



## An Inside Look at Inji

A Complete Solution for  
Verifiable Credential Lifecycle Management

**Sivanand Lanka**, VP, Engineering - MOSIP



# THE MOSIP VISION **A DPI approach**

MOSIP envisions a digital future that is **interoperable, inclusive, and trusted**

## **OpenG2P**

Financial Inclusion, Social Benefits,  
Emergency Response, Registries,  
Private Sector



**Services**

## **Inji & eSignet**

Data Exchange, Digital Trust, User  
Consent, Mobility, Privacy, Security



**Data Exchange**

## **MOSIP**

Identity issuance and verification  
as the foundation



**Identity**



## Africa

19 Countries

Morocco (37.271 Million)

Ethiopia (126.5 Million)

Guinea (14.2 Million)

Togo (9.1 Million)

Sierra Leone (8.8 Million)

Burkina Faso (23.3 Million)

Niger (27.5 Million)

Madagascar (30.3 Million)

Uganda (48.6 Million)

Nigeria (223.8 Million)

Congo (6.1 Million)

Zambia (20.6 Million)

eSignet Adoption

The Gambia (2.7 Million)

Côte d'Ivoire (28 Million)

Benin (13.35 Million)

São Tomé & Príncipe (225,000)

Lesotho (2.3 Million)

Senegal (18.5 Million)

South Africa (63 Million)

## Asia Pacific

4 Countries

Philippines (117.3 Million)

Sri Lanka (21.9 Million)

Cambodia (16.9 Million)

eSignet Adoption

Tonga (107,000)

## LatAm & The Caribbean

6 Countries

Peru (34.4 Million)

Belize (405,000)

Mexico (128.5 Million)

Trinidad & Tobago (1.5 Million)

Bolivia (12.4 Million)

SVG (104,000)

### Map Key



National Rollout

Completed Pilot

Ongoing Pilot

Pilot to Begin

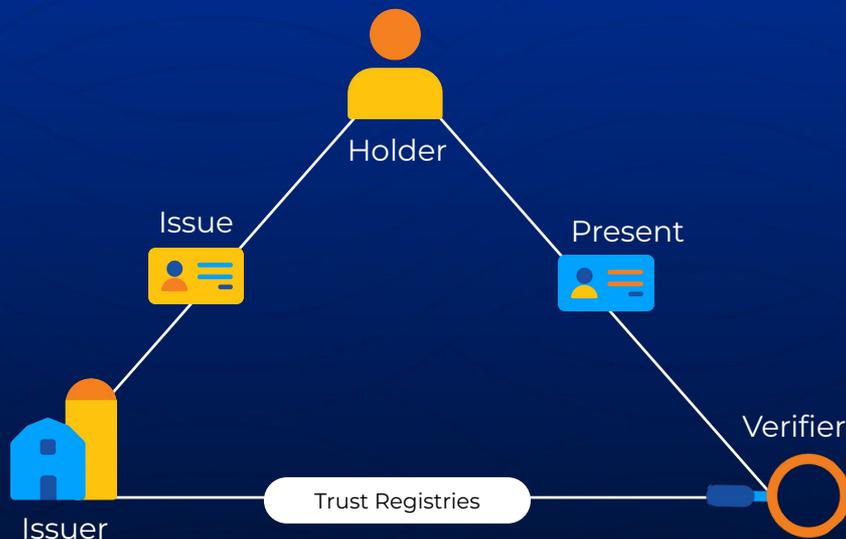
## MOSIP Adopting Countries

**185+ Million residents** received digital IDs on MOSIP-based systems across **14 national rollouts**.

Total reach of **970.8 Million residents** worldwide with **29** active country engagements.



# What is a Verifiable Credential?



Decentralized Verification Model

**A Verifiable Credential (VC) is a trusted, digitally verifiable representation of raw data from physical credentials, enabling easy exchange while preserving authenticity and integrity.**



Information needs to be **presented** and **validated** for service delivery!



**Trusted Identity**

**Trusted Data**





# The Spark Ideation of Inji

Inji - "knowing" or "recognizance" in Korean language



Growth Acceleration



Instant Verification



Authorized Issuance



Inclusivity



High Trust at Low Cost



Decentralized

User controlled trusted data exchange is the bedrock of a digital economy



# Using Inji in your credentials solutions

Tools for all stakeholders



## Converting data to trustworthy Credentials

Create, sign, issue, bind, or revoke Credentials



## Making data trustworthy and portable

Download, manage, store, share, verify and access Credentials from anywhere on both **mobile & web**



## Exchanging trusted data with service providers

Consume and verify Credentials



### Standards Driven:

- ▶ W3C: Verifiable Credentials Data Model 1.1, 2.0
- ▶ OpenID4VCI, OpenID4VP, OpenID4VP\_BLE
- ▶ ISO/IEC 18013-5
- ▶ Claim 169: IANA CBOR Web Token (CWT)



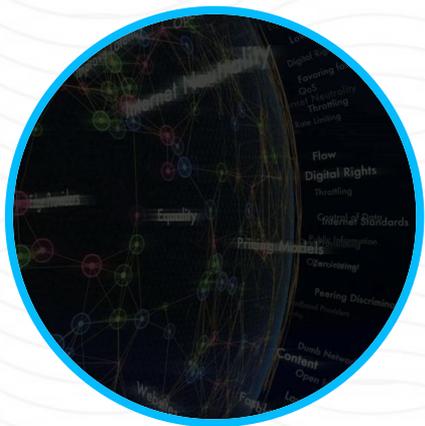
## Why Inji?

- **Paper-Based Credential Support**
- **Interoperable** - Standards Driven
- **Active Ecosystem** - Commercial Technical Support
- **Modular** - Simplified Integrations
- **Designed for Scale**
- **Open Source**
- **End to End components to build your solution**
- **Multiple Deployment Models**
- **A MOSIP product** - Secure, Privacy Preserving, and Inclusive



# Real World Potential Use Cases of Inji

Inji enables seamless issuance, management, and verification of verifiable credentials across multiple industries, ensuring trust, security, and efficiency in digital transactions



1 Academics 🎓

2 Cross-border Travel ✈️

3 Agriculture 🌱

4 Healthcare 🏥

5 Employment 📁

And more...





# Let's imagine Use-cases



## Agriculture

- Farmer ID, Land record certificates, and Crop registry
- Insurance, Market guarantee, Loan & credit, etc
- Open markets with high-trust



## Health

- Doctors & medical practitioner licenses, Health facility registrations, and patient medical records
- Seamless services, Faster diagnosis, Trusted service providers
- Health network with ease of access & choice



## Education

- Student ID, Teacher certification, Exam certificates...
- Access to scholarships, Career path for teachers...
- Better learning outcome for students through education ecosystem

**And Beyond...**



# How do VCs look?

## Explore with some samples...

**Income Tax Department** Republic of Veridonia

Full Name: Abigail Thompson  
TAN ID: 283917342183222  
GENDER: Male  
DATE OF BIRTH: 01-03-1991

ISSUED ON: 01-02-2025  
EXPIRES ON: 01-02-2035

1. TAN ID Is A Unique Identifier For Tax Transactions.  
2. This Is An Electronically Generated Document.  
3. Required For Entities Deducting Or Collecting Tax At Source.  
4. Verify Via The Tax Portal Or QR Authentication.  
5. Valid For Financial And Tax Transactions Nationwide.

6. Essential For TDS/TCS Returns And Tax-Compliant Business.  
7. Keep Your Registered Details Updated To Avoid Issues.  
8. Handle Security To Prevent Misuse.  
9. If Found, Return To The Nearest vNID Office.

Income Tax Department  
Generation Date: 01-02-2025

**Republic of Veridonia**  
Veridonia National ID

Full Name: Abigail Thompson  
vNID: 283917342183222  
DATE OF BIRTH: 01-03-1991  
GENDER: Male

ADDRESS: #491, Sector 2 Block 4, Paschim Vihar, New Delhi, Delhi, 110010

1. Present your vNID as a valid proof of identity.  
2. This is an electronically generated document.  
3. vNID is valid throughout the country.  
4. Verify identity using Online Authentication.  
5. vNID helps you avail various Government and non-Government services easily.

6. Your vNID may be cut and folded crosswise.  
7. If found, return to the nearest vNID office.  
8. Keep your mobile number & email ID updated in vNID.  
9. Carry vNID in your smartphone - Use the Inji Mobile Wallet App.





# MOSIP and Community





## Building a Community

- **Cross-learn** from the community
- **Contribute** to MOSIP Technology Roadmap
- **Co-develop** technology for country usage



# MOSIP Community

<https://community.mosip.io/>

The screenshot shows the MOSIP community website interface. At the top, there is a navigation bar with the MOSIP logo, 'Sign Up', and 'Log In' buttons. The main heading reads 'Welcome to MOSIP community' with a sub-message: 'We're happy to have you here. If you need help, please search before you post.' A search bar contains the text 'Android'. Below the search bar, a dropdown menu displays search results for 'Android', including:

- Android SBI Specifications - Draft**
  - Partner Ecosystem `android`
  - May '22 - Hello All, Following is the draft specification for **Android SBI**. Please provide your feedback and review comments for the same. Also please find the direct lin...
- INVITATION : Second community demo of the **Android** Reg client**
  - Android Registration Client
  - Aug 10 - ...Please join us tomorrow (11th August 2023) at 12:30 pm GMT+5:30 pm for a demo. See you there... MOSIP **Android** Registration Community Demo Friday, August 11 - 12:30 - 1:10pm Time zone: Asia/Kolkata Google Meet...
- First Community Demo of the **Android** Reg client [July 28, 2023 14:30 pm GMT+5:30]**
  - Android Registration Client `regclient` `android`
  - Jul 25 - Hello, I take pleasure in inviting you to the first demonstration of the **Android** Reg client. Time - 2023-07-28T09:00:00Z \* 2023-07-28T10:00:00Z Duration : 1 hr max joining link - h...
- Upcoming **Android** Reg client - some screen shots**
  - Android Registration Client `regclient` `android`
  - Jun 25 - Hello friends, I am very happy to share some screenshots of the upcoming **android** reg client. Feel free to go through them and write your comments on what do you feel. Please note L...

## Hosted on Discourse

(Open-Source platform)

- Tags for building knowledge repository
- Technical and non-technical discussions
- Announcements
- **Open conversations**

## Webinars & Surveys

## Community Initiatives

- Android Registration Client



# MOSIP

## Community Collaborations

**Co-creating** the future of digital identity with the global community.

- **Community Engagements**

- Countries
- Universities: Carnegie Mellon University, ATI, IITB, IIITH (C4GT), IIT-BHU
- MOSIP Initiatives: MOSIP Connect, MOSIP Decode Hackathon, MOSIP Create
- Individual Contributors

- **Driving Interoperability**

- FIDES





# Try It Out

## Explore, test & build with confidence

- **Access our sandbox Collab environment** - <https://collab.mosip.net/>
- To test out **Inji Mobile Wallet**, download the APK from [here](#) and follow the instructions as per the [Setup guide here](#)
- To test out **Inji Web Wallet**, access the portal by clicking [here](#) and follow the instructions as per the [Setup guide here](#)
- To test out **Inji Verify**, access the portal by clicking [here](#) and follow the instructions as per the [Setup guide here](#)
- **To know about the Inji stack, click here:** [Documentation](#)



Incubated at  **mit·b**  
मानवसुखसंस्थान

Scan to Know More About Inji



A **MOSIP** Product



**Thank You!**