



DG DIGIT D3

Apostolos Apladas

Trust Services Forum - CA Day 2020

22nd September 2020, Berlin



Index

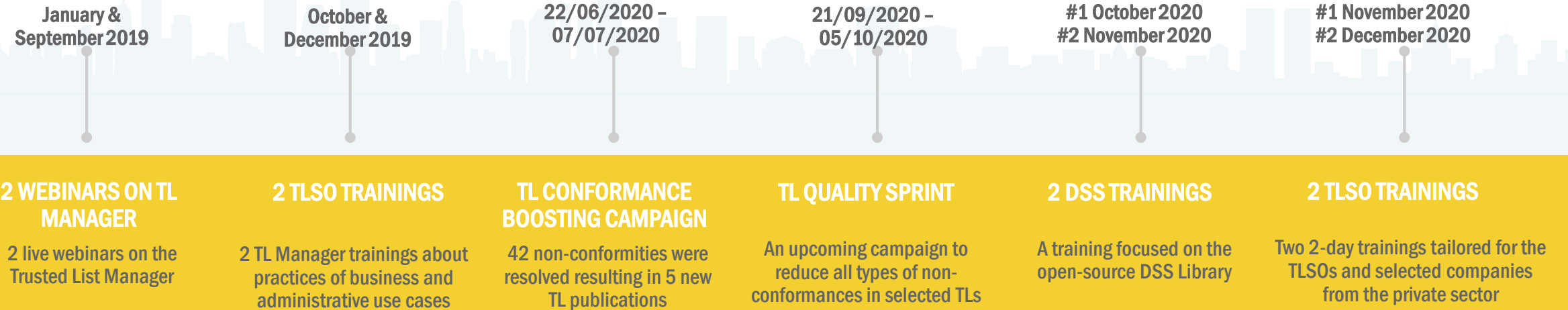
CEF eSignature at glance	3
Current Status	5
International Preparedness of CEF eSignature	6
EU Sign at glance	8
EU Sign statistics	10
Current Status - Success Story	11
EU Sign future capabilities	13
CEF eDelivery at glance	15
CII Task Force	19
Q&A	24



**CEF eSignature
at glance**

CEF eSignature

Trusted List Scheme Operators (TLSOs) manage the trusted list of each Member State. CEF eSignature provides the TLSO Community with **continuous support and trainings** in an effort to reduce conformance errors in the Trusted Lists

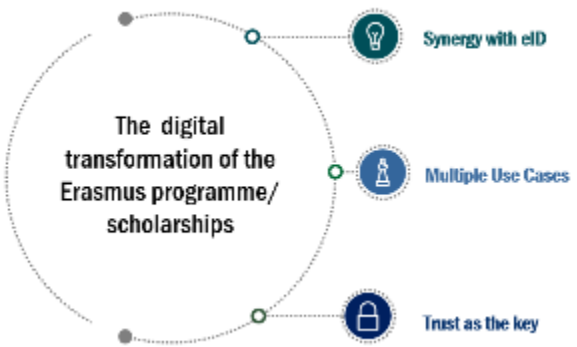


Marketing Campaigns are a big part of the eSignature’s efforts to create awareness and interest in Trust Services

August 2020
eSignature and the Health Care Sector after COVID-19



October 2020
eSignature and Higher Education Institutions



Current status

An overview of the current status of eSignature*

TLSO Community

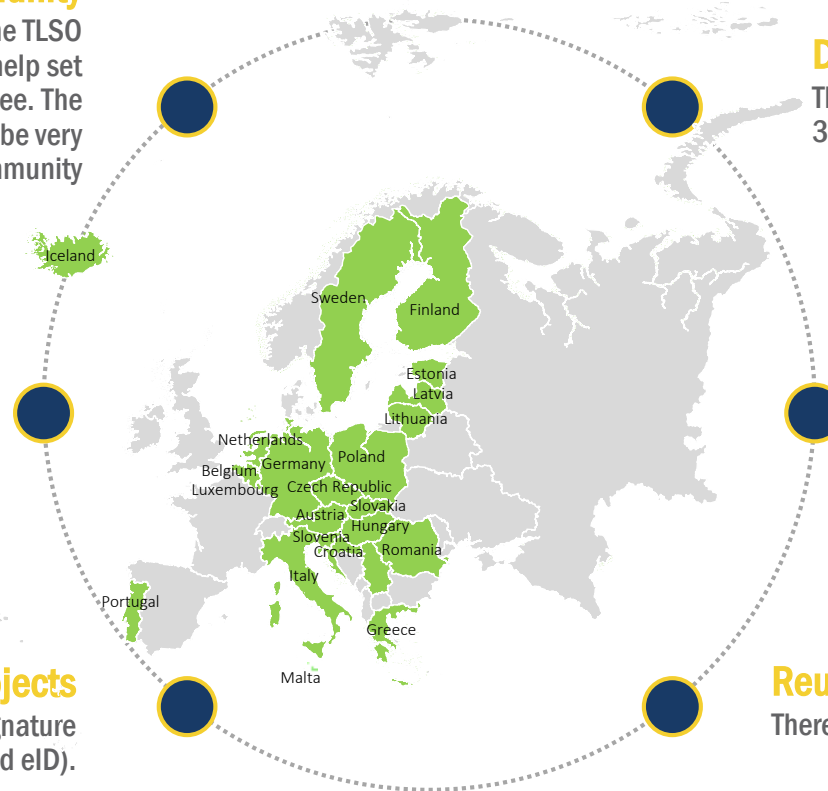
30 different countries are part of the TLSO Community. The goal of this community is to help set up Trusted Lists and to keep them error-free. The countries in green are the TLSOs known to be very active members of the community

Qualified Trust Service Providers

There are 186 Qualified Trust Service Providers active in the EU

Projects

58 Generic projects have been awarded to eSignature (and eID).



DSS Libraries

The DSS Libraries have been downloaded more than 31.449 times

Conformance Checks

34.196 performed conformance checks using ETSI Conformance Checker

Reuse of eSignature

There are 63 initiatives that reuse eSignature

*Numbers updated on 06/08/2020
Numbers collected as of September 2016

International preparedness of CEF eSignature

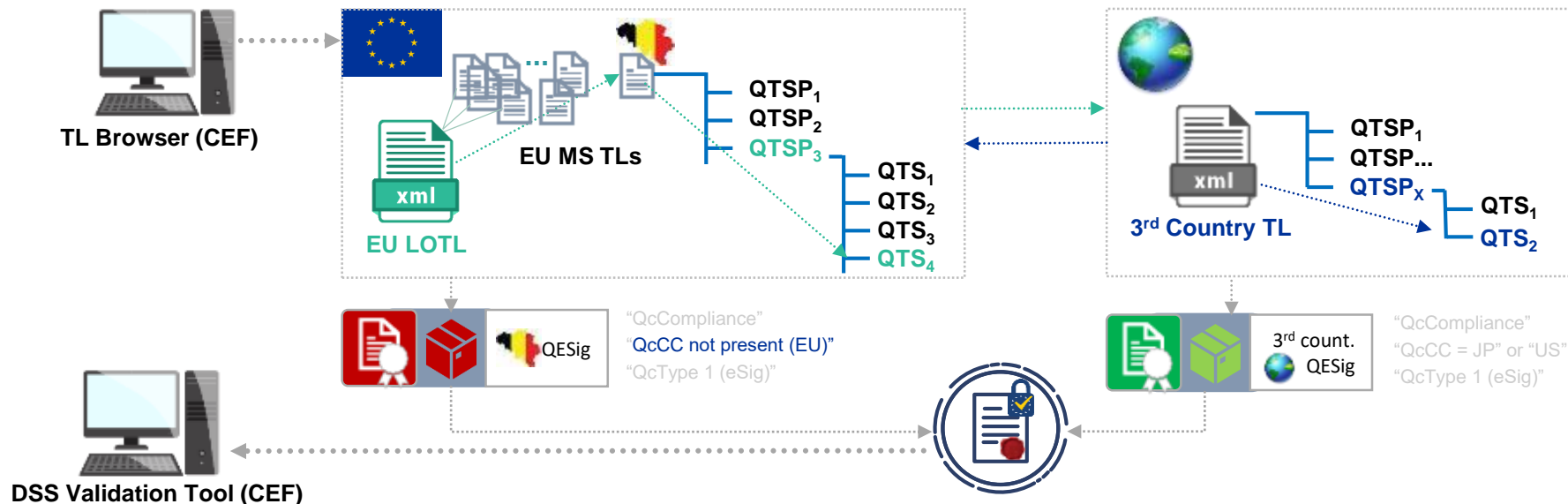
Paving the ground for future Article.14 mutual recognition of Trust Services



A unified approach

There is currently no mutual recognition between EU qualified Trust Services and Trust Services from non-EU countries. The project delivered 2 outcomes for any 3rd country willing to increase its interoperability with Europe:

- 1) **An international preparedness program documentation** allowing 3rd countries to self-assess their readiness for local trust services to be recognised as equivalent to EU qualified trust services. This includes guidance on requirements, reference implementations and technical pilot facilities.
- 2) **Enhancements to CEF eSignature products**, e.g. TL Manager, TL Browser and the EU LOTL in order to accommodate the trust anchors of the 3rd country trust services and trust service providers once they are recognised as equivalent to EU QTSP/QTS



International preparedness of CEF eSignature

Project Roadmap

01/05/2020

01/06/2020

01/07/2020

01/08/2020

Step 1: Compatibility Scenarios

- Legal context (regarding TSP, TS, QC, QSCD, ...)
- Supervision and auditing systems
- Best practices: certificate policies, certificate profiles
- Trust representation: trusted list

Step 2: Technical Process

- Formats for electronic signatures/seals
- Formats for certificate statements
- Standards for certificate policies

Step 3: Recognition Execution

- Representation of the recognition
- Necessary adaptations (e.g. tools)
- Steps to be taken by third countries to link EU LOTL
- Validation guideline for third countries

Step 4: LOTL/TL setup

- Declare a new pointer in LOTL
- Create a third countries TL

Step 4: Update "DSS" library

- Interpret the new pointer in LOTL
- Download the new TL
- Understand the third country mapping

Step 4: Update Trusted List Browser application

- Display new LOTL pointer as new category
- Display details of the new pointer

Step 5: Technical Testing

- Validation on test infrastructure



Delivery

Step 6: UAT

- Testing and deployment on CEF

EU Sign at glance



EU Sign fosters the provision of secure and interoperable trust services to European Institutions, Bodies and Agencies

SIGN

SEAL

VALIDATE

EXTEND

TIME-STAMP

LATEST FEATURES



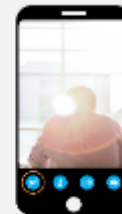
Brand new mobile-friendly user interface

EU Sign received a fresh look which is mobile friendly.



SMS Challenge code as a second factor authentication method

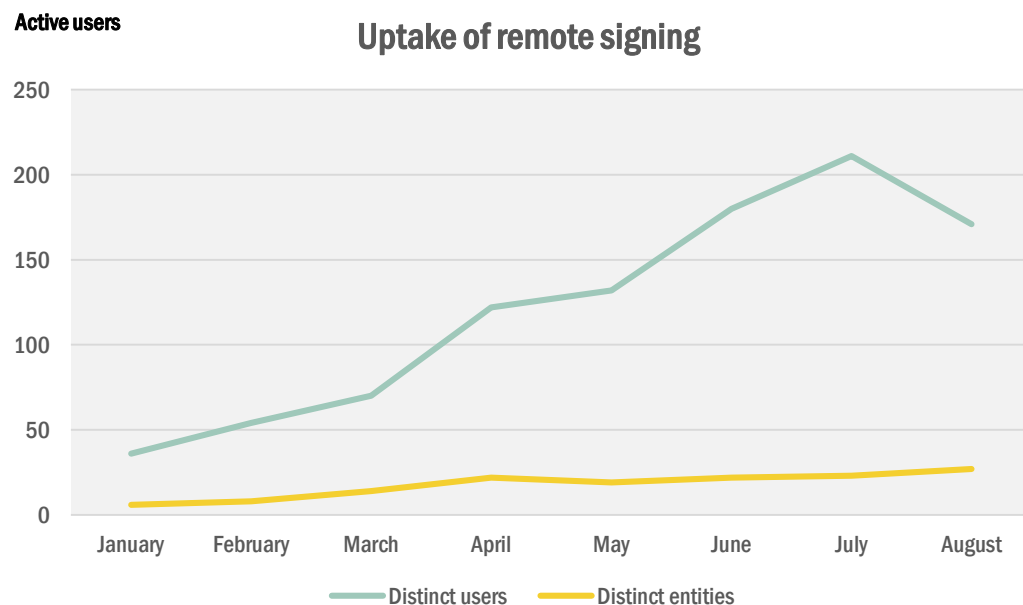
Guaranteed identification at the signing time.



Remote identification via video call

Identification of the future certificate holders by the QTSP takes place via video call.

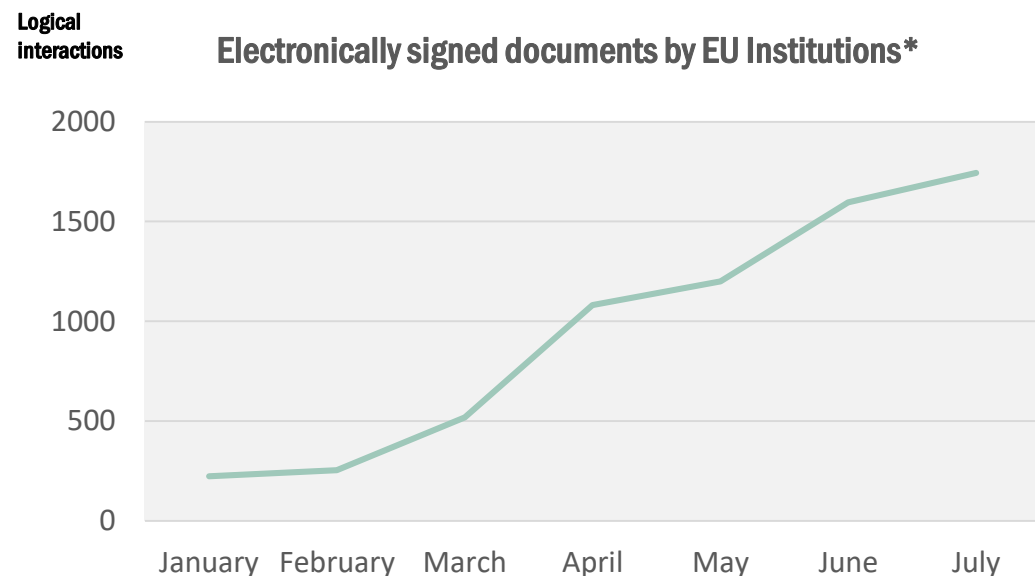
EU Sign Statistics – Covid-19 accelerates the need for digitalization



4.8x

Active users over the past months

EU Sign has the qualities to be established as a **cross-institutional signing service**



7.8x

Documents signed per month by using **qualified cloud certificates**

* using EU Sign service

Current Status – Success Story

EU Sign service used to sign agreement with the World Bank



It is the first international document the Commission signs using its own Qualified Electronic Signature service

In a Twitter post on the same day, the Commissioner for Budget and Administration, described the e-signing of the agreement "a huge leap forward" in the Commission's target to become fully digital by 2024.

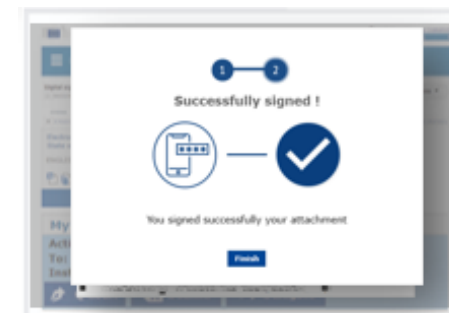
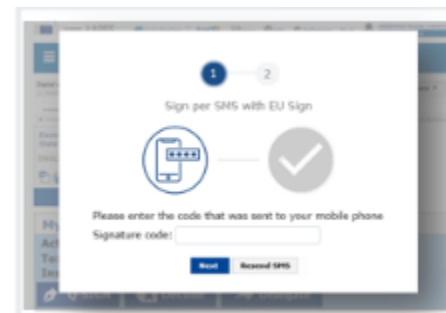


It also marks the first time the Commission made use of EU Sign's newly introduced **cloud-based qualified digital certificates**

Current Status – Success Story

The Ares Success Story* - The European Commission's document management system

Another milestone on the road to full digitalization of the Commission where EU Sign contributes to the phase-out of blue-ink signatures, enabling an efficient and digital workflow within the Commission.



Suppliers of the EU commission and 3rd parties can now sign documents and agreements, including procurement contracts, that require signatures with a higher assurance level using ARES signatures.

* Mass roll out to all DGs and Agencies by Q3-Q4 2020 with the ability to use both local and remote signing

EU Sign – future capabilities



State of the art security

A brand-new, state of the art implementation, will be made available for signing documents with maximum security



EU Login mobile application, as a second factor authentication method

Challenge code via SMS is going to be replaced with EU Login mobile application



Enrolment to the service via a Web Portal

Enrolment to the service will be performed by the interested parties via a Web Portal



Bulk Signing

Users will be able to sign more than one document at a time



Signing profiles

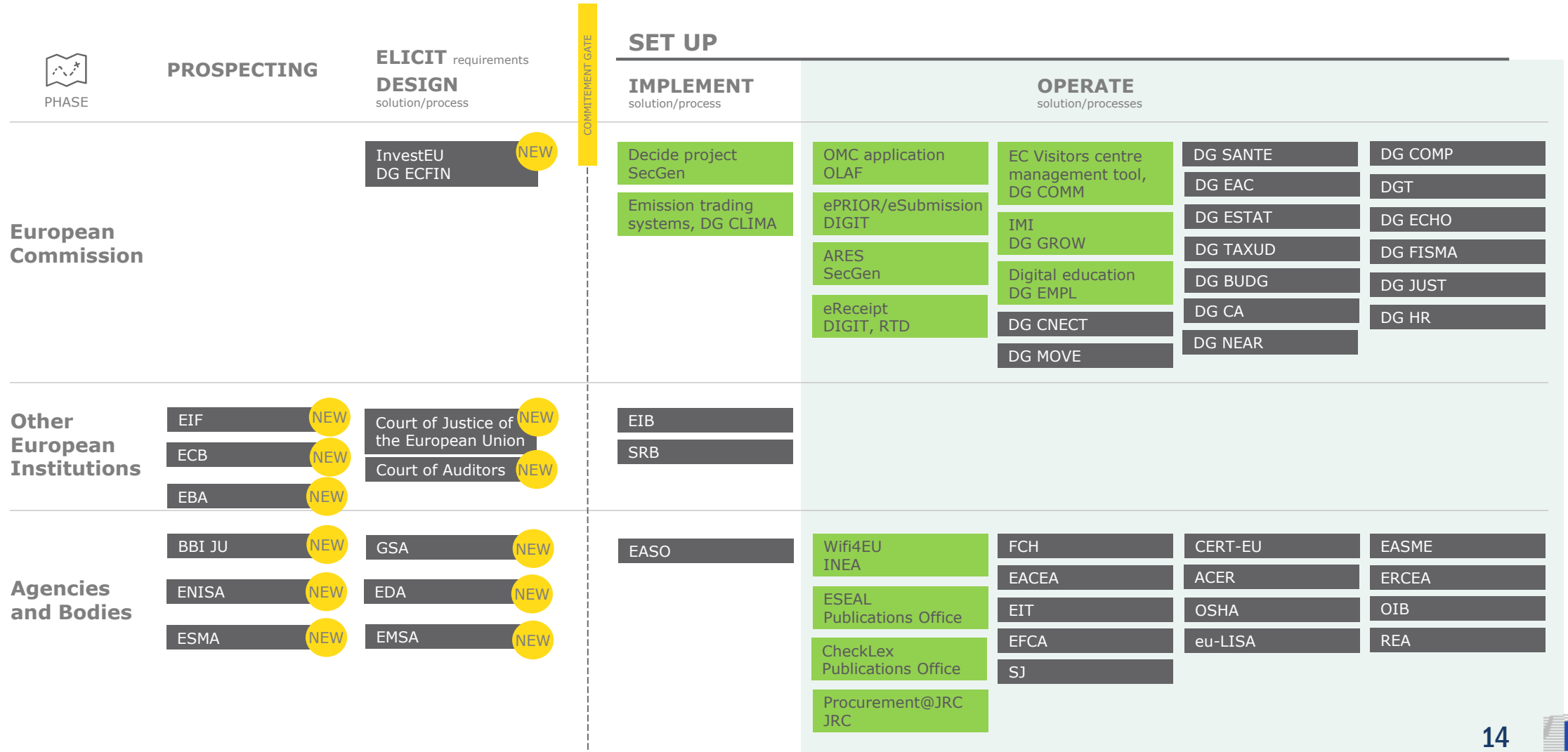
Tired to position and personalize your signature every time you want to sign a document? With signing profiles you will be able to save these settings in order to reuse them in the future.



Document sharing

Sharing of your documents will be available directly at the EU Sign Portal.

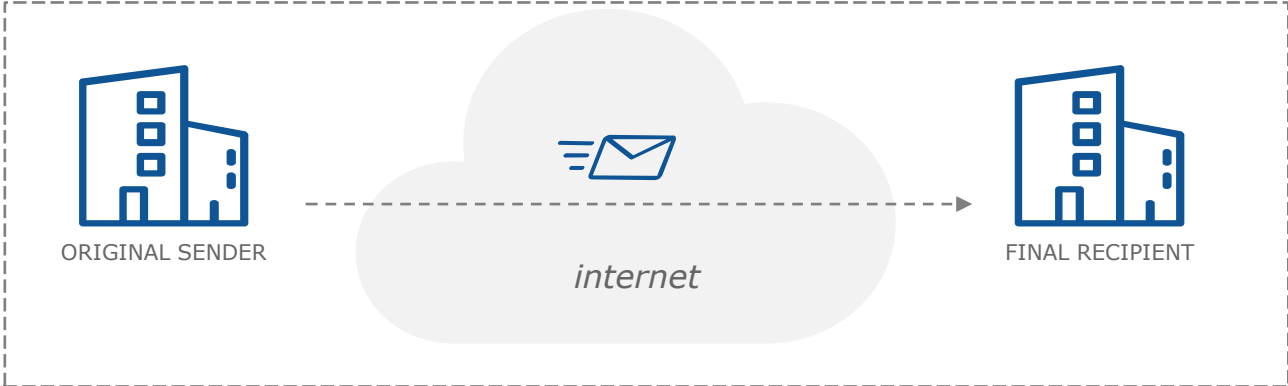
EU Sign onboarding-race



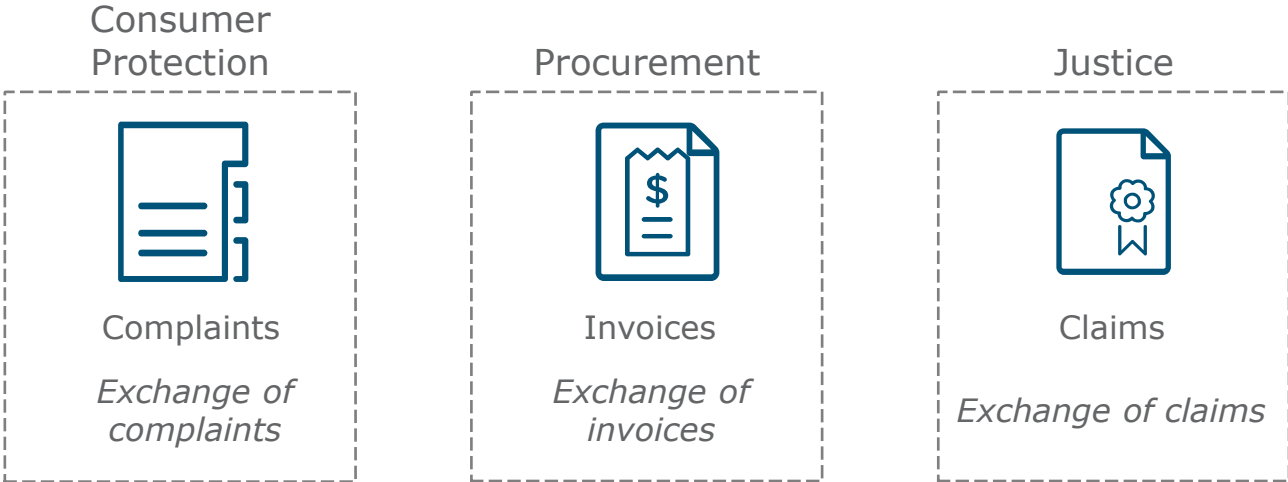
CEF eDelivery at glance

The CEF eDelivery Use-Case

DOMAIN-NEUTRAL USE CASE



Examples of DOMAIN-SPECIFIC USE CASES



Technical specifications of CEF eDelivery



Available
for free



Supported by
multiple
programming
languages



Independent from
any specific
vendor products



Supported by (Open Source
and Commercial) solutions
that can be purchased in a
competitive environment

CEF eDelivery Service offering



Service offering Description (SoD)

All services are described in an SoD describing its purpose, the users for which it is for, its benefits and the process to obtain it



Service Level Arrangements (SLA)

Documents that describe Service Level Targets to be reached when delivering Building Block Services.



eLearning, videos, success stories

Some services feature multimedia such as eLearnings, instructional videos or success stories to help grasp what the service is about

CEF Digital platform

CEF eDelivery service offering, and more about the building block, can be found online

[CEF Digital >](#)

CEF eDelivery and EU Send managed service

CEF eDelivery

CEF Building Blocks

CEF Building Blocks promote the adoption of the **same open standards and specifications**, to ensure interoperability **across sectors** for common functionalities in any EU-wide project/platform.

Funded by: **CEF Programme**

EU Send

DIGIT Managed Services

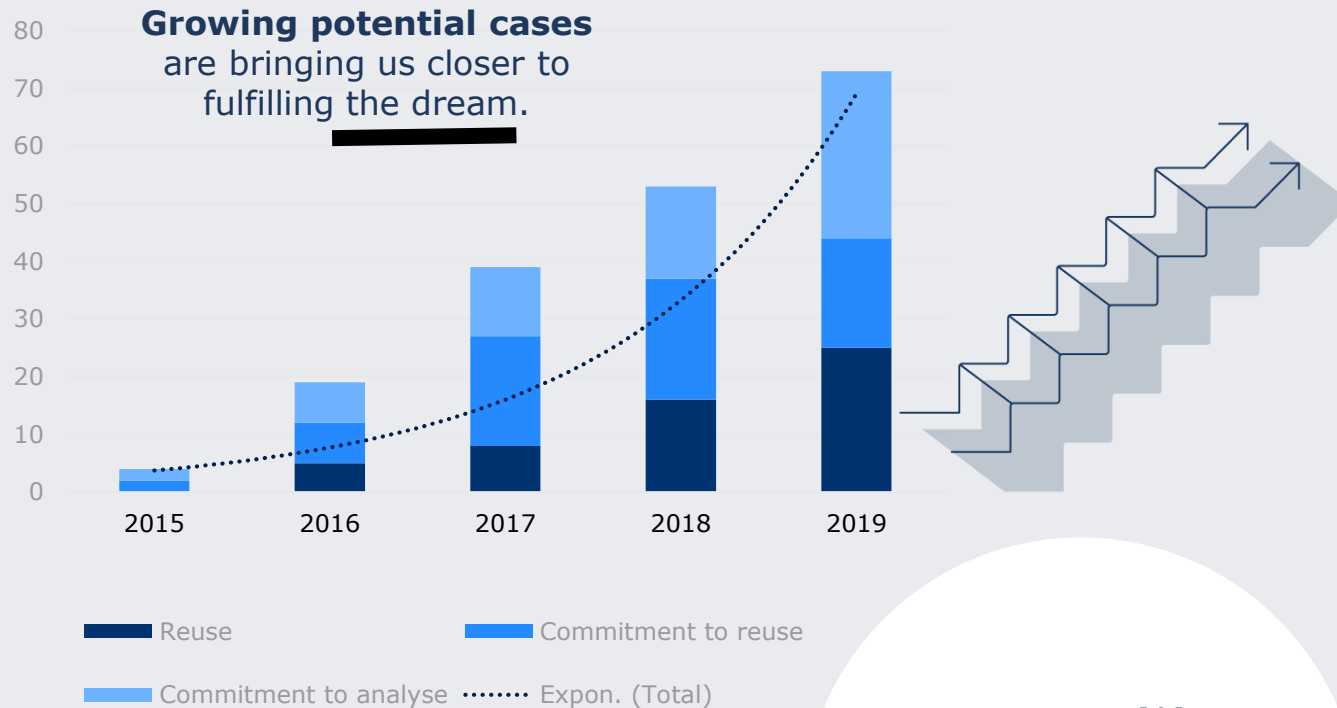
DIGIT Managed Services support European Institutions and Agencies by **outsourcing the setup and operation of basic digital capabilities based on the CEF Building Blocks.**

DIGIT operated services based on the CEF Building Blocks and in the scope of the **Reusable Solutions Platform.**

- ✓ *Hosting (infrastructure)*
- ✓ *SLAs*
- ✓ *Dedicated Ops and Support teams*



How many projects are using CEF eDelivery?



45^(*)
projects

(*) Out of which 6 DSIs

Connecting Europe together

Co-develop and partner

With other parties



Build

The solution from scratch based on a European standard



Buy

A compliant solution from the market



Reuse

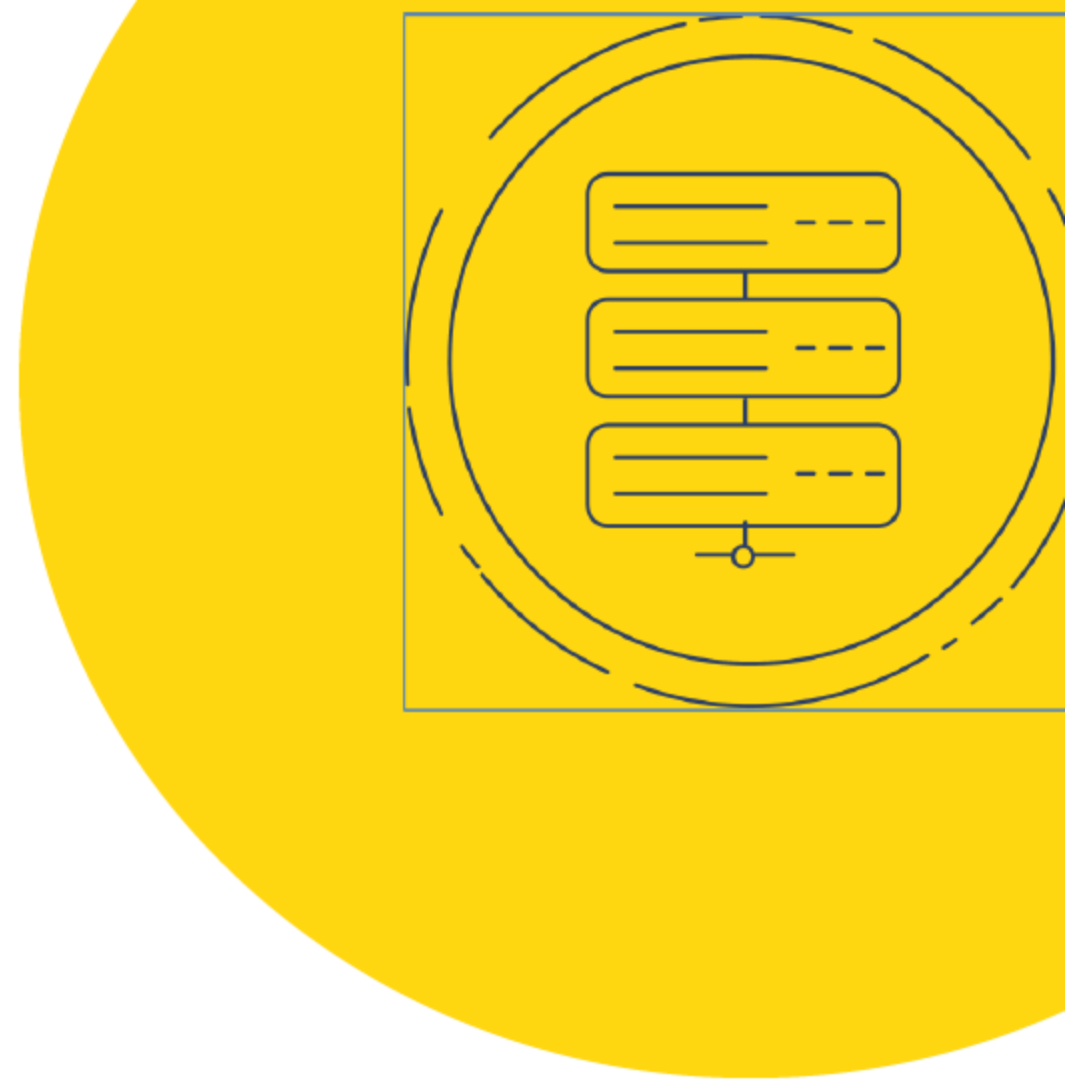
A sample software available on CEF website

European Standards

The CII Task Force recommends the reuse of CEF eSignature, CEF eDelivery, EU Send and EU Sign



They allow the development of **secure** and **interoperable** services within the scope of the eIDAS Regulation.



What have we produced?



A Final Report

Providing strategic options and next steps for legal and technical implementation for the consideration of the ICTD.



Prototype proposal for a regulation

Provisions that accelerate digital transformation of EUIBAs by the mutual recognition of trust services and electronic identification between EUIBAs themselves and third parties.



Proposal for technical agreements

Enabling the harmonization of standards used by EUIBAs for the development of internal trust services.



Recommendations on existing service offerings

How to implement the proposed framework by reusing existing assets - such as the Connecting Europe Facility (CEF) building blocks.

And then what?

The output of the work, once validated by the CII, should serve as basis for the next steps.

We expect the EC to play a key role:

Legal aspects

We expect **DG CNECT** to lead the work of taking the prototype forward to a legislative proposal by the European Commission, ultimately leading to the formal adoption of an internal eIDAS Regulation.

Technical aspects

We expect **DG DIGIT** to play a key role in supporting the roll-out of the technical agreements.