

EUROPEAN BLOCKCHAIN PARTNERSHIP

European Self Sovereign Identity Framework (ESSIF)

2nd STAKEHOLDER MEETING
15th of January 2020
Brussels



Objectives of the stakeholder meeting

Present the results of the ESSIF project to SSI-stakeholders and market

Gather feedback and input of SSI stakeholders on the technical specifications of ESSIF.

Present and discuss the results of the legal assessment and link between ESSIF and eIDAS.

Continue the discussion on the ESSIF market position and ecosystem.

Present and discuss a draft of future workplan for ESSIF in 2020 and look for opportunities to collaborate in research, specifications, pilots and implementations.



Objectives of the stakeholder meeting (2)

Input will be gathered in a public report that will also give indication how we incorporated/manage this feedback (will be shared with the participants of this workshop and other

Your input is welcome during this meeting and until end of this month (january) via **online survey** we will communicate

Based on the workplan 2020 ESSIF will most likely organize new stakeholder meetings.



Agenda

9h30: Introduction and Welcome

9h45: ESSIF market position

10h00: ESSIF and EBSI

Q&A

10h45: ESSIF technical specification and current reference implementation

11h15: ESSIF and eIDAS

11h45: Impact of legal assessment on technical specification

Q&A

12h15: ESSIF 2 requirements and potential pilots

12h30: Pre Commercial Procurement EBSI

13h00: end of session



ESSIF team in this meeting

ESSIF convenors

Daniel Du Seuil (Belgium) and Carlos Pastor (Spain)

EC business owner

Pierre Marro (DG CNECT)

EC project owner

Oscar Burgos (DIGIT)

ESSIF lead architect

Erik Van Zuuren (Trustcore)

ESSIF legal expert

Nacho Alamilo Domingo (Astrea La Infopista)

EBSI PM, Product Manager and PMO

Sancho Canela, Wesley Deglise (Everis) and Pietro Romanin (Deloitte)



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SCOPE OF ESSIF

How to facilitate cross-border interaction with SSI.

How to make/keep national SSI projects interoperable.

How to integrate/align existing building blocks such as eIDAS, e-delivery, once-only with SSI.

Stimulate the SSI-transformation of public services

How to conceptualize and build an identity layer in the new European Blockchain Services Infrastructure.

How to preserve European/democratic values in the implementation of Self Sovereign identity.

Stimulate SSI development and standardisation on global level.



OUT OF SCOPE OF ESSIF

The interpretations of the data (semantics) and the necessary standardizations and business logic is however outside the scope of ESSIF.

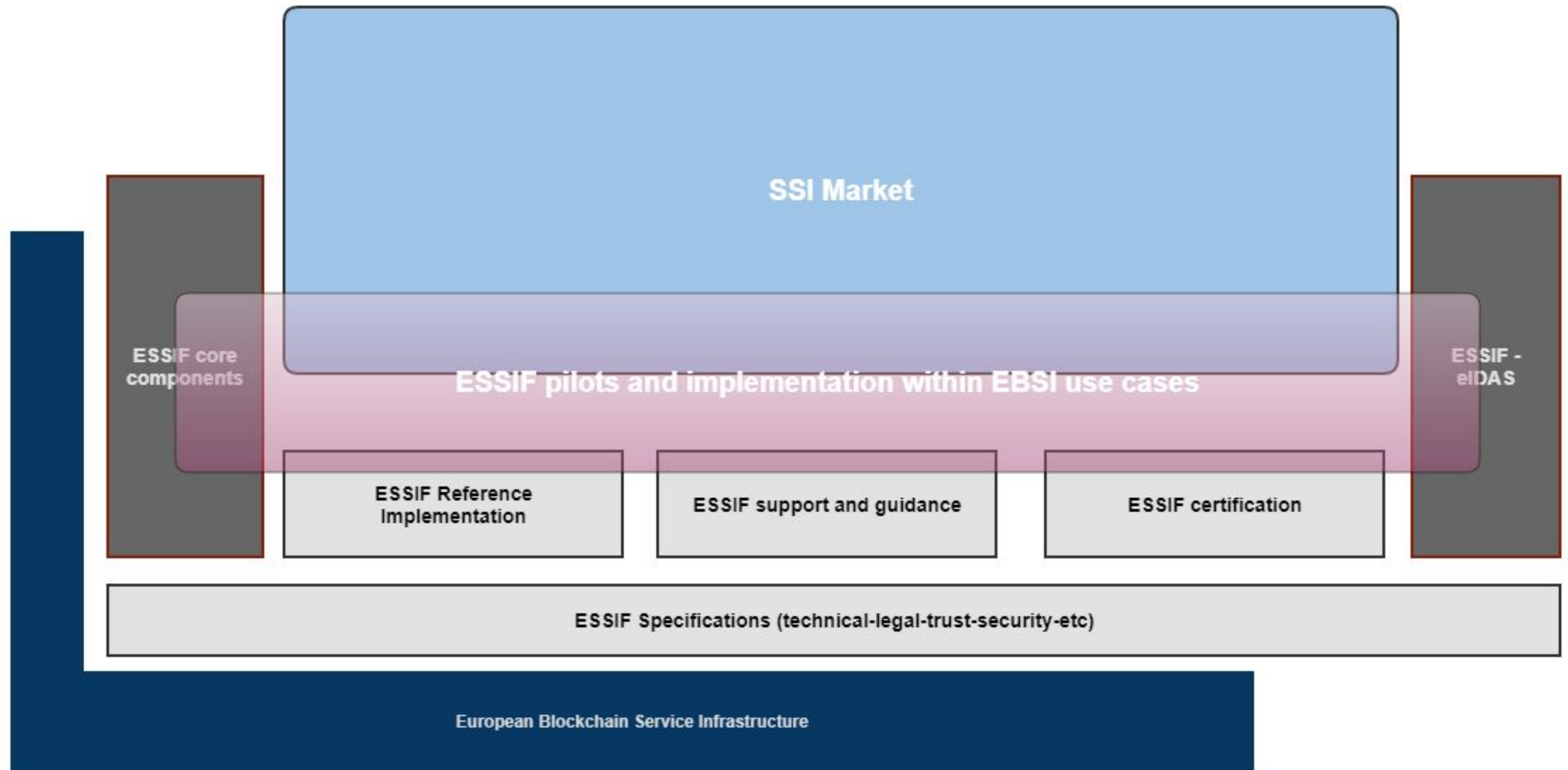
ESSIF will provide in its first instance support for other EBSI use cases (like diploma and notarization)

ESSIF will not build and maintain an SSI wallet for all European citizens and interfere in this way with the emerging market of SSI solutions and personal data storage.

Academic (technical, social, economic, etc) research on SSI is out of scope of the EBSI use case ESSIF.



ESSIF Market Position



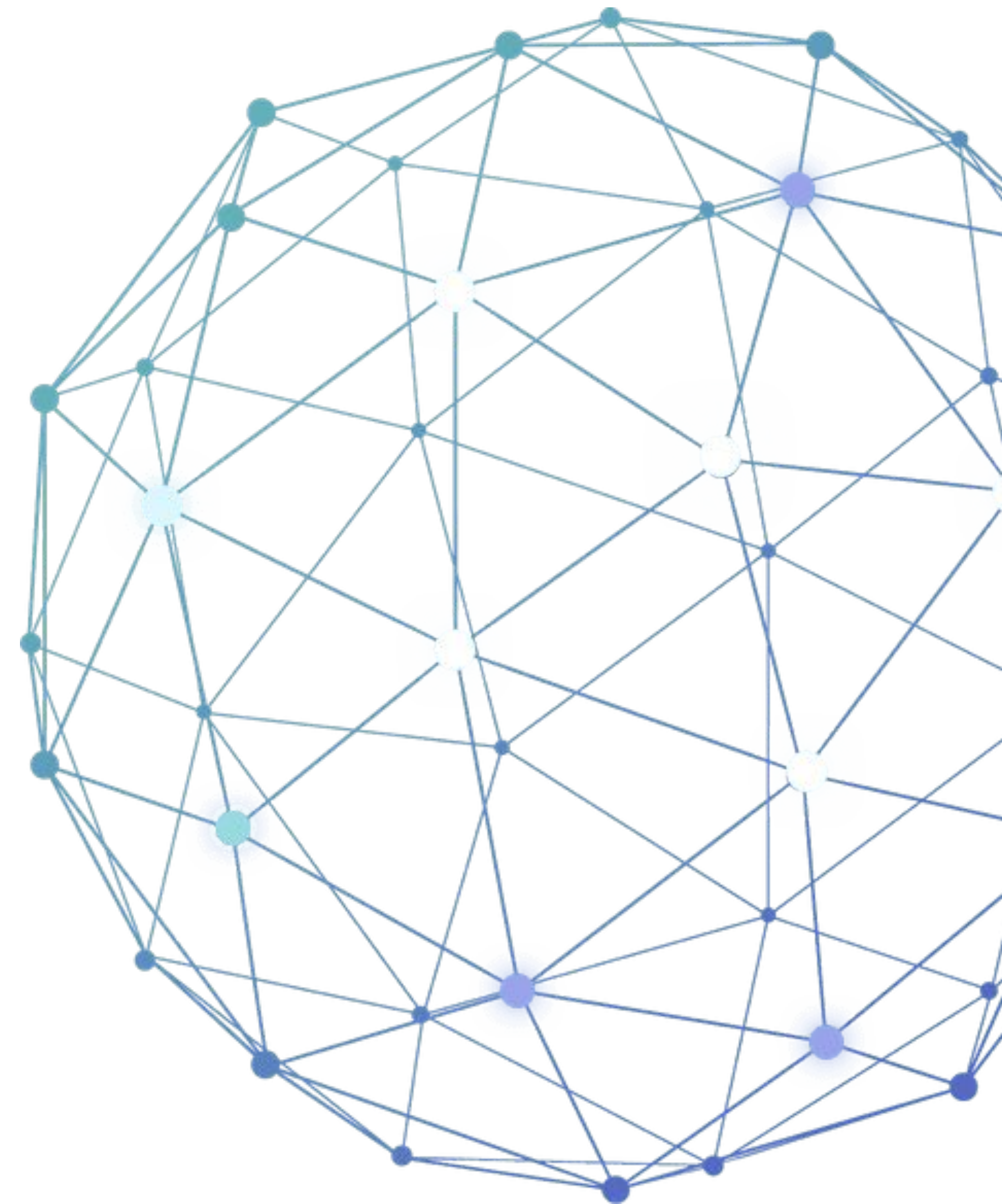
Status of the ESSIF deliverables

- **Final:**

- Orientation vision
- Current Market Research
- Business user scenario's and stakeholders
- Conceptual architecture
- Terminology
- Functional specification
- First Technical specification

- **Draft:**

- Economic Assessment
- Social Assessment
- Legal Assessment
- Transition Plan
- Next steps Plan



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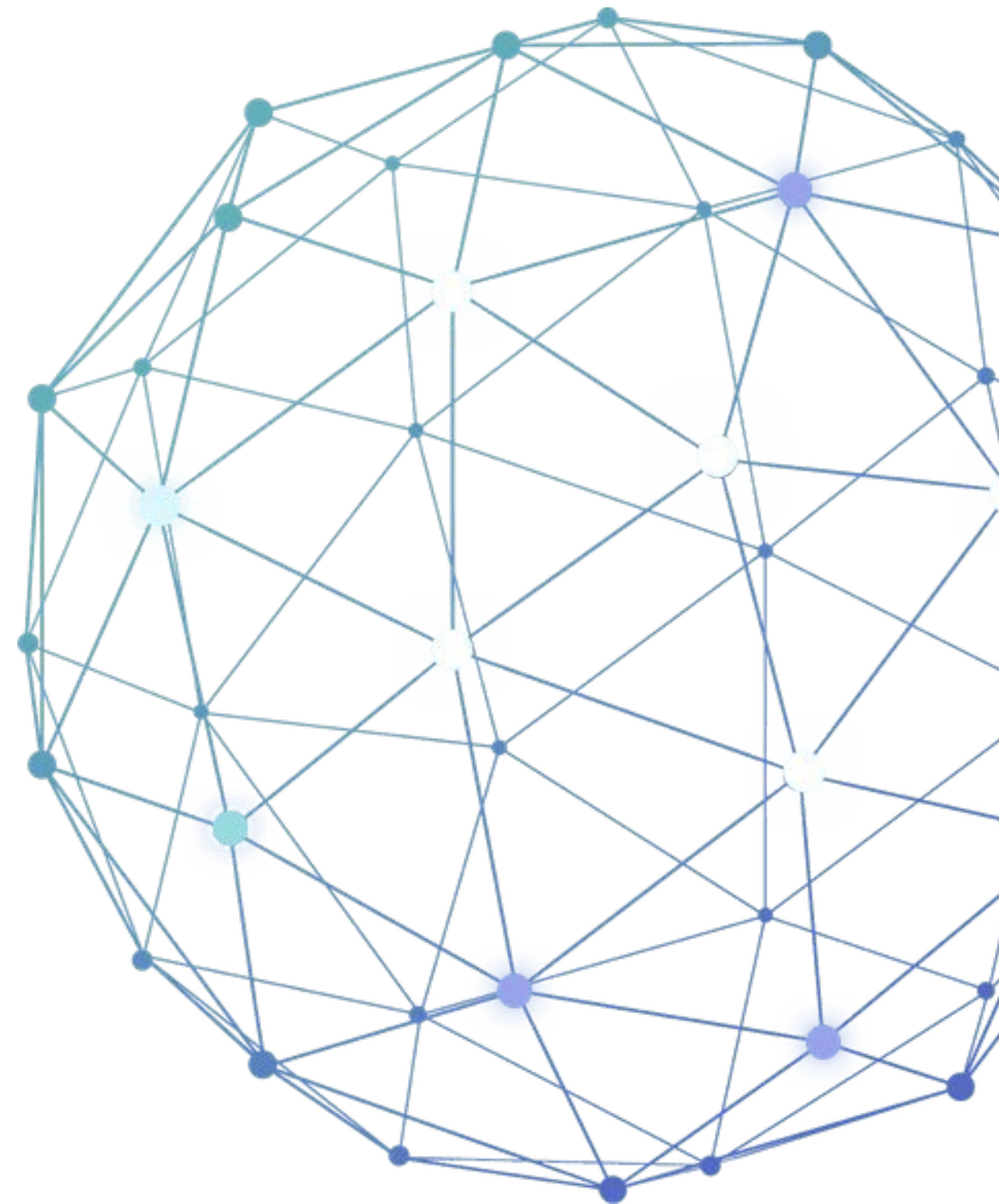
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ESSIF-EBSI

- see presentation
20200115_ESSIF-stakeholder-meeting-2_ebsi-essif



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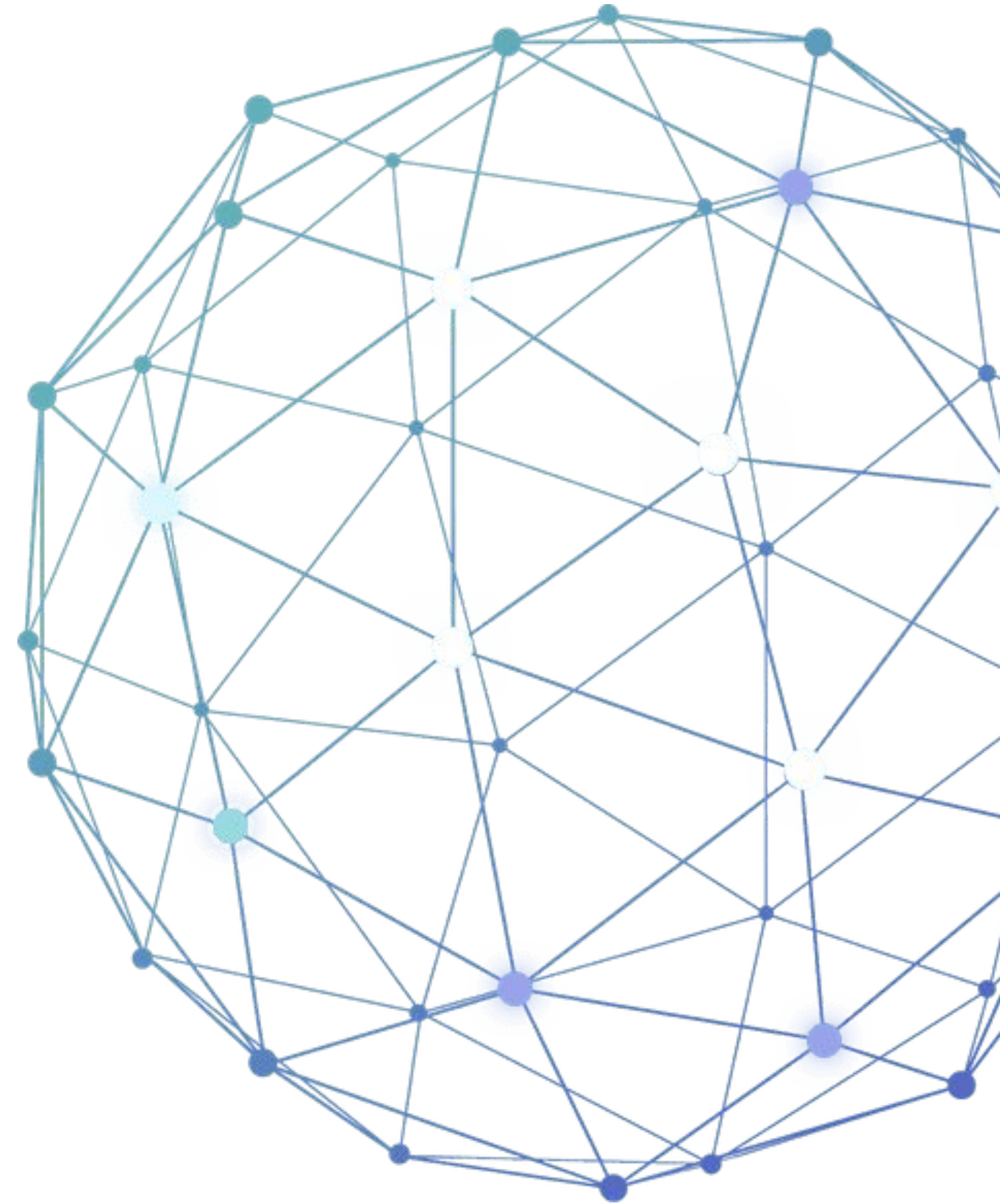
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ESSIF technical specification and current reference implementation

- see presentation
20200115_ESSIF-stakeholder-meeting-2_technical-specs



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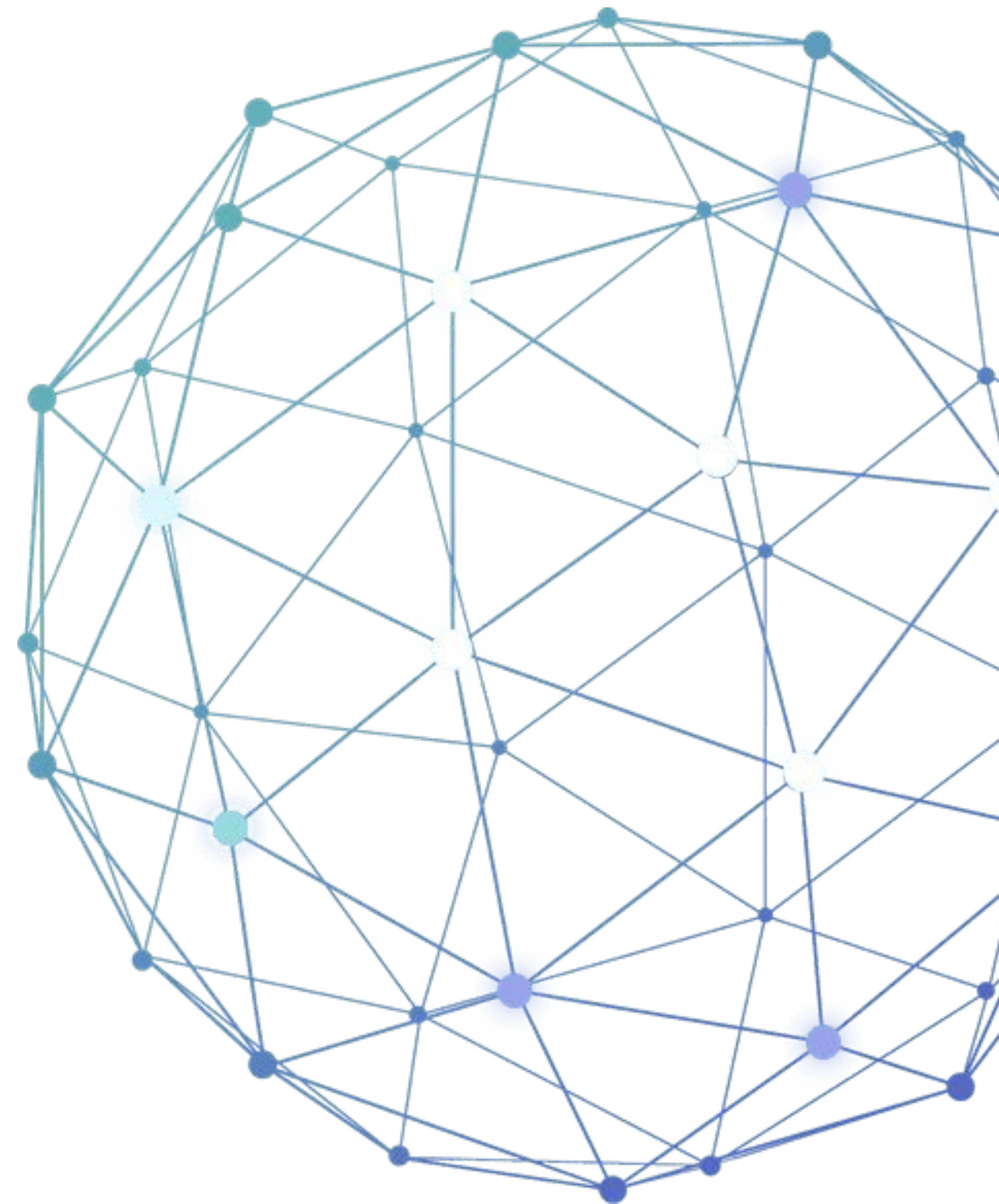
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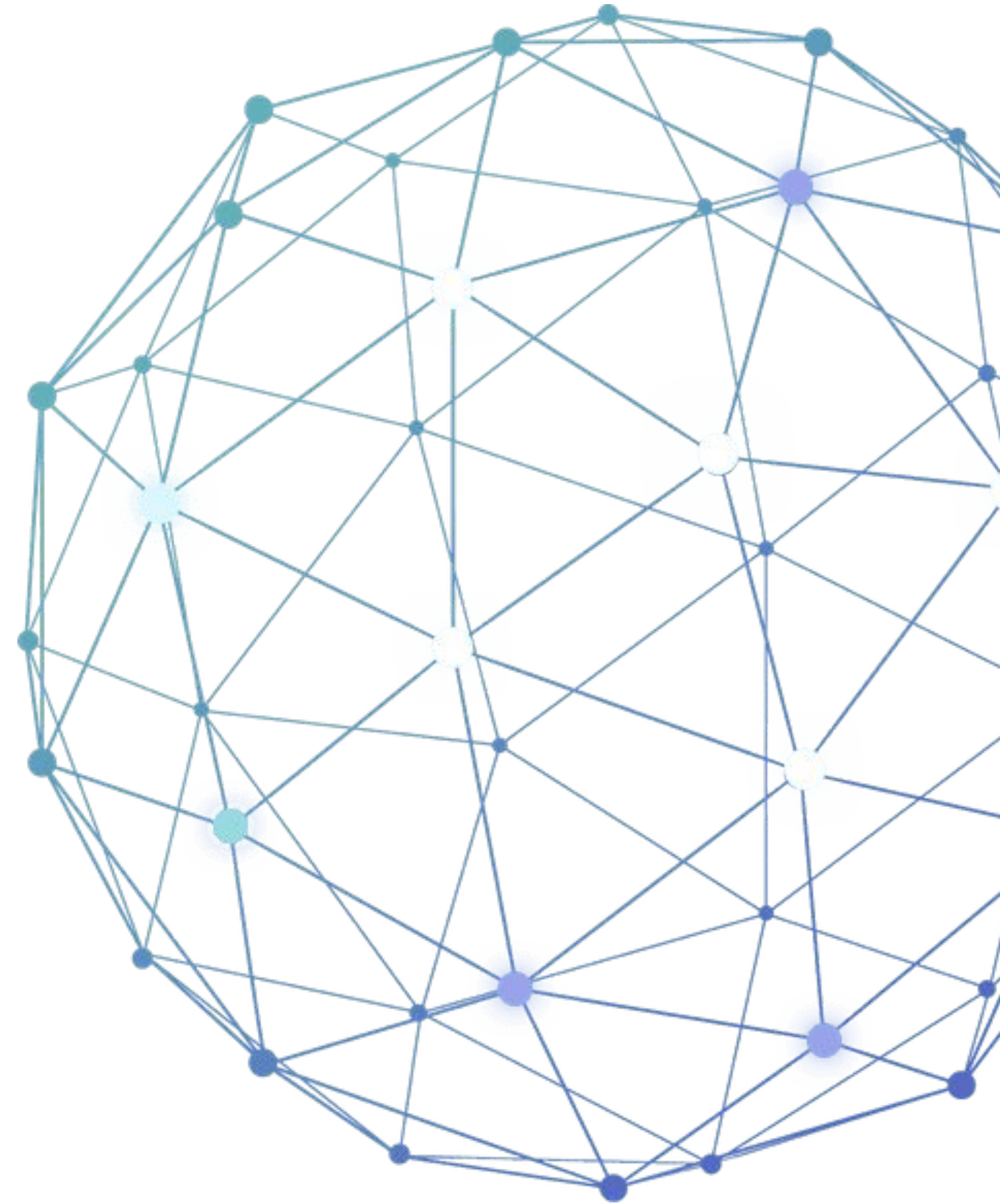
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Impact of legal assessment on technical specification

- see presentation
20200115_ESSIF-stakeholder-meeting-2_technical-specs-and-eidas



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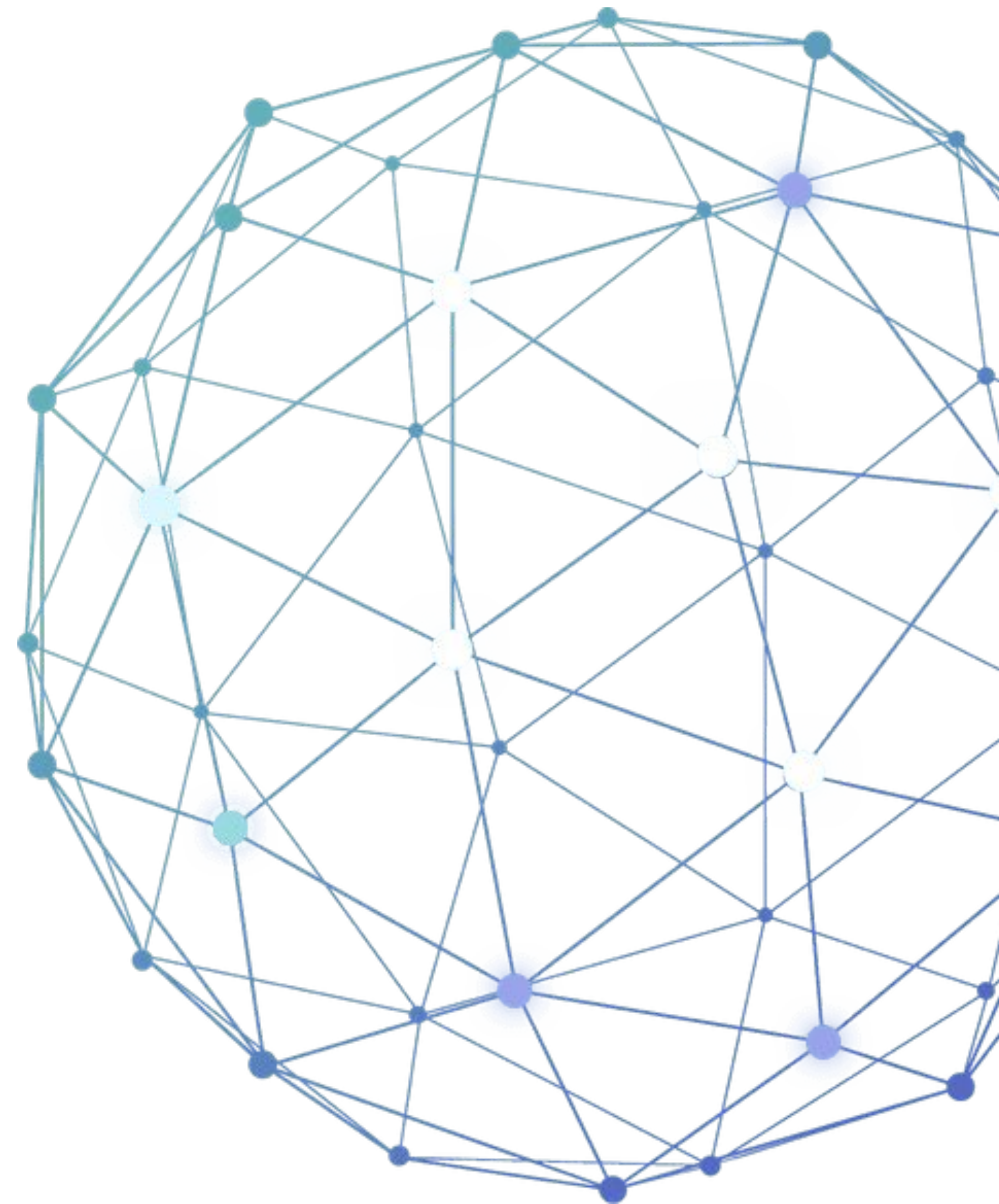
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ESSIF 2 requirements

- Different dimensions of requirements:
- **Core-components and use cases**
 - EBSI requirements from ESSIF
 - ESSIF requirements core components
 - ESSIF-requirements of ESSIF from existing use cases
 - ESSIF-requirements from new use cases (potential)
- **Maturity**
 - Research and development effort
 - Elaboration on business and legal context
 - Implementation and piloting
 - Move to production



ESSIF-requirements

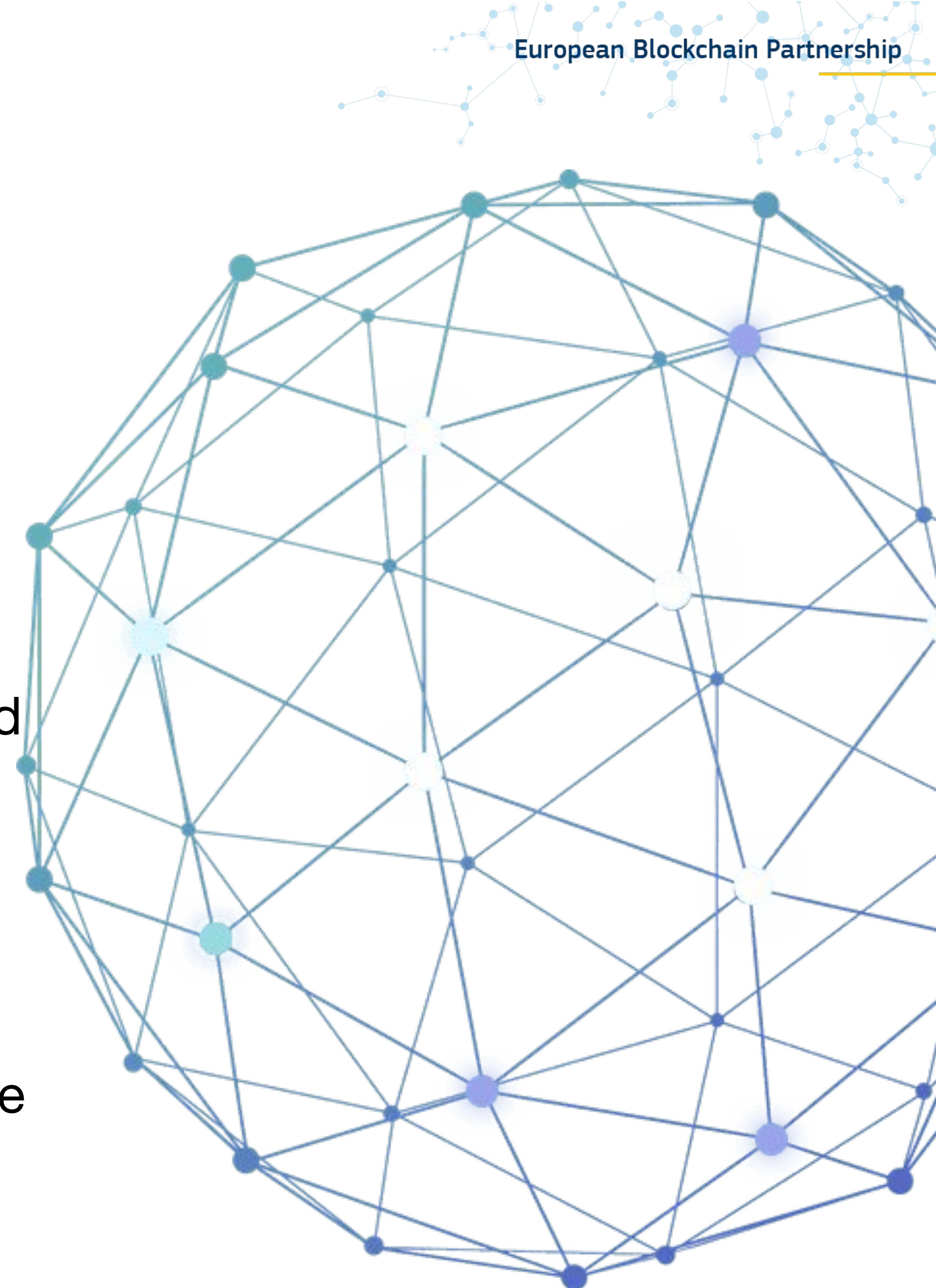
		EBSI requirements from ESSIF	ESSIF requirements core components:	ESSIF-requirements of ESSIF from existing use cases:	ESSIF-requirements from new use cases:
		<i>The expectations and requirements from ESSIF towards EBSI.</i>	<i>Which general and basic requirements of ESSIF need to be elaborated to support in production the different use cases of EBSI. Based on the market position of ESSIF in the broader SSI-ecosystem</i>	<i>Which ESSIF features need to be developed to support the current and specific use cases of EBSI 1 in a production-ready environment.</i>	<i>Which ESSIF features need to be developed to support the new use cases within EBSI 2.</i>
Research and development effort	<i>ESSIF features and requirements that are currently not supported or elaborated in a stable and mature way, and need more fundamental or applied research effort to be ready for pilot or production. These efforts can be addressed in H2020 or EBSI 3 research projects.</i>	<ul style="list-style-type: none"> Smartcontracts used for “consented” access Smartcontracts checks like “is SME?” Ledger used to replace eSeals / eSignatures 	<ul style="list-style-type: none"> Issuance / Registration of Consents Proofs using “on ledger registration” of evidences 		<div>E-HEALTH</div> <div>IMMIGRATION CONTROL</div> <div>CROSS BORDER CONTROL OF ASYLUM</div> <div>CAR MANAGEMENT</div> <div>USING DLT IN PUBLIC PROCUREMENT</div> <div>UNIQUE BUILDING IDENTIFICATION (UBI)</div>
Elaboration on business and legal context	<i>Use cases that need a fundamental investment in clarifying their legal and business context before they can use and configure the ESSIF features in a pilot or in production.</i>	<ul style="list-style-type: none"> Ledger used for registering revoked DID's / VC's (serial-no's) Ledger used to timestamp VCs Ledger used publishing of public VCs (like permits, grants, ...) 	<ul style="list-style-type: none"> Renew/revoke DIDs / VCs Notarize time of issuance Support for “Public” Attestations / Permits / 		<div>DIPLOMA ADVANCED</div> <div>DIGITAL DRIVING LICENSE</div> <div>UNIQUE SOCIAL SECURITY NUMBER</div> <div>NETWORK OF TRUST FOR SME'S</div>
Implementation and piloting	<i>Based on a stable/elaborated ecosystem and business context an EBSI use case can use the ESSIF components to build a first implementation of the use case within the EBSI context and start piloting within different member states supported by the ESSIF team.</i>	<ul style="list-style-type: none"> Ledger used for DID-anchoring Ledger used to build Trusted Issuer List 	<ul style="list-style-type: none"> DID-creation DID-resolving Verifiable IDs Verifiable Attestation 	<div>DIPLOMA</div>	<div>IMMUNIZATION</div> <div>HEALTH INSURANCE CARD</div>
Move to production	<i>After piloting and the necessary quality and security checks certain use cases can evolve towards production supported by the ESSIF components and experts withing EBSI.</i>				

ESSIF-pilots in 2020?

To be elaborated in the next steps plan and transition plan

Potential setup or points to take into consideration

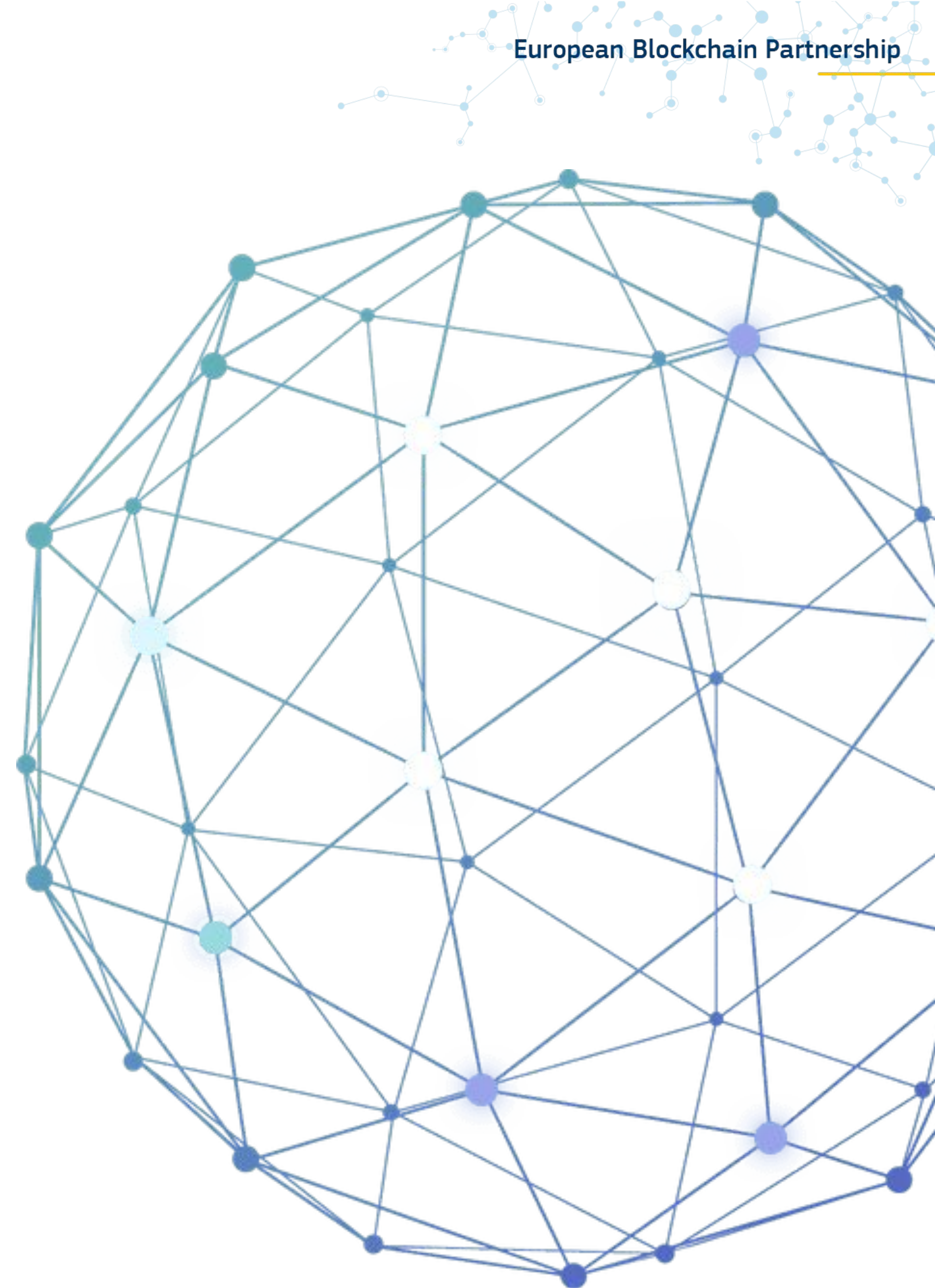
- Create a central ESSIF support team
- Rely on a stable EBSI-network + stable supporting services
- Let member states apply for funding of their development and integration teams and their pilot efforts
- Focus on the existing and elaborated EBSI use cases like diploma and notarization
- Focus on cross border pilots including different member states.
- Seek support of different (commercial) service providers in the (E)SSI(F) ecosystem.
- Define clearly the restrictions of ESSIF 1
- Link and align with eIDAS trust framework
- Rely on business ecosystems and governance



ESSIF-pilots in 2020?

Potential pilot focus on member states and public services

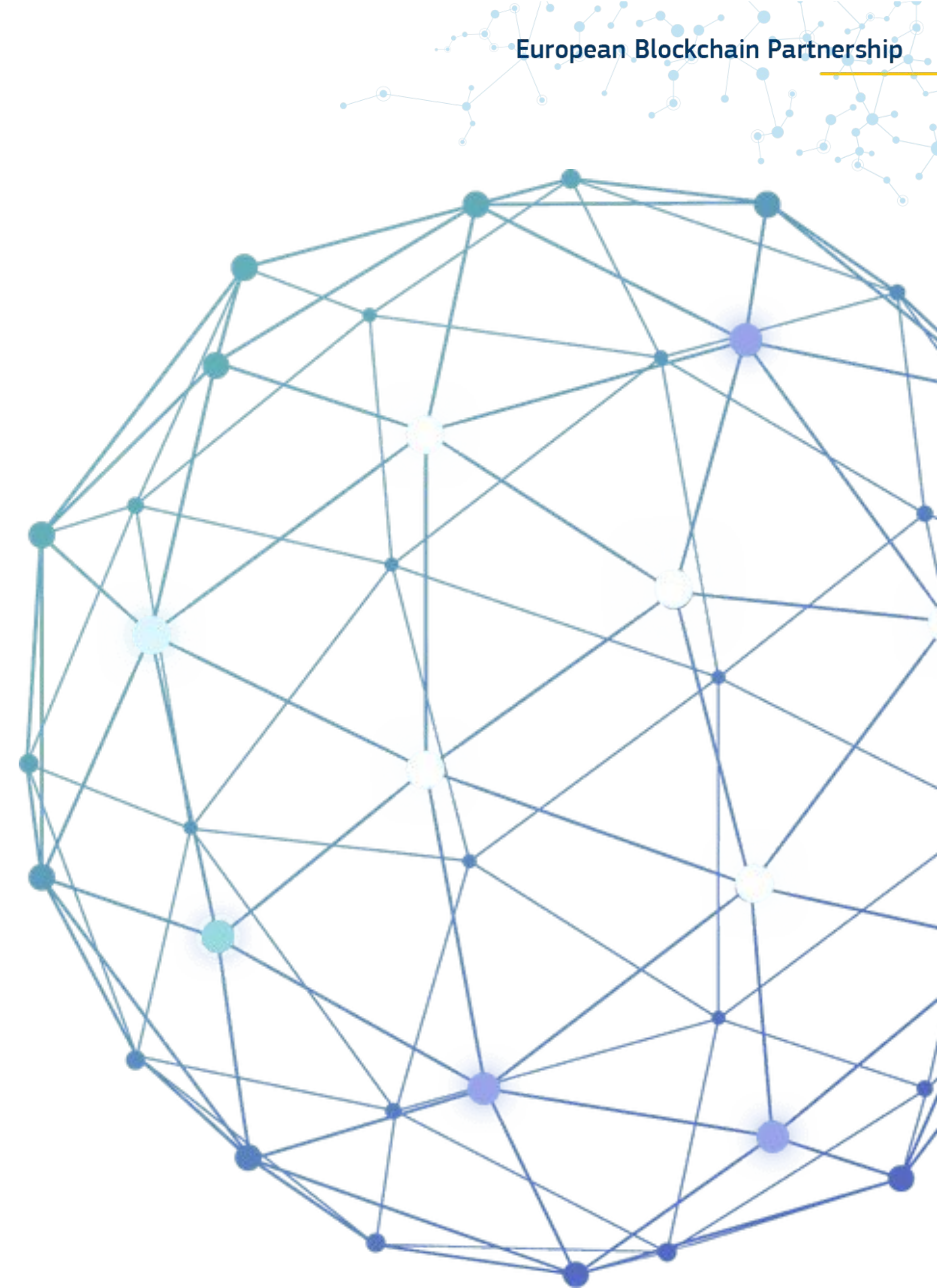
- User wallet pilots in collaboration with SSI market.
- Issuer Environment pilots (including revocation and suspension services, trusted issuer service and VC definition service).
- Relying Party Environment pilots.



ESSIF-pilots in 2020?

Collaboration with other projects/organizations?

- eSSIF-Lab
- H2020 project Digital Europe for all
- DIF
- ID2020
- British Columbia
- INABTA WG Identity
- National projects: Alastria, dSSIF, ...
- ...



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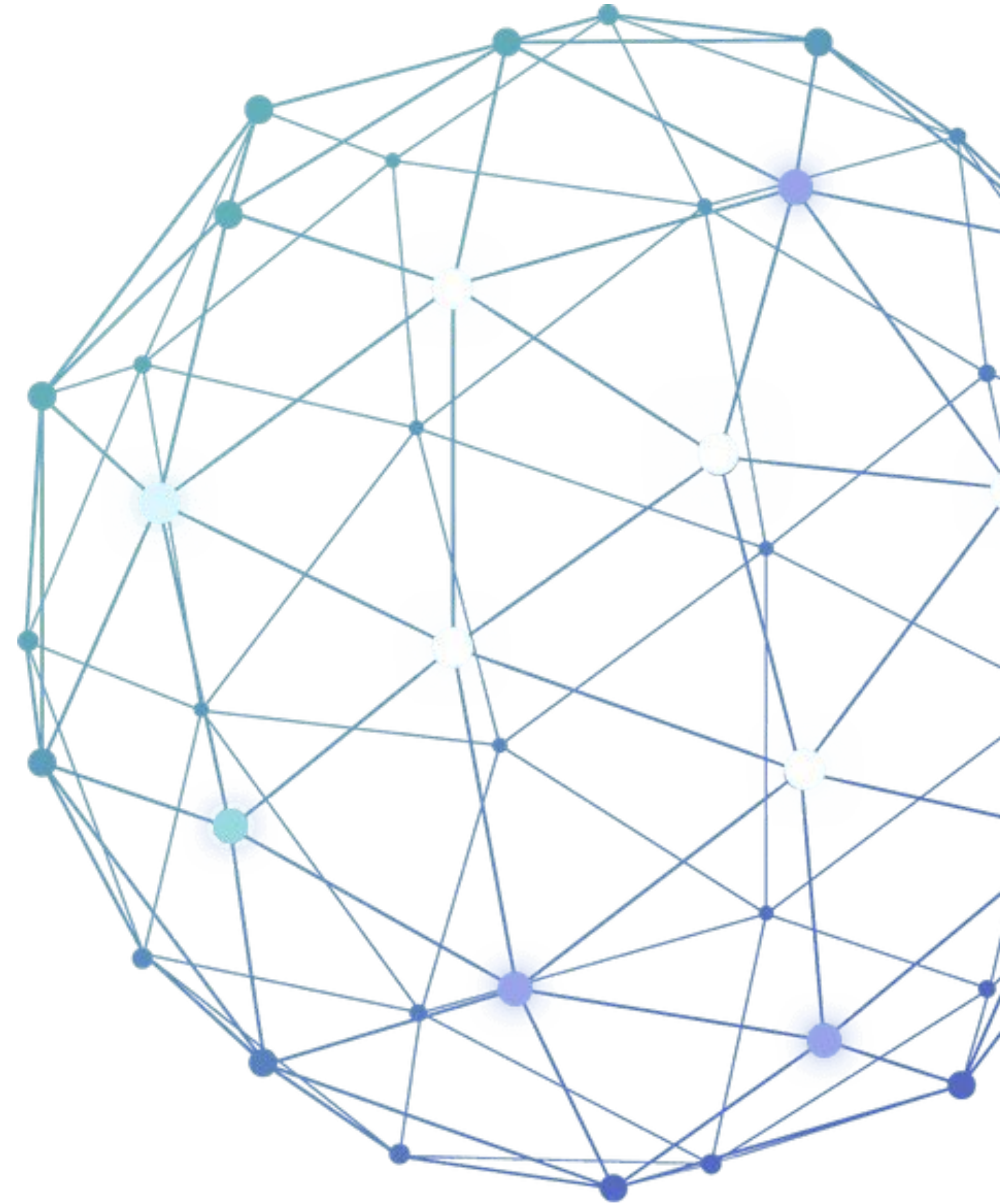
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Pre Commercial Procurement EBSI

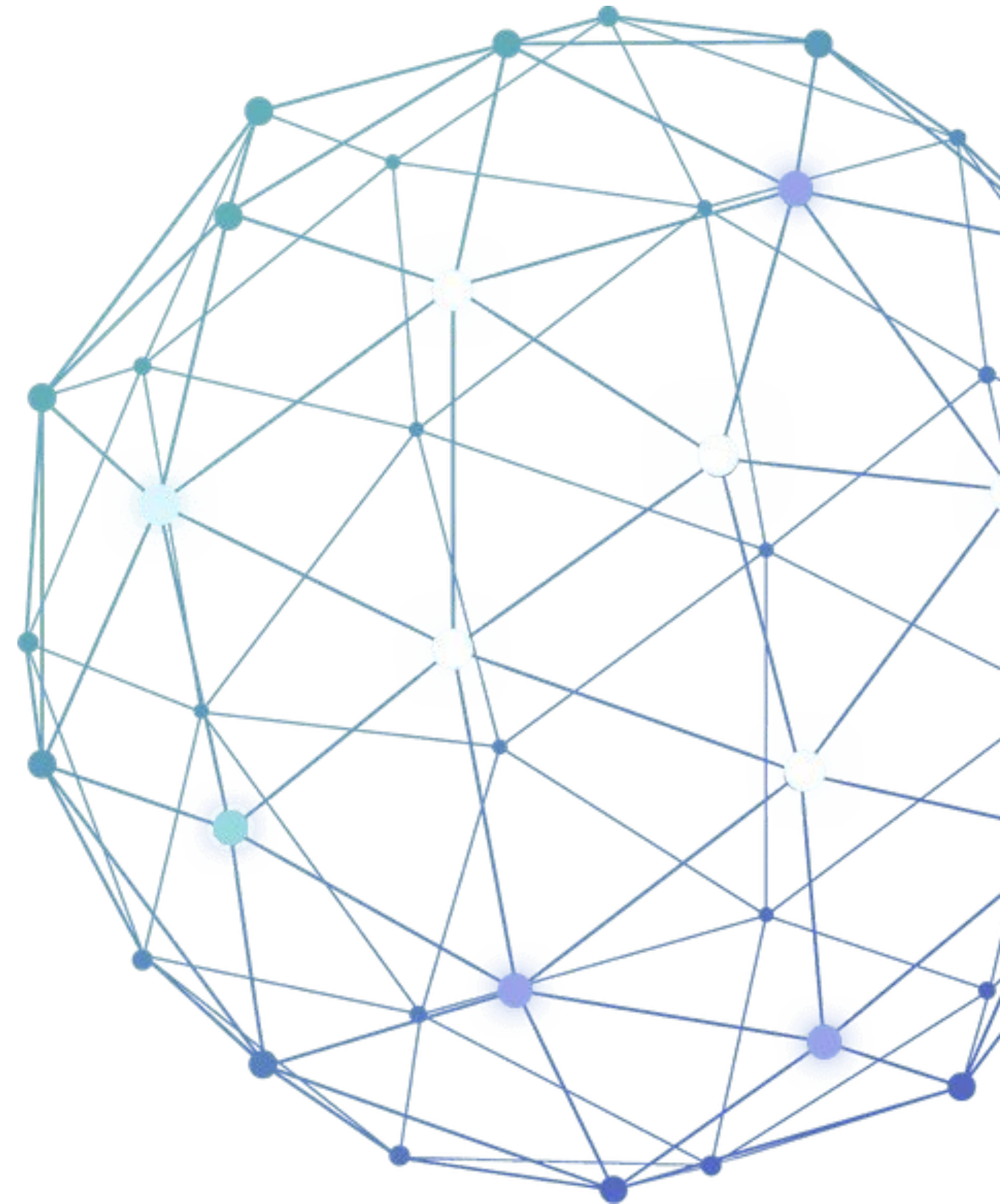
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ESSIF R&D

Potential R&D topics for the PCP or EBSI 3 research track?

- Secure (European) hardware for SSI user wallet:
- How to collect anonymous data from SSI users
- Mandates on SSI a sustainable and secure setup of mandates on SSI wallets and data.
- Access SSI data in case of emergency
- SSI and registration of immigrants/border security
- SSI and tokenization
- SSI and IoT
- SSI and biometric data:
- ESSIF and other global SSI networks
- ESSIF and high LoA



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THANK YOU!

**Thank you for your
participation and your
input in this session and
in the online survey!**

