

2025 Hackathon on Interoperability of Digital Public Infrastructure

Co-organised with FIWARE Foundation (EU)

European Union – India – Singapore – Republic of Korea – Japan



Welcome to the Hackathon on "Interoperability of Digital Public Infrastructure"—an exciting event where creative minds collaborate to solve one of today's most pressing digital challenges. In a world of growing online services, seamless and secure implementation of digital public infrastructures across systems is essential for trustworthy digital transactions and citizen empowerment. Given the EU-India Trade and Technology Council's (TTC) focus on digital public infrastructure, and the parallel Digital Partnerships (DPs) with Japan, South Korea, and Singapore, cross-border interoperability has become a pivotal agenda.

[Registration available on-line](#)

Introduction

Digital Public Infrastructures (DPIs) refer to open, inclusive, and secure digital platforms such as digital identity, payments, and data exchanges that underpin foundational government and commercial services and can be adapted for global use. DPIs are meant to be interoperable, trusted, and designed for public good, facilitating seamless access and innovation.

The [EU-India Trade and Technology Council \(TTC\)](#) has prioritized cooperation on DPIs, recognizing the potential to create credible, scalable digital foundations in developing countries and enhance interoperability between EU and Indian systems. India's experience offers tested blueprints for digital identity, e-payments, and secure data sharing, whereas the EU focuses on digital governance, infrastructure, and promoting a human-centric digital economy.

Challenge

Challenge Objective: Create a functional prototype demonstrating seamless identity verification where a EU citizen, using its Digital Identity Wallet, would like to access a data resource from an Indian organization registered in MOSIP.

Additional bonus criteria include use of:

- NGSI-LD contextualised information for data semantic information representation
- Data resource discovery and access through a dataspace connector such as Gaia-X
- Verifiable credential access through vLEI server
- Digital identities framework relevant for Japan, South-Korea and Singapore

Success Criteria: Your solution must demonstrate cross-border digital identity interoperability that preserves data sovereignty, enables selective disclosure, and works across heterogeneous DPI systems while complying with both GDPR and Indian data protection frameworks.

Suggested standards and tools:

| Standard Category | Specification/Standard | (Open-Source) Implementation |
|---------------------------|---|---|
| Platform & Infrastructure | eIDAS 2.0 Architecture Reference Framework (Architecture and Reference Framework) | Wallet providers Issue Digital documents Verifier Apps and services |
| | MOSIP specifications | github.com/mosip |
| | ETSI NGSI-LD / FIWARE Architecture | FIWARE Catalog including NGSI-LD context brokers (Orion-LD, Stellio, Scorpio) |
| | Gaia-X Federation Services | Gaia-X Technical Compatibility specifications |
| | GLEIF vLEI standards | vLEI Server vLEI Trainings |

| Standard Category | Specification/Standard |
|--------------------------------------|---|
| Core Context Data exchange standards | ETSI NGSI-LD API ETSI NGSI-LD Primer Support of provenance information in NGSI-LD |
| Core Identity Standards | eIDAS 2.0 European Digital Identity Regulation |
| | W3C Decentralized Identifiers (DIDs) v1.0 |
| | W3C Verifiable Credentials |
| | OpenID Connect (ISO/IEC 26131-39:2024) |

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| Trust framework | Gaia-X Trust framework |
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Organisation

This event is organised in the context of the [3rd Symposium on Data for Public good](#).

Eligibility

- Open to residents of India, Singapour, South Korea, Japan, European Union countries and switzerland
- Teams can have up to five members.
- A given person can be a member of only one team.

Data Access and Use

- Data is for competition use only and must remain private.
- Any personal identifiable information in the data must not be revealed.
- Open-Source code should be used whenever possible, provided such use is permitted by the owners of the open source code.

Rules of Participation

- Register and sign up on GitHub
- Only one repository per team.
- One submission per team; submission should be in the form of a presentation explaining the solution its replicability accompanied with a running demo. A Jury will select to 3 most promising which will be invited to pitch their solution on October 15th within the Data for Public Good Symposium

Prize

- Representative of the winning team will be invited to an event in Europe (for any team from Indo-Pacific countries covered by the INPACE project) or event in Indo-Pacific country (for any team from the European Union) to present the team solution.

On-site support

- Experts from involved framework will be available on site to support the participants

Supporting organisations

- INPACE project

- FIWARE Foundation
- GLEIF
- Gaia-X
- ...