



eIDAS Regulation (EU) 910/2014 and the Connecting Europe Facility

*Boosting trust & security in the
Digital Single Market*

Food Chain in the Digital Single Market
9 November 2016, Brussels

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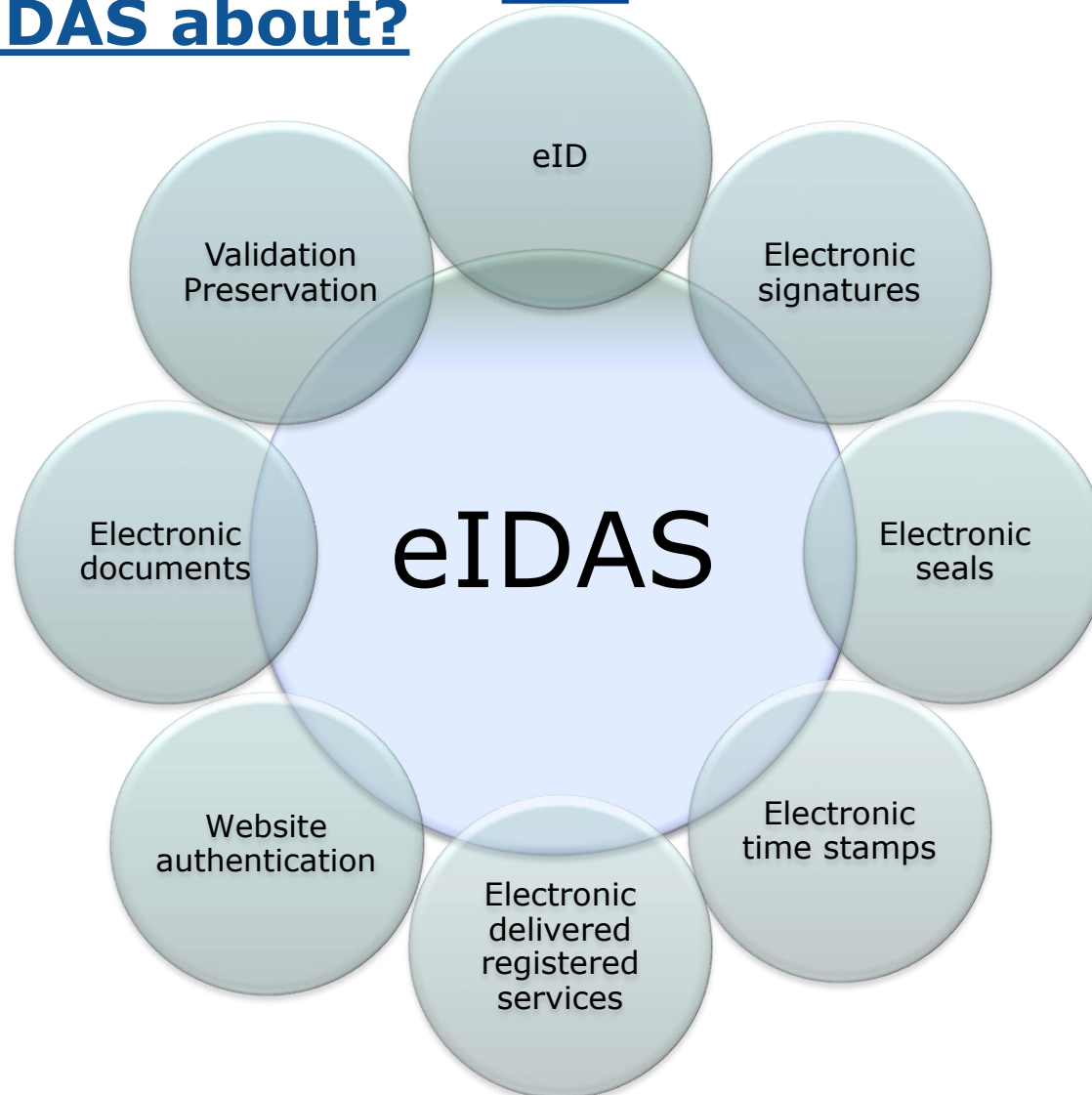
Art 114 TFEU on internal market as the legal basis → Free movement of products and services

One Regulation for eID and trust services **directly applicable in the 28 MS**

28 implementing acts and **1 delegated act** to further specify the technical aspects of the Regulation:

- *eID: 4 implementing acts*
- *eTS: 24 implementing acts and 1 delegated act*

What is eIDAS about?



The eIDAS Regulation provides for eID & TS:

Technological neutrality

Non-discrimination

Interoperability

Cross-border recognition

Legal certainty

Security

Liability



**Horizontal principles: Liability;
Supervision; International aspects;
Security requirements; data protection;
Qualified services; Prior authorisation;
trusted lists; EU trust mark**

**Electronic
signatures
, including
validation
and
preservati
on
services**

**Electronic
seals,
including
validation
and
preservati
on
services**

**Time
stamping**

**Electronic
registered
delivery
service**

**Website
authentic
ation**



eIDAS - Electronic signature and seals

- **Non-discrimination as evidence in legal proceedings** (art.25.1-35.1)
- **Legal effect** (art.25.2-35.2)
 - **Qualified e-Signature:**
 - ✓ only for natural persons
 - ✓ Assimilation to handwritten signature
 - **Qualified e-Seal:**
 - ✓ only for legal persons
 - ✓ Presumption of integrity of the data and correctness of the origin
- **Recognition in all MS of a qualified electronic signature /seal based on a qualified certificate issued in one MS** (art.25.3-35.3)

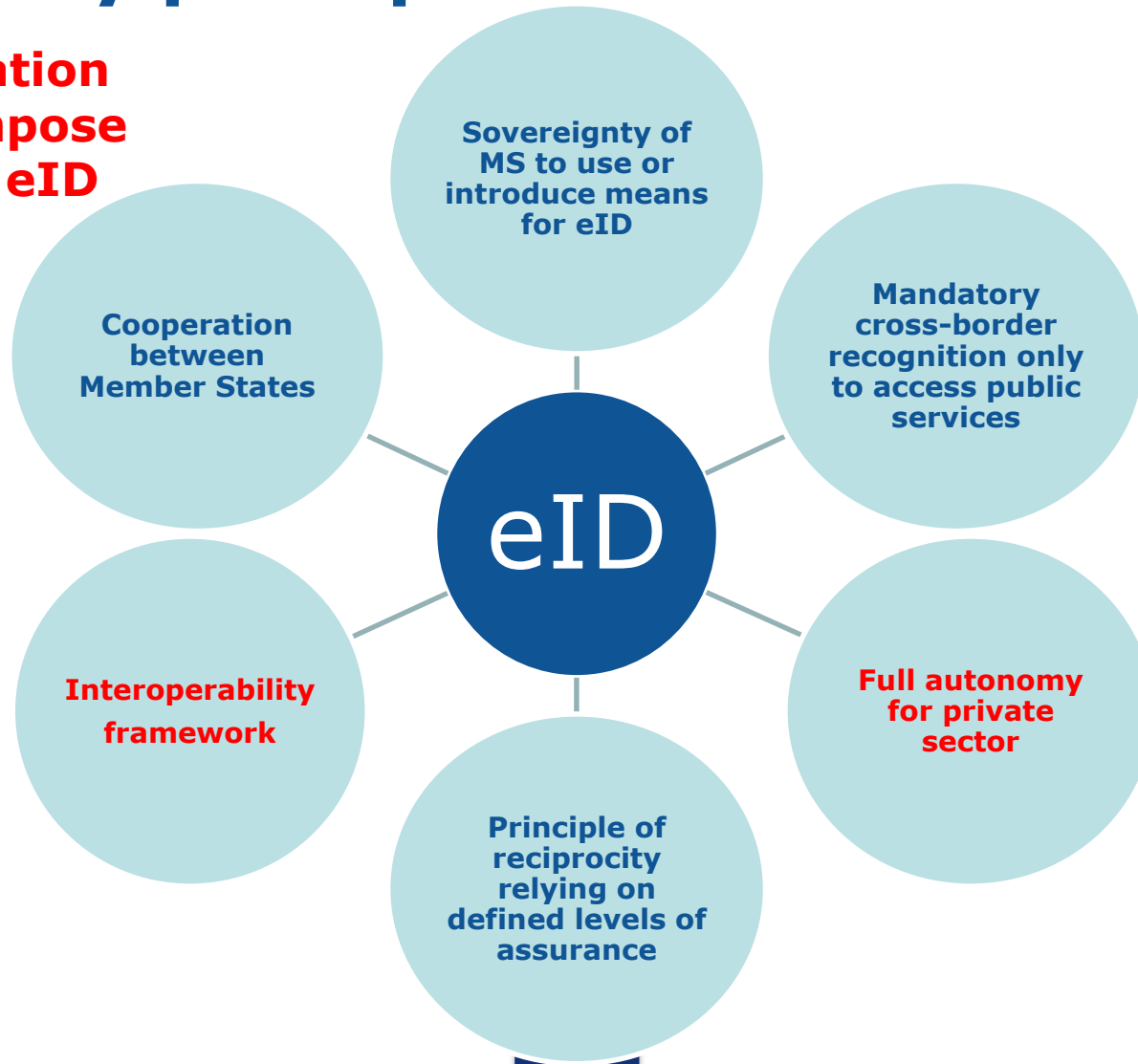
eIDAS - Electronic documents

Non-discrimination of electronic documents vis-à-vis paper documents as evidence in legal proceedings (art.46)

Ensures validity and legal certainty of cross-border electronic transactions through the impossibility for Courts to reject a document on the grounds that it is in electronic form

eIDAS: Key principles for eID

**The Regulation
does not impose
the use of eID**

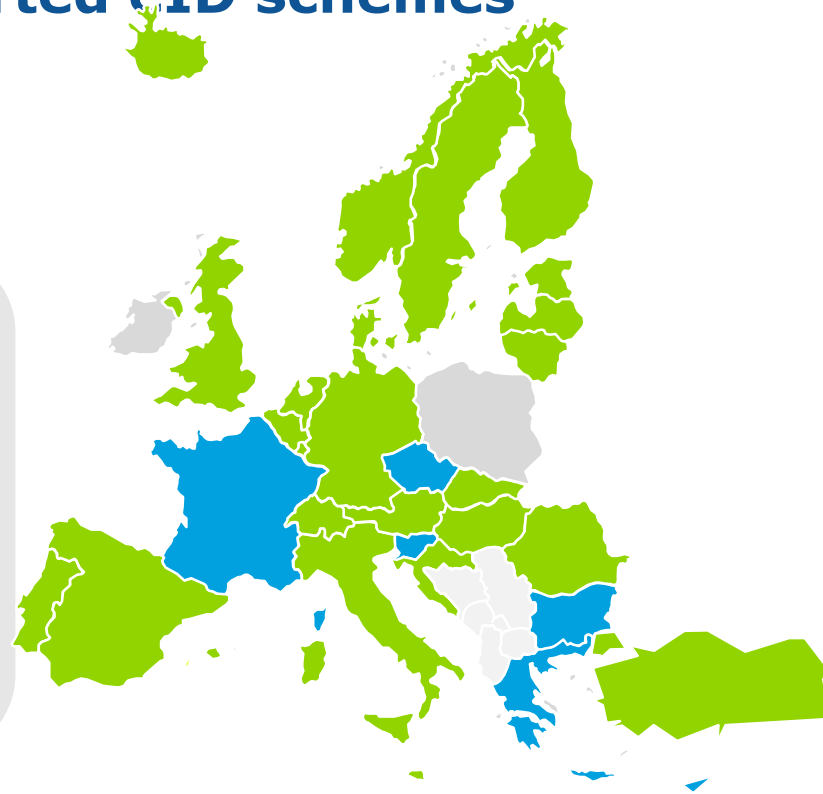


Countries with nationally supported eID schemes

Nearly all Member States (will) have a nationally supported eID scheme in place

Preliminary data from the ongoing CEF eID Stakeholder Analysis Report by Deloitte

- Countries with eID schemes:
AT, BE, DE, DK, EE, ES, FI, HR, HU, IT, IS, LT, LU, LV,
MT, NL, NO, PT, RO, SE, SK, TR, UK
- Countries setting-up national eID schemes:
BG, CY, CZ, EL, FR, SI
- Countries to be confirmed:
IE, PL



Information provided by MSs (as of 1 January 2016):
eID cards in 15 MSs (6 planned), other eID means in 24 MSs
25 MSs having either an eID card or other eID means

Timeline

2014

2015

2016

2017

2018

2019

17.09.2014
**Entry into
force of the
eIDAS
Regulation**

26.11.15 – eID DSI
v.1 eIDAS compliant

eID

29/09/2015
Voluntary cross-border recognition

29/09/2018
**Mandatory cross-
border recognition**

**Trust
services**

**eSignature Directive
rules**

1.07.2016
**Date of application of eIDAS rules for trust
services**



The eIDAS Legal Framework

	Legal Act	Reference	Adoption date	Entry into force
	eIDAS Regulation	910/2014	23.07.2014	17.09.2014 (1.07.2016 - application provisions on TS)
eID	ID on procedural arrangements for MS <u>cooperation</u> on eID (art. 12.7)	2015/296	24.02.2015	17.03.2015
	IR on <u>interoperability framework</u> (art. 12.8) <i>Corrigendum C(2015) 8550 of 4.02.2016</i>	2015/1501	8.09.2015	29.09.2015
	IR <u>assurance levels for electronic identification means</u> (art. 8.3)	2015/1502	8.09.2015	29.09.2015
	ID on circumstances, formats and procedures of <u>notification</u> (art. 9.5)	2015/1984	3.11.2015	5.11.2015 (notified to Ms)
Trust services	IR on <u>EU Trust Mark</u> for Qualified Trust Services (art.23.3)	2015/806	22.05.2015	12.06.2015
	ID on technical specifications and formats relating to <u>trusted lists</u> (art. 22.5)	2015/1505	8.09.2015	29.09.2015
	ID on <u>formats of advanced electronic signatures and seals</u> (art. 27.5 & 37.5)	2015/1506	8.09.2015	29.09.2015
	ID on <u>standards for the security assessment of qualified signature and seal creation devices</u> (art. 30.3 & 39.2)	2016/650	25.04.2016	05.2016

Where does eIDAS have an impact?



UMM&DS - Uniform User Management and Digital Signatures

eHGI - eHealth Governance Initiative

ECI - European Citizens' Initiative

ESSN - European Social Security Number

SUP - Directive on single-member private limited liability companies

PSD2 - Revised Directive on Payment Services

AML4 - 4th Anti-Money Laundering Directive

EU e-Government Action Plan 2016-2020. Accelerating the digital transformation of government ([COM\(2016\) 179 final](#))

Underlying principles:

*Digital
by
Default*

*Once
only
principle*

*Inclusiveness
and
accessibility*

*Openness
and
transparency*

*Cross-border
by
default*

*Interoperability
by
default*

*Trustworthiness
and
Security*

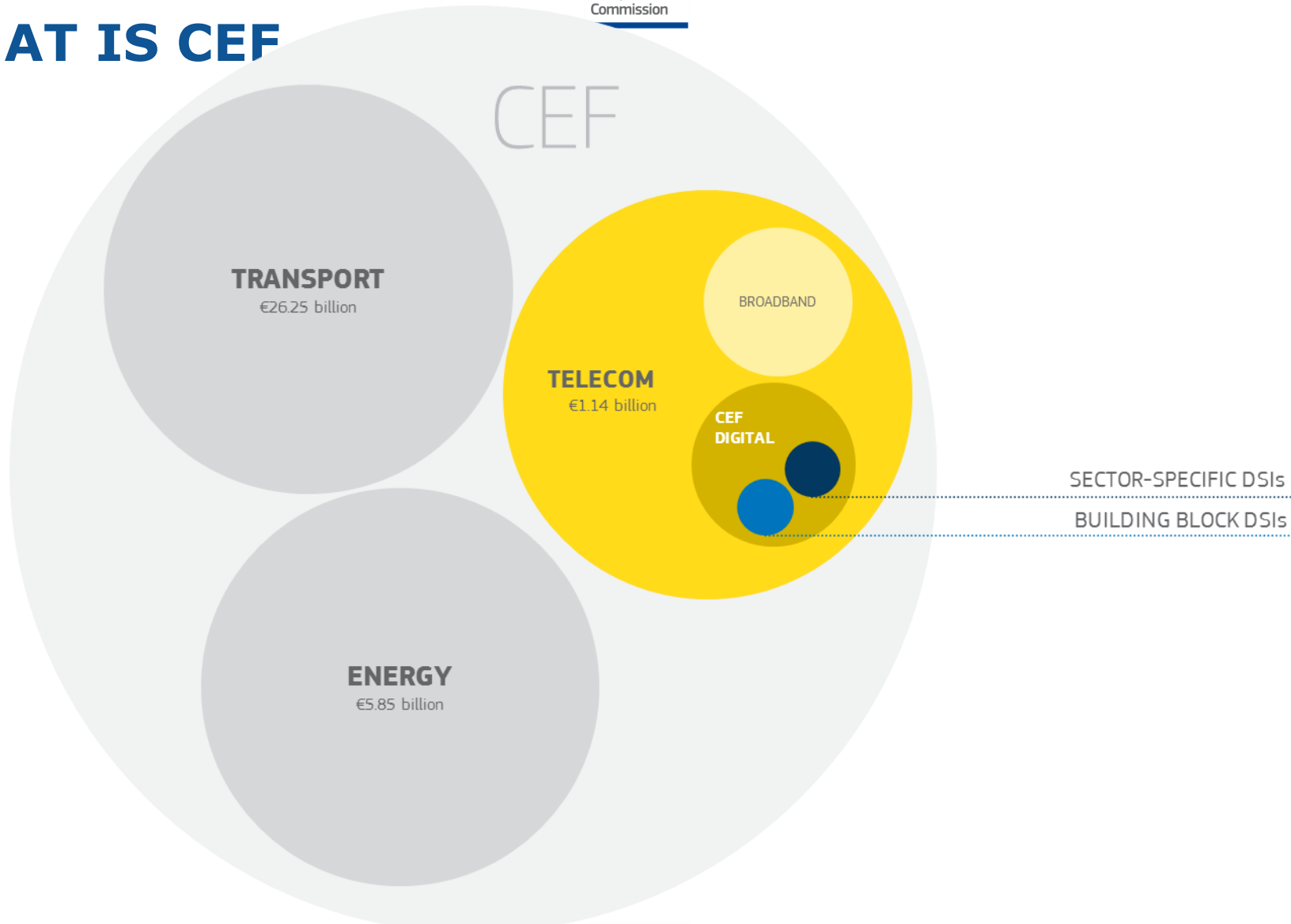
References to eIDAS: Policy priority 1 ("Modernise public administration with ICT, using key digital enablers") - actions:

- *"Further efforts by all administrations are needed to accelerate the take up of electronic identification and trust services for electronic transactions in the internal market [...] actions to accelerate cross-border and cross-sector use of eID (including mobile ID) in digitally enabled sectors (such as banking, finance, eCommerce and sharing economy) and in the public sector namely on the European e-Justice Portal. The Commission will also explore the need to facilitate the usage of remote identification and secure authentication in the retail financial services"*
- *"The Commission will gradually introduce the 'digital by default' principle when interacting online with external stakeholders, using eIDAS services (in 2018), eInvoicing (in 2018) and eProcurement (in 2019)."*



European
Commission

WHAT IS CEF



WHAT IS A BUILDING BLOCK

THE CORE OF THE CEF BUILDING BLOCKS ARE INTEROPERABILITY AGREEMENTS that have demonstrated to facilitate cross-border/ cross-sector technical interoperability in the delivery of digital services, in particular eGovernment digital services.

A BUILDING BLOCK IS A PACKAGE COMPOSED OF INTEROPERABILITY AGREEMENTS, SERVICES AND SOMETIMES SAMPLE SOFTWARE that accelerate and facilitate the adoption of common technical specifications with minimal (or no) adaptations. These interoperability agreements are typically based on existing formalised technical specifications and standards.



Digital Service Infrastructures



Europeana	Safer Internet	eJustice
ODR	eHealth	eProcurement
EESSI	Open Data Portal	BRIS

more can be added in the future

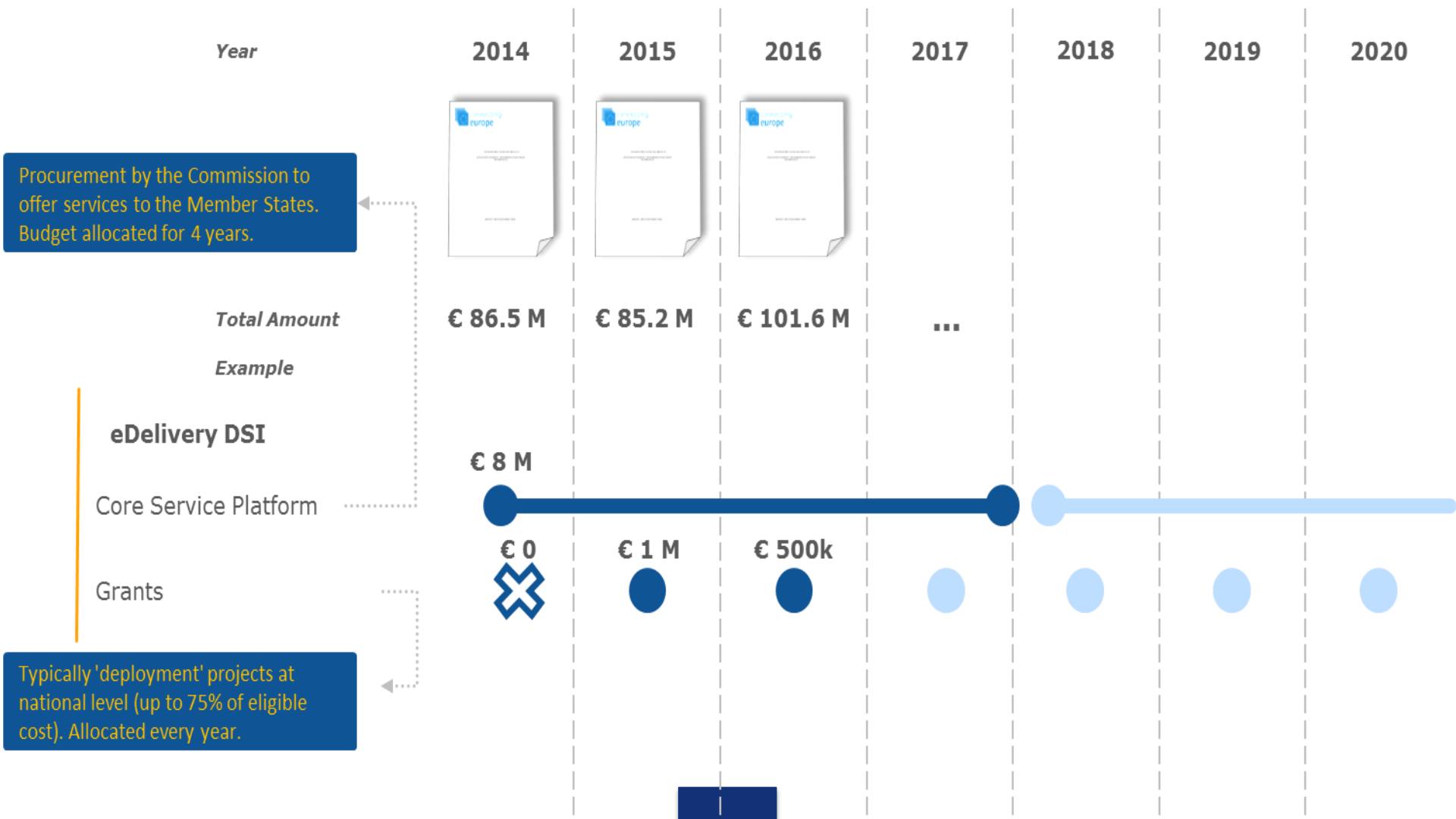
Sector Specific DSIs

eDelivery	eID	eSignature
eInvoicing	eTranslation	Cyber-security

more can be added in the future

Building Blocks DSIs

CEF Work Programmes: DSIs' funds are planned every year



Year

2014

2015

2016

2017

2018

2019

2020



Procurement by the Commission to offer services to the Member States. Budget allocated for 4 years.

Total Amount

€ 86.5 M

€ 85.2 M

€ 101.6 M

...

Example

eDelivery DSI

€ 8 M

Core Service Platform

Grants



€ 1 M

€ 500k

Typically 'deployment' projects at national level (up to 75% of eligible cost). Allocated every year.

CEF eDelivery



Adoption of
eIDAS

eIDAS TS
entry into
application

APRIL

APRIL

JUNE

JULY

MAY

JULY

2013

2014

2014

2014

2015

2016

Piloting of eDelivery by epSOS, PEPPOL, SPOCS and eCODEX

e-SENS
Launch of the eDelivery Convergence

CEF eDelivery
Start activity

e-SENS
eDelivery agreement on Target Architecture & Technical Specifications

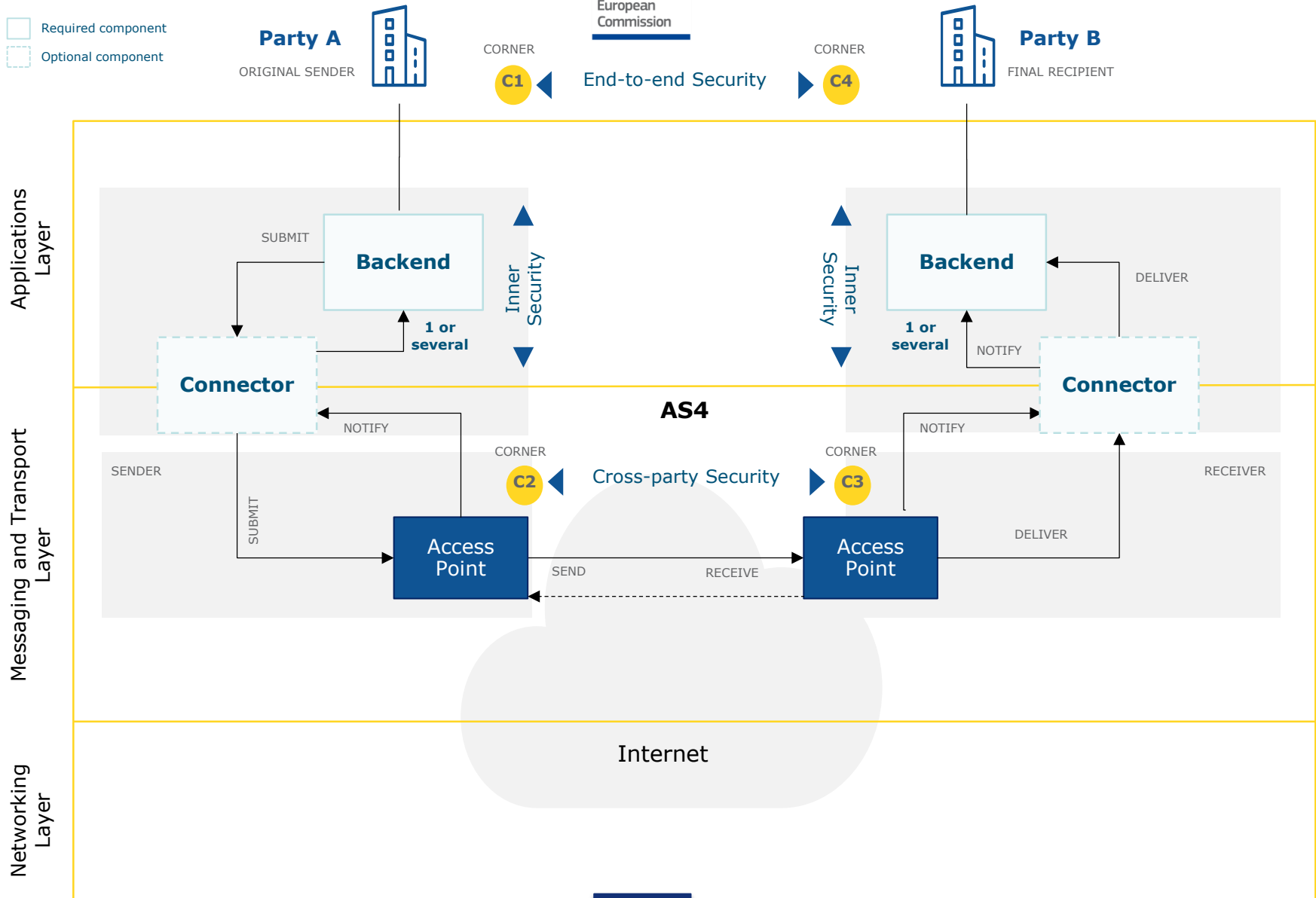
- Access Point** e-SENS profile of the ebMS3 and AS4 OASIS Standards
- Certificates** ETSI - Electronic Signatures and Infrastructures
- SML** OASIS BDXL Specification
OASIS ebCore Party ID Type Technical Specification
- SMP** OASIS SMP Specification
- Connector** ETSI REM for evidences

e-SENS
Interoperability Testing with different software vendors

4-Corner Model



- Required component
- Optional component



Uptake of eDelivery



<https://ec.europa.eu/cefdigital/wiki/x/zQK6AQ>

CEF Projects

ODR	DG JUST	
eHealth	DG SANTE	
eProcurement	DG GROW	NEW
EESSI	DG EMPL	
EU e-Justice portal	DG JUST	
BRIS (ECP)	DG JUST	
Cybersecurity	DG CONNECT	
eTranslation	DGT	

Cross-border implementations

FLUX	DG MARE	
CISE	DG MARE	
EU-CEG	DG SANTE	
LRI	DG JUST	
EUGO	DG GROW	
ECRIS	DG JUST	NEW
PNR	DG HOME	NEW
Tachonet	DG MOVE	NEW

Commission Managed Services

ePrior	DIGIT	
e-TrustEx	DIGIT	

Member States led projects

e-SENS Pre-award pilot	LSP	
e-CODEX	LSP	
OpenPeppol	LSP	
e-SENS	LSP	

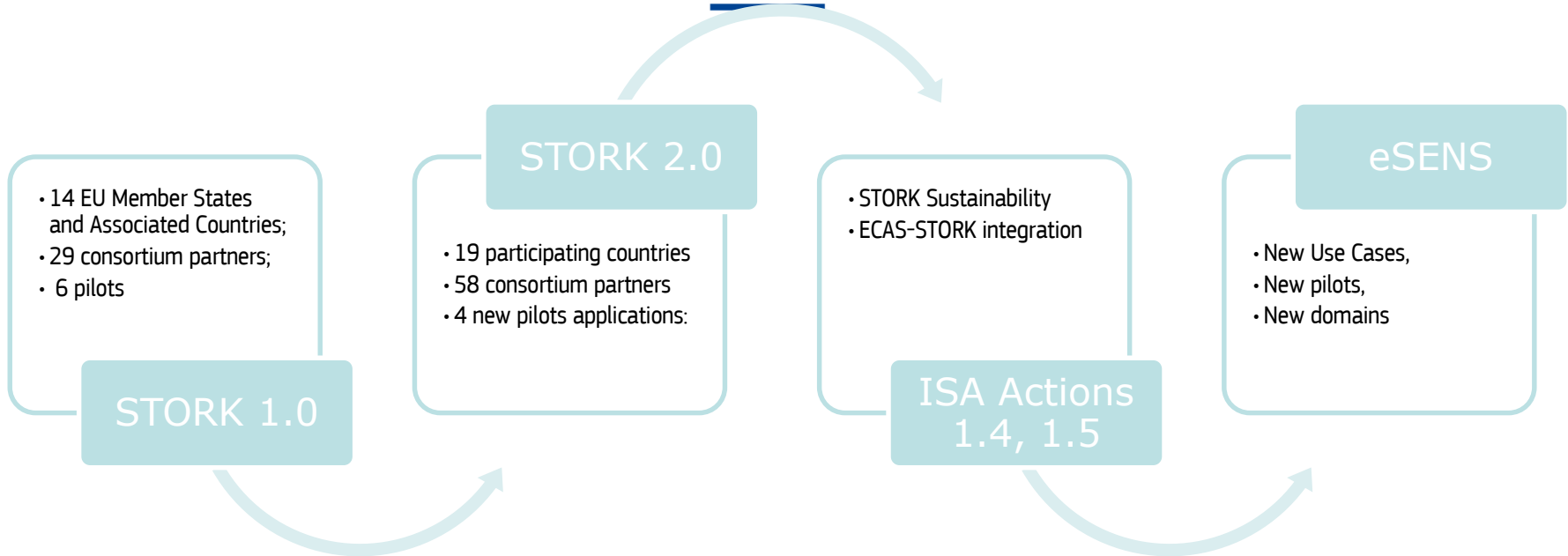
Other EU institutions

CISH	The European Council	NEW
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Commitment to analyse
 Commitment to reuse
 Reusing
 Update since Q2'16

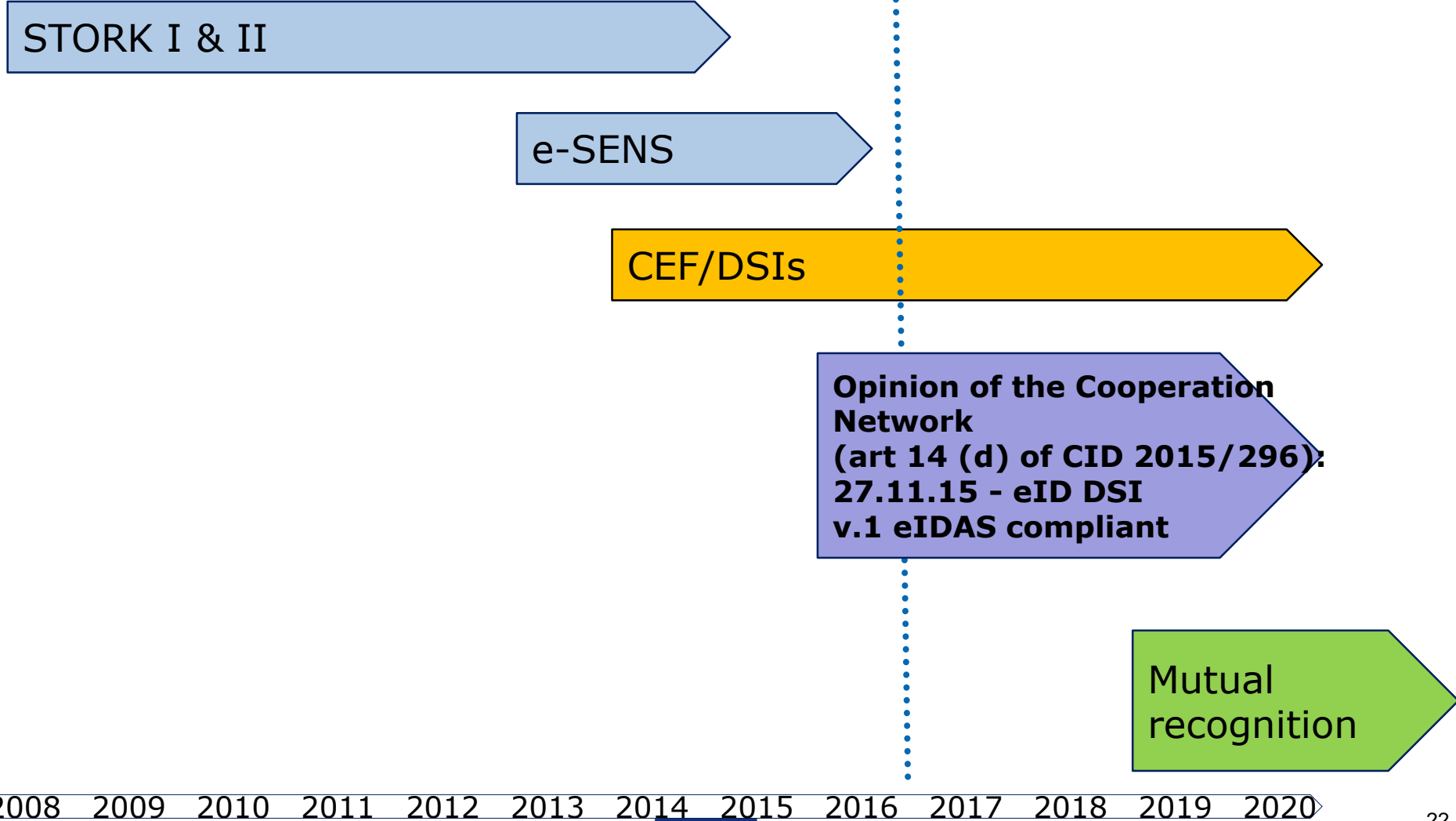


European
Commission



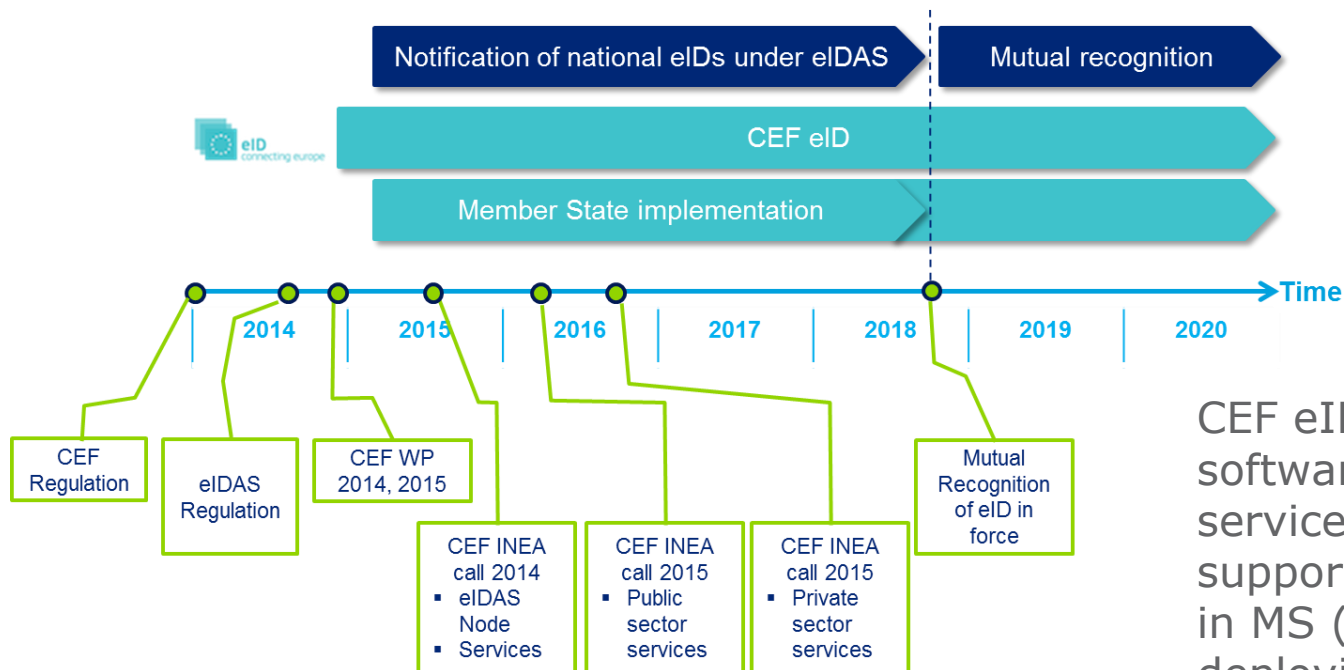
You don't have to reinvent
the wheel.

Interoperability infrastructure under CEF



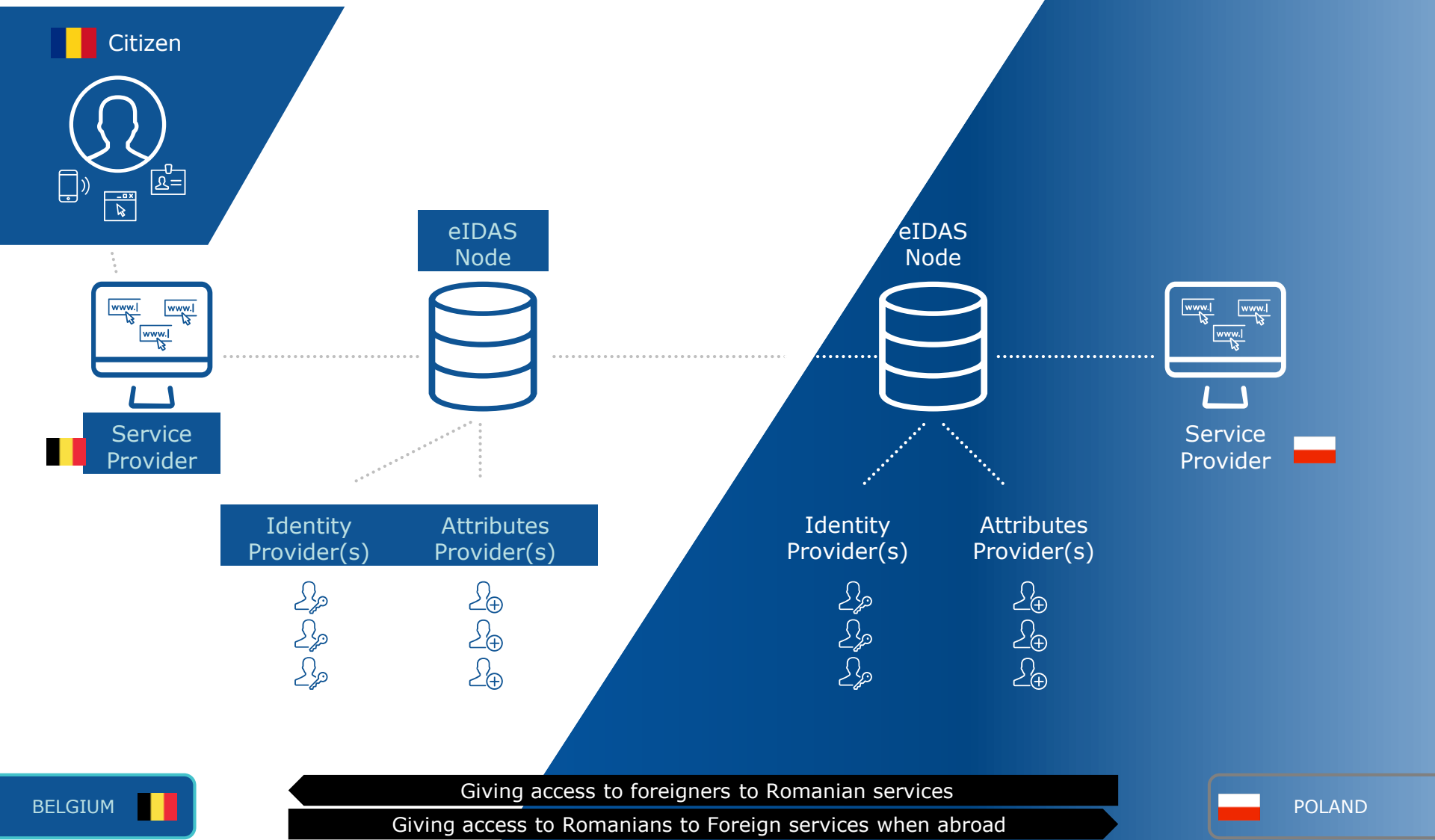
eIDAS & CEF eID timeline

- **eIDAS Regulation** established a legal framework and trust model for the mutual recognition of notified nationally supported eIDs across borders
 - **By Sep 2018 public administrations who offer services that require online authentication must accept notified eIDs from other Member States**



CEF eID: CEF provides software and support services; financially supports the deployment in MS (min. 10 MS are deploying it)

Typical scenario: Accessing a service using your national eID



BELGIUM

Giving access to foreigners to Romanian services
Giving access to Romanians to Foreign services when abroad

POLAND



- *Open-source software library:*
 - Digital Signature Services (DSS)
- *Trusted List management software:*
 - **Trusted List Manager (TL Manager)**

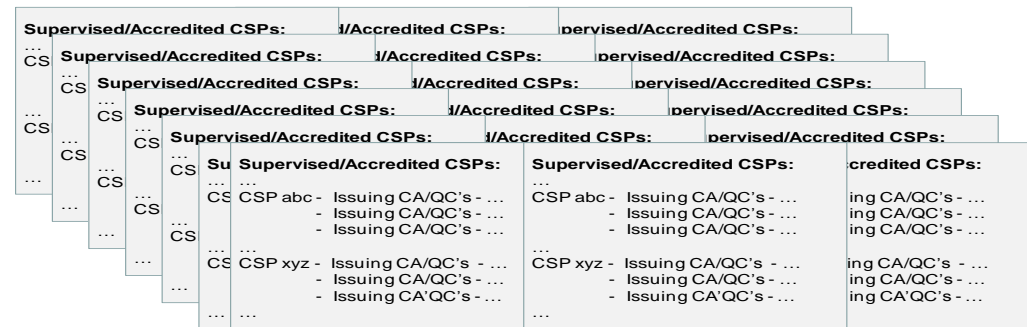
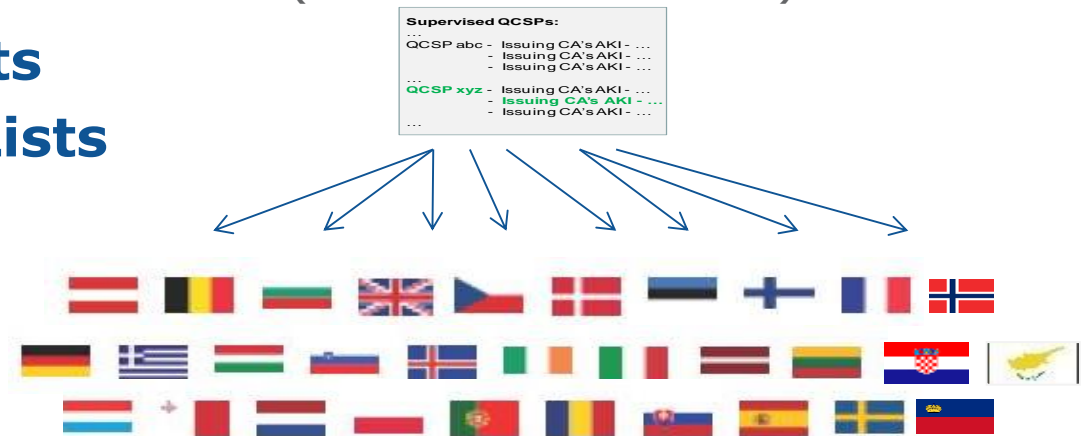


Trusted List Manager



Centralised list of pointers to national
Trusted Lists
(List of Trusted Lists)

- *Management of:*
 - **List of Trusted Lists**
 - **National Trusted Lists**



National Trusted Lists

Digital Signature Services (DSS)



- **Open-source software library**
- **Creation, extension** and **validation** of eSignatures/eSeals, checking them against trusted lists for qualified status
- **Features**
 - eIDAS-aligned.
 - Open-source software under LGPL 2.1.
 - Written in Java (version 1.7 and above).
 - Supports validation of countersignatures and multiple signatures.
 - Flexible library that can be:
 - Reused in different topologies: In an applet, as a stand-alone application, server-based, or any combination.
 - Used in its entirety or on a module-by-module basis.
 - Adapted to numerous usages via configuration files or extension points.
 - Support standards on e-Sig/e-Seals.
 - Transparent use of signature creation devices (e.g. Smartcards, Hardware Security Modules, software).

For further information and feedback

Web page on eIDAS

<http://ec.europa.eu/digital-agenda/en/trust-services-and-eid>

eIDAS Observatory

<https://ec.europa.eu/futurium/en/eidas-observatory>

Text of eIDAS Regulation in all languages

<http://europa.eu/!ux73KG>

Connecting Europe Facility – Catalogue of Building Blocks

<http://europa.eu/!DN99RQ>

eIDAS functional mailbox & twitter account

CNECT-TF-eIDAS-LT@ec.europa.eu

[@EU_eIDAS](https://twitter.com/EU_eIDAS)

