



RegelD

Bringing eID into domain industry

Registration Operations Workshop #10 – 8. 10. 2021

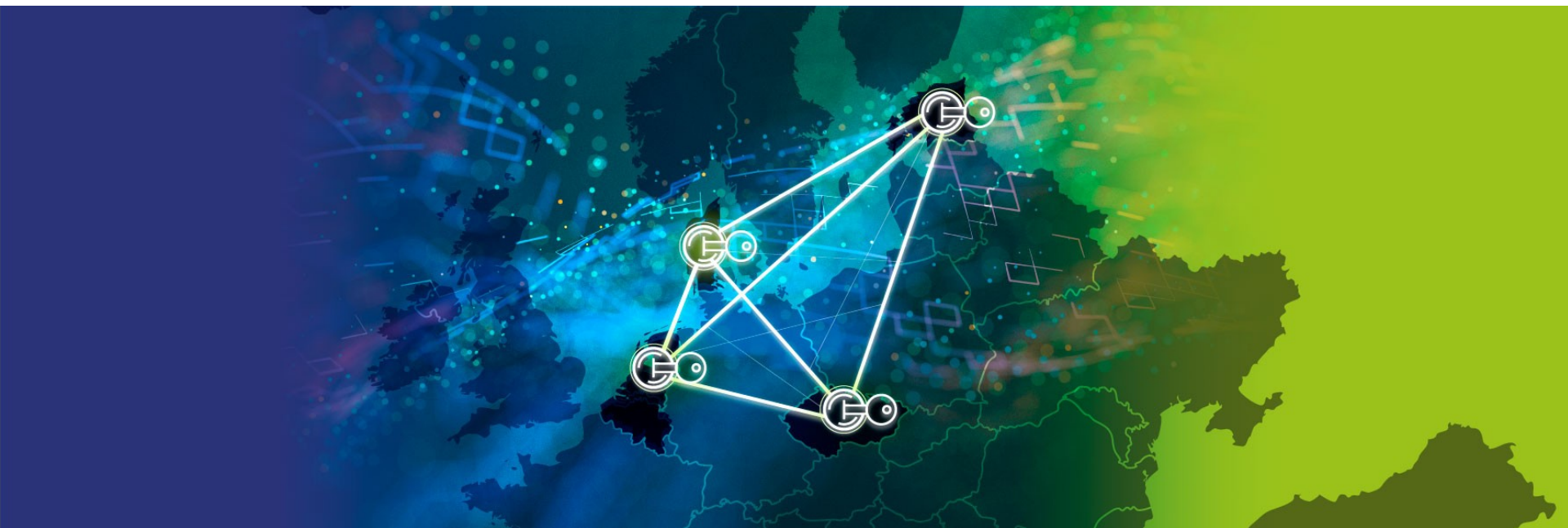


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Agenda

- What is the eIDAS Network
- How is this related to domain industry
- RegelD project description
- Current state

What is the the eIDAS Network



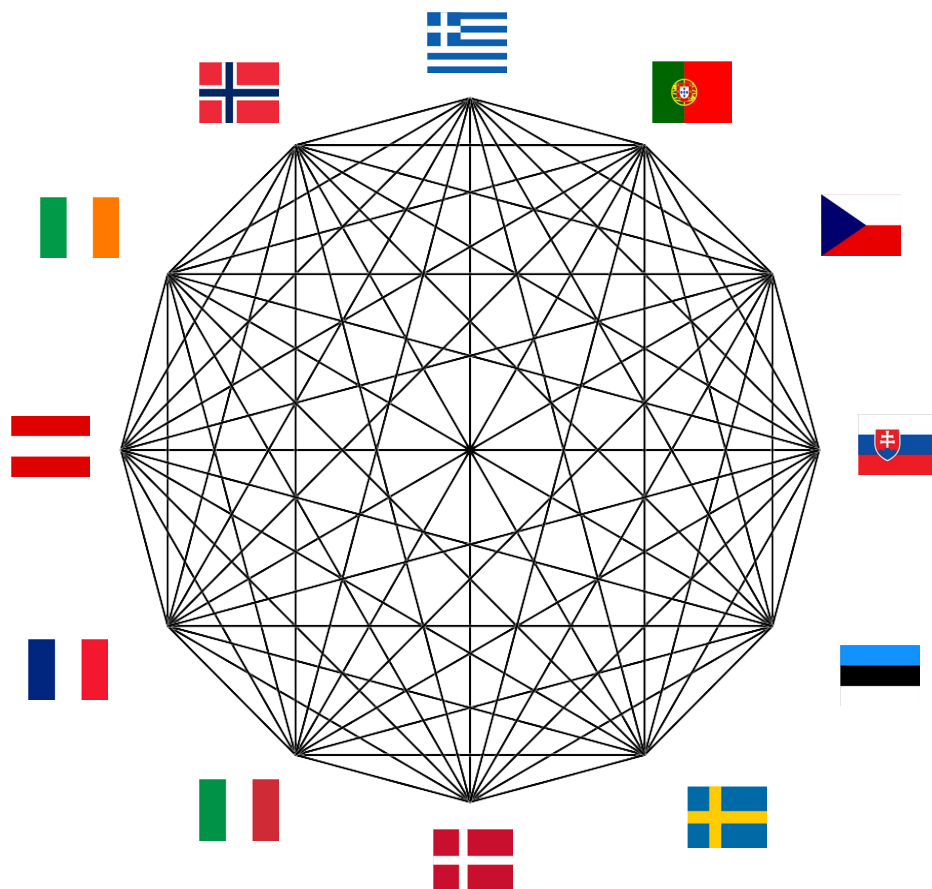
eIDAS regulation

- Framework for mutual recognition of national electronic identities effective since 29. 9. 2018
- Concept of “Levels of Assurance”
 - Encapsulates strength of the authentication method and trustworthiness of identity check
 - Three levels: Low, Substantial and High
- Each country may notify it's own eID scheme
- Set of attributes to be exchanged during transaction for natural and legal persons
 - For natural persons mandatory set is name and surname, date of birth and unique identifier. Optional set is current address, place of birth, gender and name at birth

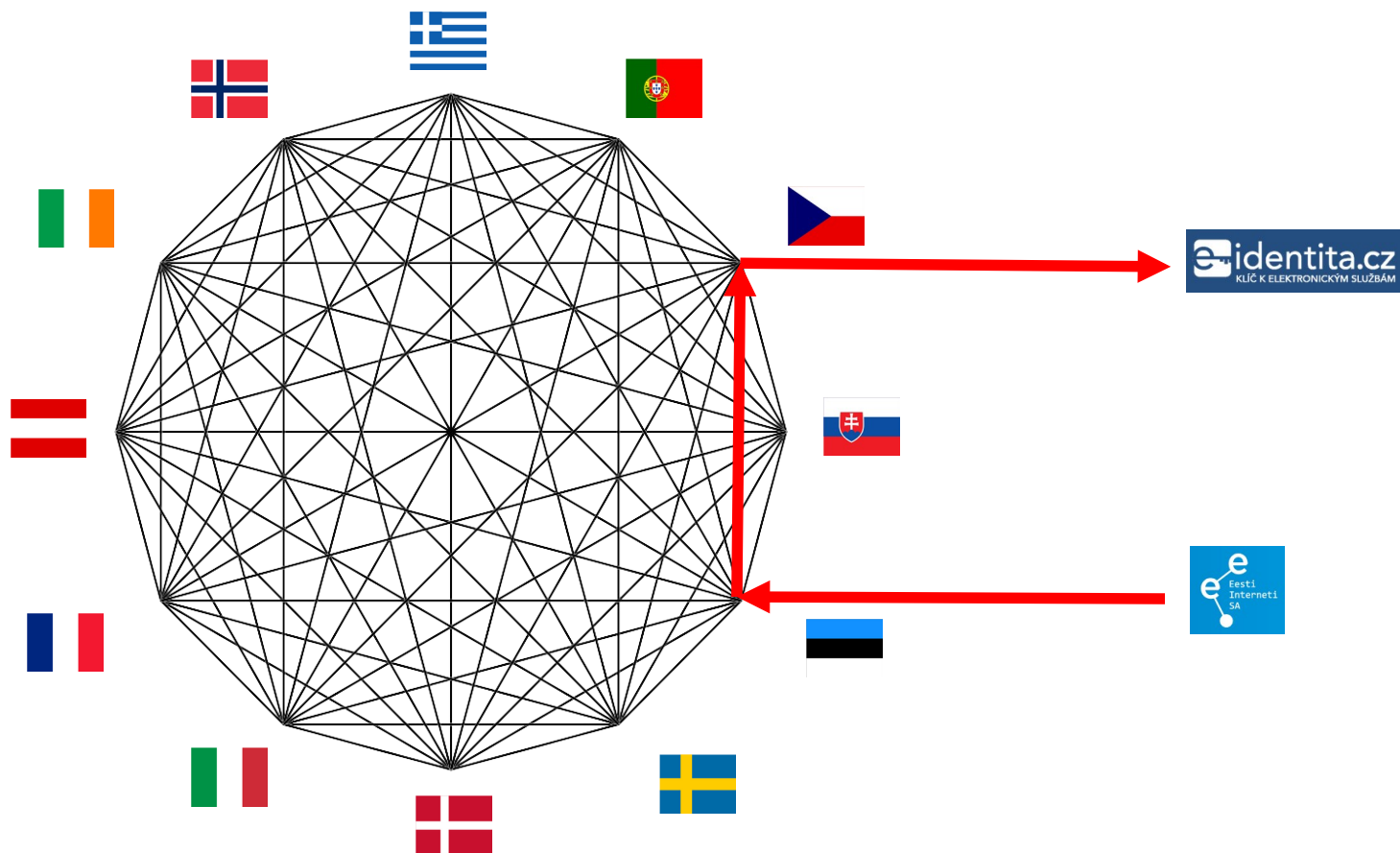
What does it say

- For **public** e-services where member state **already allows** to use it's national electronic identity with substantial or high assurance level, it is **mandatory** to allow to use also **notified** electronic identities of other member states.
- Two roles of each member state (sending + receiving)
- Mandatory is only receiving part under certain conditions
 - It is not mandatory to notify national eID
- Sending state may set “conditions” for private e-services

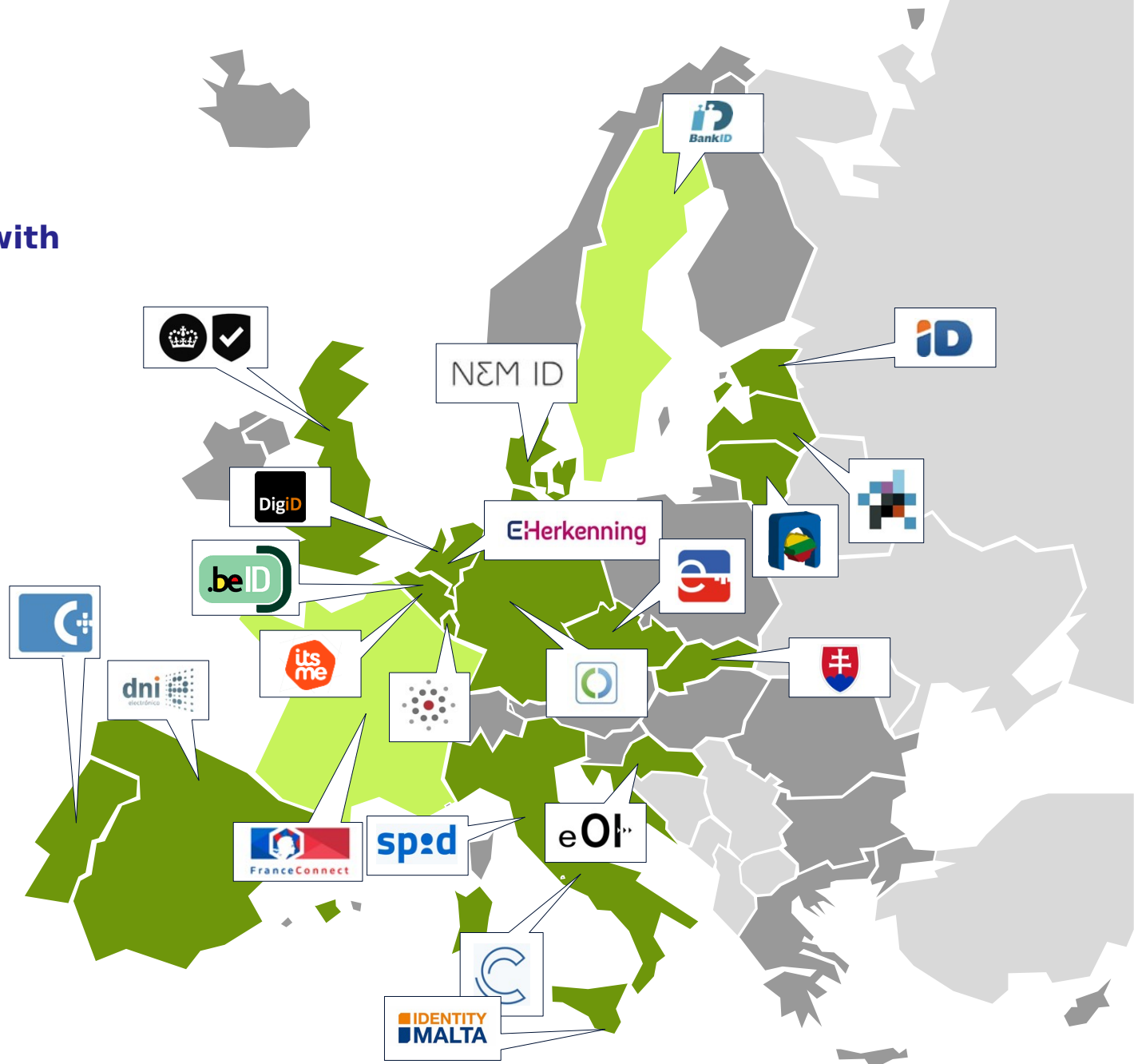
eIDAS network



eIDAS network transaction



eIDAS - countries with notified eIDs



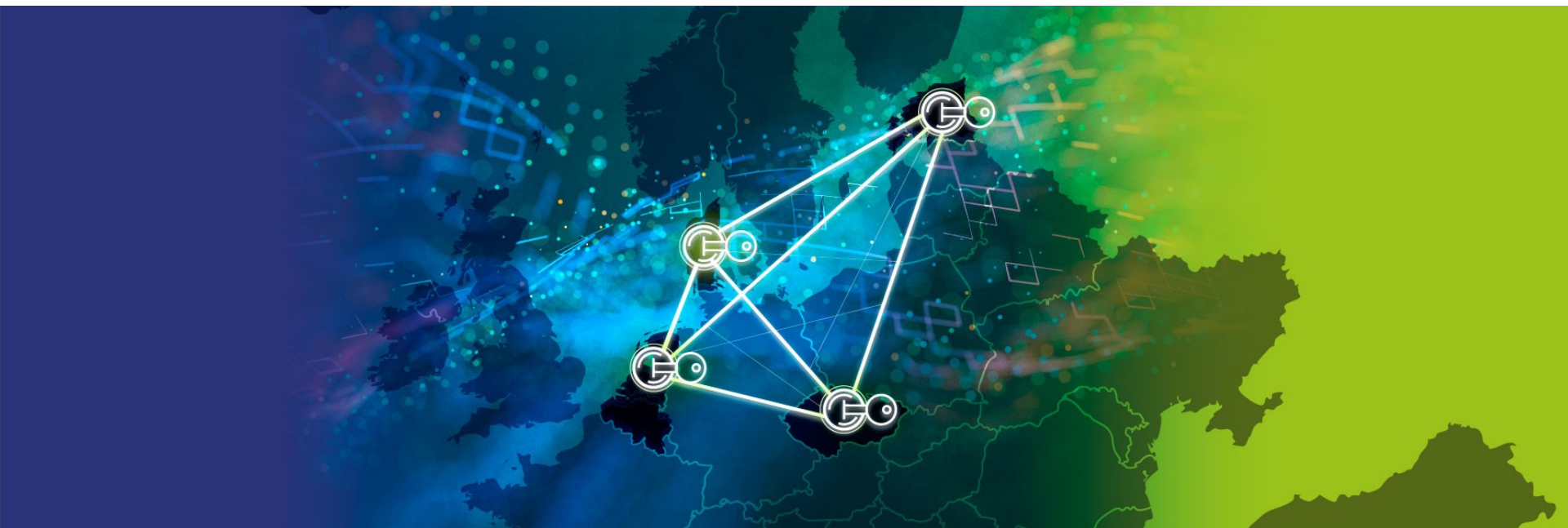
Coming soon

- France
- Sweden
- Malta



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How is it related to domains



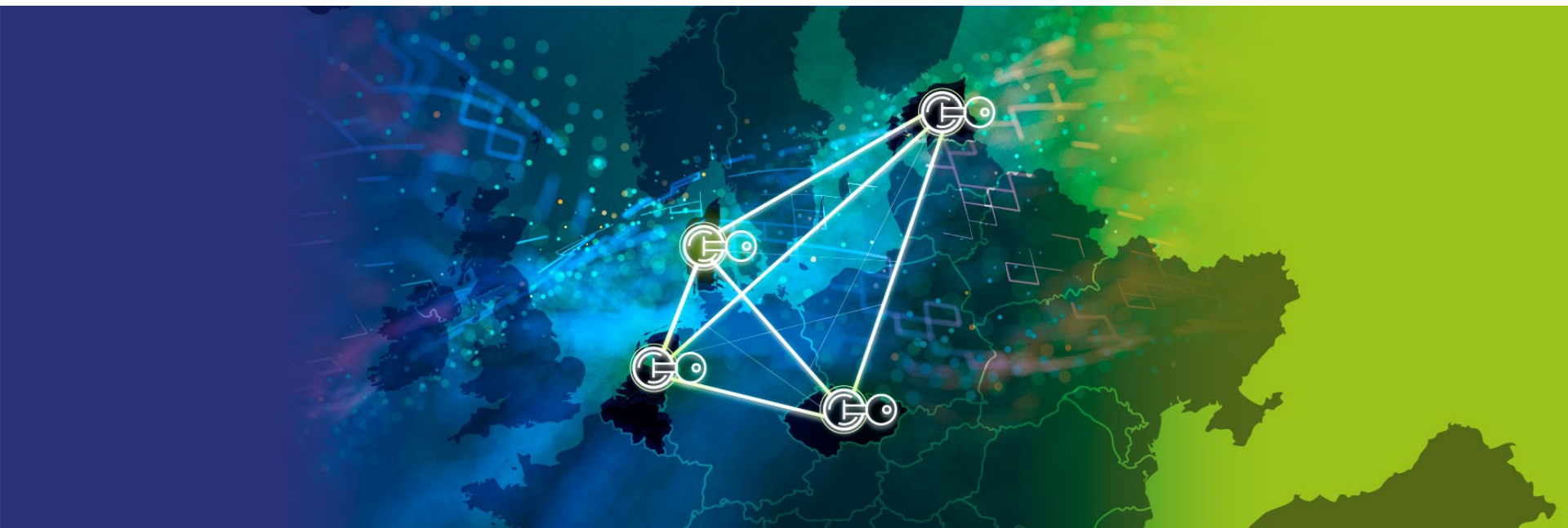
Verification of domain registrants

- Domain industry cannot ignore it's role in fighting cybercrime
- Problematic domain registrations are heavily using fake identities
- TLD registry is a target of LEAs asking to provide correct information about domain ownership
- While property registry or car registry is naturally linked with expectation about verified identity of owner – domain registry is not
- Verification is technically complicated because of 3R model

Push from the top

- For some ccTLDs it's natural to verify identities
 - Estonia – local registrants use national eID
 - Denmark – verification of registrant using national eID is written in the law
- Revision of EU Network And Information Security Directive
 - *„TLD registries and the entities providing domain name registration services for the TLD shall collect and maintain accurate domain name registration data, having regard to the purposes for which it is processed“*
- While verification may be easy nationally, the cross-border verification is harder

RegelD project



Who is involved



SIGNICAT



Opening up registrant services to eIDAS

Opening up registrant-services provided by ccTLD registries in four European countries to the eIDAS-infrastructure and thus to the citizens of all EU countries.

Project Scope

- Connect registry services to eIDAS

- Gain insights

- Share knowledge

Expected outcome of the project



4 TLD registries offering cross-border identification and validation services to millions of EU registrants



The identification and authentication based on legal cross-border recognised eID strengthens the options to adequately combat fraud and cybercrime involving domain name registrations



Increased assurance and trust in internet domains and their usage for online and web services



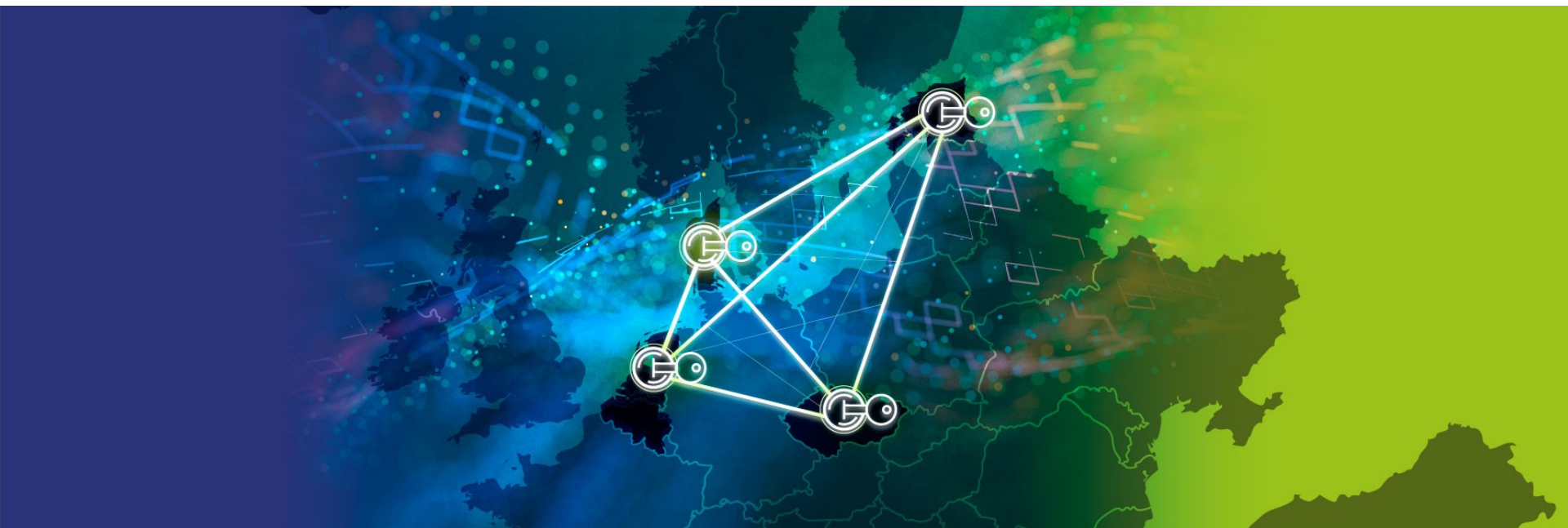
Global awareness of this project and its findings with key stakeholders in the internet industry

Aim of research = to gain insights

- Are registries and registrars interested in validating/authenticating registrants (or other parties)?
- What are the expectations, opportunities and hurdles involved?
- What will it take to allow usage of eIDAS for the domain name industry?



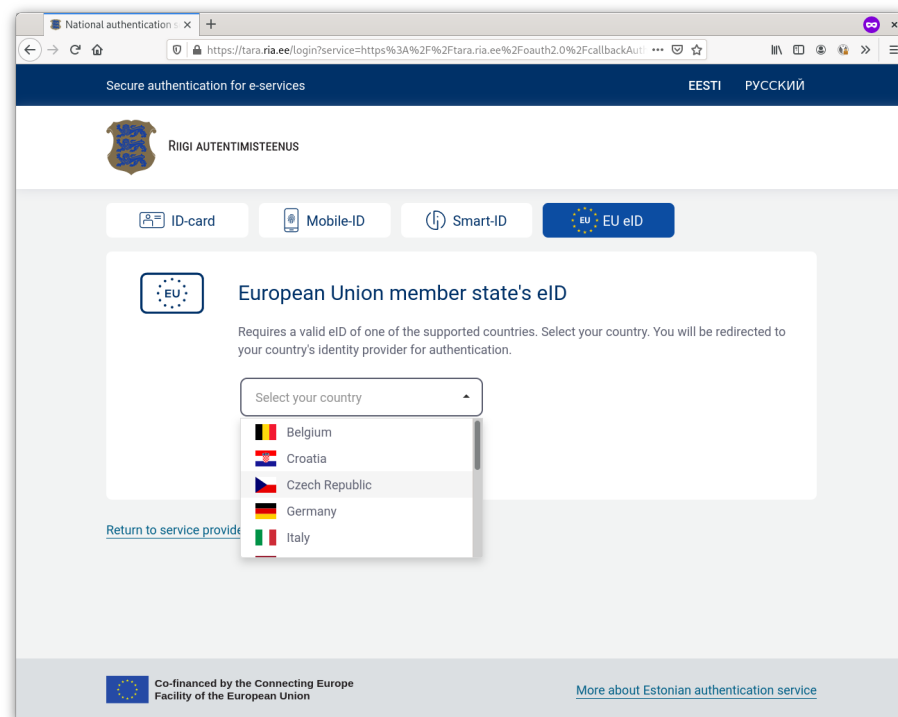
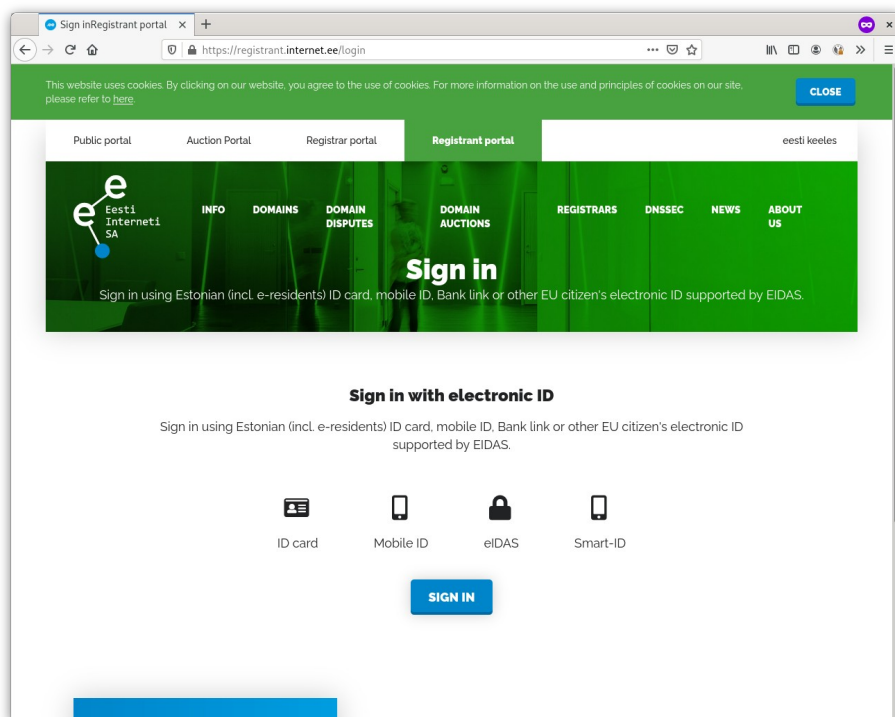
Current state



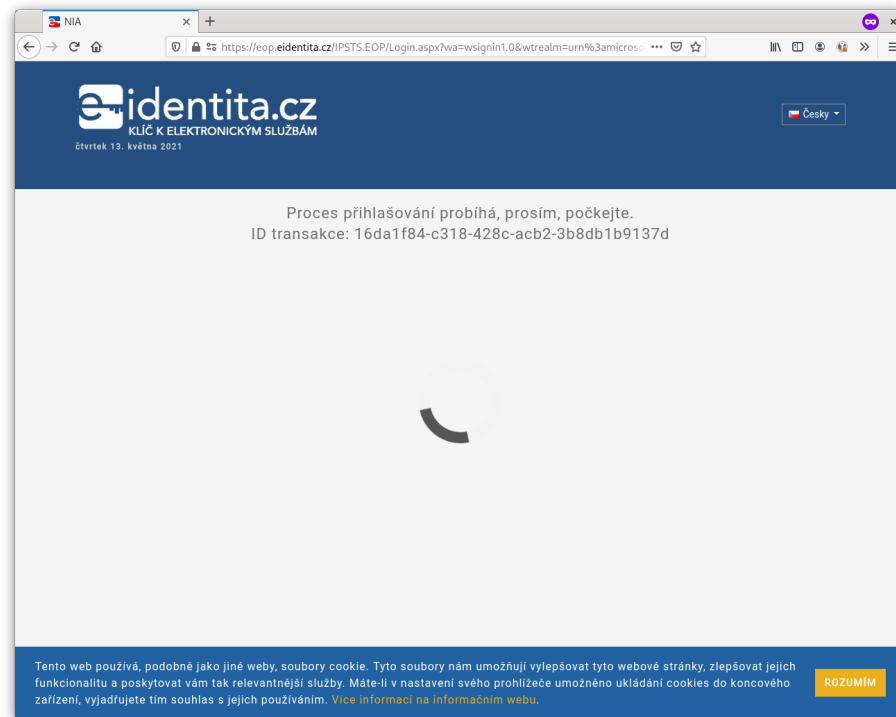
Implementation

- Estonia has recently deployed first solution
 - New registrant portal at <https://registrant.internet.ee>
 - Authentication using Estonian eID or eID of 13 EU countries
 - Possibility to update email/phone and set registry lock
- Other 3 registries are still working

Implementation - Estonia



Implementation - Estonia




Implementation - Estonia

NIA

x +

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🔍 📄 🌐 🗑️ ➡️

 **eidentita.cz**
KLÍČ K ELEKTRONICKÝM SLUŽBÁM

English ▾


Please give consent to provide the following details for Service provider -
NIA (urn:moris:eidasproxyservice)


Claims for which a consent may be refused


Surname	<input checked="" type="checkbox"/> Provide details
Name	<input checked="" type="checkbox"/> Provide details
Date of birth	<input checked="" type="checkbox"/> Provide details

☐ Show values of the optional claims.

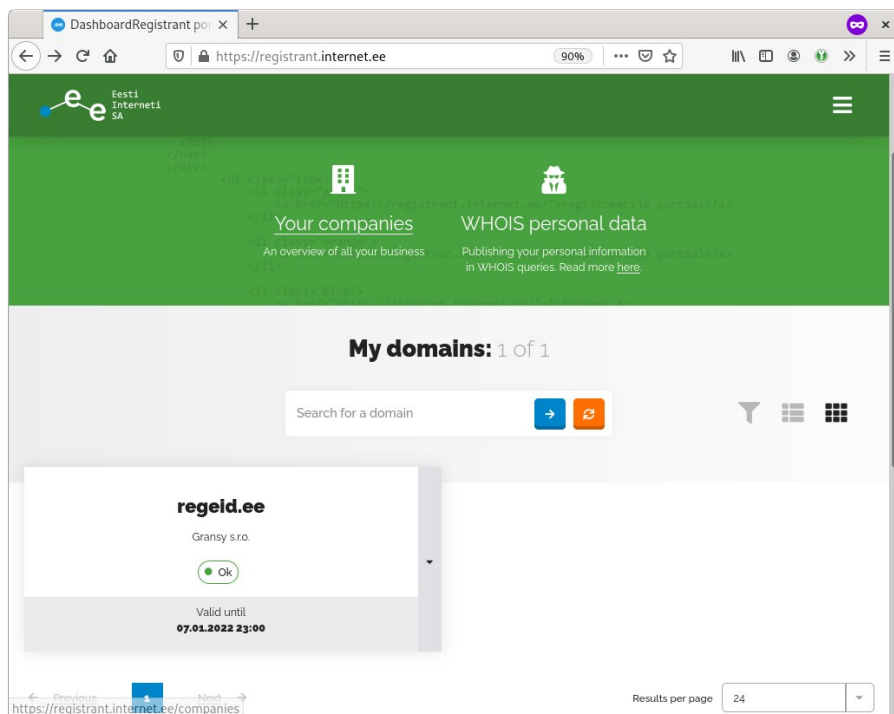
☐ I acknowledge that by granting continued consent my Qualified Service Provider will disclose my data whenever verified through a National Point and the Qualified Service Provider requests such information. In this case, the consent screen no longer appears. Grants can be revoked on the national point portal at [eidentita.cz](#).

 I give PERMANENT consent

 I give ONE-TIME consent

 I do NOT give consent

Implementation - Estonia



DashboardRegistrant por x

https://registrant.internet.ee

90%

Esti Interneti SA

Your companies
An overview of all your business

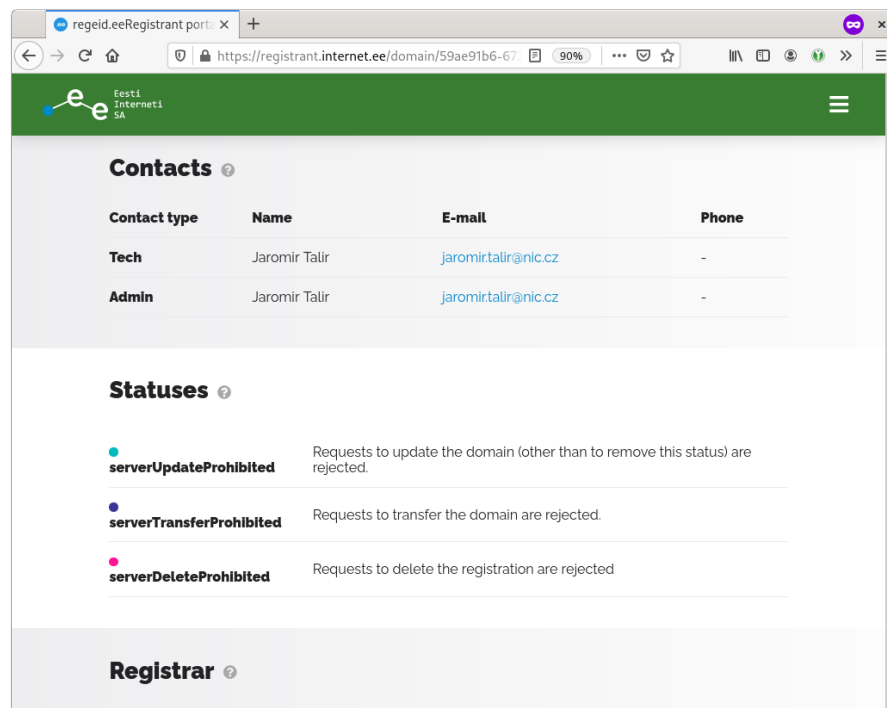
WHOIS personal data
Publishing your personal information in WHOIS queries. Read more [here](#).

My domains: 1 of 1

Search for a domain

regeid.ee
Gransy s.r.o.
Ok
Valid until
07.01.2022 23:00

Results per page 24



regeid.eeRegistrant por x

https://registrant.internet.ee/domain/59ae91b6-67

90%

Esti Interneti SA

Contacts

Contact type	Name	E-mail	Phone
Tech	Jaromir Talir	jaromir.talir@nic.cz	-
Admin	Jaromir Talir	jaromir.talir@nic.cz	-

Statuses

- serverUpdateProhibited** Requests to update the domain (other than to remove this status) are rejected.
- serverTransferProhibited** Requests to transfer the domain are rejected.
- serverDeleteProhibited** Requests to delete the registration are rejected.

Registrar

Challenges

- Access to eIDAS node
- Identity matching
 - Via registrar end EPP extension
 - Using existing account
 - Matching personal data
- Contact data ownership
 - Contact is still managed by registrar (locking changes)
 - Contact is managed by the registry (portal for update is needed)

eIDAS revision

- 3. 6. 2021 European Commission presented a novel approach to European electronic identity as the result of revision of eIDAS regulation
- Core concept is Digital Identity Wallet provided by member state
 - Mobile app storing attributes about identity together with other attributes like education certificates, health certificates
 - User may present individual attributes to public and private companies upon request
- Technical solution for this yet to be decided by member states

Thank you

Jaromir.talir@nic.cz

<https://regeid.eu>

