

IMS Global

Identity Management

London, 30. November 2017

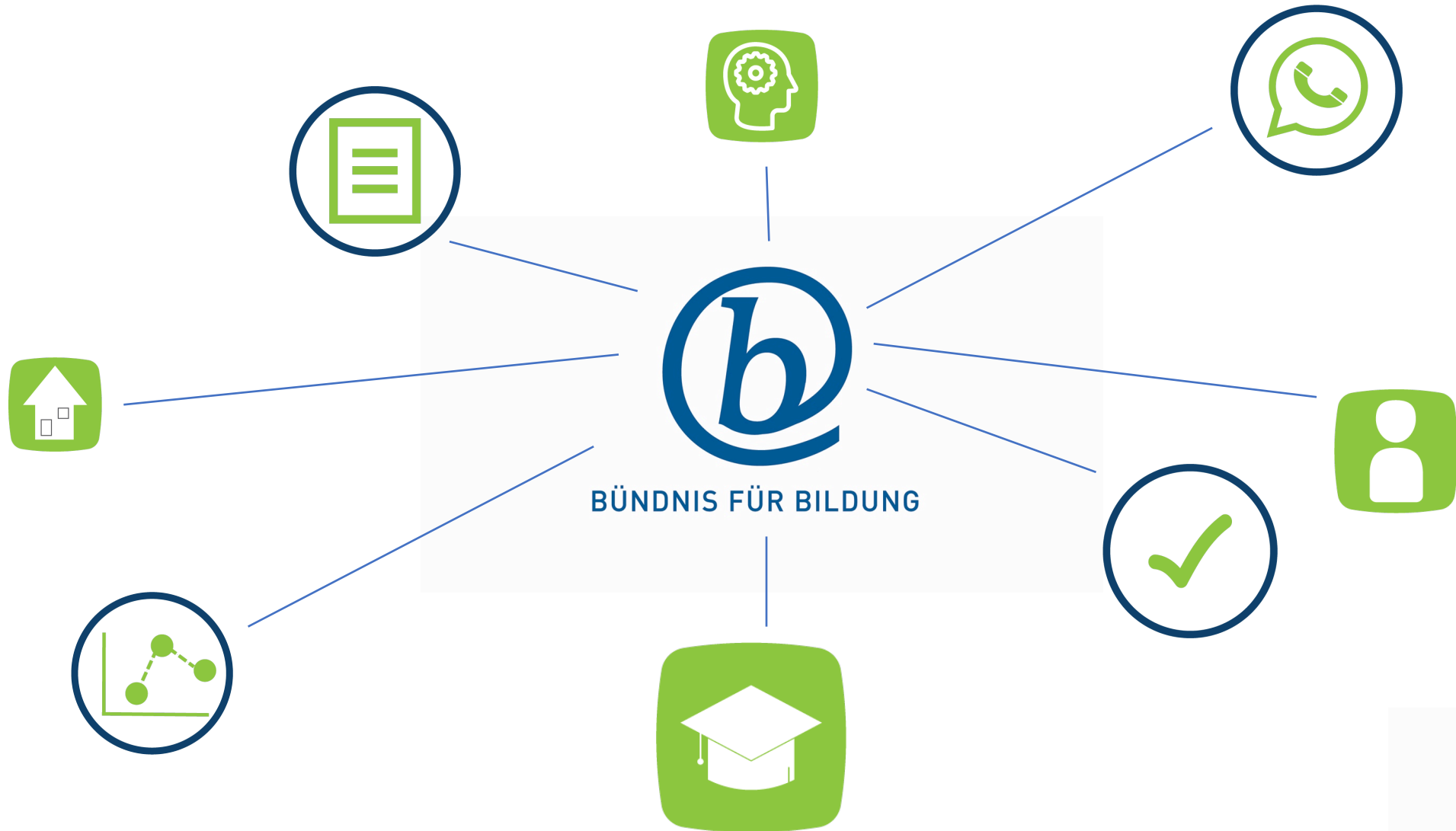


BÜNDNIS FÜR BILDUNG

Beth Havinga
Geschäftsführerin
Bündnis für Bildung e.V.



Our work in the German market





Key areas of focus



Communication



Technical, legal, and industry framework requirements



Industry development and competencies



Working Groups:
Expert recommendations, reference models and architectures





Key areas of focus



Work Groups: Impulse, Reference solutions and Blue Prints

Reference Projects (Implementation/ Support/ Communication)

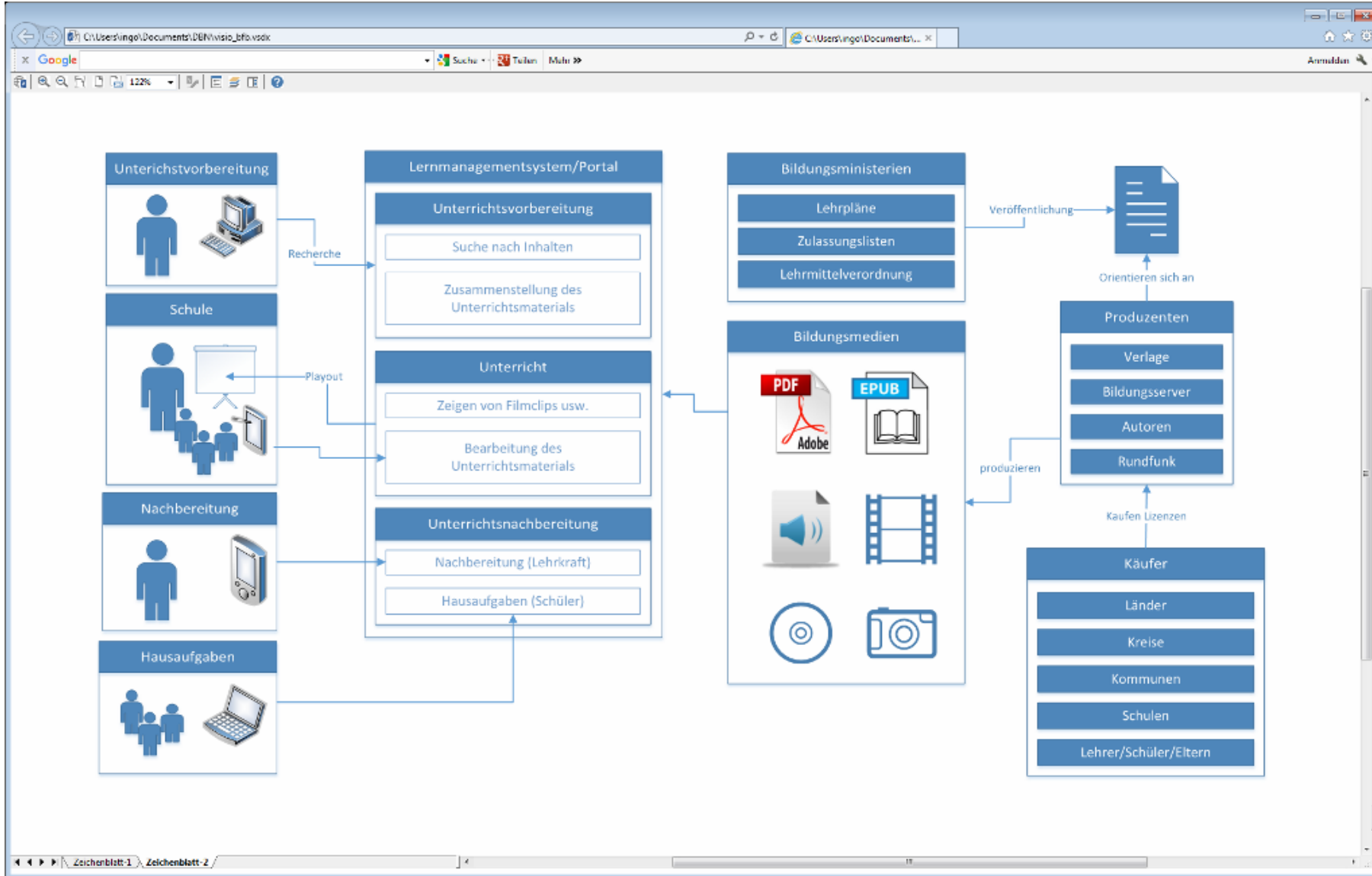
Certification of market-leading processes, products and solutions

Working groups: Interoperability, IT Infrastructure and Media Development plans



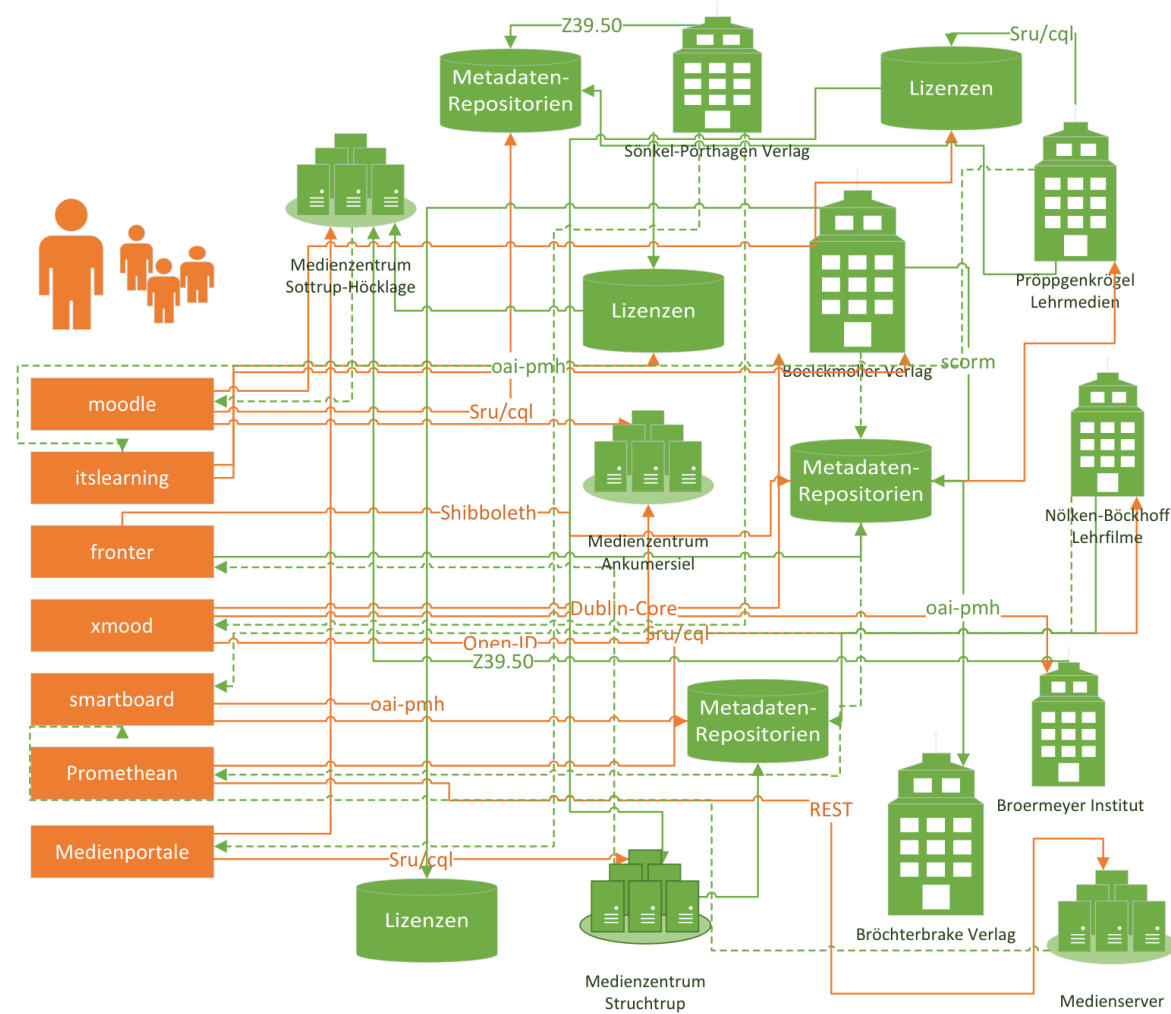


Key areas of Systems Interaction





Key areas of Systems Interaction





Key areas of focus



Data privacy, protection, security and sovereignty

ID Management





ID Management

Kategorie	OpenID Connect	oauth 1	oauth2	Shibboleth	SAML 2.0	Idap	proprietär
idp							
idp					in / out	in / out	in / out
idp / service	in /out	in /out	in /out	in /out	in /out	in /out	div. In/out
idp / service	out		out			out	in/out
idp / service							
idp / service		(in / out)		in /out	in / out	in /out	
idp / service				in / out	in / out	in / out	in / out
service					in / ?out?		
service	in/out	in /out	in/out	in/out	in/out	in/out	WW in/out
service			in/out				in/out
service			in /out	in /out			
service	in/out	in/out	in/out	in/out	in/out	in/out	





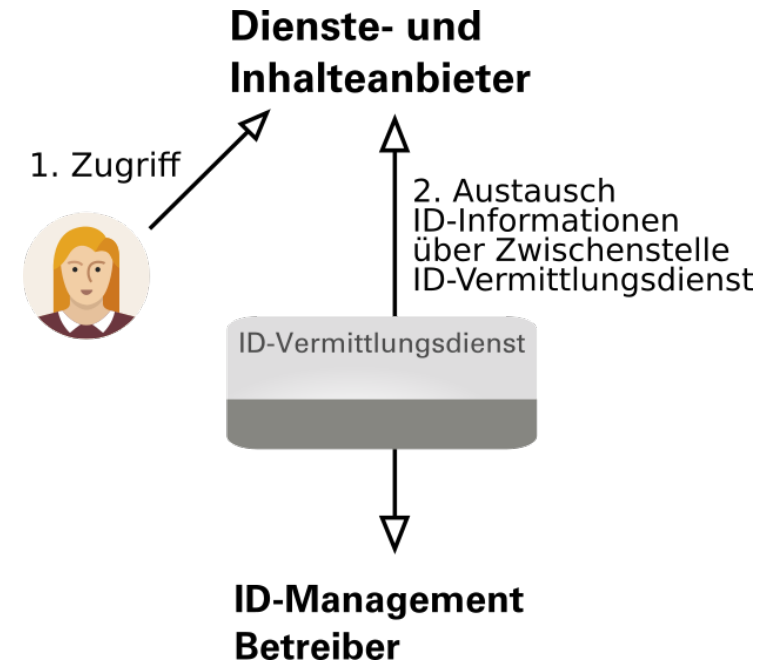
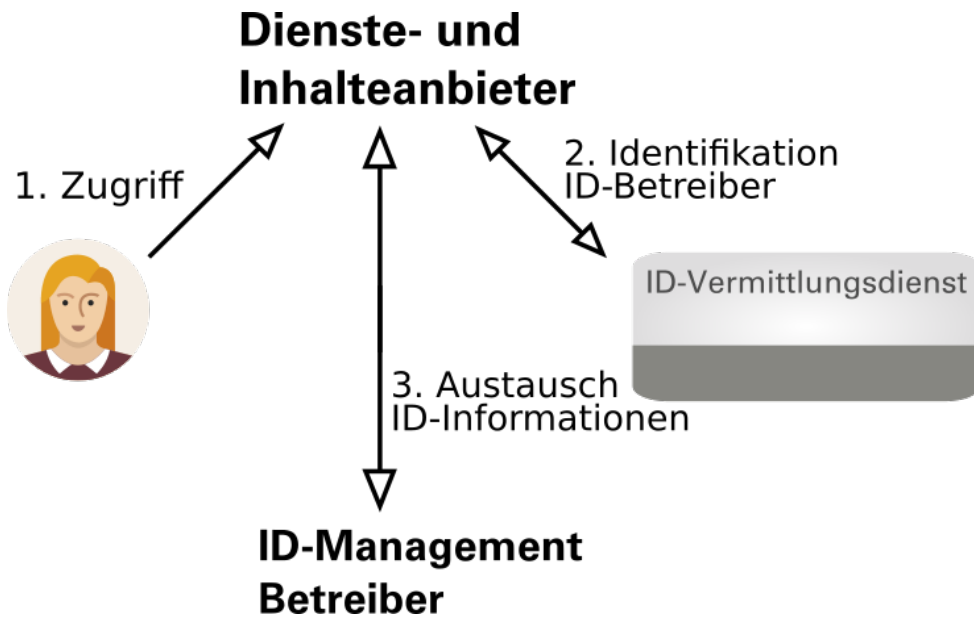
ID Management

Kategorie	ID (global)	ID (hash)	Vor- und Nachname (Klartext)	E-Mail	Rolle	Alter (cluster)	(Klasse/Gruppe)	Jahrgangsstufe	Schul-ID	Schulname
idp										
idp	x	x	x	x	xx	-	x	-	xx	x
idp / service	x	xx	x	x	xx	x	x	x	xx	x
idp / service	x	xx	xx	xx	x	-	x		x	xx
idp / service										
idp / service	x		x	x	xx				xx	x
idp / service	x		x	x	xx		x			
service										
service										
service	x	XX	X	X	XX	x	X (xx)	x	x	x
service	x		x	x	x					
service	x		x	x	xx	?		x		
service	x	x	xx		xx				xx	xx



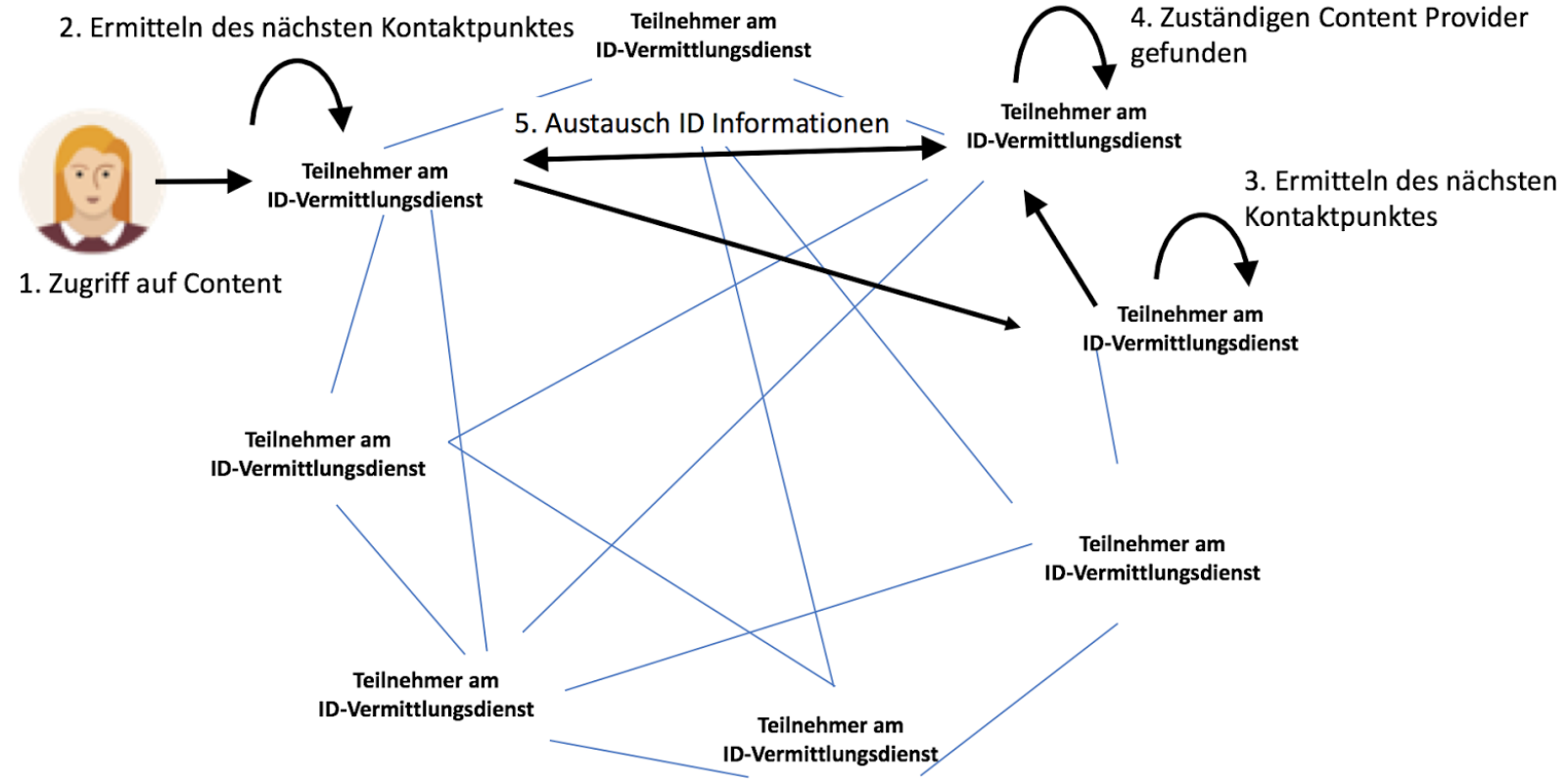


ID Management - ID exchange services





ID Management – ID Exchange Services





ID Management



Persistent IDs./ Distribution hub layer

Mandated pseudonymization/ anonymization

Centralized Data (Use) Transparency





Current status

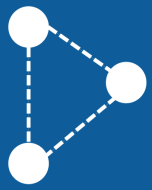


Supplier/Developer critical timing

Data Protection agencies

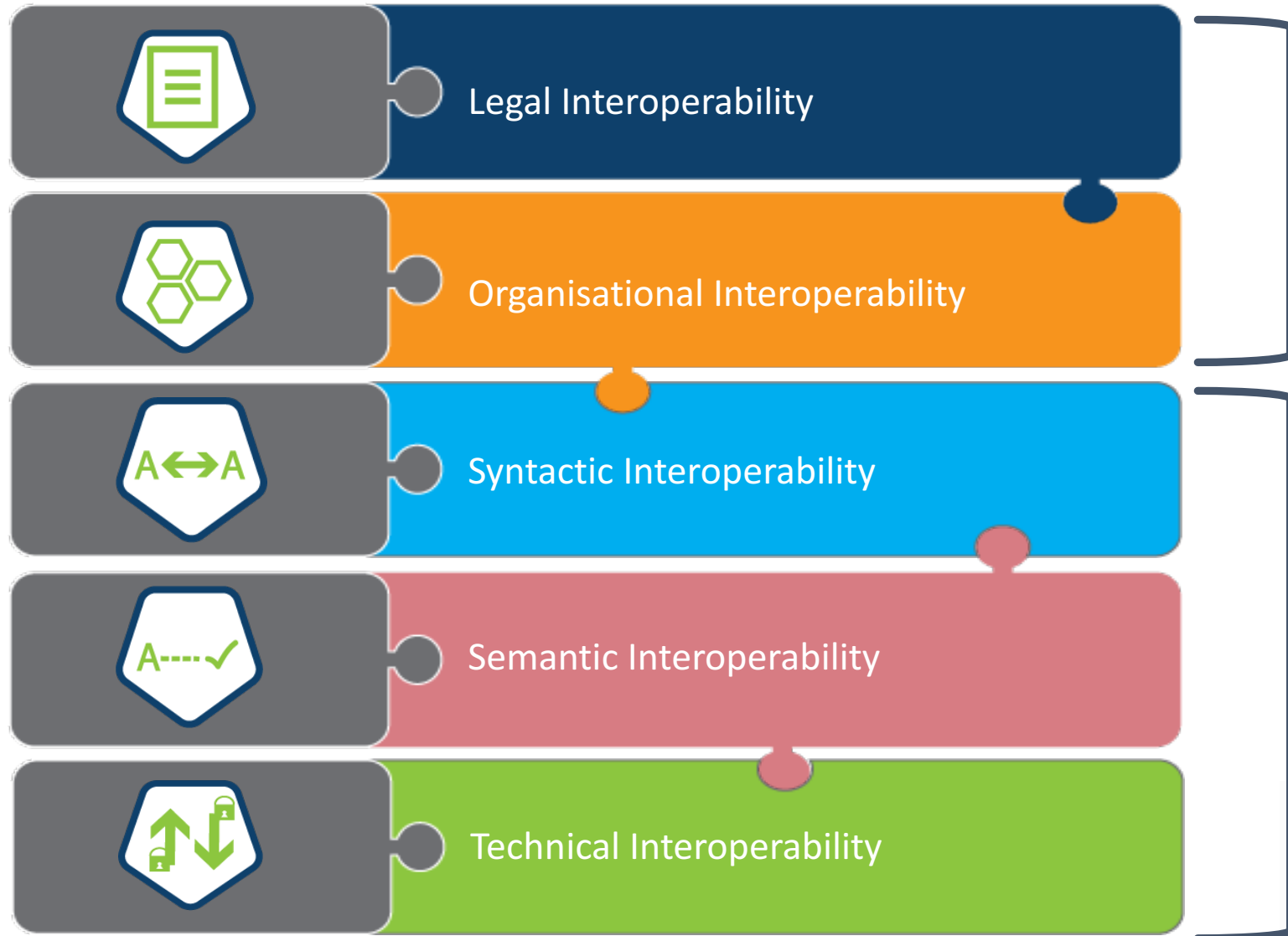
Addressing the right market players



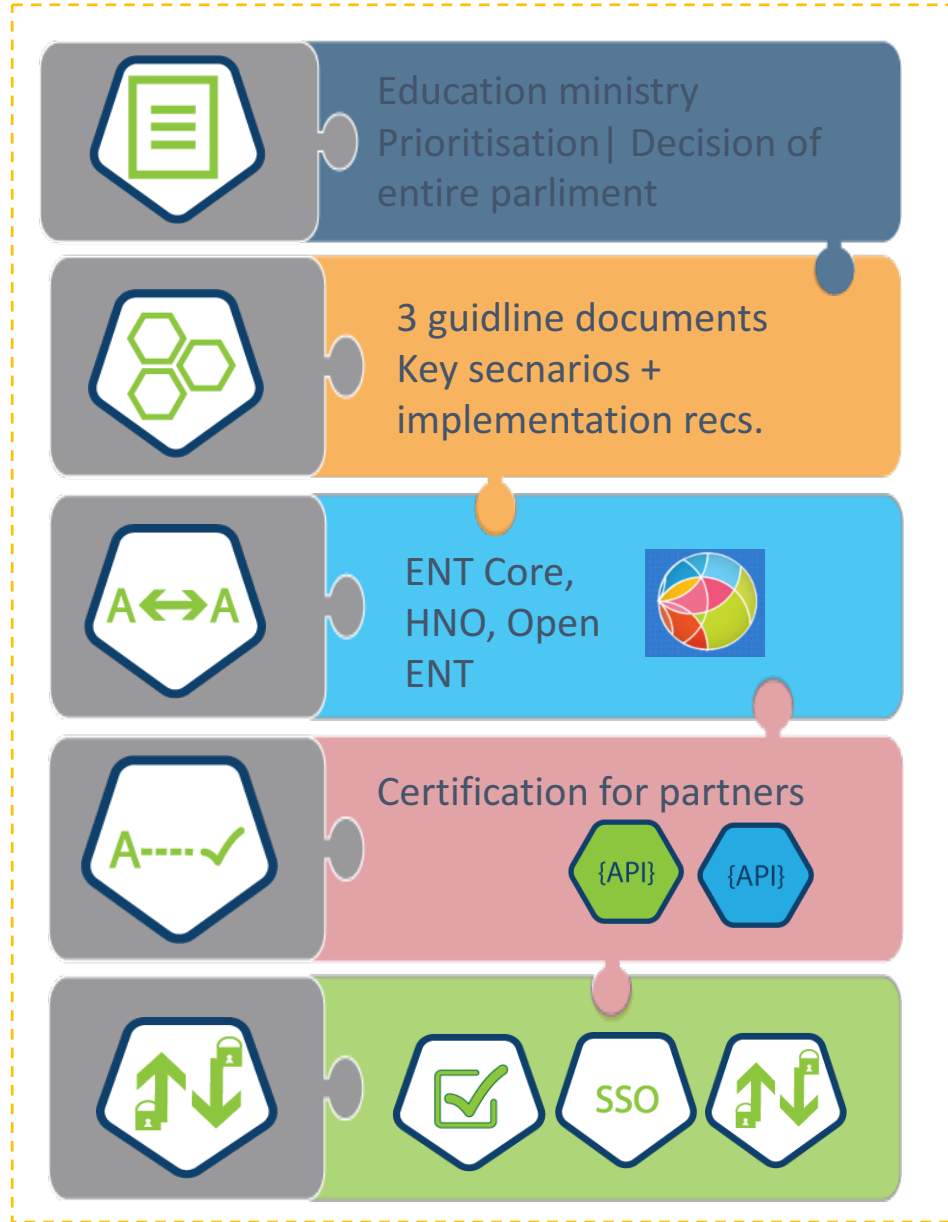
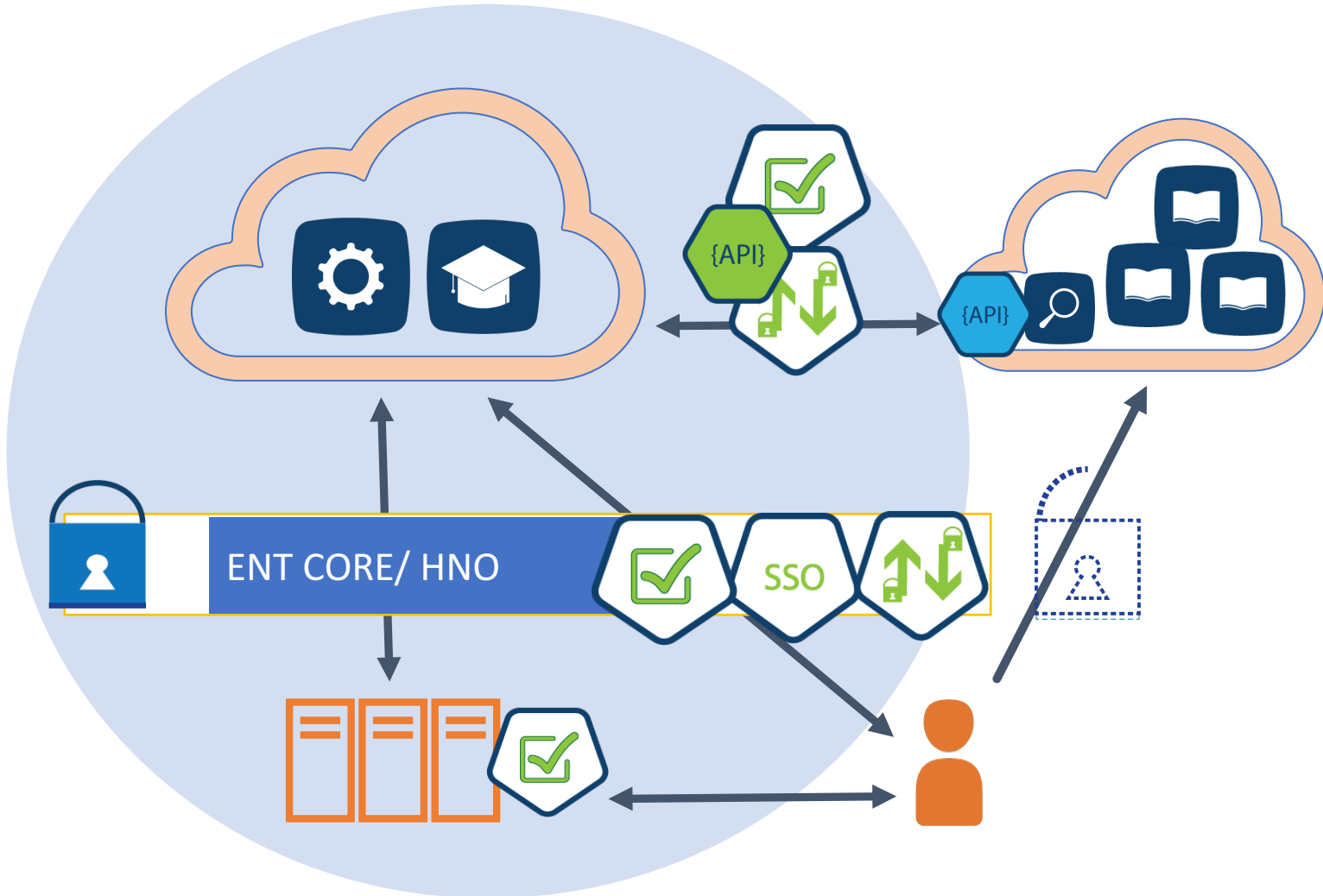


Interoperability

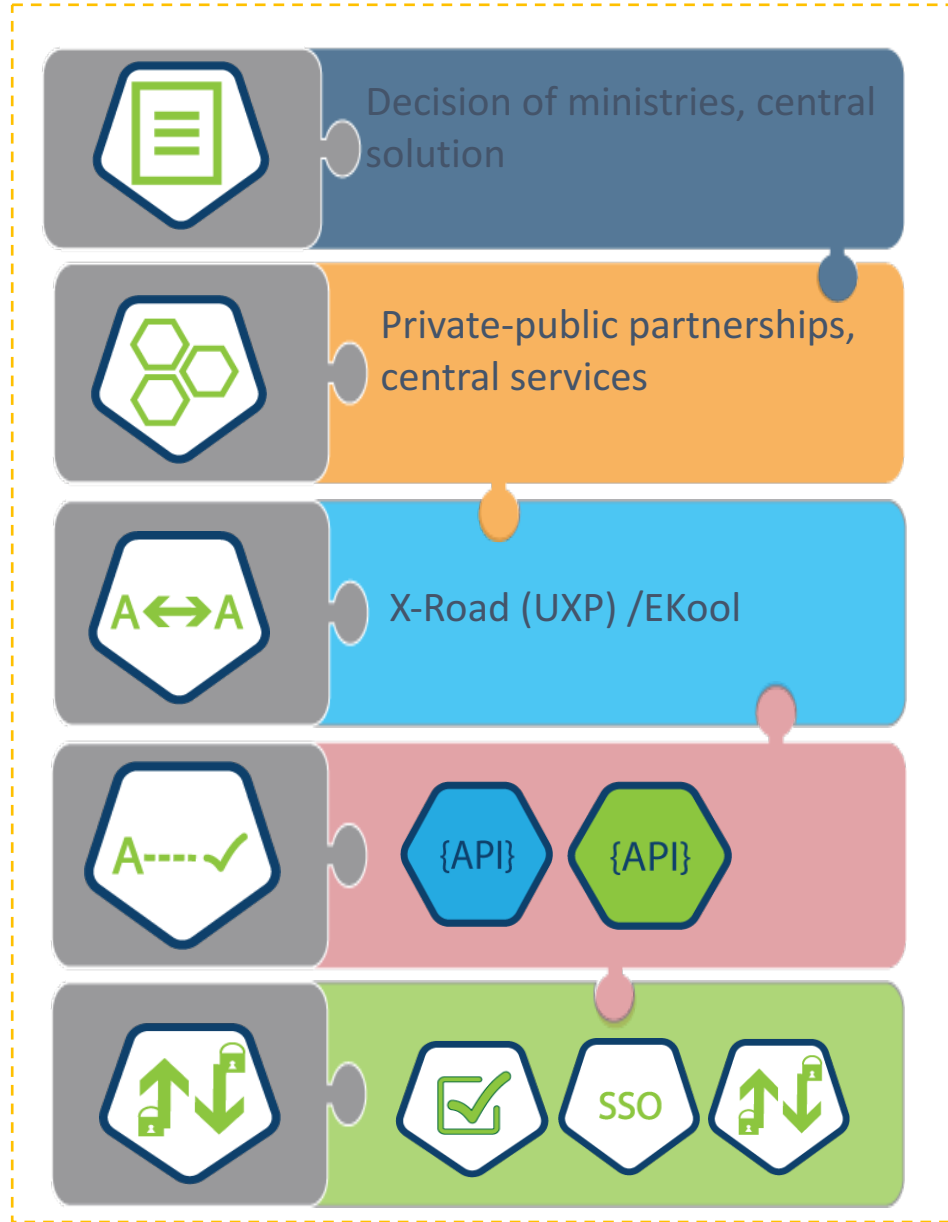
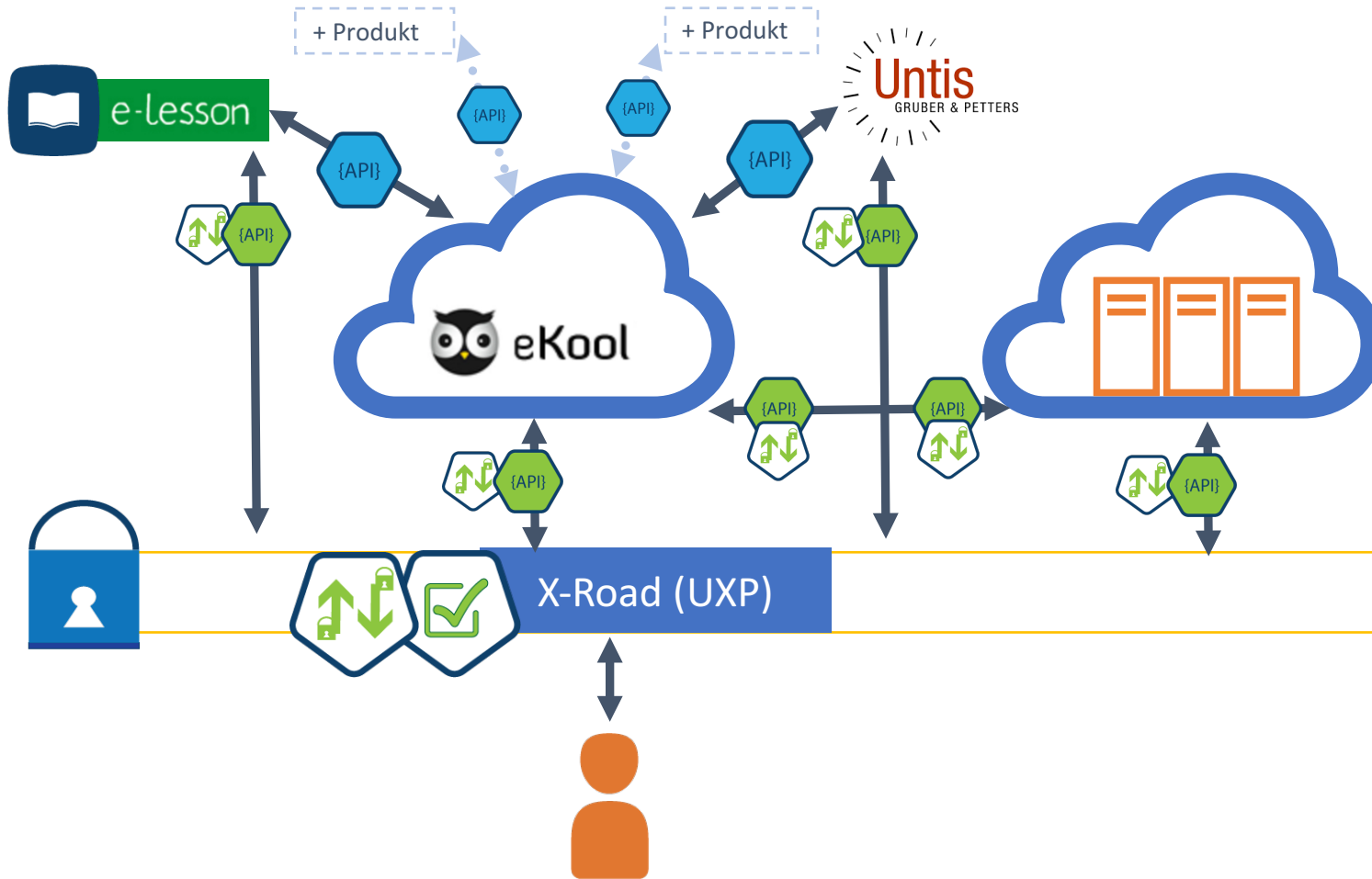
Layers of Interoperability

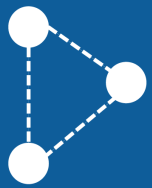


France

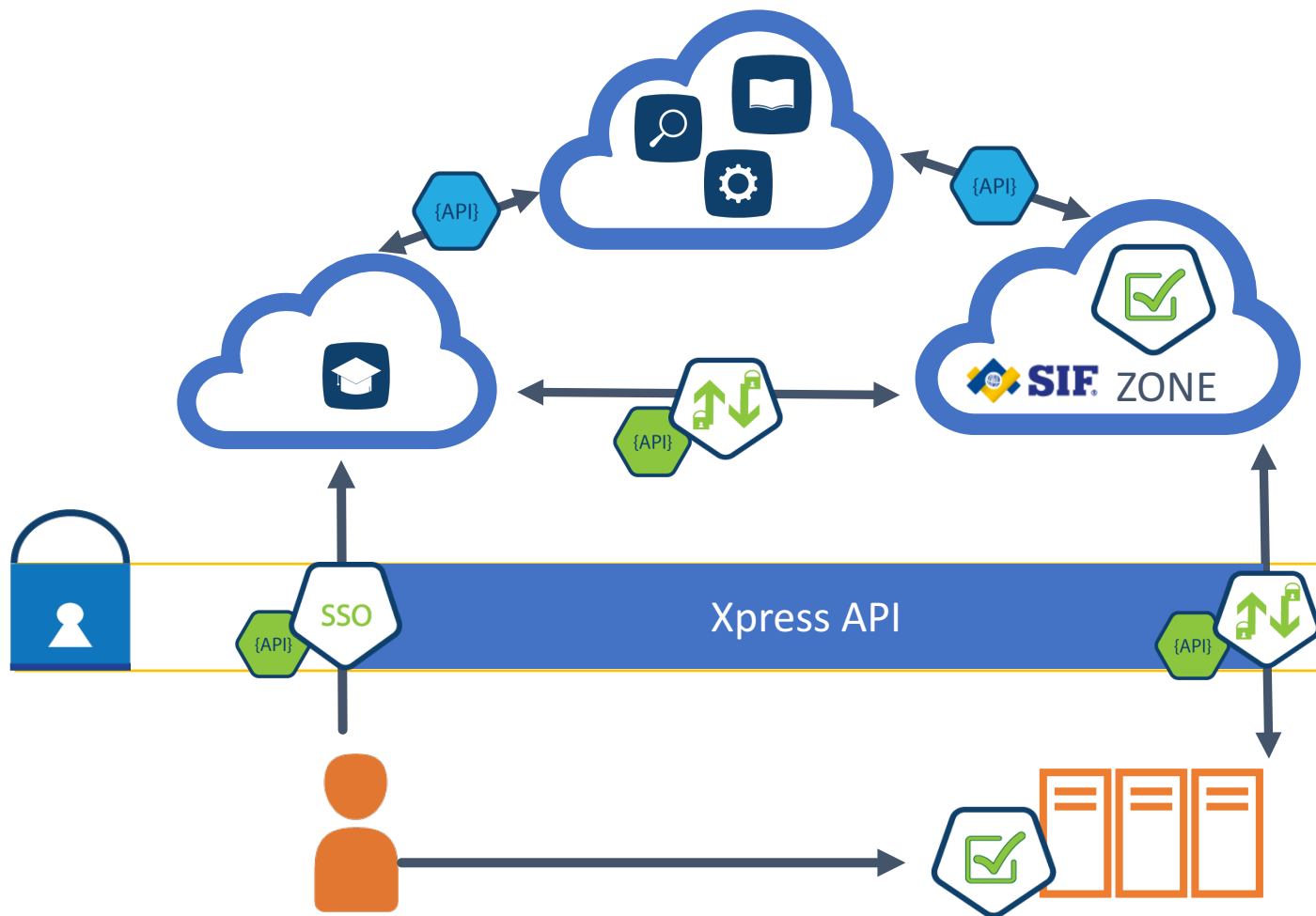


Estonia





Australia

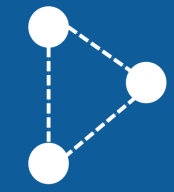


Joint decision of all states and industry partners

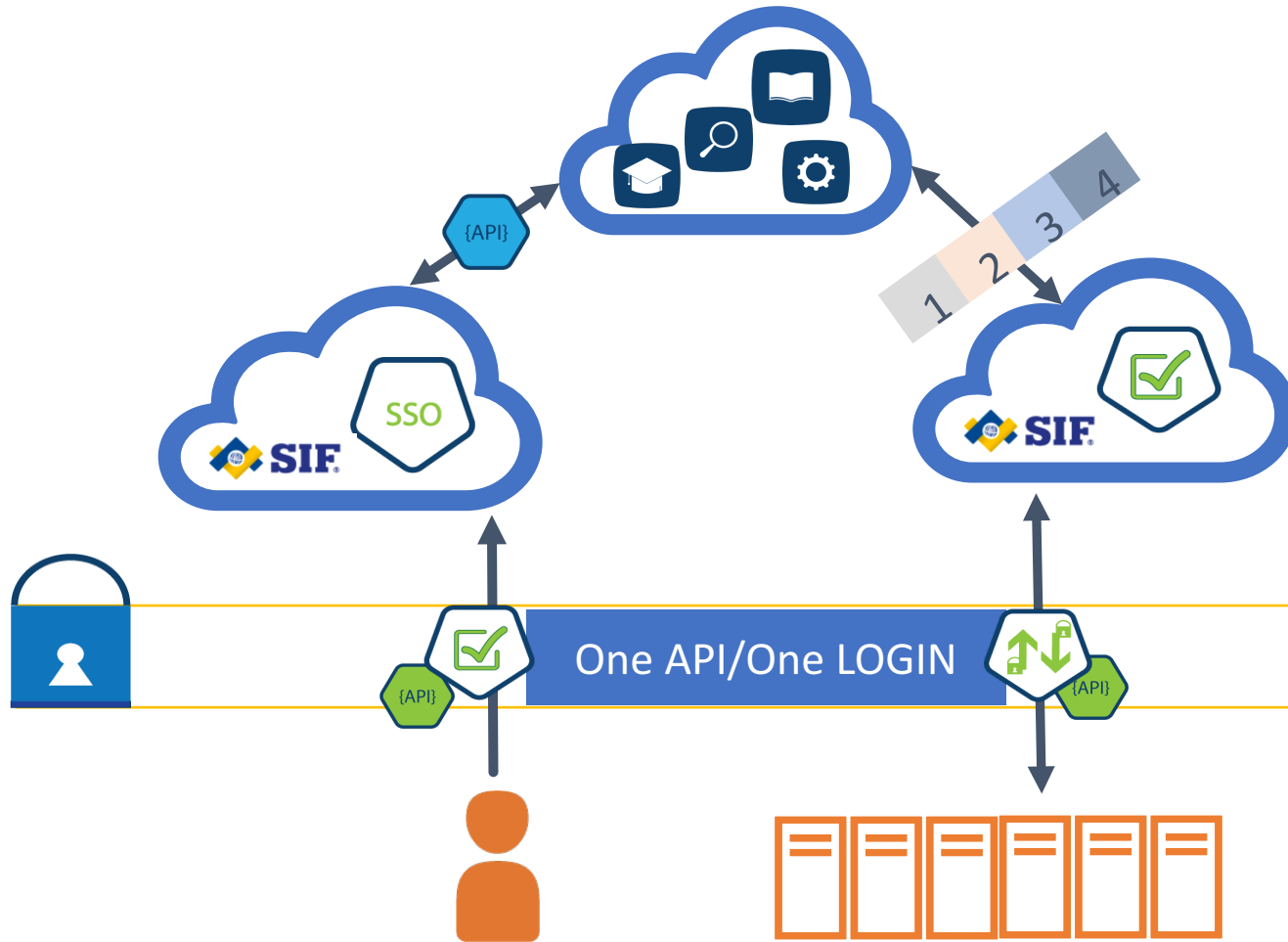


NSIP – representatives from all Public/Private participants





New York (RIC)



- Blue box:** Data security and intuitive use are a priority (Icon: Green document with lines)
- Orange box:** 12 Media centres in NY | work groups (Icon: Green hexagons)
- Light Blue box:** SIF (Icon: A ↔ A)
- Pink box:** {API} {API} (Icon: A ----> ✓)
- Light Green box:** SIF, SSO, and API icons (Icon: Up/Down arrows with lock)



Recommendations



Representatives of every industry

ID Management

Data Security and Protection

Open vs. Proprietary





Recommendations



NATIONAL USE CASES	<i>agreed business processes</i>
	<i>common challenges</i>
	<i>agreed data governance privacy</i>
ENABLE PROGRESS PIECE BY PIECE	<i>agreed data model</i>
	<i>common interfaces</i>
	<i>aligned infrastructure</i>
SHARED CONSISTENT MARKET COMMUNICATION	<i>shared infrastructure</i>





Recommandations

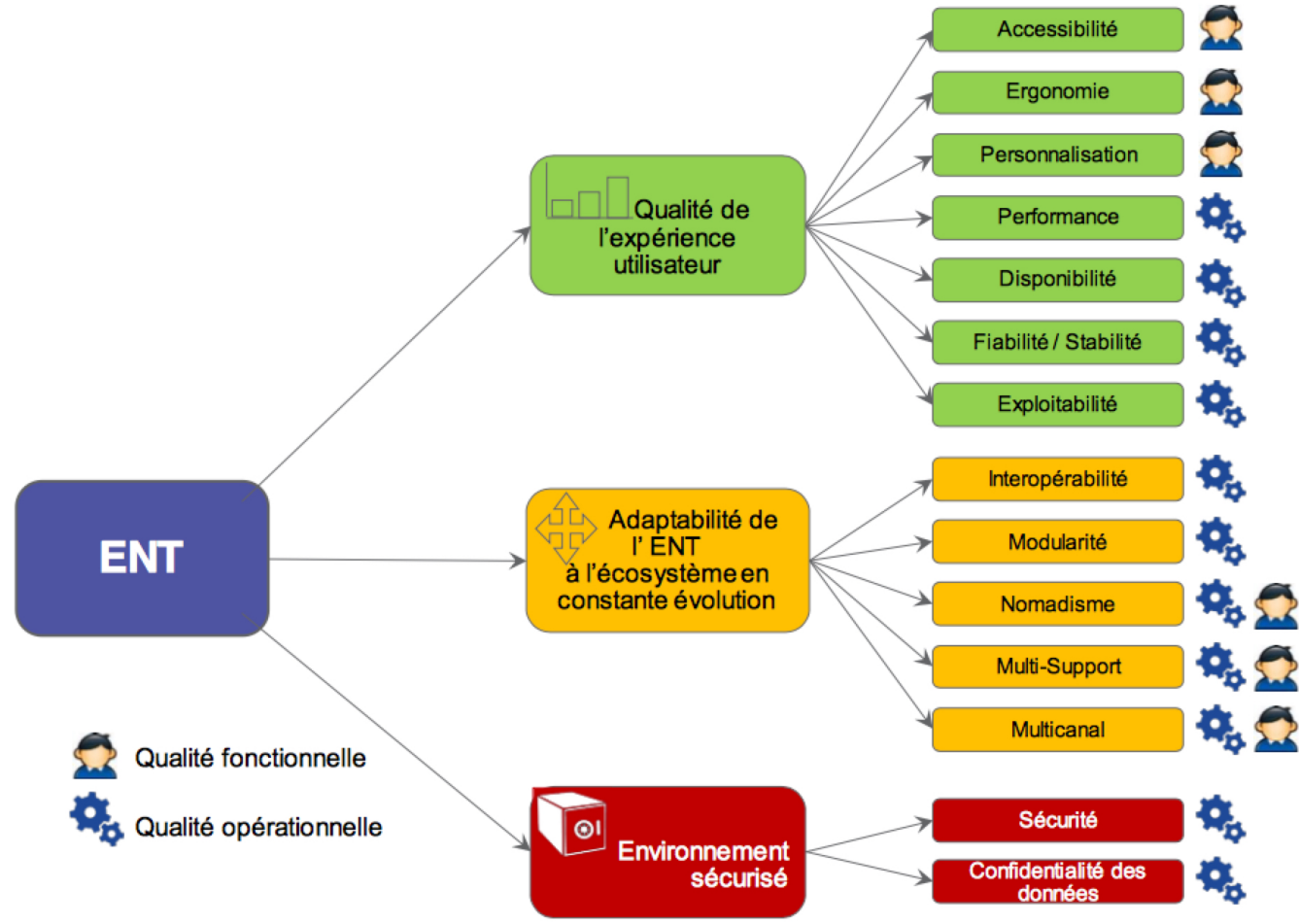
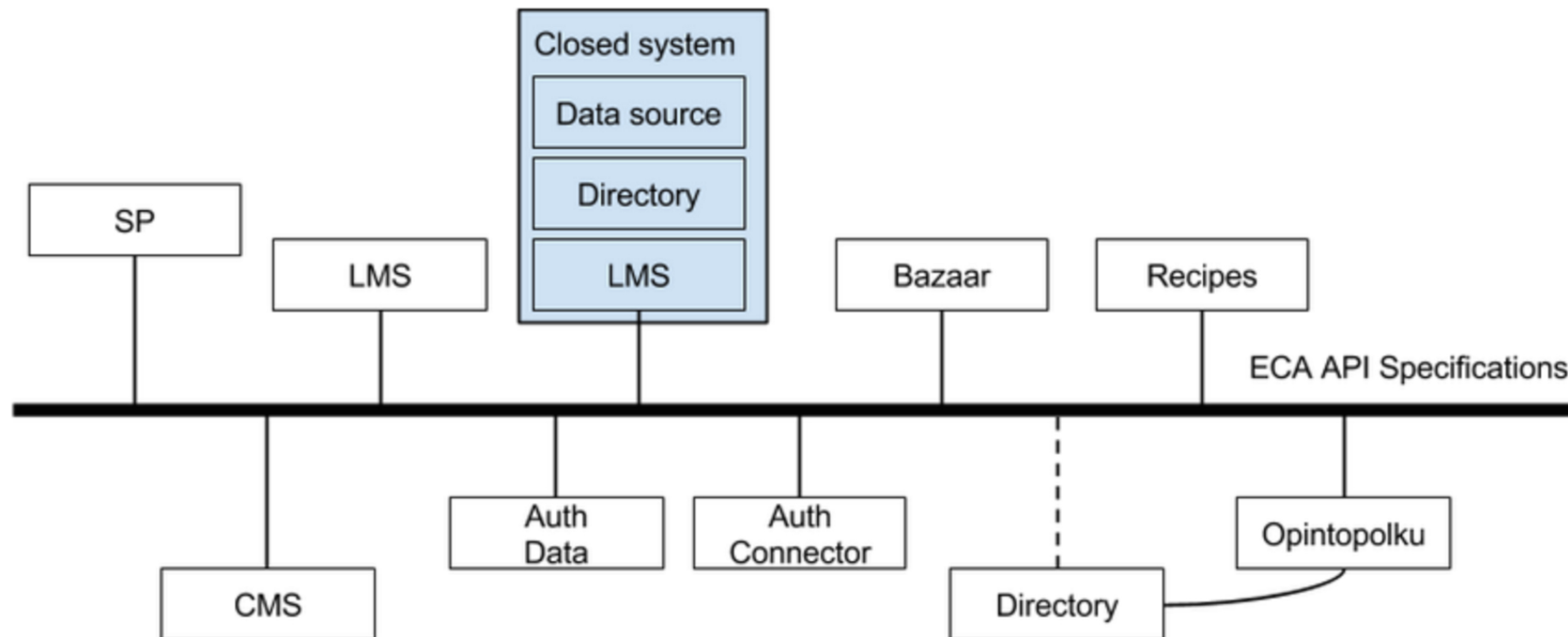


Figure 43 : Qualités attendues de la solution ENT

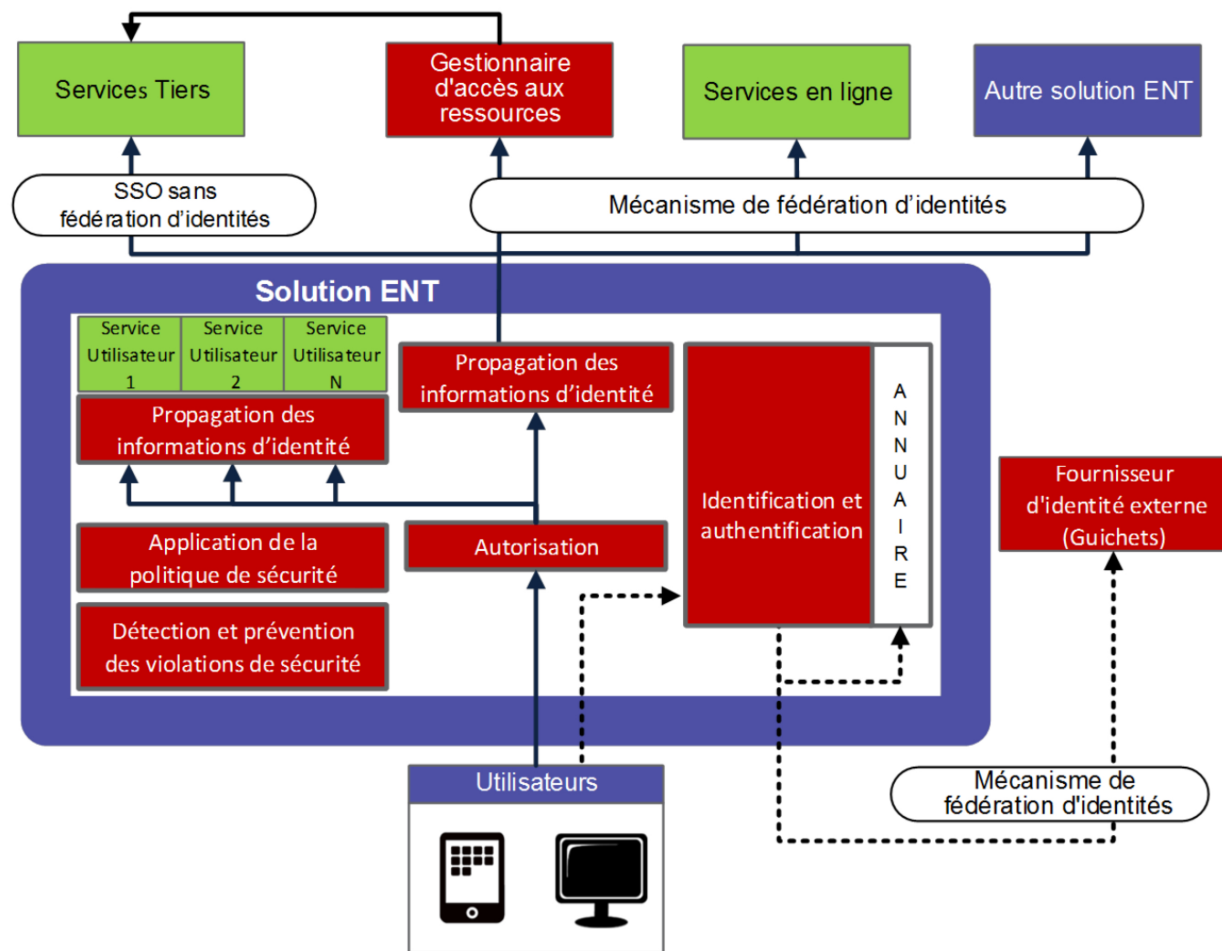


International Architectures





International Architectures

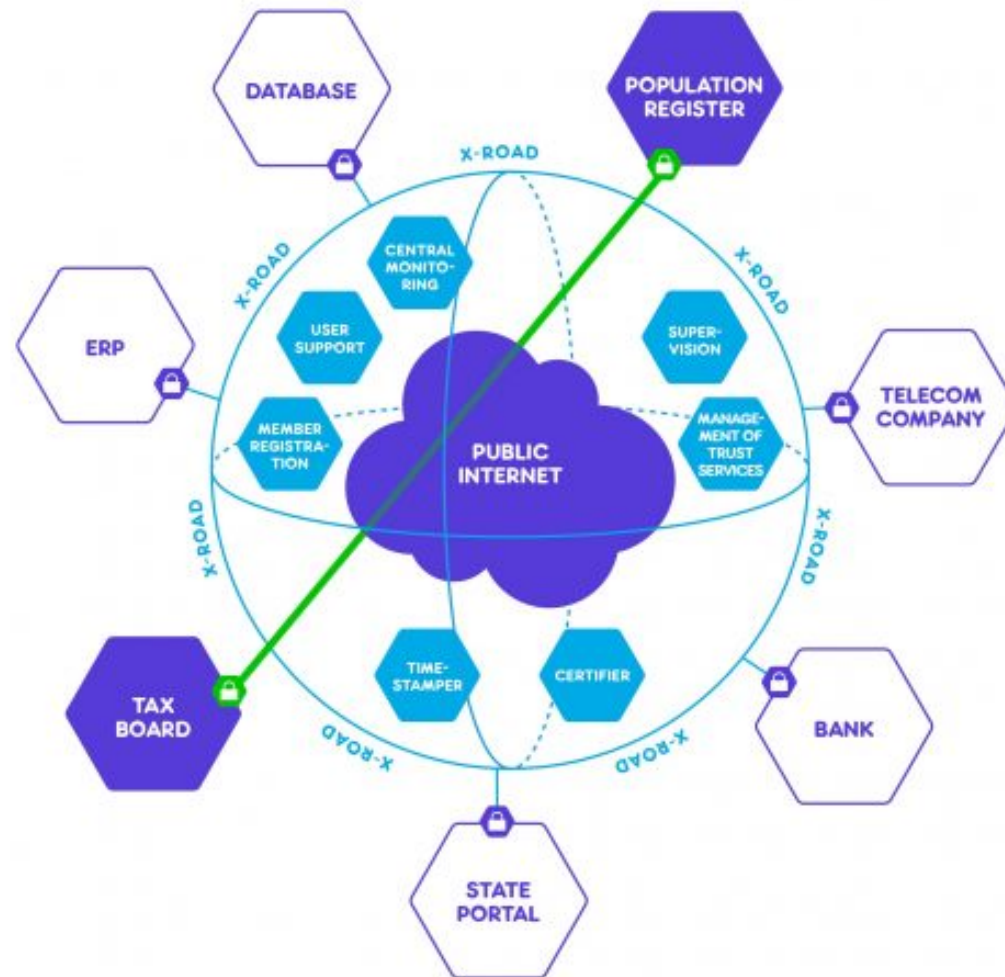


LÉGENDE : -----> Identification/ Authentification





International Architectures





Standards and Frameworks



Open (Finland)

Closed ->Open (France)

Proprietary

Government mandated/ Self-imposed/ externally imposed

GDPR Regulations/ Future thinking ethics related questions





European Interoperability Framework (EIF)

Interoperability Governance



**Legal
Interoperability**



**Organisational
Interoperability**



**Semantic
Interoperability**



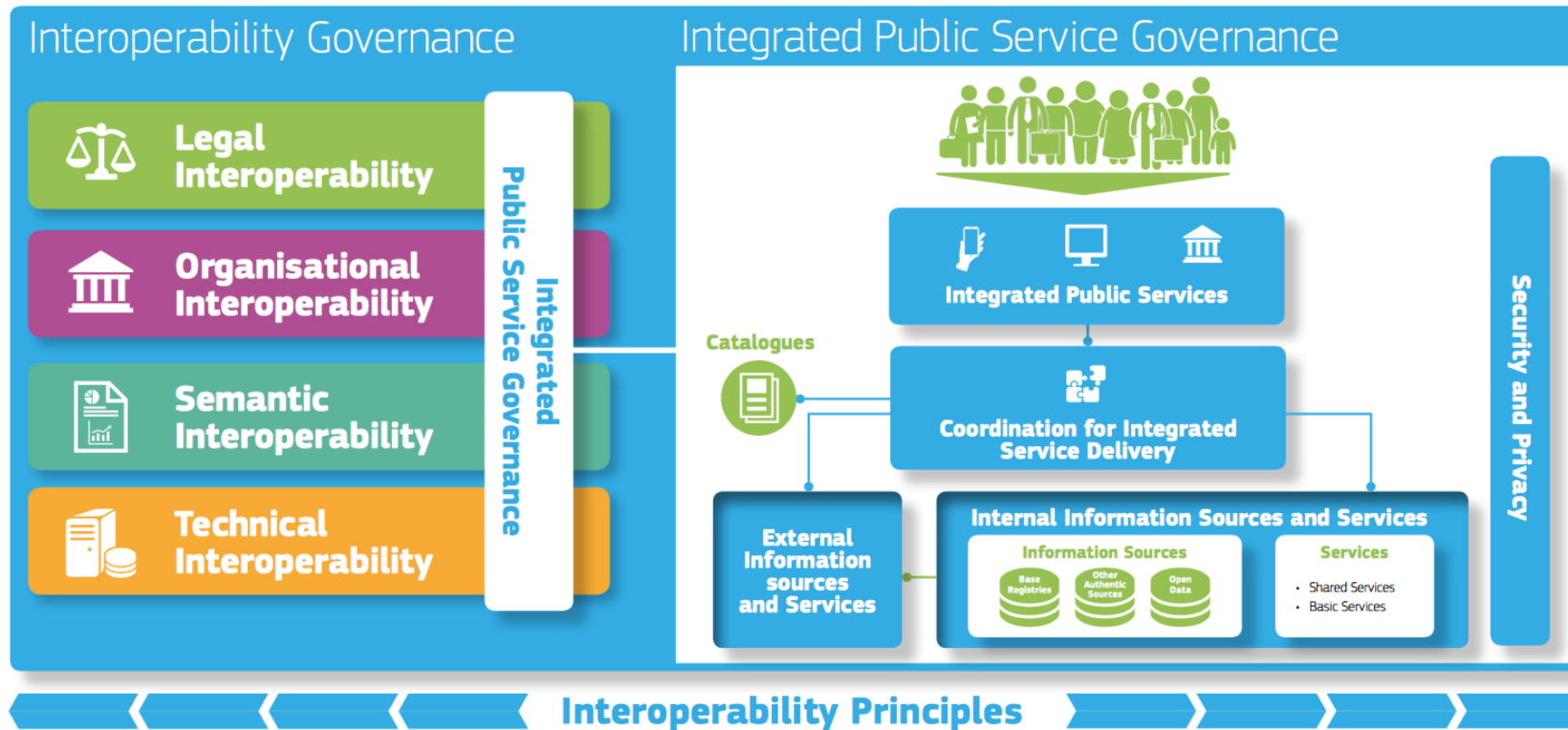
**Technical
Interoperability**

**Integrated
Public Service
Governance**



ISA2 - EIF

EIF Conceptual Model





European Interoperability Framework (EIF)

Underlying principle 1: subsidiarity and proportionality

Underlying principle 2: openness

Underlying principle 3: transparency

Underlying principle 4: reusability

Underlying principle 5: technological neutrality and data portability

Underlying principle 6: user-centricity

Underlying principle 7: inclusion and accessibility

Underlying principle 8: security and privacy

Underlying principle 9: multilingualism

Underlying principle 10: administrative simplification

Underlying principle 11: preservation of information

Underlying principle 12: assessment of effectiveness and efficiency

Interoperability layers

Interoperability governance

Integrated public service governance

Legal interoperability

Organisational interoperability

Semantic interoperability

Technical interoperability





European Interoperability Framework (EIF)



+ Recommendation 33:

Use open specifications, where available, to ensure technical interoperability when establishing European public services.



+ Recommendation 30:

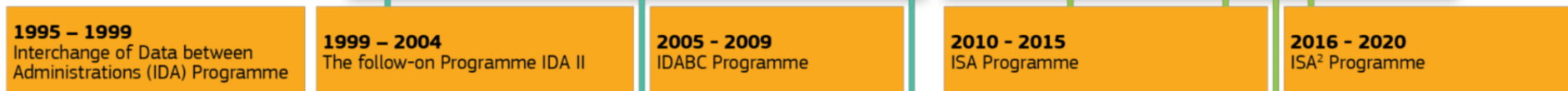
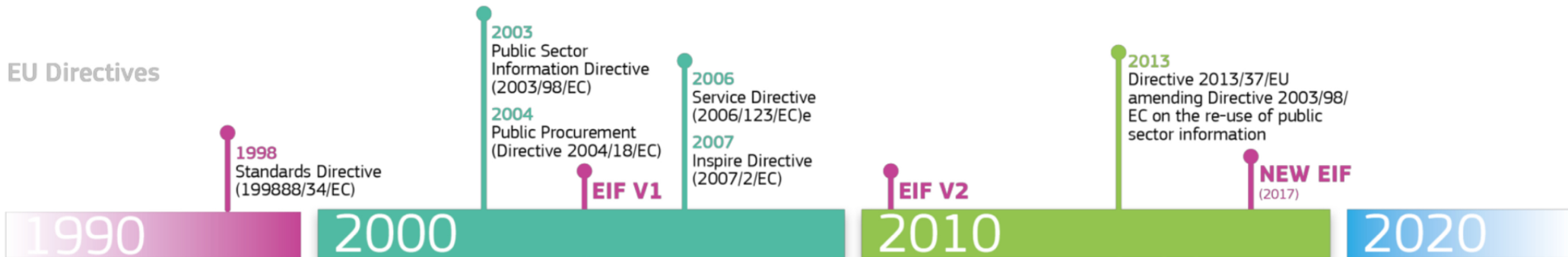
Perceive data and information as a public asset that should be appropriately generated, collected, managed, shared, protected and preserved.





ISA2/ EIRA

EU Directives

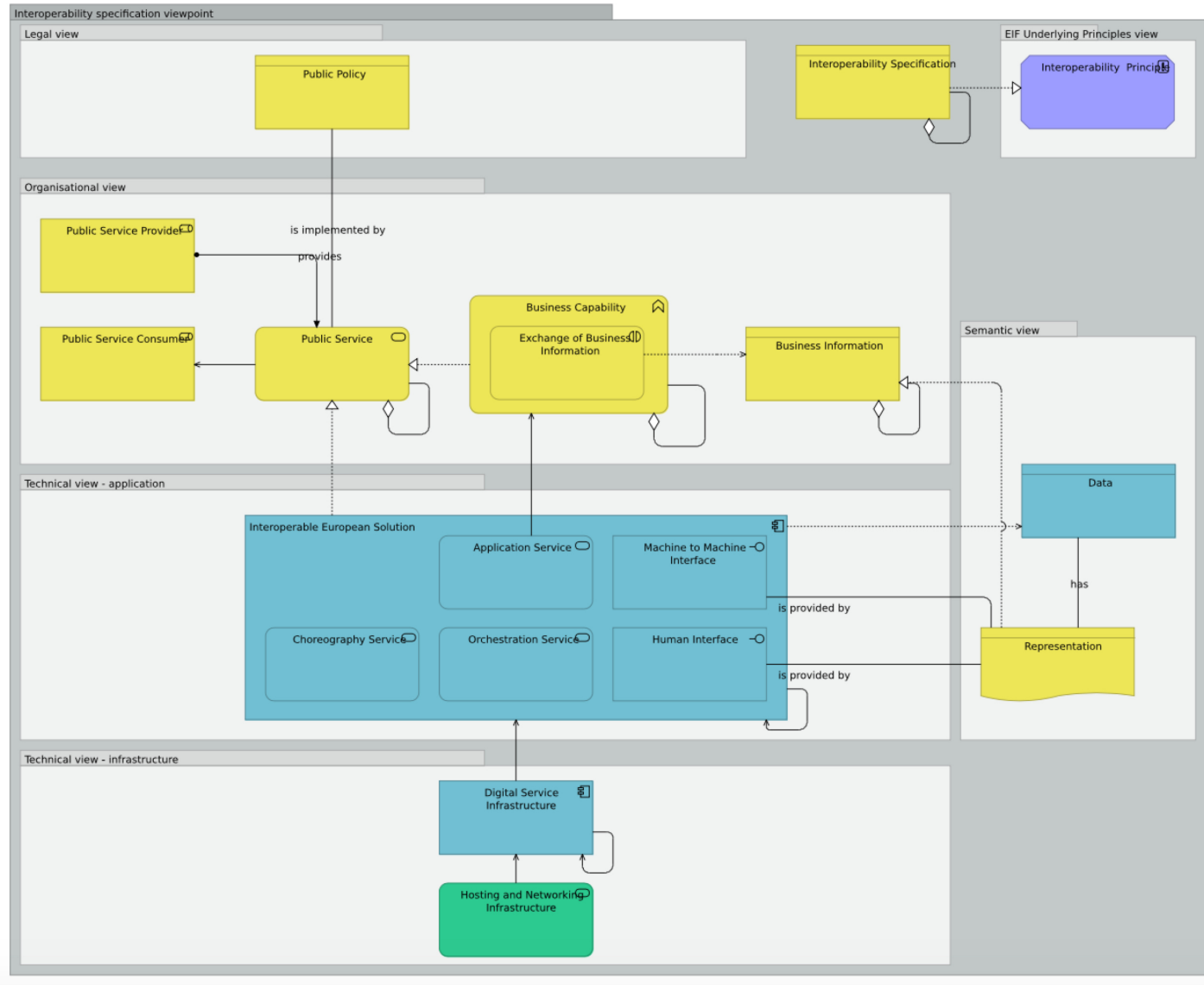


Related EU Initiatives





EIRA



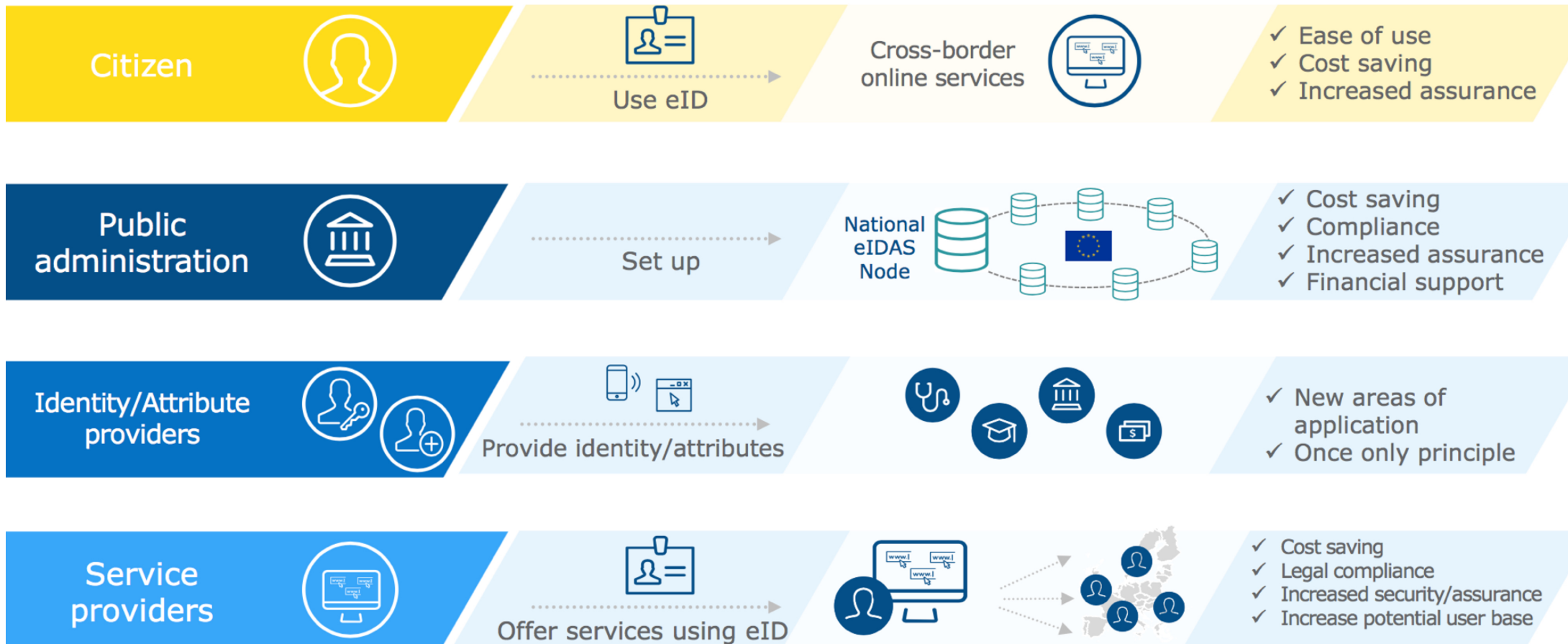


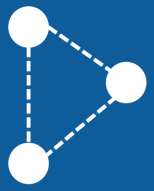
The Regulation states that by **29 September 2018** all online public services requiring electronic identification assurance corresponding to a level of 'substantial' or 'high' must be able to accept the notified eID schemes of other EU countries. Public administrations offering online services that match these requirements are therefore obliged to comply.



EIRA/ eID

The benefits of CEF eID for different actors





Role of Standards



Alignment of standards implemented in a variety of countries

Architecture integration

Influencing agent

EU-Wide framework possibilities

Dankeschön- Questions?

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<https://ec.europa.eu/isa2/>



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