



MOSIP

COUNTRY

Conversations

March 13th and 14th 2023 | IIIT Bangalore



MOSIP COUNTRY Conversations

LONG-TERM RELEASES: Types, Levels, and Details

Ramesh Narayanan
Chief Technical Officer, MOSIP



TYPES OF MOSIP Releases

MOSIP periodically releases versions of the platform, tagged with version numbers. These versioned releases fall into many types.

01 DEVELOPER RELEASES

- Interim releases, not marked as stable
- Can be used for experimentation, integration testing, and small pilots
- No active support for these versions. Adopters are expected to move to the next available stable release

02 STABLE RELEASES

- Fully tested releases
- Offers incremental capabilities and fixes over previous stable releases.
- Ready for adoption by anyone looking for a cutting-edge version.
- Support for these releases is typically time limited and the expectation is that the adopter will upgrade to an LTS version or the next stable release. Support for this reaches sunset as newer stable releases are made available.

03 LTS VERSION

- Stable release
- Signifies the culmination of a roadmap for that version and is marked as the LTS version.
- LTS versions get patch releases and minor and major updates.





LEVELS OF of Support



01 ACTIVE SUPPORT

This is the highest and best level of support. This is only offered on the latest LTS version, and select latest stable release versions.

02 ESSENTIAL SUPPORT

This support as the name suggest is limited to essential fixes such as security and selected functional and non-functional enhancements. This is offered on the previous LTS version during the upgrade window.

03 NON SUPPORTED

This is the lowest level of support and only critical security fixes will be made. No functional and non-functional releases or non-critical security releases will be made. This only applies to LTS versions that are out of support.

04 END OF LIFE

Any release version that is marked as End of Life will not receive any updates.



LONG-TERM SUPPORT

What is an LTS Release?

- **SUPPORTED FOR A MINIMUM OF 5 YEARS**

Asymmetric Amoeba (1.2.0 LTS) was released in February 2022 and will be supported at minimum till February 2027

- **WHAT HAPPENS AFTER FEBRUARY 2027?**

Scenario 1: A new LTS version is released

MOSIP plans to release version 2.X LTS in February 2025. Active Support for Asymmetric Amoeba will be available during an upgrade window of 2 years. Between Feb 2025 – Feb 2027 both LTS versions will be supported. After Feb 2027 only the newer LTS version will get active support. Support for Asymmetric Amoeba will be downgraded.

From February 2027 the most actively supported release will be version 2.X LTS

Scenario 2: No new LTS version is released

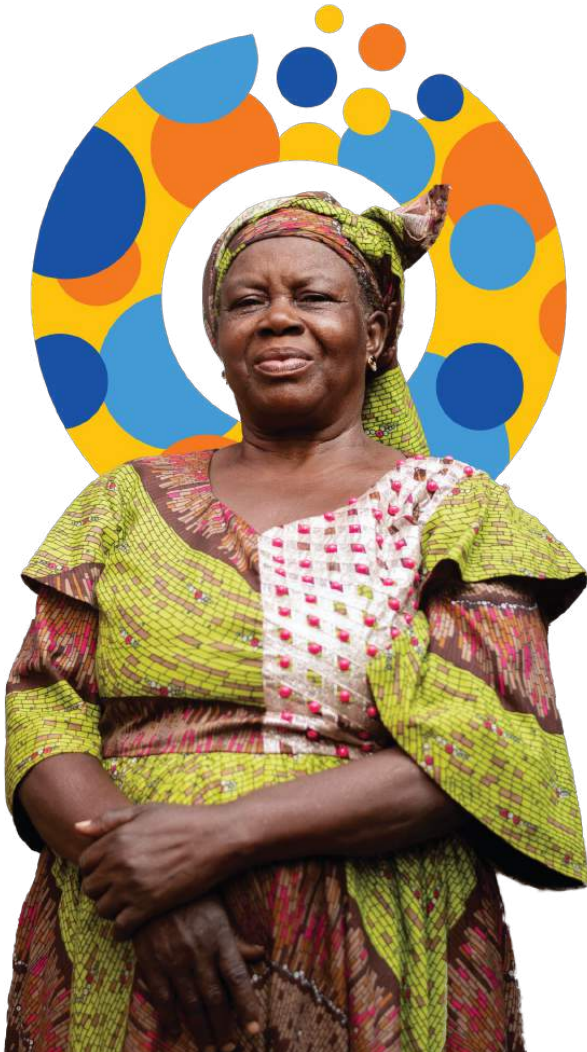
Active support for Asymmetric Amoeba will be extended

- **Support will be available for migration to next LTS version for two years**
- **Adopter inputs and experiences will be factored to fine tune this duration**





THE NEED FOR Long-Term Support



LTS Releases offer:

- 01** Completely implemented roadmap features
- 02** Frozen API and Data formats
- 03** Tooling, add-ons and extensions
- 04** Compatible components and solutions in the marketplace
- 05** Compliance and certification programs
- 06** Active support
 - Proactive security updates
 - Patches for bugs
 - Periodical cumulative updates of functional, non functional fixes and patches
 - Support for ecosystem partners for integration and implementation
 - Additional support to adopting countries under MOU for versions under active support
 - L3 support to adopting countries
 - Training and capacity building
 - Technical advisory on ID and use case implementations



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1.2.0 LTS – Asymmetric Amoeba

MOSIP'S CURRENT LONG TERM SUPPORT RELEASE – V 1.2.0



ASYMMETRIC AMOEBA

Who is it for?

ASYMMETRIC AMOEBA IS BEST FOR BOTH:
New Adopters | Existing Adopters

01 NEW ADOPTERS

- Full set of features and tools through pilot
- Country-wide rollouts, with assurance of long-term support
- Assured updates

02 EXISTING ADOPTERS ON PRE-LTS STABLE VERSIONS

- Access to full feature set, latest tools, and add-on modules
- Access to the best tier of support
- Access to periodic updates and fixes
- Ability to utilise the upgrade window to avoid falling into unsupported mode





ASYMMETRIC AMOEBA

What's New – Features & Fixes



01 FUNCTIONAL BENEFITS

- New Admin UI with robust APIs
- New Partner Management Portal UI with robust APIs
- New Resident Portal with robust APIs

02 OTHER BENEFITS

- Enhanced security
- Finer Documentation
- Enhanced mechanism to evaluate performance
- Improved service level performance
- Standalone stages of registration processing



ASYMMETRIC AMOEBA

What's New – Tools & Add Ons



TOOLS AND ADD ONS

- Anonymous profiling to cater to the analytic needs
- Improved reporting for better forecasting & efficient decision-making
- V3 Deployment Architecture
- Dockerised test automation



COMPLIANCE TOOL KIT

ANDROID REGCLIENT



WHY MIGRATE TO LTS?

Newer modules compatible with LTS



COMPLIANCE TOOL KIT



ANDROID REGCLIENT



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UPGRADING TO ASYMMETRIC AMOEBA



HOW TO UPGRADE

Standard Procedure for LTS Migration

- 01 Discussing** migration and communication strategies (relying parties, Stakeholders etc.)
- 02 Prioritising** a list of issues that must be fixed before migration
- 03 Understanding and analysing**, in detail, latest changes and customised features
- 04 Identifying** sequencing of components and infra to be migrated
- 05 Discussing** ways and means to automate specific steps
- 06 Migrating** using upgrade scripts- DB, template, config, seed data etc.
 - Phased migration: sandbox, staging, production
- 07 Hardening** security
- 08 Marking off** checklist template items



CHALLENGES AND IMPACT

Time & effort required to migrate

Time and effort involvement will depend on customisation needs

WITHOUT CUSTOMISATION: 2-3 months

- **Time to deploy V3: 2 weeks**
- **Time to execute upgrade scripts: 2-3 weeks**
- **Time taken to test/certify:**
 - 2 days for environment sanity using test rig automation
 - 3-4 weeks for full blown testing for all the modules





MIGRATION SUPPORT

Before, during & after LTS migration

Before: Availability of upgrade scripts

During: Cater to customisation needs
and discuss backup and restore strategy

After: Support with end-to-end testing

MIGRATION PLANNING AND EXECUTION

Parameters that define
the success of migration

- Functionality coverage
- Successful execution
of integration and
automation testing

GOING DIGITAL WITH MOSIP

MOSIP for Use Cases

Ramesh Narayanan (CTO, MOSIP)



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THE MOSIP Solution

MOSIP ENVISIONS A DIGITAL FUTURE THAT IS

INTEROPERABLE

INCLUSIVE

TRUSTED

ID-Led development and transformation
User centric perspective
Standards driven solutions
Modular and reusable infrastructure



IDENTITY
ISSUANCE AND
VERIFICATION



CREDENTIALS
WALLET AND
AUTHENTICATOR



IDENTITY VERIFICATION,
LOGIN & CONSENTED
DATA SHARING



BENEFICIARY
MANAGEMENT AND
BENEFITS DELIVERY





THE MOSIP Ecosystem



Devices

Government Services

Government Databases

Partners/Relying Party

Authentication | eKYC | Digital | Print | e-Signet

Trust Network



THE MOSIP ECOSYSTEM

Devices



- Authentication devices play a vital role in EKYC.
 - Non personal secure authentication devices can authenticate anyone.
 - Ability to plug and play the device in e-signet.
 - Supports Iris & fingerprint.
 - Integration libraries are readily available.
-
- Best usage of these devices are in assisted situations & cyber cafe based usage.
 - Connectivity is a must for this solution to work
 - Protection levels of these devices are good and are recommended for Kiosk.
 - Ensure liveness detection to protect against fake/gummy fingerprints
-
- Based on secure biometric standard
 - Uses PKI to identify the device
 - Device providers are approved and managed in the Partner Management Portal
 - Ability to hotlist a device/provider



THE MOSIP ECOSYSTEM

Partners

- Any entity that is allowed to collect data from MOSIP is a partner/relying party.
- All partners are verified using PKI & onboarded in MOSIP PMS module.
- To seed data from MOSIP to other government systems can be achieved using this same solutions.

-
- Paper work of partners are expected to be out of MOSIP system.
 - Entities that need eKYC or authentication to onboard their users can use this service.
 - Partners are expected to buy or find business model to use the authentication devices.
-

Partners are trusted entities and are classified as:

- Authentication partners (yes/no)
- KYC partners (user information)
- MISP partners (regulatory bodies with control to policy)
- Print partners (digital/physical)





THE MOSIP ECOSYSTEM

Policy



- All data sent out of MOSIP is regulated using policy including MOSIP's own authentication layer.
- Regulatory bodies can manage their partners & control policy using MISP license.
- To seed data from MOSIP to other government systems can be achieved using this same solutions.

-
- Policy is a powerful way to control who gets what data.
 - Policy can be used to meet your regulatory data protection & privacy needs.
 - Transparent policies can help manage trust around users data.

Policies can be controlled for:

- Authentication partners (yes/no)
- Masked data (xxx-123)
- Pin encrypted data
- Merging multiple fields (fname + lname)
- Restricting biometrics
- Extracting/Converting biometrics
- Restricting fields to provide limited information like just Year in DOB.



PARTNERS & RELYING PARTIES

An Overview

01 PRINT PARTNERS

- These are relying parties that can be used to print or issue a digital wallet to store the credentials.
 - Some of the government database's can seed information from here.
- For example: Voters Database, Social benefit registries, Bank account mapping.
- User consent is obtained on registration/update.

02 REGULATED PARTNERS

- These are regulated entities in the country. Need not be just government organisations.
- Examples: Bank, telecom industries.
- Regulated and controlled using policies.

03 UNREGULATED RELYING PARTIES

- Restrict them to just Auth. This enables startup ecosystems to flourish with more trusted user base.
- Enables better and innovative service delivery with less risk of data leak.



KNOW YOUR CARD

Physical or Digital

Signed QR: Cryptographically signed. Free from fake or tampered card creation.

Photo: Machine-readable, tamper-evident photo. Helps in local face authentication.

Reading the open standard based QR code & authenticating the individual can be used as a mechanism to enable offline & user controlled access to his/her data.

Libraries available in MOSIP to read this QR and understand the data.

Risks: Service signup without users consent if face is not validated.

AUTHENTICATION AND eKYC in MOSIP Stack



MOSIP

- Authentication API
- Yes / No, KYC
- Selective Disclosure
- Partner specific policy
- Tokenisation support
- UIN/VID based auth
- Partner management
- Credential issue
- Print credential protocol



- Single sign on credentials
- User consented share
- Complete authentication on Inji wallet
- KYC and Selective Profile sharing
- Partner specific policy
- ClientID for partners



- Digitally signed credentials
- Offline sharing
- Selfie authentication
- Decentralised verification
- Decentralised KYC

PHYSICAL CARD

- ID for service enrolment
- ID for proof of delivery
- ID linkage for sectoral applications
- ID seeding for registries
- QR code presentation and consumption of ID

MOSIP USE CASES

Harnessing the power Digital ID

Sanjay Jain (Chairperson, Technology Committee, MOSIP)



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ENVISIONING A DIGITAL FUTURE

Interoperable
Inclusive
Trusted

Through:

- ID-led development and transformation
- User-centric perspective
- Standards-driven solutions
- Modular and reusable infrastructure



IDENTITY
ISSUANCE AND
VERIFICATION



CREDENTIALS
WALLET AND
AUTHENTICATOR



IDENTITY VERIFICATION,
LOGIN & CONSENTED
DATA SHARING



BENEFICIARY
MANAGEMENT AND
BENEFITS DELIVERY

PUTTING ID TO USE

ID is what it enables

- ID led development and transformation
- User centric perspective
- Standards driven solutions
- Modular and reusable infrastructure



A BORDERLESS ECONOMY: Social mobility | Easy cross-border commerce | Global transformation

FINANCIAL INCLUSION

Banking the unbanked | Credit Access

SOCIAL REGISTRIES

Benefits Registries | Employment Registries

HEALTHCARE DELIVERY

Targeted vaccination | Childbirth | Medical Records

EMERGENCY RELIEF

Pandemics | Natural Disasters

DEPARTMENTAL IDS

Taxes | Organisation Registries | Driving License et al.

CIVIL REGISTRIES

Birth & Death Registry | Family Registry | Marriage

BENEFITS DELIVERY

Direct benefit transfer | Unemployment
Cash or Kind Subsidies | Schemes

PRIVATE SECTOR

Banking, Insurance et al | Digital Payments
Service Delivery

ADDRESSING Most Common Needs

01 IDENTITY USE CASES

- ID Proof
- KYC
- Proof of life and presence assurance
- Online, offline and decentralized identity verification

02 SERVICE DELIVERY USE CASES

- Single sign on credentials
- Link ID to sectoral applications - Health, Education, Agriculture
- Link ID to key registries - SPR, Voter, Tax
- Enable private sector usage

03 BENEFITS DELIVERY USE CASES

- Beneficiary enrolment to schemes
- Payments
- Proof of delivery for other benefits
Food, Clothes, Medicine



IDENTITY
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CREDENTIALS
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IDENTITY VERIFICATION,
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BENEFICIARY
MANAGEMENT AND
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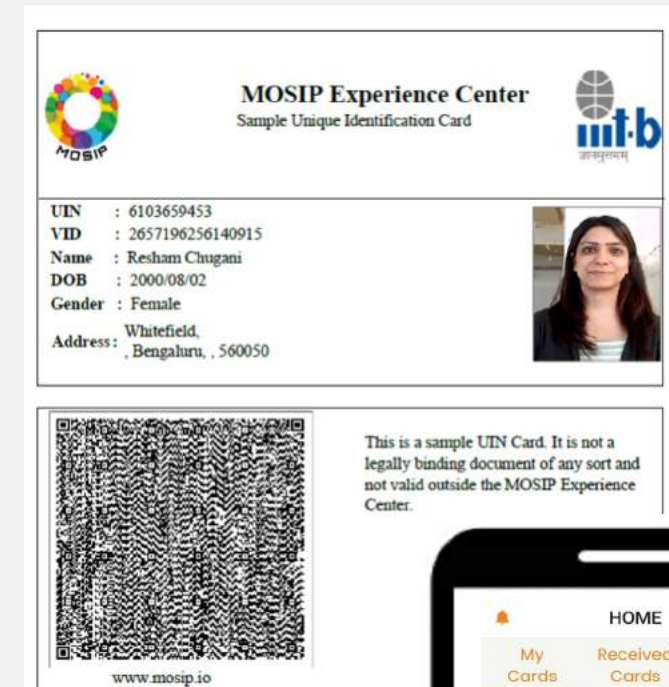
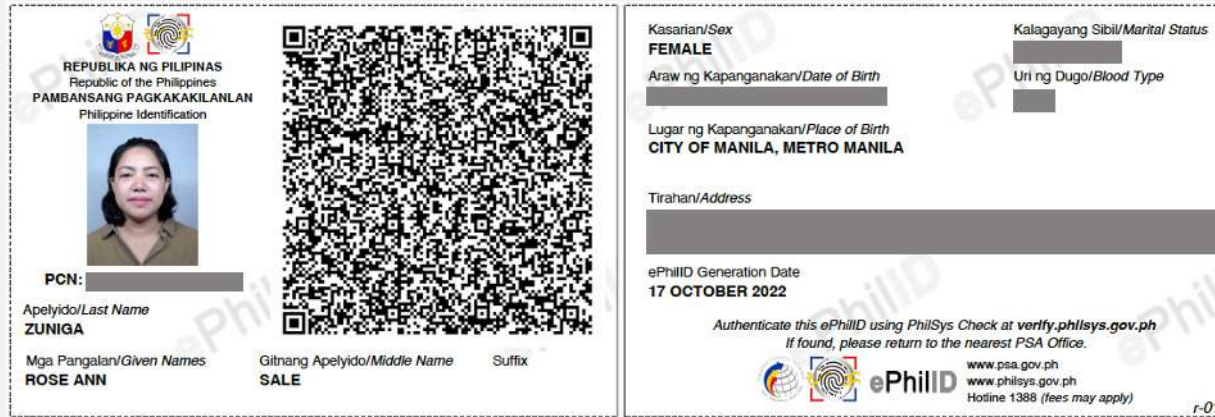
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ID PROOF

Resham Chugani
Product Manager, MOSIP

TYPES OF CREDENTIALS

PHYSICAL: Paper

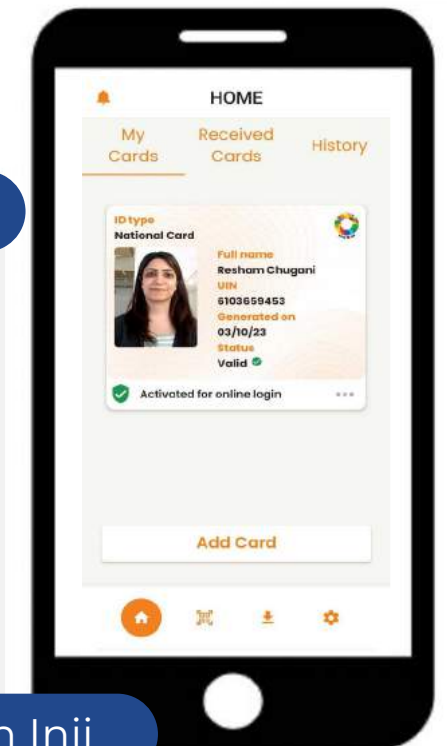


DIGITAL: QR (PDF)

PHYSICAL: PVC Card



DIGITAL: VC on Inji





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PROOF OF LIFE & PRESENCE ASSURANCE

Resham Chugani
Product Manager, MOSIP



PROOF OF LIFE and presence assurance

BIOMETRIC AUTHENTICATION

- 01 Liveness detection
- 02 Transactional context bound
- 03 Timestamped





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ID VERIFICATION MODES

Resham Chugani
Product Manager, MOSIP



ID VERIFICATION modes



- 01 Online API
- 02 Online IDP Service
- 03 QR Code offline/online
- 04 Decentralised biometric authentication:
 - Selfie
 - 3rd Party Verification



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INTEGRATION WITH INJI

Monobikash Das
Technical Architect, MOSIP



INJI

A secure, trusted and inclusive mobile wallet & authenticator, that can be used by residents to **securely download, store** and **share Verifiable Credentials**

01. Residents:

Generate Verifiable Credential (VC) by either using a UIN or a VID

02. Relying Parties:

Receive VC and **verify** residents, to provide services, through peer-to-peer sharing mechanism

03. QR code scanning & **Offline** face authentication

04. BLE sharing protocol

05. e-Signet integration to access digital services

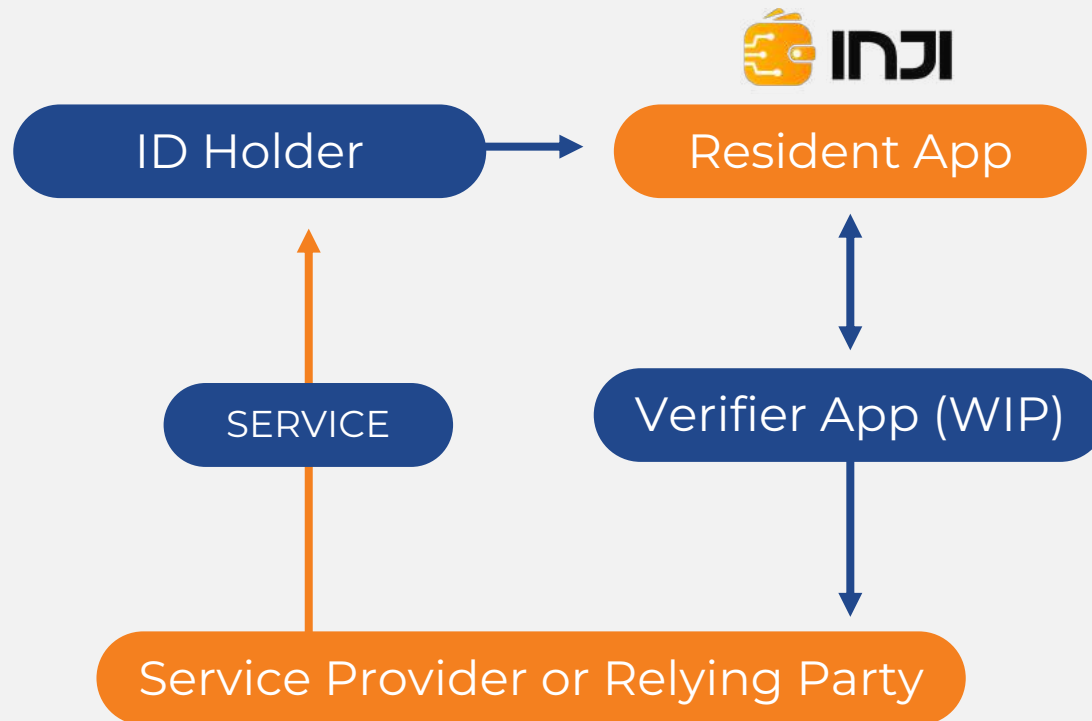
06. Upcoming:

USSD Support, OpenID standard – issuance, OWF architecture





CREDENTIAL SHARING and Authentication Process





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E-KYC

Anusha Sunkada

Technical Architect, MOSIP



TYPES OF ID AUTHENTICATION

And the authentication process

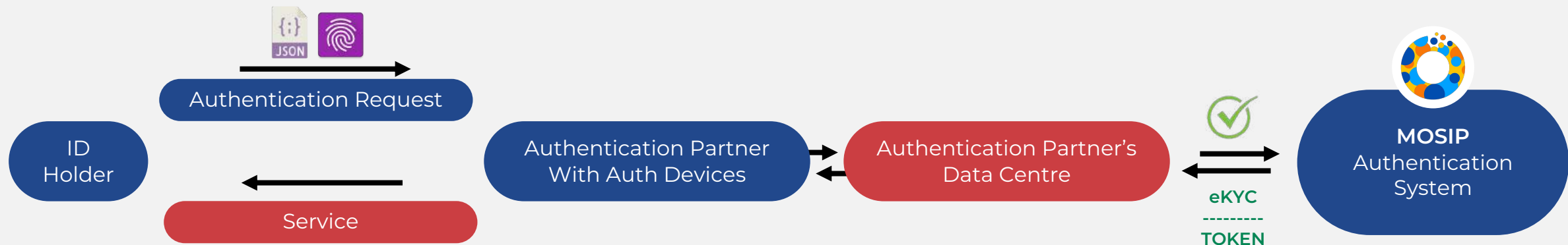
Authentication using multiple modalities like biometrics, OTP and demographics

e-KYC based authentication to share selective non-biometrics attributes

Policy driven selective sharing of digitally signed and encrypted data

Tokenisation: Partner Specific User Token, Policy Driven User Token and Random Tokens

AUTHENTICATION PROCESS





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ONE ID

Vishwanath V

Technical Architect, MOSIP



e-SIGNET

A simple yet **powerful mechanism** for end users to **identify** themselves, to **avail online services**, and **share** profile information



- 01** Login with **trusted ID**
- 02** Support for **multiple authentication factors**
- 03** **Friction less** inclusion of new authentication factors
- 04** **Easy** integration with relying parties
- 05** Collection of **user consent**
- 06** **Avoids** unwanted profiling
- 07** Provides **multiple assurance levels**
- 08** Integration with **Digital Wallets**



LOGIN WITH MOSIP ON Beneficiary/Health/Pension/Any Service-Based Portal

RELYING PARTY

Demo health portal

VERIFICATION ADD-ONS



IDENTITY ISSUER



The screenshot shows the 'Health Portal' login page. At the top, there's a navigation bar with links: Home, Polices, Registration, Gov Circulars, Recruitment, About Us, and Contact Us. The main heading is 'Sign In to the Health portal'. Below this, there are input fields for 'Username' and 'Password', followed by a 'SUBMIT' button. A link 'OR' is present, and below it, a 'Sign In with e-Signet' button with the Signet logo. At the bottom, there's a link: 'Don't have an existing account? Sign Up here'. On the left side of the page, there's a large illustration of a doctor in a white coat and mask. Below the illustration, there are three boxes showing statistics: 'Confirmed 39,67,888', 'Active 5,000', and 'Recovered 39,67,888'.

Confirmed	Active	Recovered
39,67,888	5,000	39,67,888



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Enabling Public and Private Sector Usage

Rounak Nayak

Product Manager, MOSIP



PUBLIC SECTOR

Usage

AGRICULTURAL SUBSIDIES

- Fertiliser
- Farm Equipment
- Seeds
- Farmer Education

EMERGENCY RELIEF SUBSIDIES

- Flood
- Fire
- Quake
- Pandemic

SOCIAL BENEFITS

- Old-Age Schemes
- Pregnancy & Child Development
- Education Allowance
- Employment

PRIVATE SECTOR

Usage

FINANCIAL INSTITUTIONS

- Retail Banking
- Mobile Money
- Insurance

OTHER INSTITUTIONS

- Airports
- Telecom
- Cab Services
- Hospitality
- Healthcare
- Education



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Linking & Seeding to Other Registries

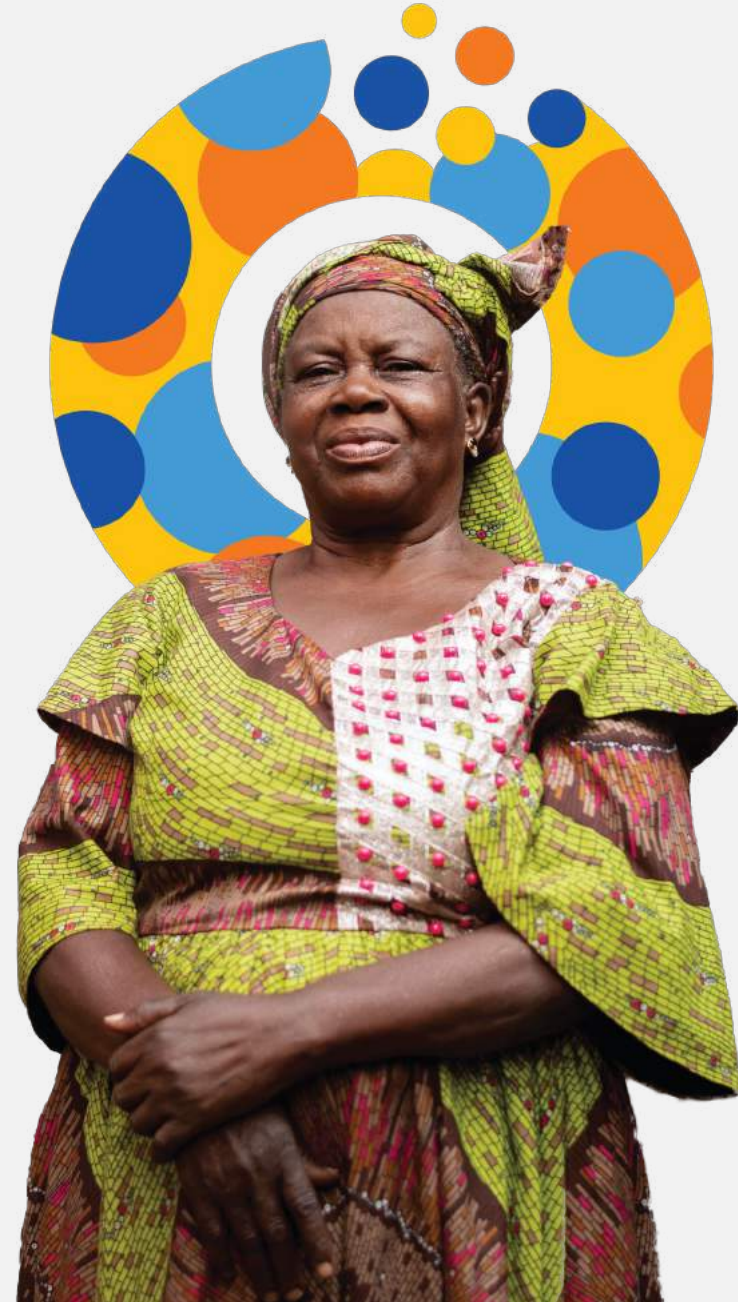
Rounak Nayak

Product Manager, MOSIP



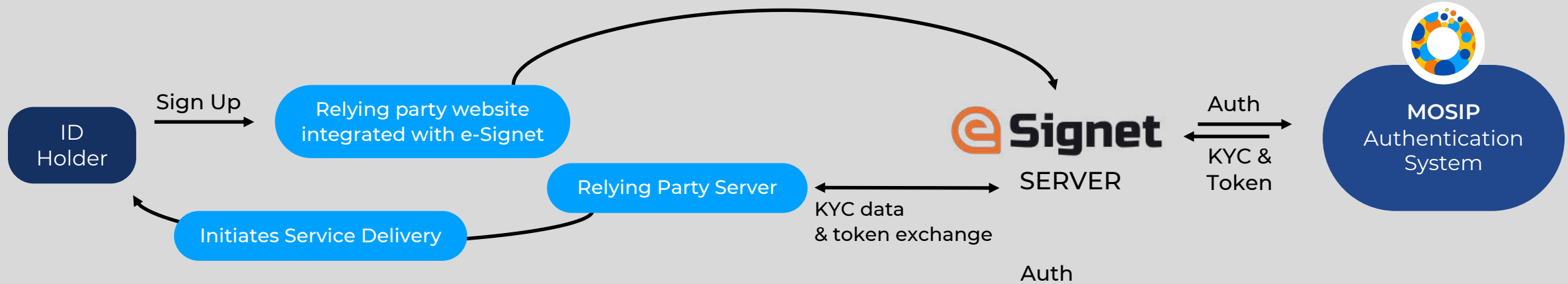
REGISTRIES

- 01** Social Protection Registry
- 02** Voter Registry
- 03** Family Registry
- 04** Passport
- 05** Driving Licence
- 06** Vaccination Database

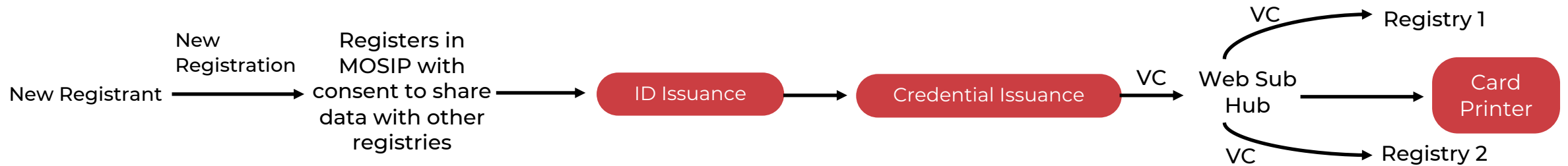




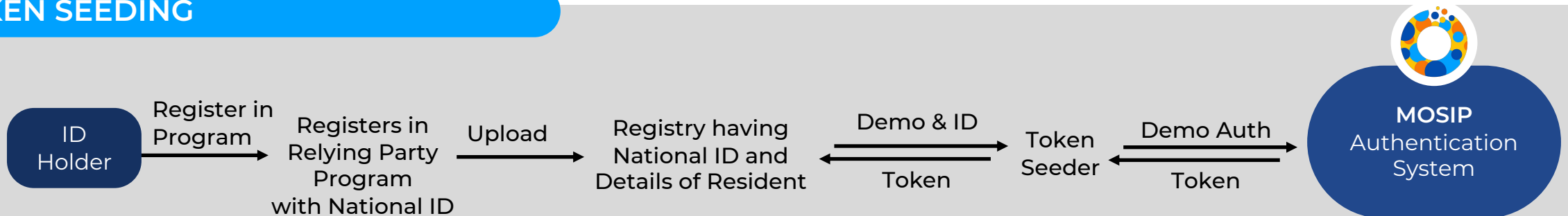
SIGN-UP FOR SERVICE WITH E-SIGNET



SEEDING DURING REGISTRATION



TOKEN SEEDING





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OpenG2P

Puneet Joshi
CTO, OpenG2P

INTRODUCING OpenG2P

- 01 Beneficiary Registration
- 02 Program Enrolment
- 03 Payments
- 04 Proof of Delivery



Social Benefits Delivery

from Government to Person

OpenG2P was set up with the vision to accelerate:

- Social Protection
- Financial Inclusion
- Digital Development



OpenG2P

What is it and what does it offer?

- OpenG2P is an **open-source** benefits registry and delivery platform
- A platform that delivers benefits from **Government to Person**
- Allows the **digitising** and **automating** of processes
- Enables **inclusive** and **efficient delivery of benefits**
- Is an important component of a country's **digital public infrastructure**
- Supported by not-for-profit organisations

iD PASS

GSMA™



MOSIP



Digital
Public
Goods
Alliance



INJI

eSignet

odoo



mojaloop
foundation

Mifos 

ECOSYSTEM

Open
G2P

Guiding Principles

OpenG2P is...



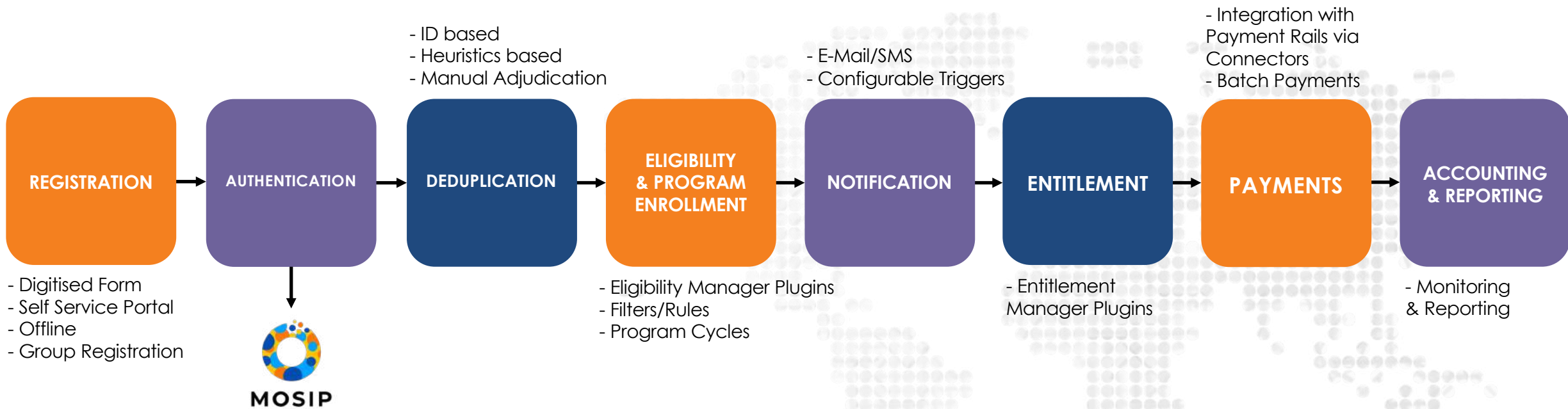
VERSATILE by developing technology that is interoperable

TRANSPARENT by being open-source, vendor neutral, and open to community contributions and feedback

INCLUSIVE through human-centric design that leaves no one behind

SUSTAINABLE by being cost- and time-efficient and cognisant of existing efforts

The Social Protection Delivery Chain



OpenG2P and MOSIP

Points of Integration

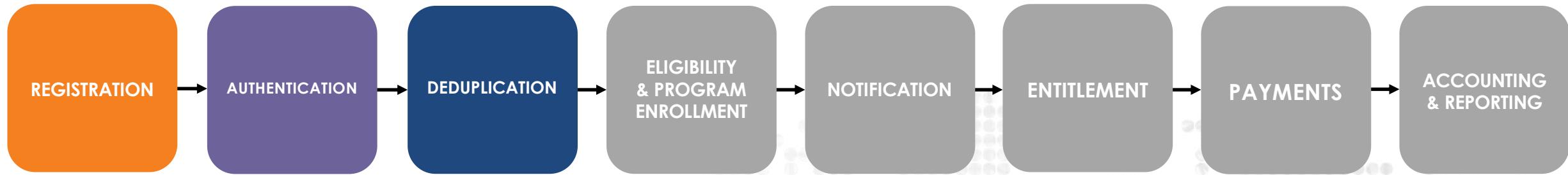


INTEROPERABLE & INCLUSIVE

- **Beneficiary registration** and **offline authentication** of digital signature
- **Deduplication**
- **Authentication** during delivery of service
- **“Login with MOSIP”** on OpenG2P beneficiary portal

Offline Registration

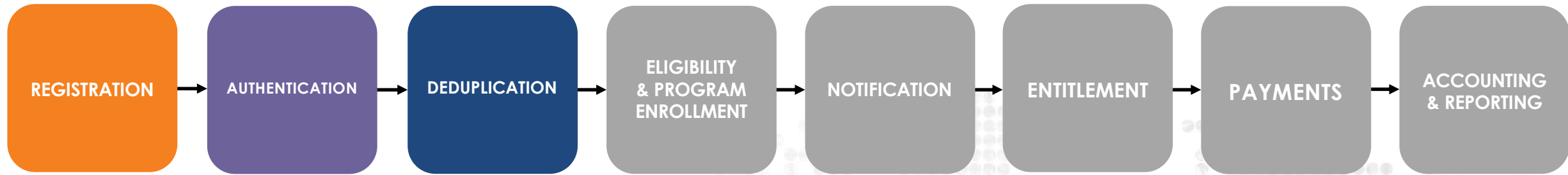
Assisted registration using tablet



- Digitised form
- Individual & Group registration
- During registration: QR code scanning with offline authentication using **MOSIP ID**
- Registry
 - Online authentication (with tokenisation in the backend) using MOSIP ID
 - Deduplication: ID based, Heuristics based
 - Manual Adjudication

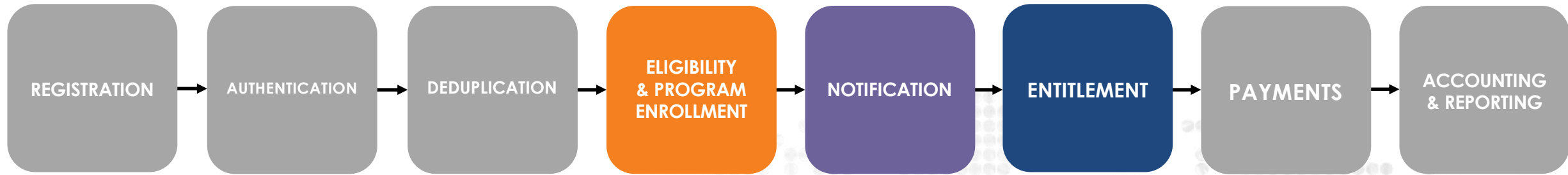
Online Registration

Registration of registrant through Beneficiary Portal



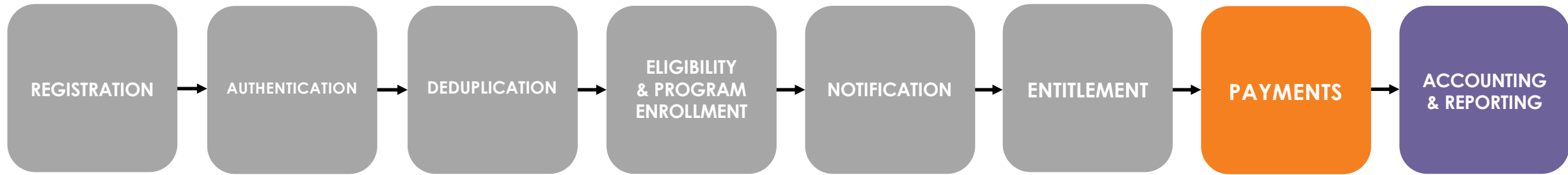
- **Self registration** on beneficiary portal
- Login using e-Signet - MOSIP ID
- Online authentication with tokenisation
- Apply for programs & track status

Program Enrolment



- Eligibility manager plugins
- Filters/Rules
- Program cycles
- Notifications
 - E-Mail/SMS
 - Configurable triggers

Payment Disbursement & Proof of Delivery



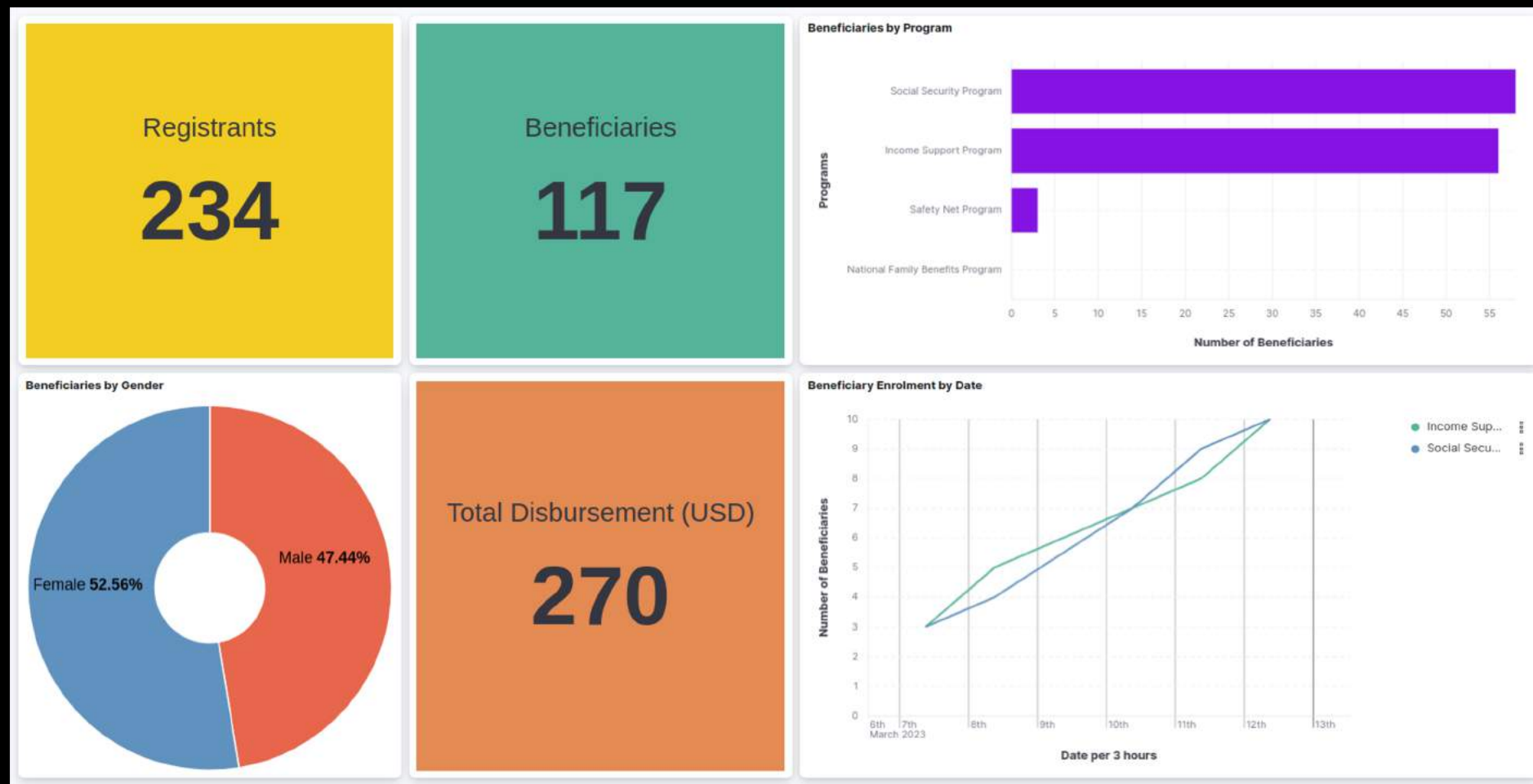
- Integration with payment rails via connectors
- Batch payments
- Authentication at point of delivery using MOSIP ID
- Basic monitoring & reporting

Cash Transfer

Reference Integration via Mojaloop



Reporting Dashboard



OpenG2P

Roadmap

- 01** Self service portal
- 02** Proof of delivery
- 03** Benefits delivery in kind
- 04** Voucher based benefits delivery
- 05** Grievance Redress Mechanism (GRM)

Coordinates

For more about OpenG2P:

Website | openg2p.org

Code | github.com/openg2p

Documentation | docs.openg2p.org

THE MOSIP Roadmap

Ramesh Narayanan (CTO, MOSIP)

Prof S Rajagopalan (President, MOSIP)



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IDENTITY VERIFICATION,
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BENEFICIARY
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Principle-Driven Development



01 USER CENTRIC

- Inclusion
- Access
- Privacy

02 MANAGEABLE

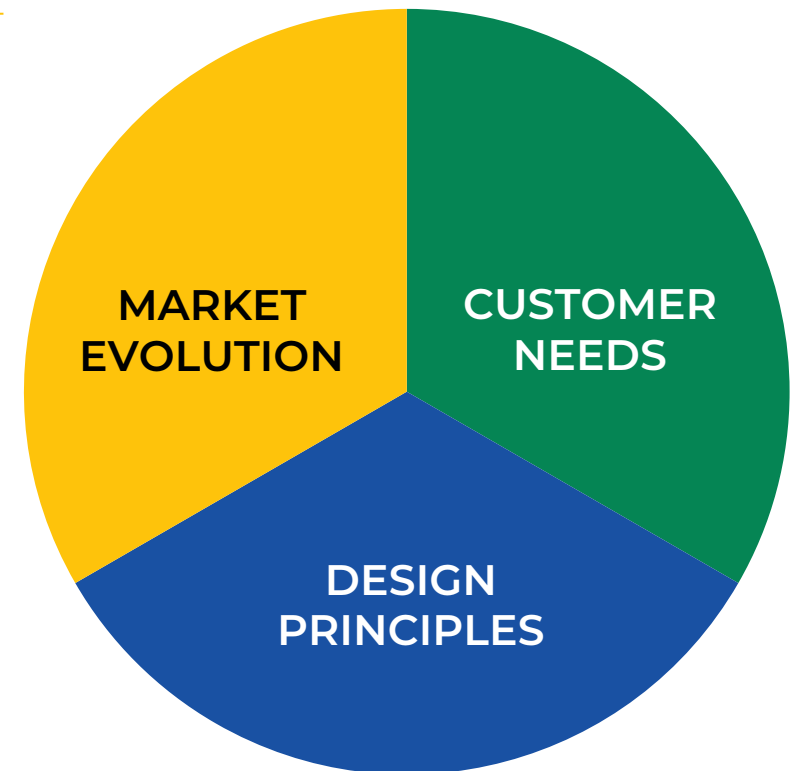
- Secure
- Observable
- Scalable

03 STANDARDS-BASED

- Choice
- Interoperability
- Evolvable

04 SUSTAINABLE

- Open Source
- Commodity
- Reusable



PLATFORM ROADMAP (2023 & 2024)



ON THE LTS RELEASE:

- Resident Portal
- Android Registration Client
- Realtime ID Issuance
- Enhanced Identifier Support
- More Automation in testing and deployment
- Functional, security & performance fixes



- Token APIs in OIDC
- Consent registry and management
- Verifiable Credentials issuance
- Multi-Issuer support
- JS Client
- WebAuthN support



- e-Signet based VC issuance flow
- Verifier library and application
- Security framework
- e-Sign support
- Documents support
- Cloud wallet with USSD client



- Self service portal
- Proof of delivery
- Benefits delivery in kind
- Voucher based benefits delivery
- Grievance Redress Mechanism (GRM)

PLATFORM ROADMAP (2023 & 2024)



RESEARCH

Applying quantum ready cryptography

Use of synthetic data for testing, analysis and benchmarking

Usage of voice biometrics

Trust networks

Quality of biometrics

STANDARDS

Biometrics standards for devices, SDK, ABIS

Standards for issuing credentials, wallet onboarding, sharing and querying

Standardised QR codes

Global ID standards for KYC and other cases

CAPACITY

Internship programmes

Joint academic projects

Courses on digital transformation

Digital Experience Centres at other locations

MOSIP STACK

OpenG2P Phase II

OpenCRVS Phase II

GovStack, G2PConnect, DCI readiness for interoperability

Payments and Data share integrations

WHAT COUNTRIES CAN Achieve Together

Ramesh Narayanan (CTO, MOSIP)

Prof S Rajagopalan (President, MOSIP)



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JOINT INITIATIVES For Sustainable Progress

01 Leverage respective efforts for common progress

02 Promote interoperability through open standards

03 Improve usage through harmonisation of processes and policies

04 Exchange know-how to improve capacity



PROPOSED initiatives



02



01

Common standards for biometric systems

- IEEE P3167 for devices
- New standards for SDK and ABIS

Global usage of ID: Issue once & use everywhere

- Assurance process on trustworthiness of ID
- Shared schemas for common use such as KYC, Travel, ID Proof, Proof of Residence
- Managing access to relying parties



PROPOSED initiatives



Biometric Benchmarking

- Evaluate, learn and make suitable choices
- Improve effectiveness through refinement and new innovations

Procurement Framework

- Define common criteria for systems and hardware
- Define playbooks for support, integration, and upgrades



MOSIP

Thank You!

Homepage: www.mosip.io

Source Code: <https://github.com/mosip>

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