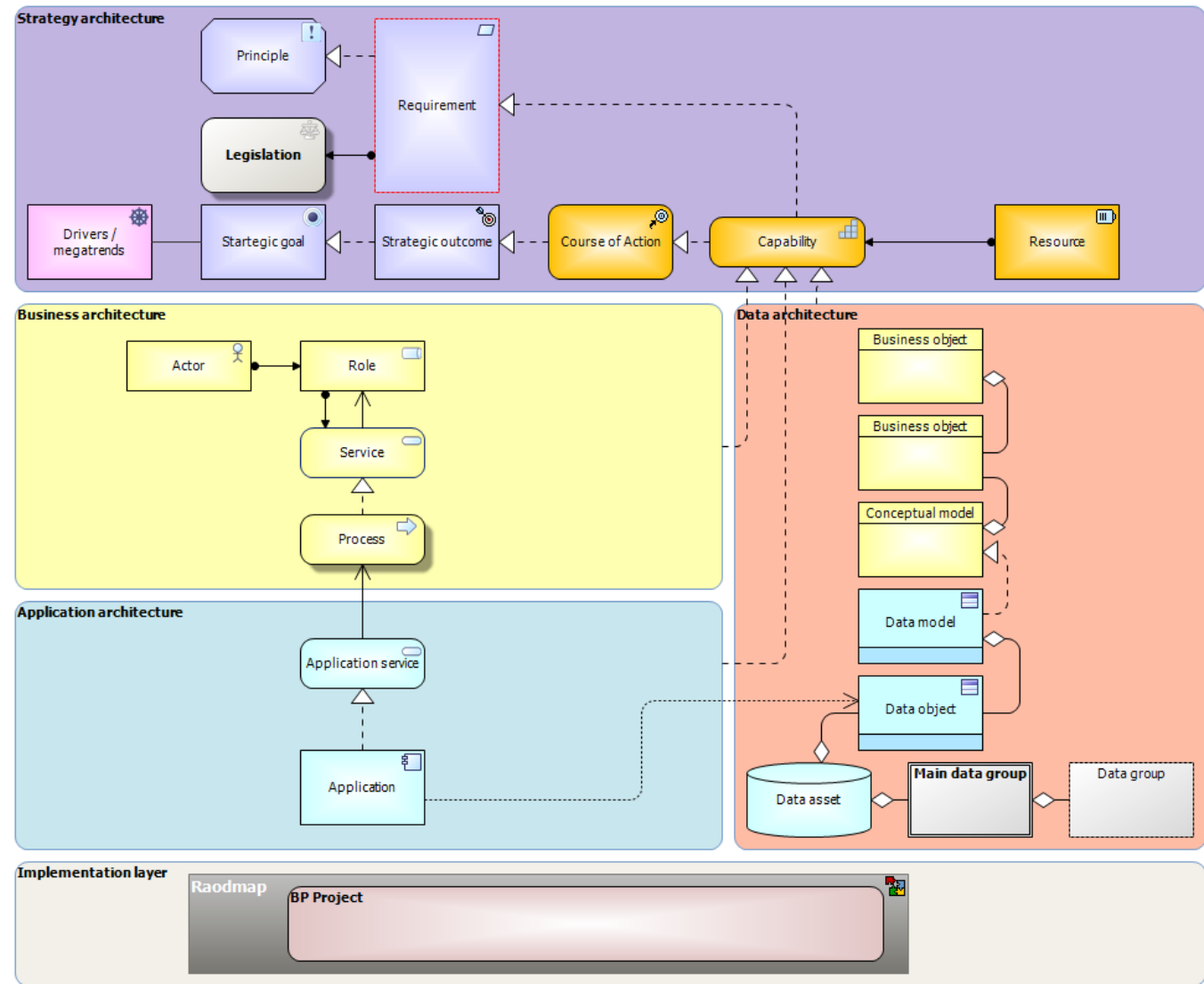
- Digization – digitalization – **digital transformation**

Definition for a reference architecture: “an architecture that guides another architecture”

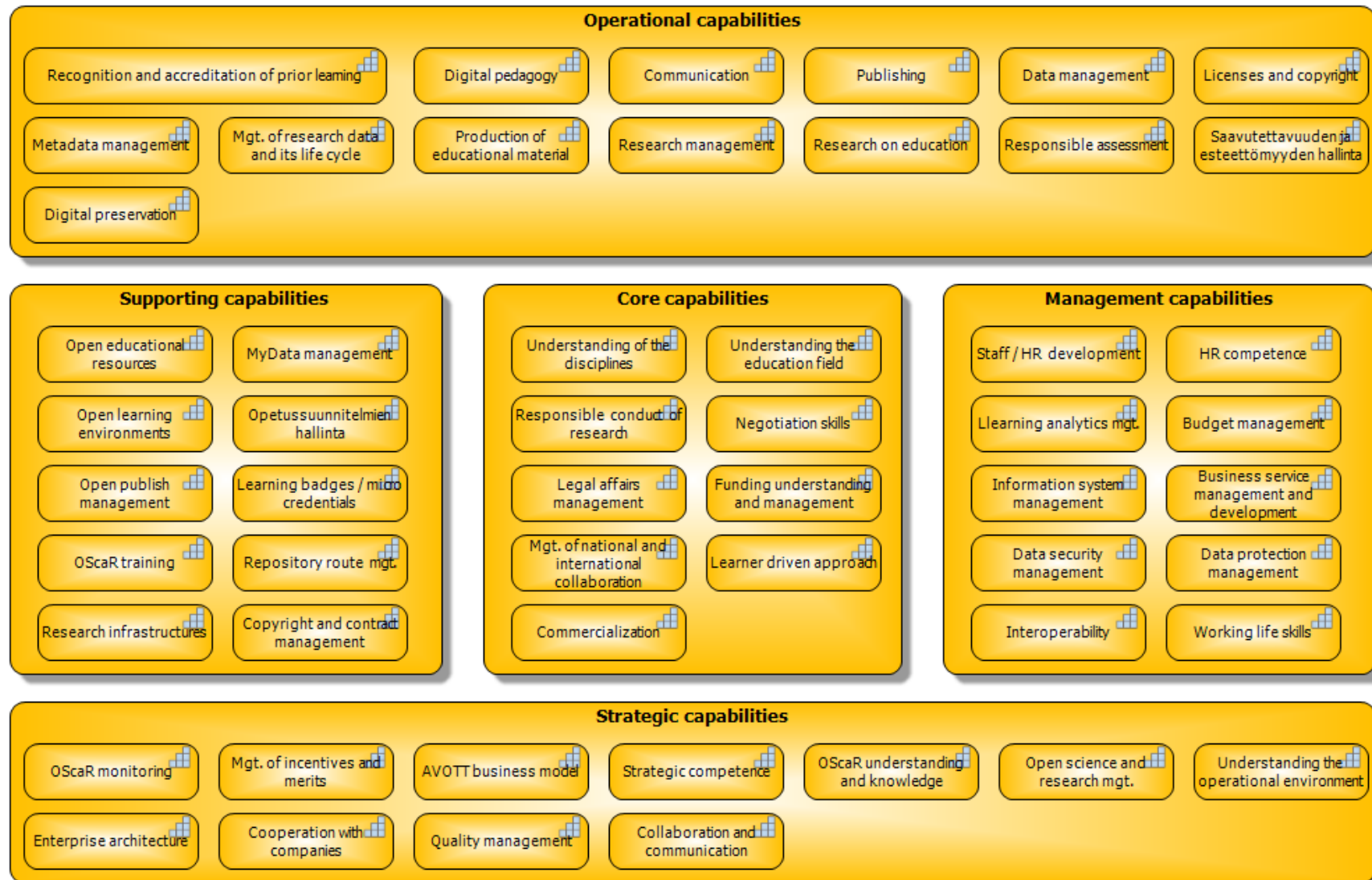
Issues	OScaR reference architecture 2030
Funding:	Ministry of education and culture
Owner:	The Federation of Finnish Learned Societies
Project phase:	2022 –2023 24 months (Status is OK)
Background	Replacing the old reference architecture on open science 2016
Fasilitating	The Federation of Finnish Learned Societies (a national co-operative body)
Steering group	2-4 meetings in a Year Strategic decisions
Architecture group	Monthly meetings Chairs Jukka Heikkinen (Finnish Union of University Professors) 2022 and Susanna Nykyri 2023 (Tampere university library), Operative decisions
Hands on groups	Weekly meetings (some half dozen hands on groups plus ad-hoc groups)
Communication team	Articles, papers, workshops
Consulting on EA	CSC – IT Center for Science (Ari Rouvari and Ville Henttonen)
Collaboration with the field	1-2 seminar plus commenting and reviewing



Metamodel

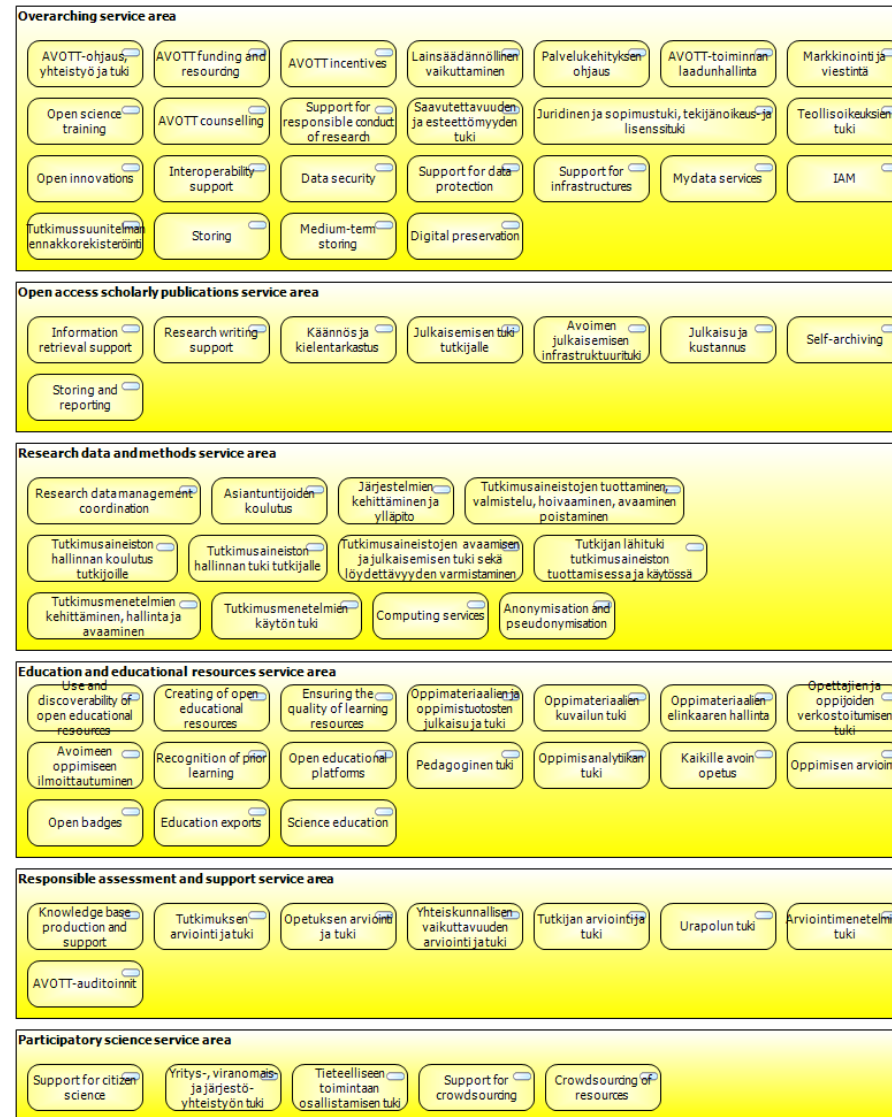


Capability Map



Business Service Map

Unfortunately I have not translated the whole business service map yet





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