



OpenG2P

**A digital public good for digitizing
large scale cash transfer programs**

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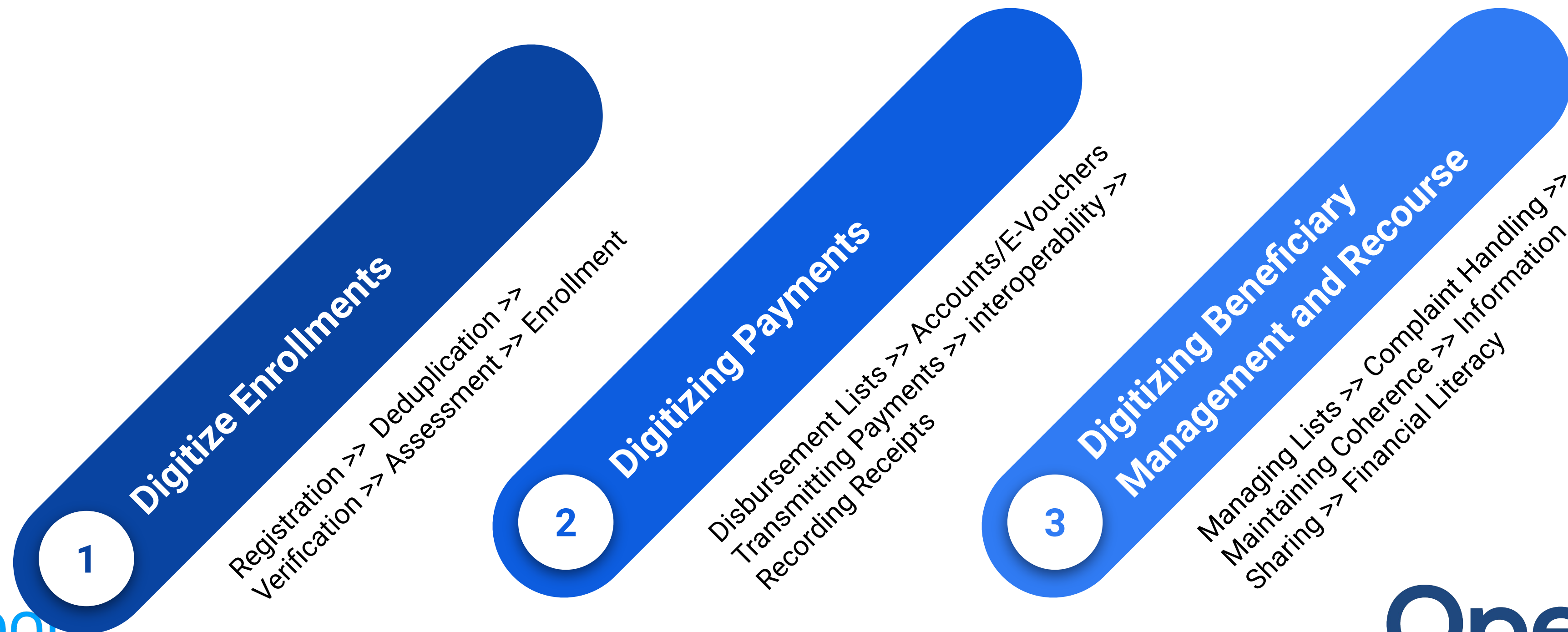
Ed Cable - edcable@mifos.org

Key Objectives

- Building from Crisis to Crisis – How OpenG2P Started
- What is OpenG2P
- Live Conversations – Pakistan, Sierra Leone, Sudan
- Support from the community

Open G2P - Building from Crisis to Crisis

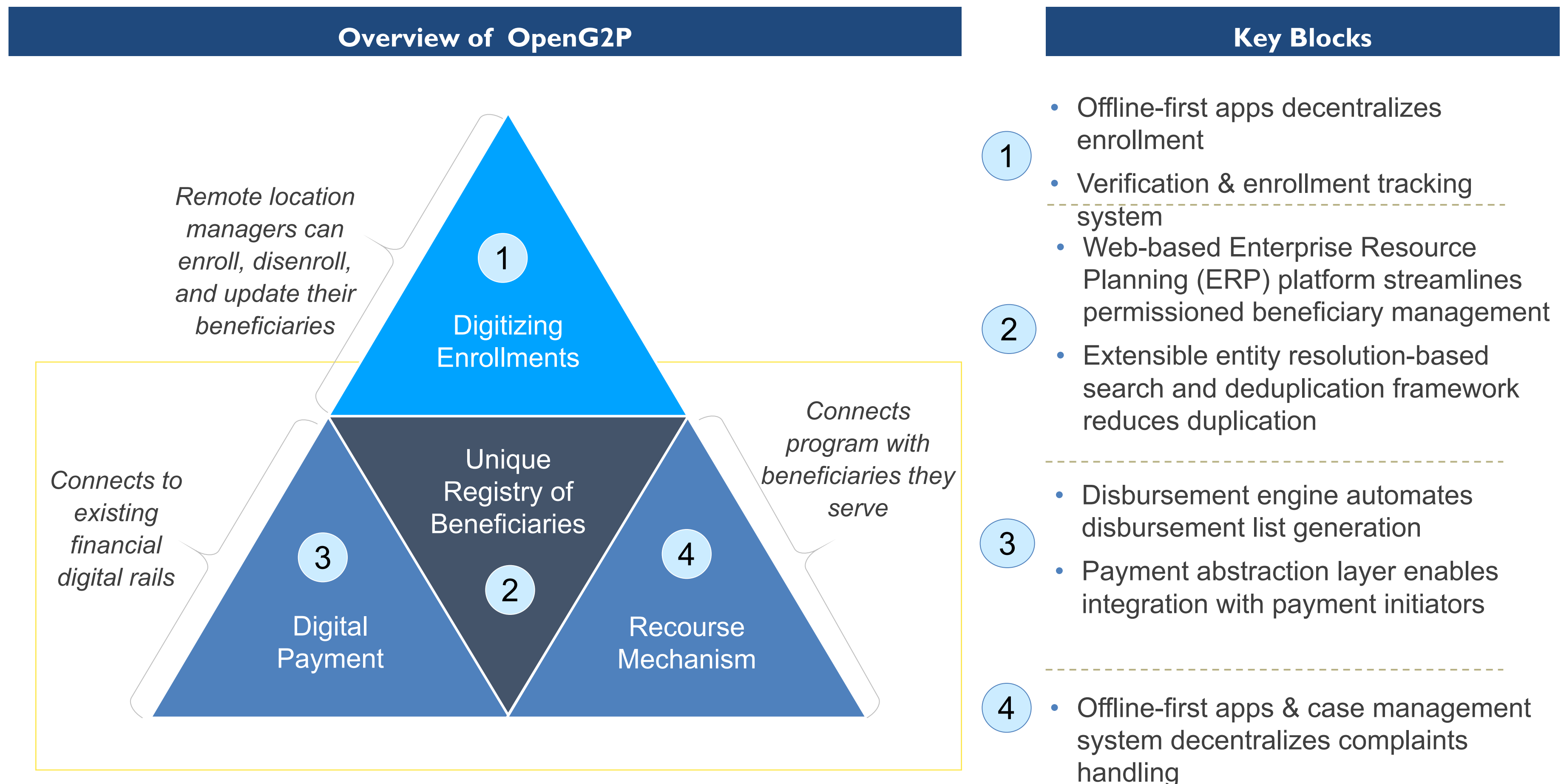
- **Origin:** Originated from iDT Labs and Government of Sierra Leone when they saved more than \$10M digitizing payments to 30,000 health workers during Ebola crisis
- Addresses **common challenges** in effectively digitizing government to persons & large-scale social protection transfers.



The OpenG2P Framework

A Confluence for Digitization of Cash Transfer Efforts

OpenG2P aims to provide a confluence of opensource solutions to effectively digitize cash transfer programs. It is a set of digital building blocks helping SPs digitize key processes & address gaps in their cash transfer delivery chain of 1) registration, 2) assessment of eligibility, 3) enrolment for benefits, 4) payment of benefits, 5) keeping systems up-to-date; and, 6) appeals and complaints



Builds on Existing Cash Transfer Systems

OpenG2P is a set of open source solutions that programs can use to harmonize across countries and plug into local disbursement ecosystems

Mobile Tools

Mobile-based solutions to enrolling, complaint handling, & beneficiary management in resource-challenged rural & perimeters

Deduplication Engine

Extensible entity resolution framework for deduplicating and finding/matching beneficiaries usually lacking unique identities

Verification Service

Abstraction layer and tools for connecting to identity sources, e.g. civil registry, & verifying beneficiary identity against

Disbursement Engine

Abstraction layer and tooling for integrating with the financial system through existing payment rails and payment initiators

E-Voucher Service

Solution for serving beneficiaries outside the reach of the formal financial sector or running conditional cash transfers

Proof of Receipt Service

Solutions to irrefutable proof of receipt, asserting recipient's uniqueness, & running "non-preassembled list" transfers

Open G2P ERP

A ERP, built on the Odoo ERP, for managing programs, enrollment, beneficiary data, disbursements, complaints, and more

Discovery Specification

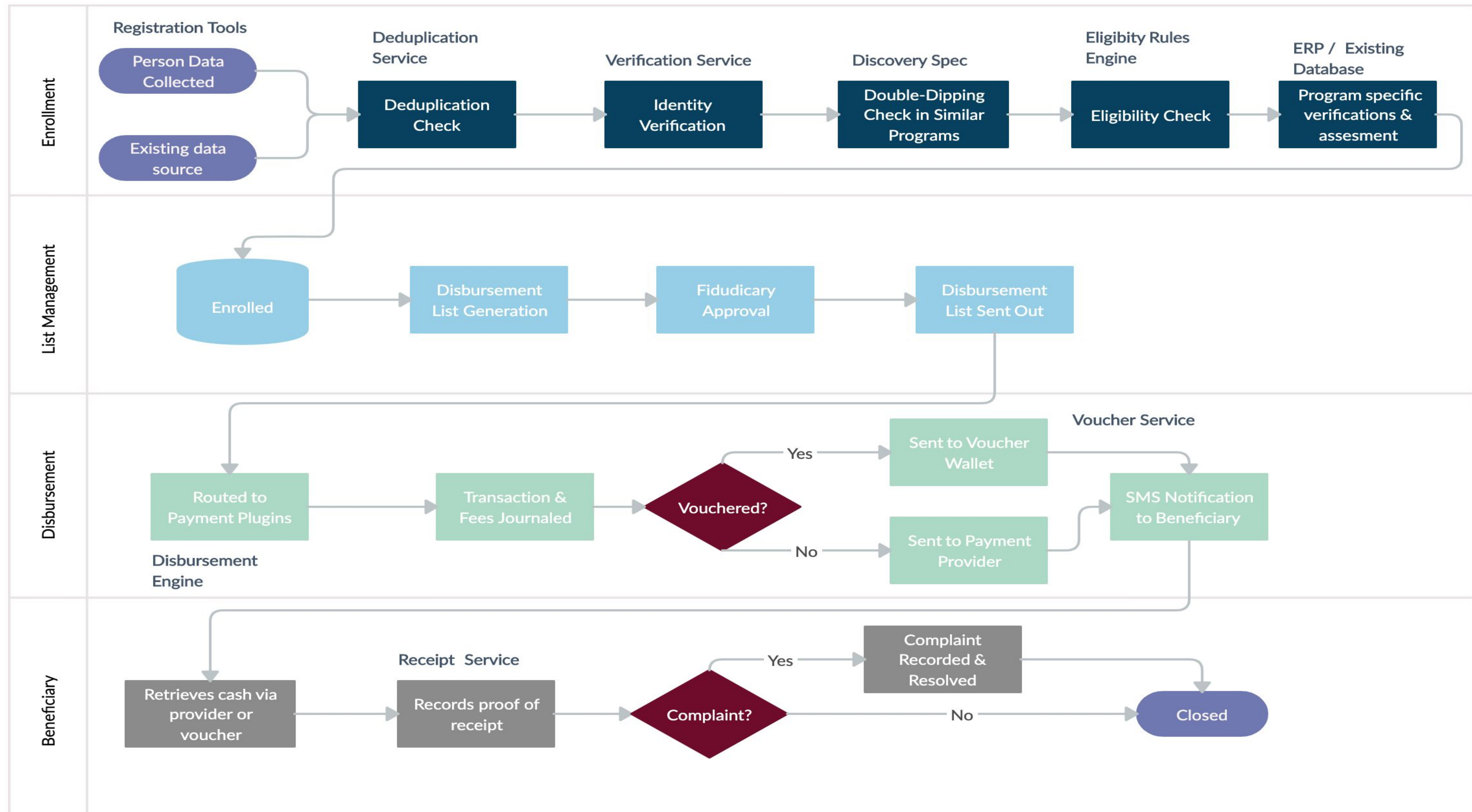
Open specification for information sharing among independent programs serving similar demographic

OpenG2P Toolbox

A collection of tools and scripts for deploying, running production instances, and migrating data to OpenG2P

The OpenG2P Framework

Blocks can be Used Independently or as an End-to-End Solution



Open G2P - Framework, Community & Deployment



Our Guiding Ideals - UN Digital Public Good

It's a work in progress, but these guide us

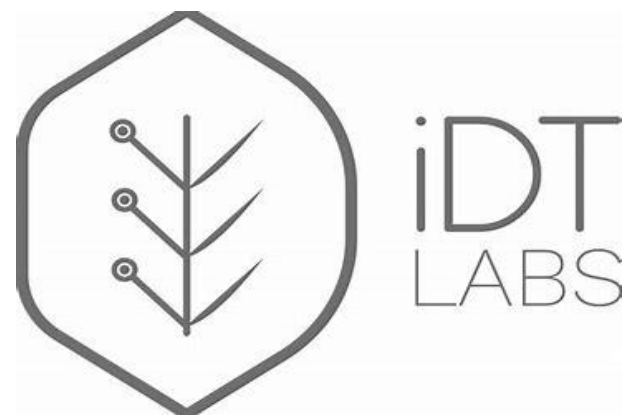
- **Open Source Connector** - OpenG2P is designed and built to be the connective tissue amongst other systems like Mifos/Fineract, Mojaloop, and MOSIP.
- **Agnostic** - provide the “glue” between different core components and remain agnostic and “vendor neutral”.
- **Open Source First** - always include an open source version of the components.
- **Identification** - implement solutions consistent with ID4D principles but provide options for functional identification as long as protective of consumer privacy, user rights and provide sufficient functionality for deduplication and verifying people as unique recipients
- **Sustainability** - be low cost, open source for reference, and additive to existing efforts.
- **Gender Intentional** - promote women's financial empowerment in the development of the solutions and in execution.
- **Community Engagement** - enable a toolkit or lab approach such that others can evaluate the solutions and to encourage agile and iterative software development, and take on feedback and ideas
- **Prioritize Urgent Needs** - design with the urgency of this moment for both COVID-19 physical distancing and economic crisis in many countries,

Principals Leading the OpenG2P Framework

Engaging with the Community for the Building Blocks



Government
of Sierra Leone



Key Architects



Moinina David Sengeh



Salton Arthur Massally

Become a partner or contributor

Contribute to code and solving issues on [GitHub](#).

Help build excellent documentation and guides for programs wanting to adopt [OpenG2P](#).

Assist with identifying and definition common problems and constraints along the cash transfer delivery chain, mapping and validating conceptual solutions to these.

We always welcome strategic partnerships that can grow the community or provide linkages with real world problems.

5 Minutes for a Demo

Beneficiaries

Beneficiaries

Alerts

Locations

Configuration

2

5

Salton Massally

Beneficiaries / Saltons Arthur Massally (97050072)

Edit

Action

9 / 10

<

>


0 Documents

1 Programs

4 Slips

Active

3 / 3 Tickets



Saltons Massally

97050072

Active Programs

Location

Address

COVID Responders Compensations

Makeni Govt Hospital

5 Foday Drive

Hill Station

Freetown Freetown (SL) 85340

Sierra Leone

Other Names

Primary Phone

Secondary Phone

Email

Tags

Arthur

(623)-853-7197

smassally@@example.com

Health Officials

Volunteers

Personal Information

Identities

Relatives

Internal Info

Identifications

National ID

Social Security #

Passport No

756589484

98553

Social

Title

Gender

Marital Status

Male

Married

mojaloop
foundation

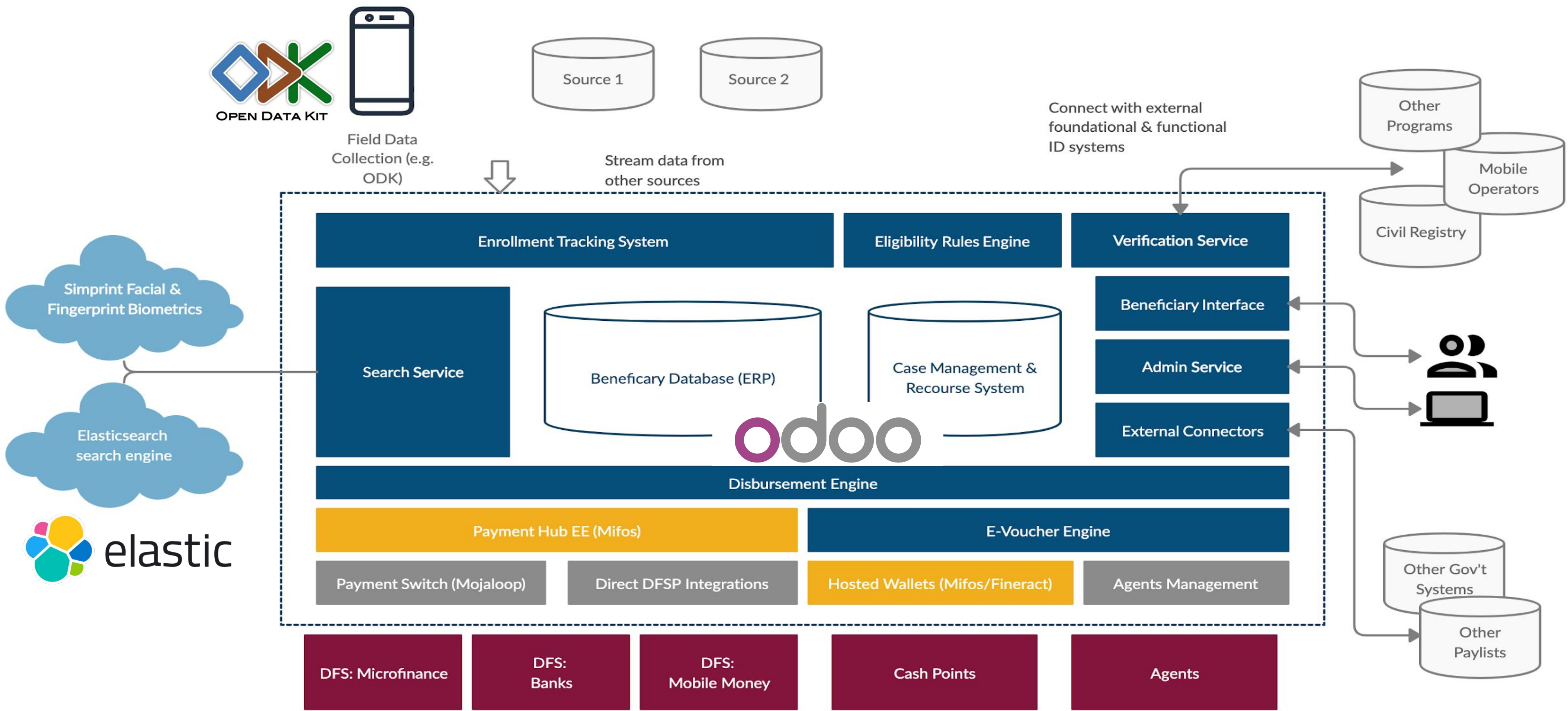
OpenG2P 10

OpenG2P High Level Architecture

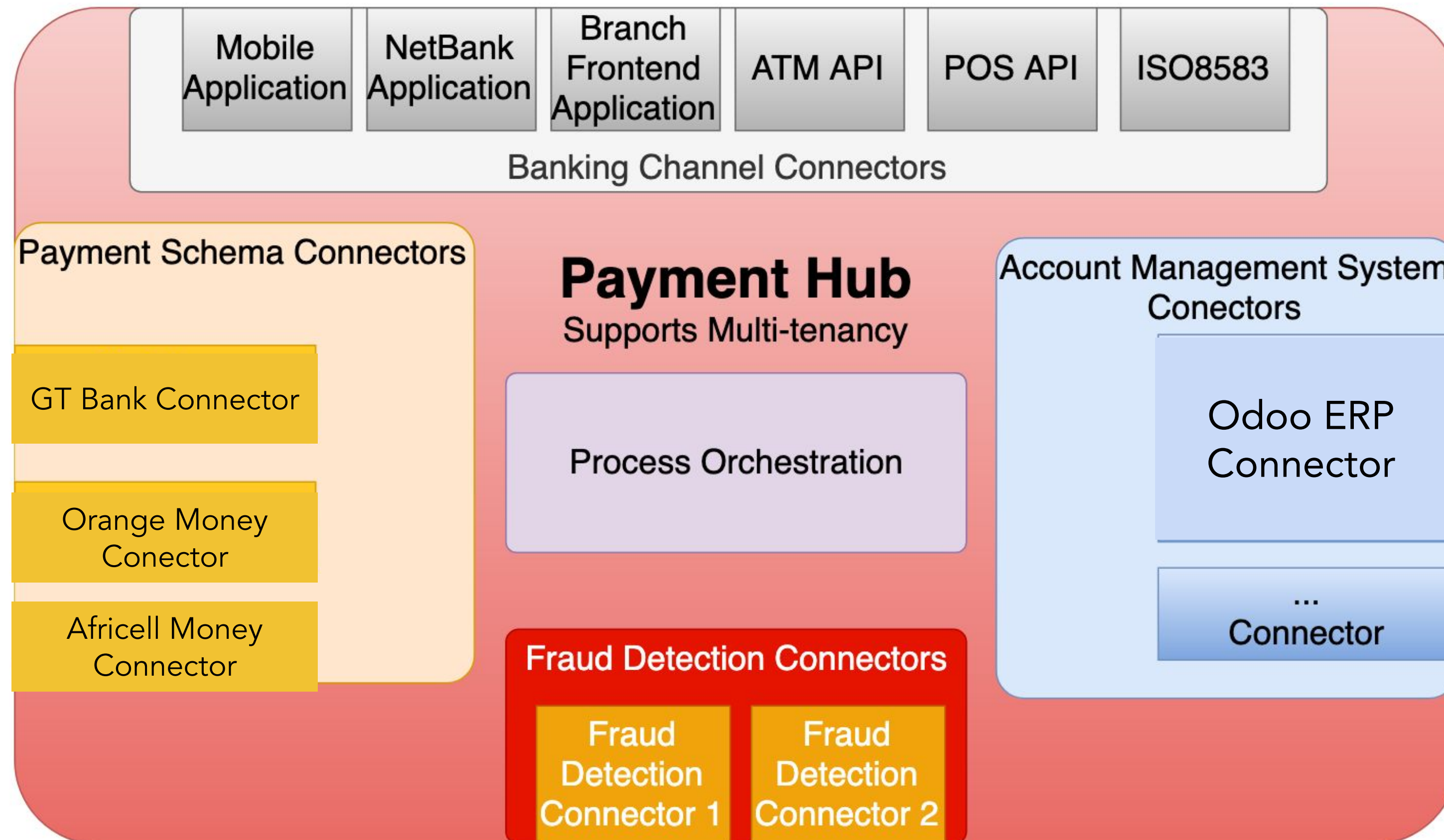
Deployment in Sierra Leone



Government
of Sierra Leone



Payment Hub EE





mojaloop

Identity

Foundation &
Functional ID



Accounts

Accounts, Wallets &
Store of Value



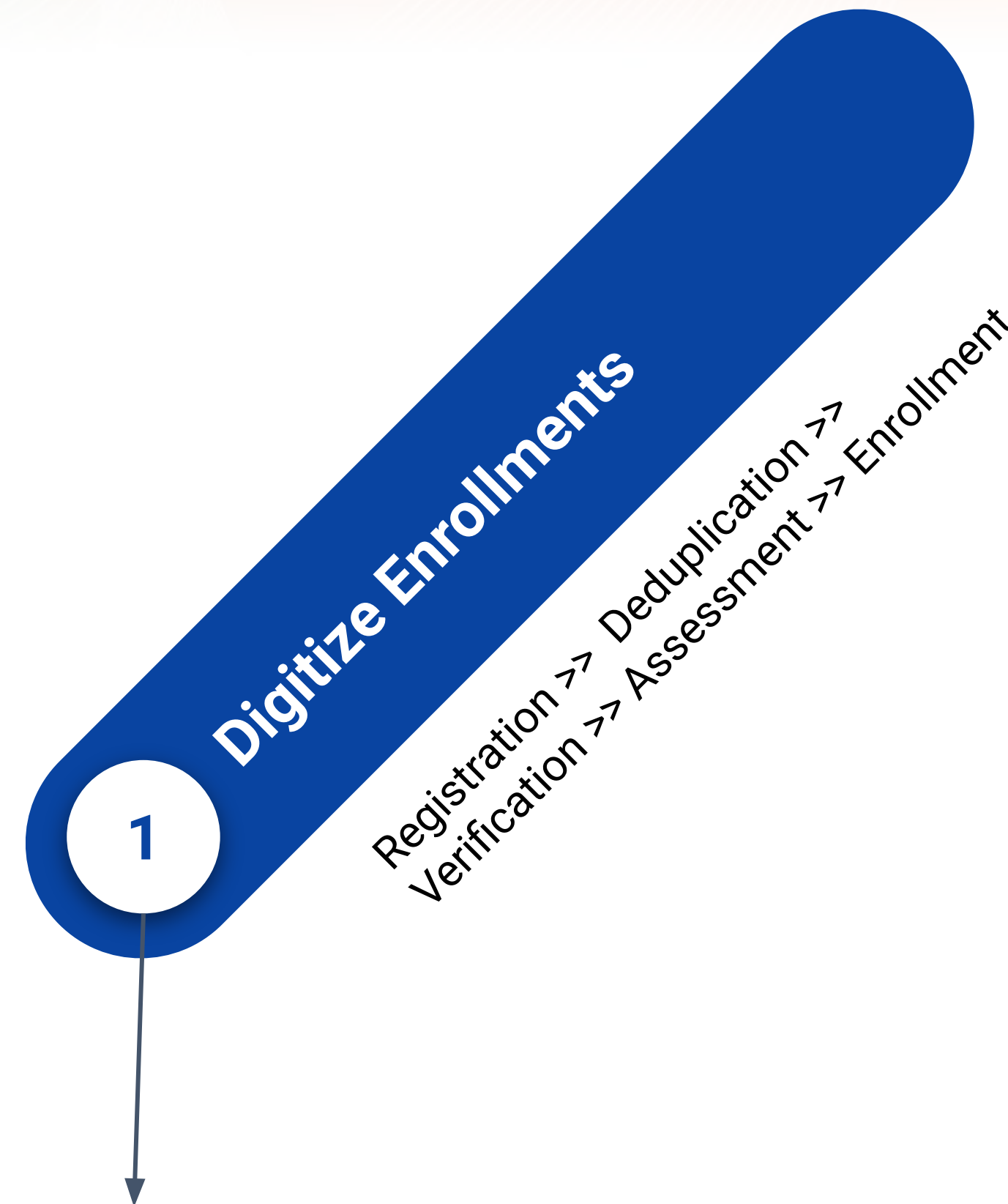
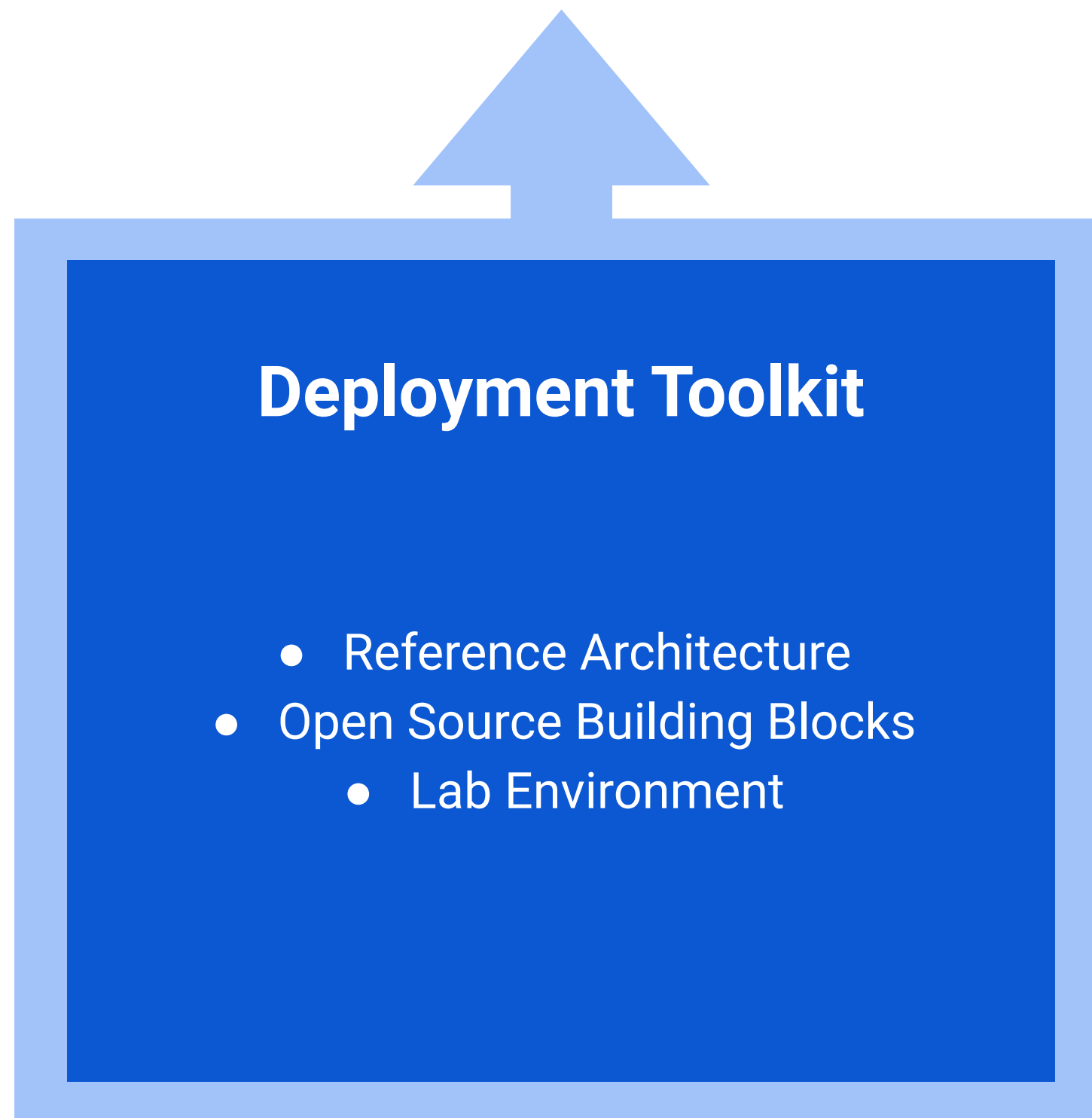
Payments

Interoperable
Payments

Transfer System

Open G2P

Roadmap alignment



- Integrate MOSIP into Mlfos Mojaloop Lab Environment



- Bulk Payment Pre-Processing
 - ISO 20022 Connector

Live Deployment Discussions

- Sudan
- Pakistan
- Sierra Leone
-
- Mexico

Key Lessons So Far:

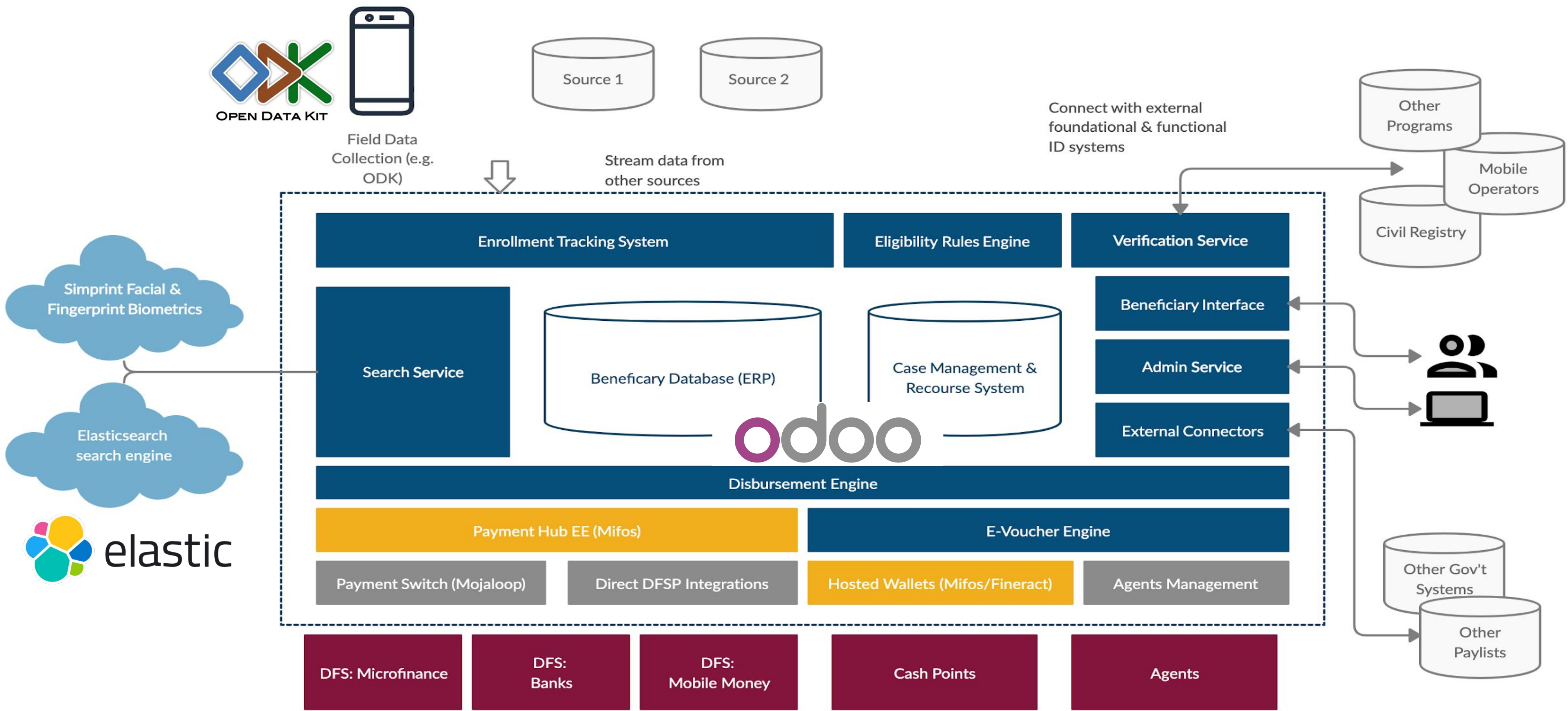
1. Governments need help to participate actively in the design of the RFA/procurement for open source frameworks
2. Advocates for OpenG2P need to be vendor-neutral and function on principals.

OpenG2P High Level Architecture

Deployment in Sierra Leone



Government
of Sierra Leone



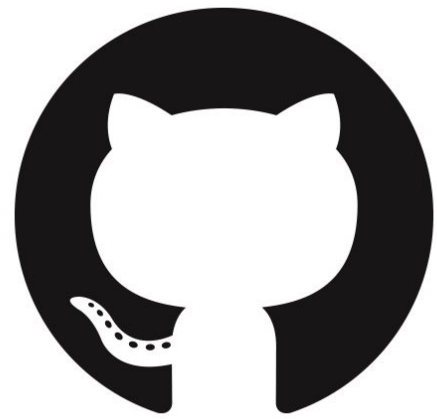
Seeking Contributions from the Community

➤ Builders:

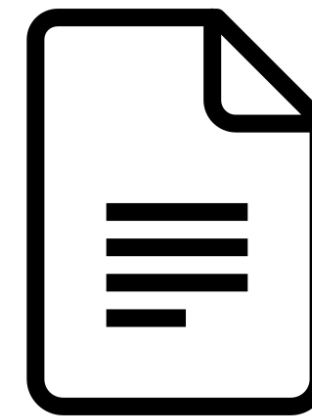
- Build out additional modules, build additional connectors, document APIs, work on reference integrations with Mojaloop, MOSIP, write documentation, etc.
- Could address other items on roadmap that we want to address during other reference implementations, integration between Mifos as store of value and Odoo as database/ERP, additional recourse and redress mechanisms. Implementation of Mojaloop as microswitch to handle interoperability, bulk-payment pre-processing as part of Payment Hub EE as disbursement engine.

- ## ➤ Seeking financial supporters:
- Paul Maritz made initial token contribution of US\$ 50K for reference deployments, eager to get other backers so we can move from voluntary mode to invest more in the reference implementation

Take Action



<https://github.com/openg2p>



<https://docs.openg2p.org>



<http://demo.openg2p.org>
(admin | admin)



<https://www.linkedin.com/company/openg2p/>



<https://.openg2p.org>