NEXT GENERATION INTERNET

ESSIF-LAB and DIF interoperability

DIF Interoperability WG call. 9th December 2020



Agenda

- eSSIF-Lab: Use SSI to facilitate electronic transactions
- o eSSIF-Lab: Infrastructure-oriented open call closes 4 Jan 2021, grants up to 155 k€
- eSSIF-Lab and DIF: orchestrating interoperability
- Discussion: advice from DIF experts to eSSIF-Lab



eSSIF-Lab: Use SSI to facilitate electronic transactions

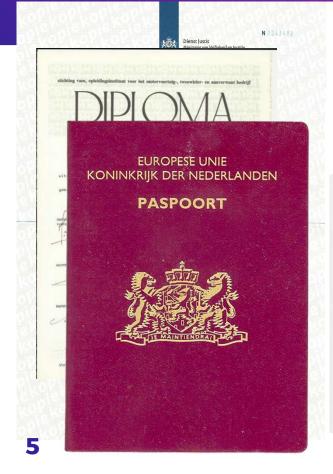


eSSIF-Lab: Build Interoperable Infrastructure to Facilitate Electronic Transactions





Imagine: everything that anyone knows about you ... is in your vault ...

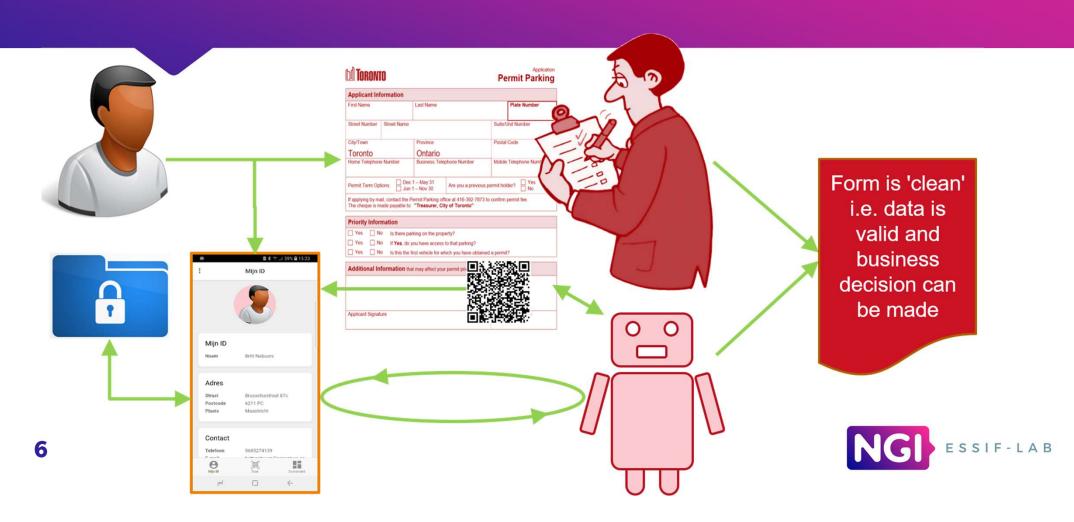






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W 230	Is er op het loon van de werknemer loonbeslag gelegd?	O Ja O Nee Zo ja, €
Ondertekening	Ondergetekende verklaart namens werkgever dat alle gegevens naar waarheid zijn ingevuld. Naam ondertekenaar:	Getekend te:
		(handtekening en firmastempel)

Vision: assist transaction parties electronically



Benefits

... for Individuals:

 Inclusivity: you no longer need to be welleducated in order to fill in forms.

Speed:

- Collect data electronically → speed.
- No need to physically go places to collect data.

Ease

- Minimize typing data.
- No need to upload PDFs.
- Minimize frustration.

for Organizations:

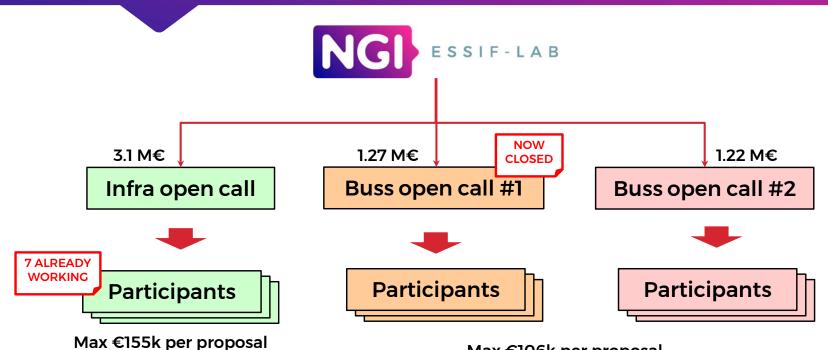
- They get quality data, i.e.
 - It means what it is supposed to mean;
 - Data is verified by party that the organization itself trusts.
- Validation of data is easy:
 - Cryptographic check on provenance and data integrity;
 - Electronic check op actuality.
- Higher customer/citizen satisfaction → higher filling in and success rates resulting from faster decision making and
 - because users do not give up any more.
- Do away with IT-links that supply data that can now be reliably and trustworthily be supplied by the users.
- Support for GDPR e.g. digitally providing purpose and other meta data helps enforce the right of transparent information, access, data portability, restriction of processing, etc.).
- New business opportunities because many more kinds of data can become available.



eSSIF-Lab: Infrastructure-oriented open call closes 4 Jan 2021, grants up to 155 k€



OPEN CALLS OVERVIEW



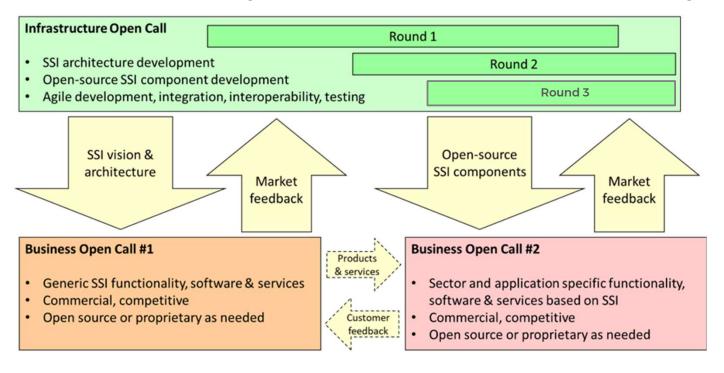
Max €106k per proposal

Technical & business mentoring for selected proposals through business open calls



RELATION AMONG OPEN CALLS

All open calls are related among them because eSSIF-Lab aims at building an ecosystem





WHAT ARE WE LOOKING FOR?

We aim to support the development and implementation of open source SSI components to the eSSIF-Lab basic infrastructure.

I.e. components to populate eSSIF-Lab Framework as to enable participants selected under the Business-oriented Open Calls of eSSIF-Lab to easily use the infrastructural components.

Solutions must:

- Be scalable and interoperable
- Use agile development
- Be within the SSI concept



Inspiration for Proposal Topics

Tech Infra Oriented topics:

- Secure Credential Storage (wallet/hubs)
- SSI phone Apps and/or browser add-ons that work with different kinds of credentials (e.g. VCs, ABCs, ...)
- Web server proxies that implement, or connect with components for the various SSI roles
- Revocation service that allows verifier to check for revocation of a credential any time after having received it
- On the fly' requesting the issuance of a credential if it is asked for, but missing in the wallet
- Cryptographically enforceable issuer policies

Tech Infra Oriented topics

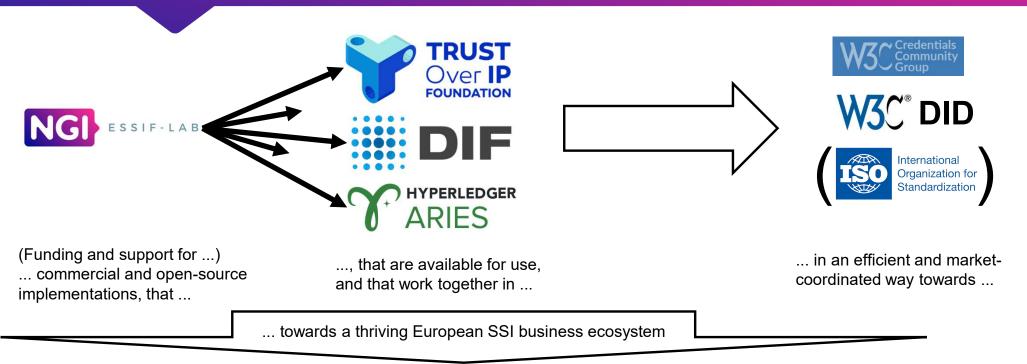
- Countermeasures against SSI coercion
- Tooling for the governance of local assurance communities, which issuers to trust for which categories of credentials
- Solutions that aid the integration of multiple SSI technologies
- Solutions that aid the interoperability between different SSI components
- O ...



eSSIF-Lab and DIF: orchestrating interoperability



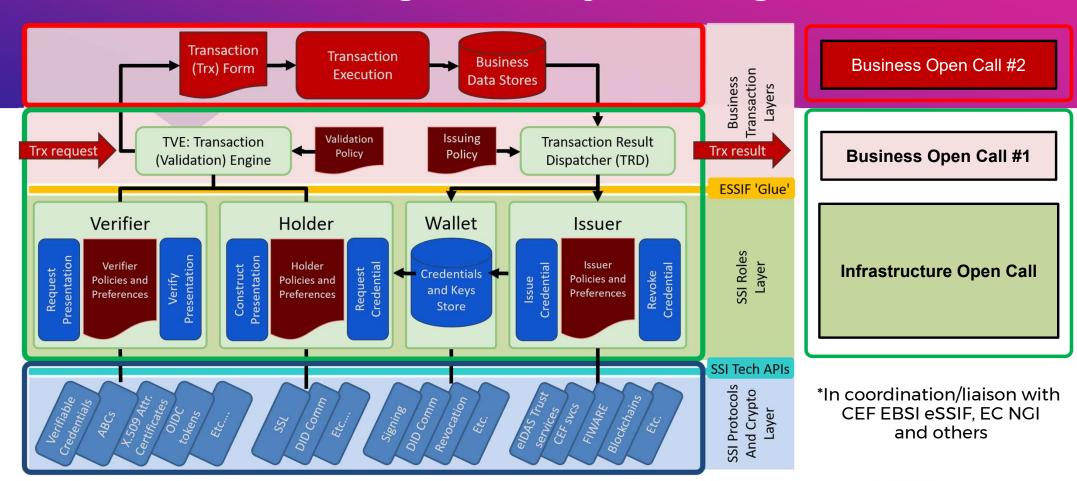
eSSIF-Lab and DIF: orchestrating interoperability







eSSIF-Lab: building SSI ecosystem together





Current "infrastructure" subgrantees

BRIDGE by SICPA Spain S.L.U.	BRIDGE for ledger-agnostic interoperable issuance and verification of W3C verifiable credentials.	SICPA
Capability Based Authorization System by Jolocom	A capabilities-based authorization system, utilizing DIDs, Verifiable Credentials, Verifiable Presentations, etc.	為 Јогосом
eSSIF-TRAIN by Fraunhofer- Gesellschaft	Trust Management Infrastructure Component.	Fraunhofer
Evernym Open Sourcing Project by Evernym UK	Open sourcing Evernym's credential exchange platform.	ever nym
Self-Sovereign IDentity Online by UBICUA	Online password less authentication based on SSI and FIDO2.	UBICUA Digital Ecosystems
SSI eIDAS Bridge by Validated ID, S.L.	An eIDAS bridge, which is a component that proposes to enhance the legal certainty of any class of verifiable credentials.	Validated ID Aleasys be yourself
Verifiable Credential Authority by NYM Srl	A DLT/blockchain independent platform to Issue and Verify certified attributes and claims, under different formats, and for any SSI system.	NAM

See also

https://essif-lab.eu/meet-the-essif-labs-ecosystem-the-1st-business-oriented-programme-participants/

and

https://essif-lab.eu/meet-the-essif-labsecosystem-the-infrastructuredevelopment-instrument-first-winners/

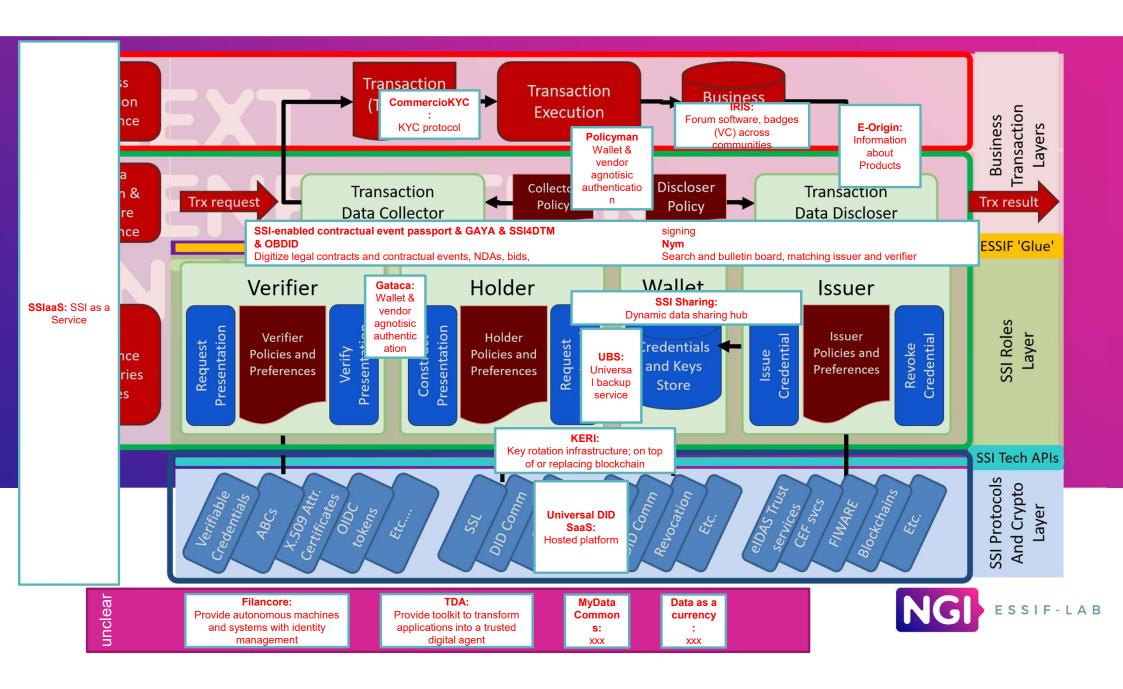


Current "business" subgrantees

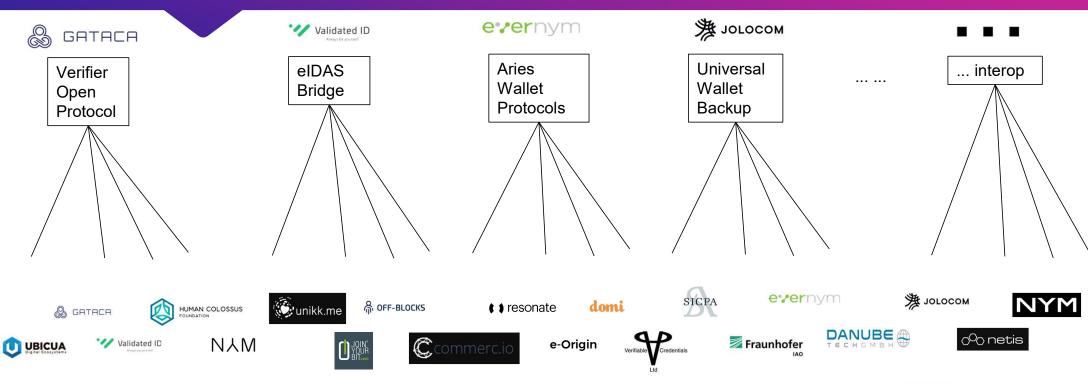
CommercioKYC by Commerc.io	Easy KYC with Self-Sovereign Identity.	©commerc.io
Universal DID SaaS by Danube Tech	Building a hosted service that allows developers to easily work with Decentralized Identifiers (DIDs), without having to set up their own infrastructure.	DANUBE TECHOMBH
SSI-enabled "Contractual Event" Passport by Domi Labs	Enabling businesses to integrate SSI into their contractual record management processes.	domi
e-Origin Wallet by e- Origin	Digital wallet of verifiable credentials for the products' origin.	
Gataca Connect by Gataca España	Trusted Single Sign On for a human-centric Internet.	GATACA
SSI4DTM by JoinYourBit	Self-Sovereign Identity for Digital Transaction Management: a Digital Transaction Management platform to execute any cross- border transactions: NDAs, contracts, bids, etc.	JOIN' YOUR BITcom
Universal Backup Service (UBS) for SSI Agents by Jolocom	A vendor-neutral, plug-and-play component for equipping SSI Agents with a service to generate interoperable backups of end user data.	涄 ЈОГОСОМ
SSI-as-a-Service by Netis	Simplifying SSI integration and adoption.	0 ⁰ 0 netis
Gaya by NYM srl	Supports public notaries to remotely incorporate Limited Liability Company, providing all the tools they need to apply digital transformation to their business.	NAM

NYM Credentials for Self-Sovereign Identity by Nym Technologies	A bulletin-board and search system for privacy-enhanced services	NYM
Digital ID and signatures by Off- Blocks	Onboarding businesses and organizations in a self-sovereign world through user-friendly and low-cost control over trusted digital identities, verified credentials and digital signatures.	ရှိ off-Blocks
IRIS – Discourse Community Credentials by Resonate Beyond Streaming	A Discourse plugin that allows SIOP OIDC login and community-friendly transparent recognition, award and governance of verifiable credentials as user-friendly 'badges'.	¢ ‡ resonate
Dynamic Data Sharing Hub with Consent Flow by The Human Colossus Foundation	Brings SSI benefits to the wider economy by enabling a privacy preserving full data life cycle including consent.	HUMAN COLOSSUS Foldidation
Trusted Digital Assistant – a data operator solution by unikk.me	Bringing the fundamental right to an autonomous identity to every person by enabling trusted parties to act as a 'trusted digital assistant' in catering.	unikk.me
User-friendly Management Interface for Verifier Policies by Verifiable	Verifiable credentials for reviewers of scientific publishing and research funding proposals.	Verifiable Credentials

Credentials



eSSIF-Lab interop projects







eSSIF-Lab and DIF: where can we help each other

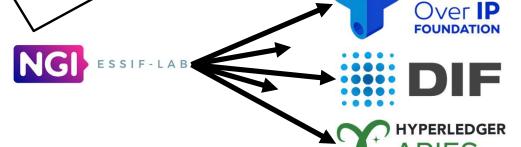
Funding and support for implementation, interop testing and standards development (and buss dev)

but lacking

- standing organisation and long-term continuity
- · methodologies and systems for interop
- home for developed open source code

Standing organisations with open source library development, interop profile development & publication, interop test suites, and interop event organisation

TRUST





Discussion: advice from DIF experts to eSSIF-Lab

In conclusion

- eSSIF-Lab: Use SSI to facilitate electronic transactions
- eSSIF-Lab: Infrastructure-oriented open call closes 4 Jan 2021, grants up to 155 k€
- eSSIF-Lab: drive for open source, interoperability, standards and market

Seeking you advice

- o What has DIF to offer to eSSIF-Lab (and vice verse)?
- How to ToIP, DIF and Aries relate? Their relevance to eSSIF-Lab?
- What aspects of eSSIF-Lab fit best with DIF? Or ToIP, or Aries?



THANK YOU!

WEBSITE: ESSIF-LAB.EU

info@essif -lab.eu

eSSIF-Lab FRAMEWORK:

https://essif-lab.pages.grnet.gr/framework



The NGI ESSIF-LAB project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 871932

Extra slides



eSSIF-Lab logos



































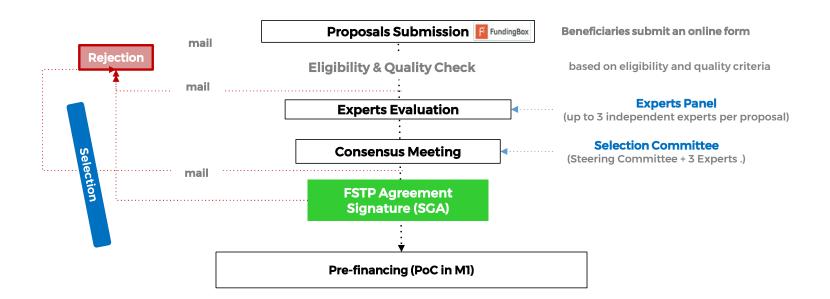








REQUIREMENTS and EVALUATION





ELIGIBILITY CRITERIA

- Development and testing of SSI open source components which meet
 SSI Concept and contribute to eSSIF-Lab vision and architecture.
- Legally established or resident in eligible countries (i.e. EU Member States, their OTC, H2020 Associated Countries)
- Submission before deadline (04/01/2021, at 13:00 -Brussels time)
- Language: English
- No conflict of interest & not in EU exclusion criteria



QUALITY CRITERIA

MINIMUM QUALITY CRITERIA

- 1. "Have a relevant past performance in developing and running identity solution or related components"
- 2. "Embracement of broad vision of eSSIF-Lab interoperable self-sovereign identity"
- 3. "Willingness to interact with other eSSIF-Lab participants to further concretize eSSIF-Lab vision"



MAIN FEATURES

Infrastructure-oriented call



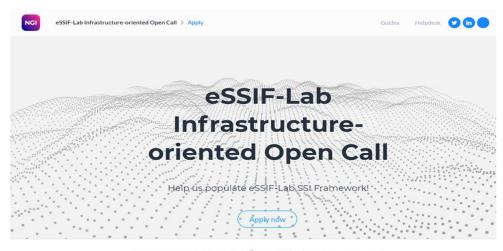
European innovators



Open source SSI components



Up to €155K (9 months projects)



Infrastructure-oriented call will stay open until 30^{th} of June of 2021 at 13:00 (Brussels time) but there will be a cut-off date for evaluation on 30^{th} October 2020 at 13:00 (Brussels time).

NEXT DEADLINE: 04th January 2021 at 13:00 (Brussels Local Time)

Online form https://essif-lab-infrastructure-oriented.fundingbox.com/
Helpdeskhttps://essif-lab-infrastructure-oriented.fundingbox.com/
Helpdeskhttps://essif-lab-infrastructure-oriented.fundingbox.com/



GUIDANCE DOCUMENTS

eSSIF-Lab Infrastructure-oriented Open Call

