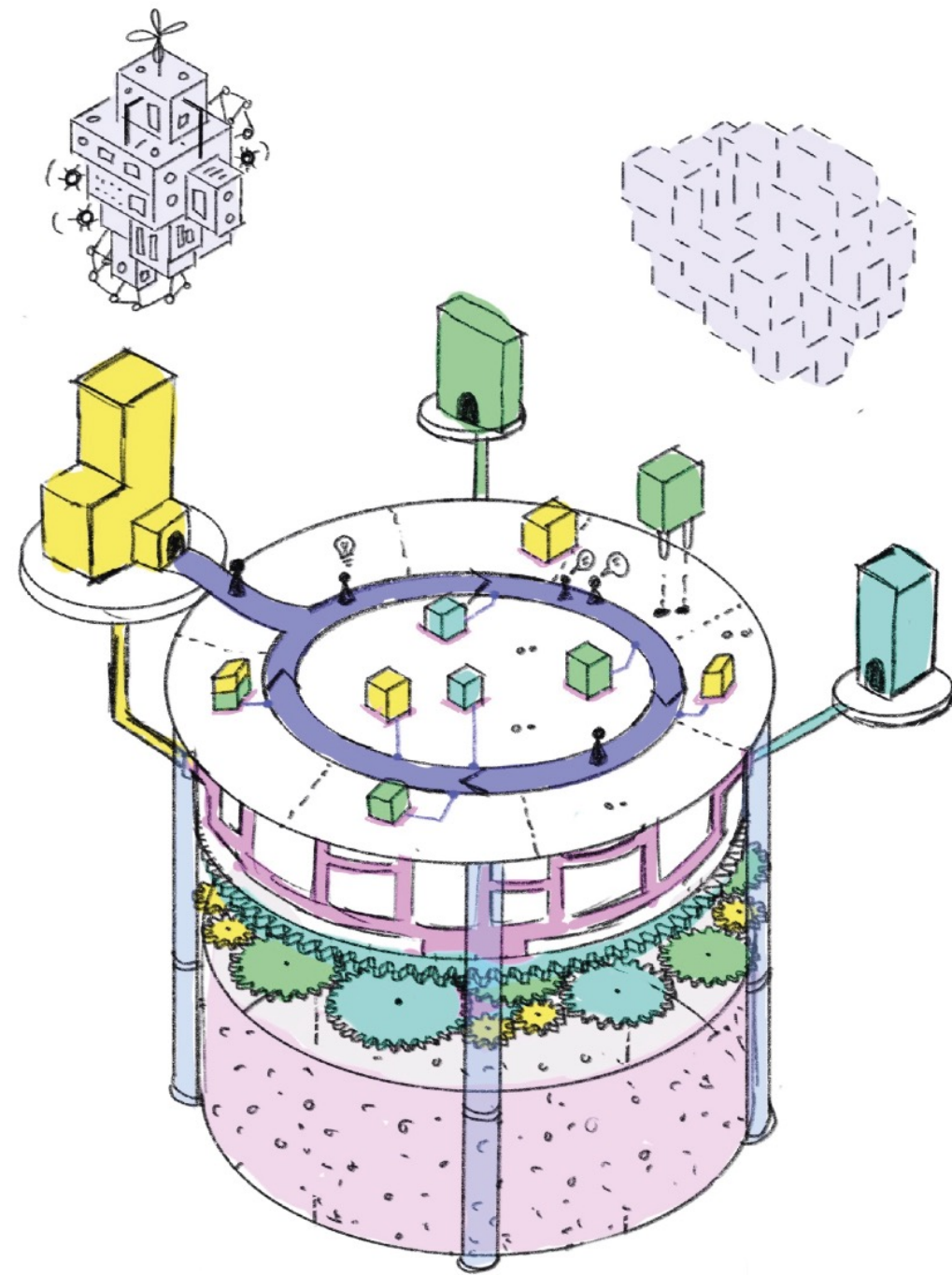




# Mapping the digital ecosystem for education

Initiatieven vanuit SURF om inzicht te creëren in internationale samenwerking rond standaardisatie

Evelien Renders, SURF | Standaardisatieraad | 25 May, 2023



Visualisatie: Dirma Janse, in opdracht van SURF

# Why map internationally?

# Chaos?



education.ec.europa.eu  
**The EEA in the world**  
Learn more about the work of European Education Area Strategic Framework Working Groups on the external promotion of the EEA and collaboration with external partners.

education.ec.europa.eu  
**Green education**  
Learn more about the work of European Education Area Strategic Framework Working Groups on green education.

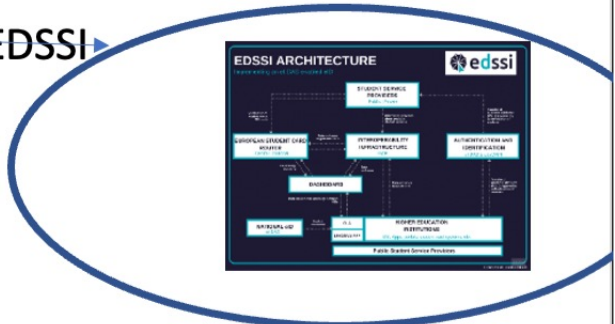
education.ec.europa.eu  
**Digital education**  
Learn more about the work of European Education Area Strategic Framework Working Groups on digital education.

education.ec.europa.eu  
**Teachers, trainers and school leaders**  
Learn more about the work of European Education Area Strategic Framework Working Groups for teachers, trainers and school leaders.

education.ec.europa.eu  
**Improving quality**  
Learn more about the work of European Education Area Strategic Framework Working Groups on improving quality and equity in education and training.

CEF

EDSSI



## Micro credentials

europa  
European Union

EQF  
ECTS



Europass Learning Model

## European Universities Initiative



# | Current international key players

## European University Foundation

The European University Foundation aims to accelerate the modernisation of the European Higher Education Area. The Foundation focuses its action on five pillars and it stands for diversity and social fairness in Higher Education.



EUROPEAN COMMITTEE  
FOR STANDARDIZATION



| What are we working on?

# | Groups that SURF is actively participating in



## Interoperability Group

- 20 people | EU
- All educational sectors, but focus on higher ed (EUI)



## Think Tank

- 17 people | EU focus
- Ecosystem focus



## NRENs for Edu-pilot

- Proposal being discussed right now
- 8 NRENs involved

# Workshop in Berlin for European Digital Education Hub

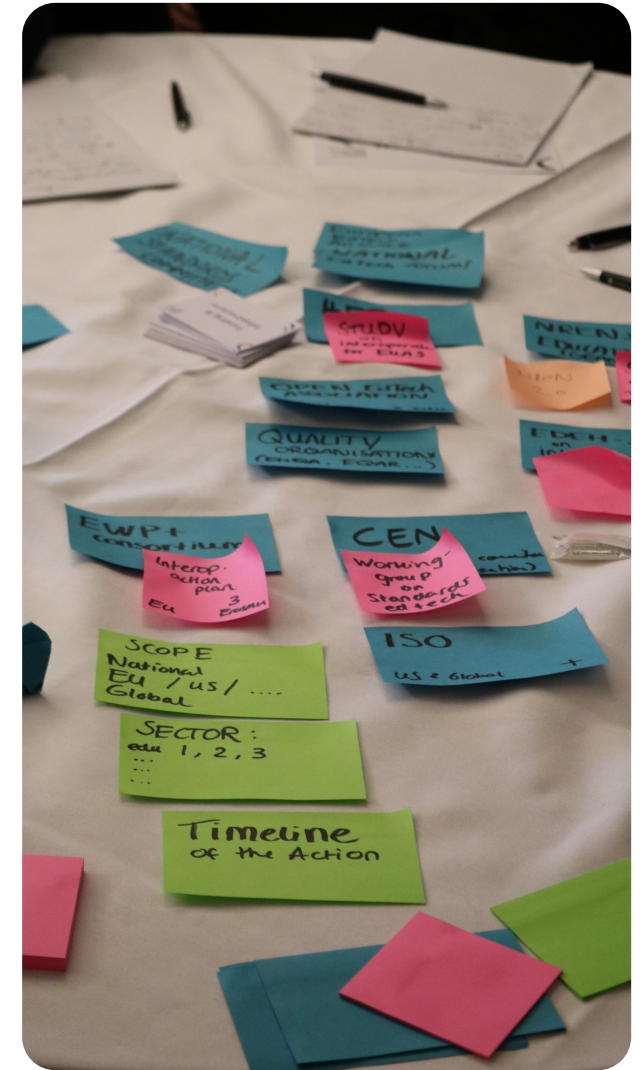
**AGENDA**  
14.09.2022  
15.09.2022

- 09:30 welcome / coffee
- 10:30 expert talk
- 11:30 coffee
- 12:15 group discussion
- 12:30 lunch
- 13:30
- 15:30
- 16:15
- 16:45



**COMMON UNDERSTANDING**  
HOW MIGHT WE  
DESIGN A PERFECT  
INTEROPERABLE  
EDUCATIONAL  
ENVIRONMENT?

# Who is doing what?





# | Narrative around interoperability

# EU level adoption example for HEI to the EIF model

## Interoperability Governance

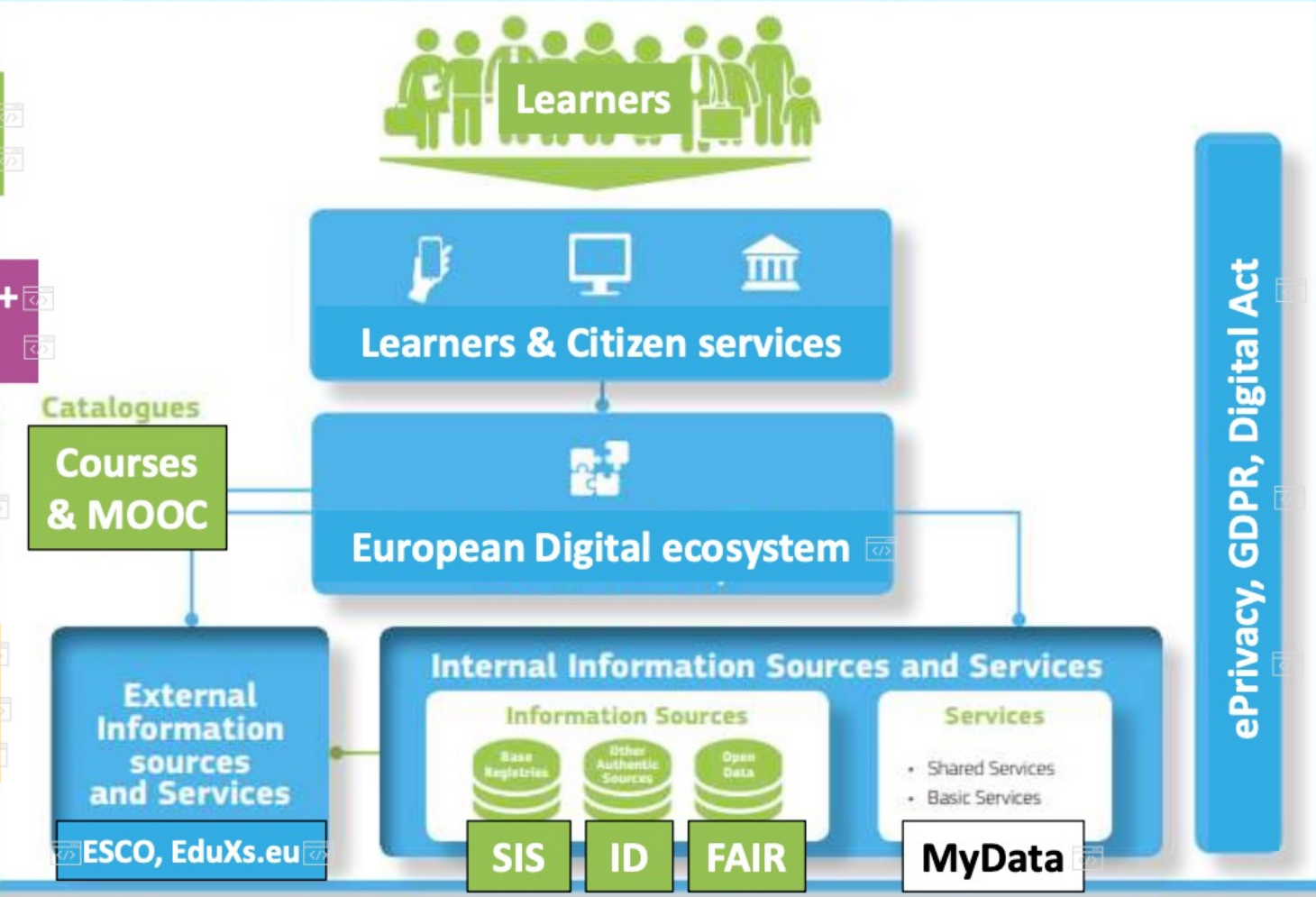
- Legal Interoperability** (Scales icon)
- Organisational Interoperability** (Building icon)
- Semantic Interoperability** (Document icon)
- Technical Interoperability** (Server icon)

Public Service Governance

Integrated

- eIDAS
- eWallet
- Erasmus+
- ISCED
- ELMv3
- EMREX
- EDU-API
- xAPI

## Integrated Public Service Governance



## Interoperability Principles

# Visualising the ecosystem

SURF programme international interoperability for education. Together with graphic designer, Dirma Janse.

**! NOT PUBLIC YET- DO NOT SHARE !**

Current iteration, comments in Miro are welcome!

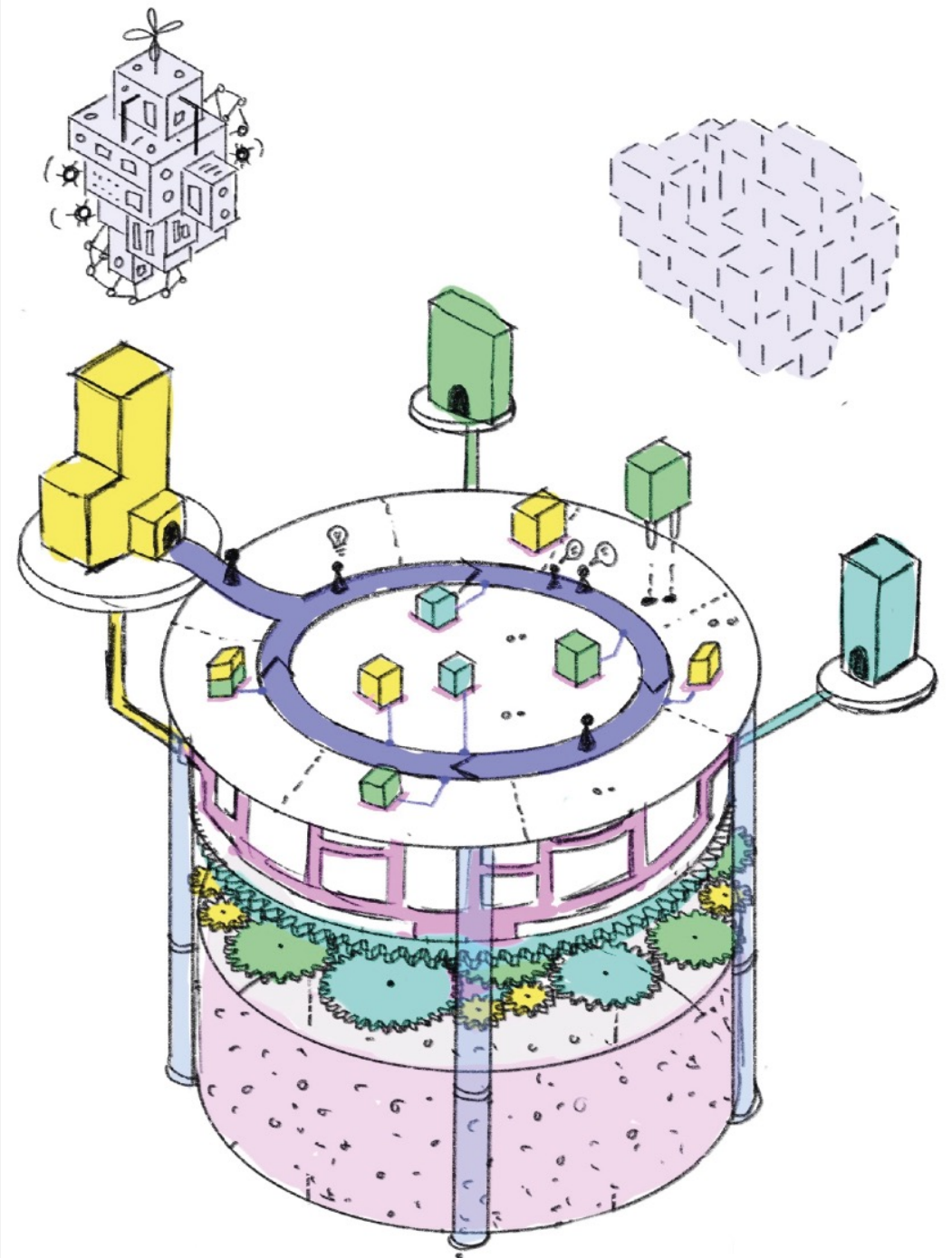
[https://miro.com/app/board/uXjVMlto1Sc=/?share\\_link\\_id=314293571174](https://miro.com/app/board/uXjVMlto1Sc=/?share_link_id=314293571174)

Background- first iteration of sketches:

[https://miro.com/app/board/uXjVMLZfmw8=/?share\\_link\\_id=602890035855](https://miro.com/app/board/uXjVMLZfmw8=/?share_link_id=602890035855)



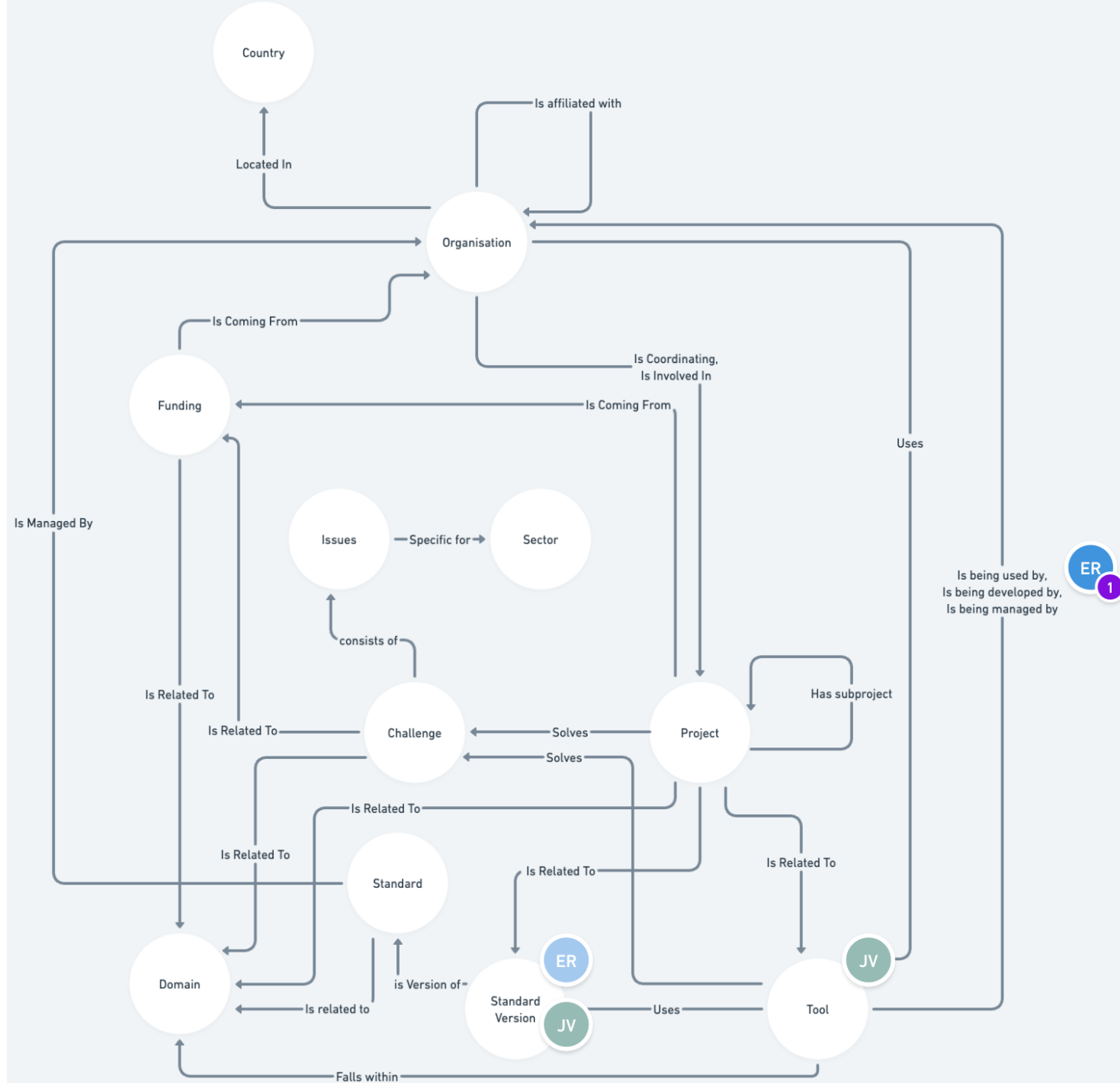
Visualisatie: Dirma Janse, in opdracht van SURF



# | Proof of Concept EduXS.eu

# Knowledge graph

- Work in progress
- see [www.EduXS.eu](http://www.EduXS.eu) for a link to the database and wireframe



# Content

ID/Abbreviation	Name	Description/Goal/Aims	Type	Start d.	End d.	Scale	URL	is sub-project of ...
1 ESVA	eSignature Validator for Academic	The ESVA project aims to develop...		2021	2023	EU	<a href="https://esva-project.eu/">https://esva-project.eu/</a>	
2 EDSSI	European Digital Student Service	The European Digital Student Service...	Standardisation initiative	2020	2022	EU		
3 EWP 2.0	Erasmus without paper 2.0	The Erasmus Without Paper project...		2018		EU		
4 ESCI	European Student Card Initiative	The European Student Card Initiative...	Programme			EU		
5 EDSSI 2	European Digital Student Service	EDSSI L2 intends to further harmonise...	Standardisation initiative			EU		
6 ESC	European Student Card	aim is: transforming current student...				EU		ESCI
7 OLA+	Online Learning Agreement 1.0	Online Tool for Learning Agreement...		2017	2019	EU	<a href="https://uni-foundation.eu/">https://uni-foundation.eu/...</a>	
8 OLA 3.0	Online Learning Agreement 3.0			2019	2021	EU	<a href="https://uni-foundation.eu/">https://uni-foundation.eu/...</a>	
9 eIDAS	European Identity ..... 1999/93/EG Nr. 910/2014		Regulation					
10 PIM	Platform for International Mobility	"Recognition platform" tool for...				National	<a href="https://pim-plattform.de/">https://pim-plattform.de/...</a>	
11 MyAcademicID	MyAcademicID	delivered on the core promise to...						
12 eduXchange	pilot Student Mobility	Taking courses at other institutions...	Standardisation initiative					
13 EWP 1.0	Erasmus Without Paper 1.0	Development of proof of concept...		2015	2017	EU		
14 EMREX-2	Expanding the EMREX network through...	Industrializing the EMREX register...	Standardisation initiative	2020	2021	Global	<a href="https://emrex.eu/vietsch-f...">https://emrex.eu/vietsch-f...</a>	
15 Acceleration plan	Education innovation with ICT	39 universities (of applied sciences)...	Programme	2019	2022	National	<a href="https://www.versnellingsp...">https://www.versnellingsp...</a>	
16 Edubadges	Edubadges	Edubadges aim to make higher education...	Standardisation initiative	2016			<a href="http://edubadges.nl">edubadges.nl</a>	
17 EMREX	EMREX-project	The purpose of EMREX, with its...	Standardisation initiative	2015	2017	EU	<a href="http://www.emrex.eu">www.emrex.eu</a>	
18 EWP+	Erasmus without paper +	Traditional management of Erasmus...	Standardisation initiative	2022	2028	EU	<a href="https://erasmus-plus.ec.e...">https://erasmus-plus.ec.e...</a>	ESCI
19 IDUnion project	IDUnion project	German IDUnion project, research...				National		
20 OZG (1.0)	Online Zugangsgesetz (Online ...)		Regulation			National	<a href="https://www.onlinezugang...">https://www.onlinezugang...</a>	
21 SDG	Single Digital Gateway					EU		
22 DIGIZ 1.0	Projekt Digitales Zeugnis	Field test for German digital up...	Implementation project			National	<a href="https://www.digiz.nrw/">https://www.digiz.nrw/</a>	OZG (1.0)
23 XBildung		The aim of the project is for act...					<a href="https://xbildung.de/web/">https://xbildung.de/web/</a>	OZG (1.0)
24 XHochschule		The XHochschule project aims to...	Standardisation initiative			National	<a href="https://www.xhochschule...">https://www.xhochschule...</a>	XBildung
25 EBSI	European Blockchain Services Initiative	One of a few initiatives that try to...	Standardisation initiative			EU	<a href="https://ec.europa.eu/digit...">https://ec.europa.eu/digit...</a>	
Digital 2020	Digital 2020	In the Digital 2020 programme...	Implementation project	2020	2020	National	<a href="https://digital2020.fi/">https://digital2020.fi/...</a>	

# SURF

Challenge

# Wireframe

Projects

Goals

Projects

Tools

Funding

Theme Educational content

Recognition of results  
Challenge

25 more Challenges >

Organisations 2

Projects 4

Tools 4

Standards 1

Reports 1

Edubadges  
Project

**EWP+** Project

Traditional management of Erasmus+ mobility can be a cumbersome, complex and costly process for higher education institutions (HEIs). The Erasmus Without...

[Read more](#)  Compare

An additional Project  
Project

An additional Project  
Project

Comparing 1 product ×

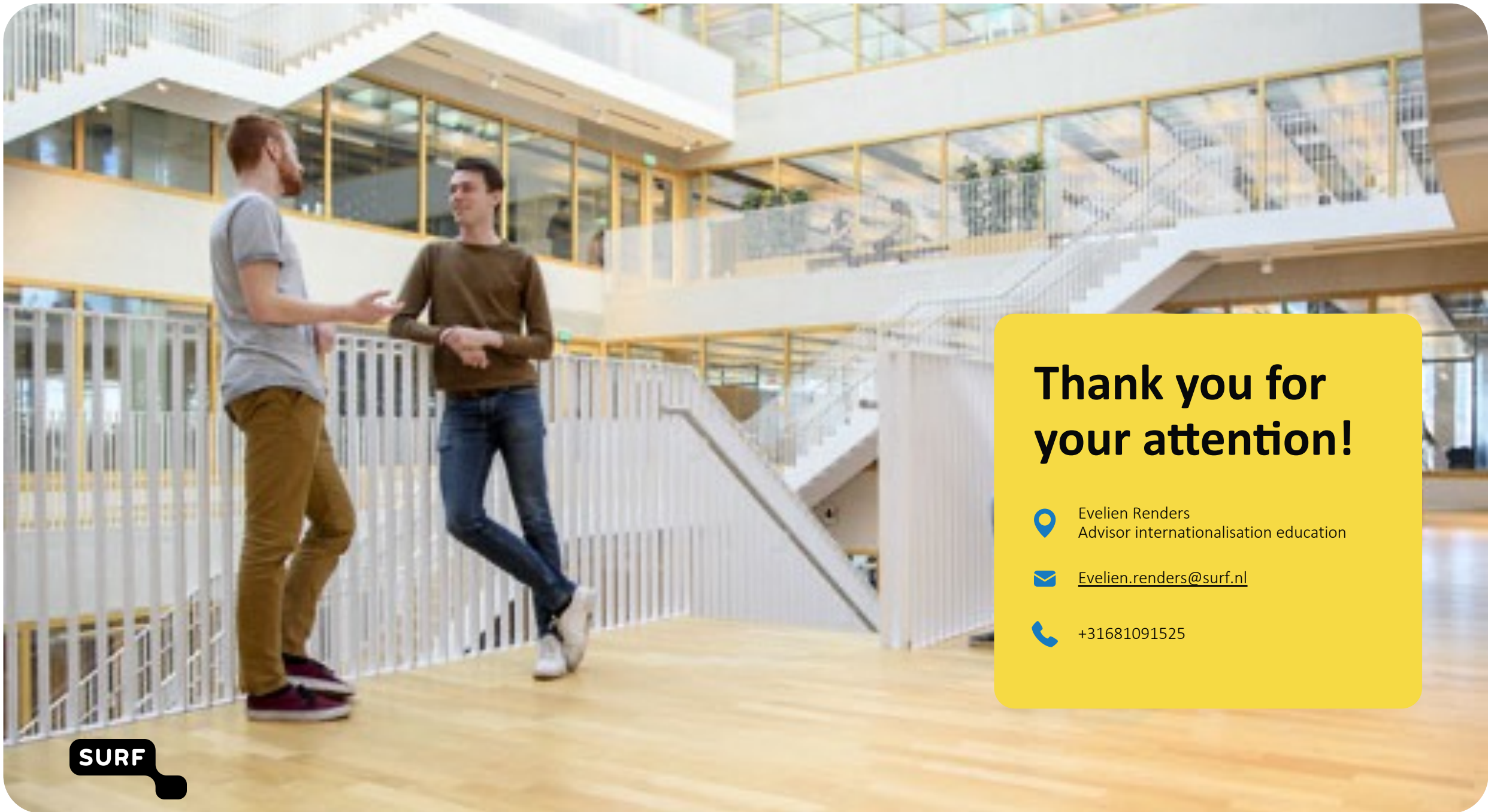
EWP+ 🗑️

[Compare](#) Empty list

# | Timeline

- **April – June 2023:**
  - EduXS.eu data model
  - Data solidification
  - Views for Edustandaard, Edu-V and Npuls
- **August – September 2023:**
  - Public views accessible via [www.eduxs.eu](http://www.eduxs.eu)
  - Private views shared with specific people
- **September onwards....**
  - Governance? Funding? Review cycle?





**Thank you for  
your attention!**



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Advisor internationalisation education



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**SURF**