



GovStack

MOSIP as Identity Building Block Specification Implementation in GovStack Sandbox



REPUBLIC OF ESTONIA
MINISTRY OF FOREIGN AFFAIRS



Bundesministerium für
wirtschaftliche Zusammenarbeit
und Entwicklung



digital
impact
alliance

GovStack



**Sandbox Product
Owner**

Delegated by GIZ



**Workgroup Lead
Identity Building Block**

Delegated by ID30

Who we are

GovStack is a multistakeholder initiative, focused on accelerating e-government transformation worldwide, and drawing on expertise from contributors across private sector, civil society, and governments.

The initiative was founded by the **International Telecommunication Union (ITU)**, **Estonia, Germany**, and the **Digital Impact Alliance at the United Nations Foundation** in 2020.



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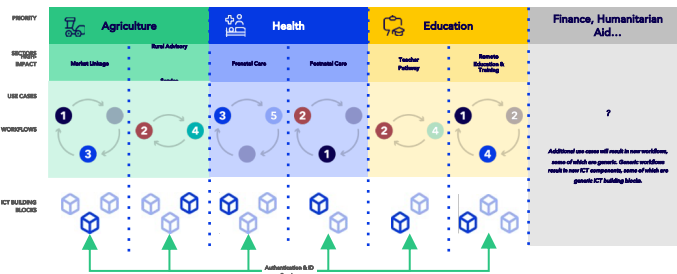
Bundesministerium für
wirtschaftliche Zusammenarbeit
und Entwicklung

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

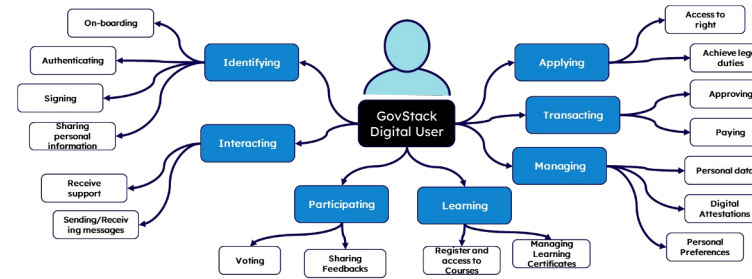


digital
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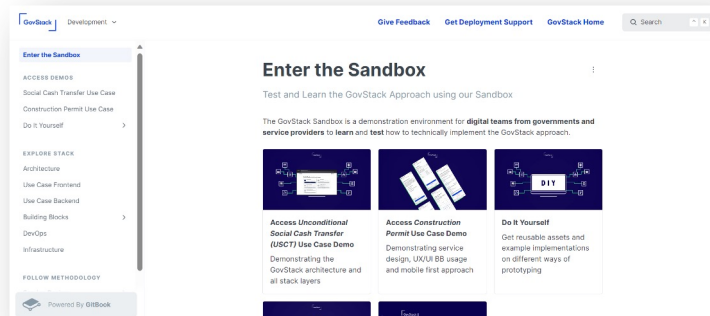
1 GovStack Building Blocks Approach



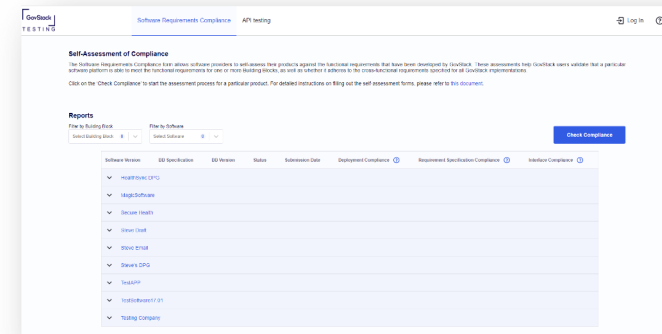
2 Identity Building Block



3 Demo of the Sandbox (incl. MOSIP)



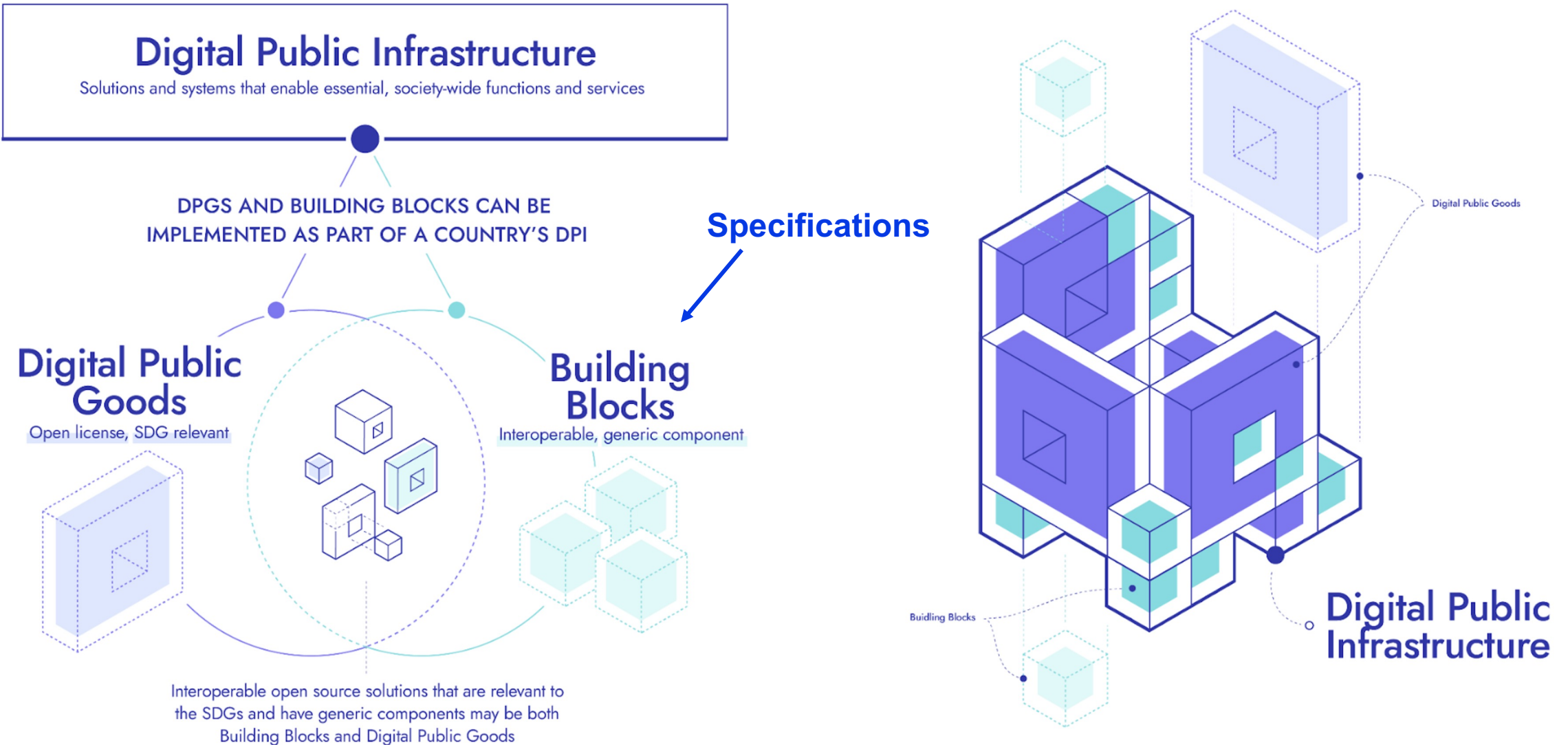
4 Call for cooperation



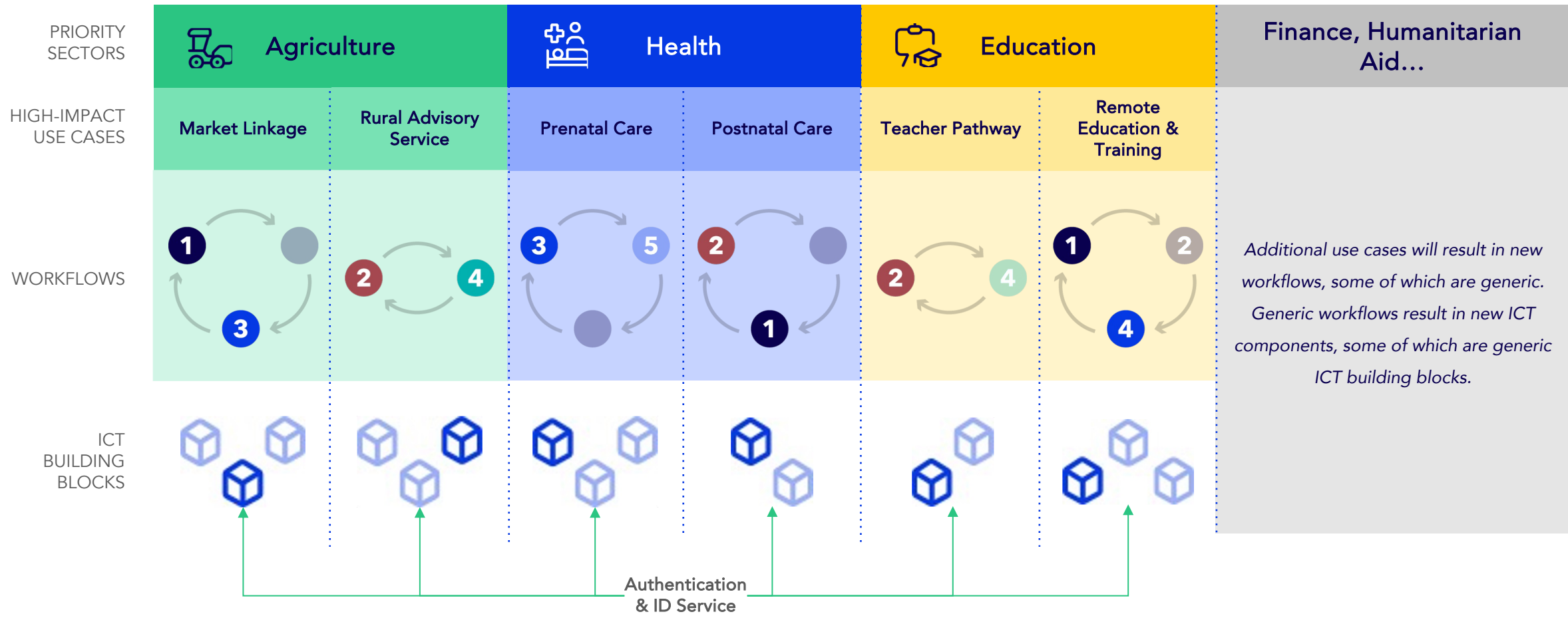
1

**GovStack
Building Blocks
Approach**

Together, Digital Public Goods and Building Blocks enable Digital Public Infrastructure (DPI)

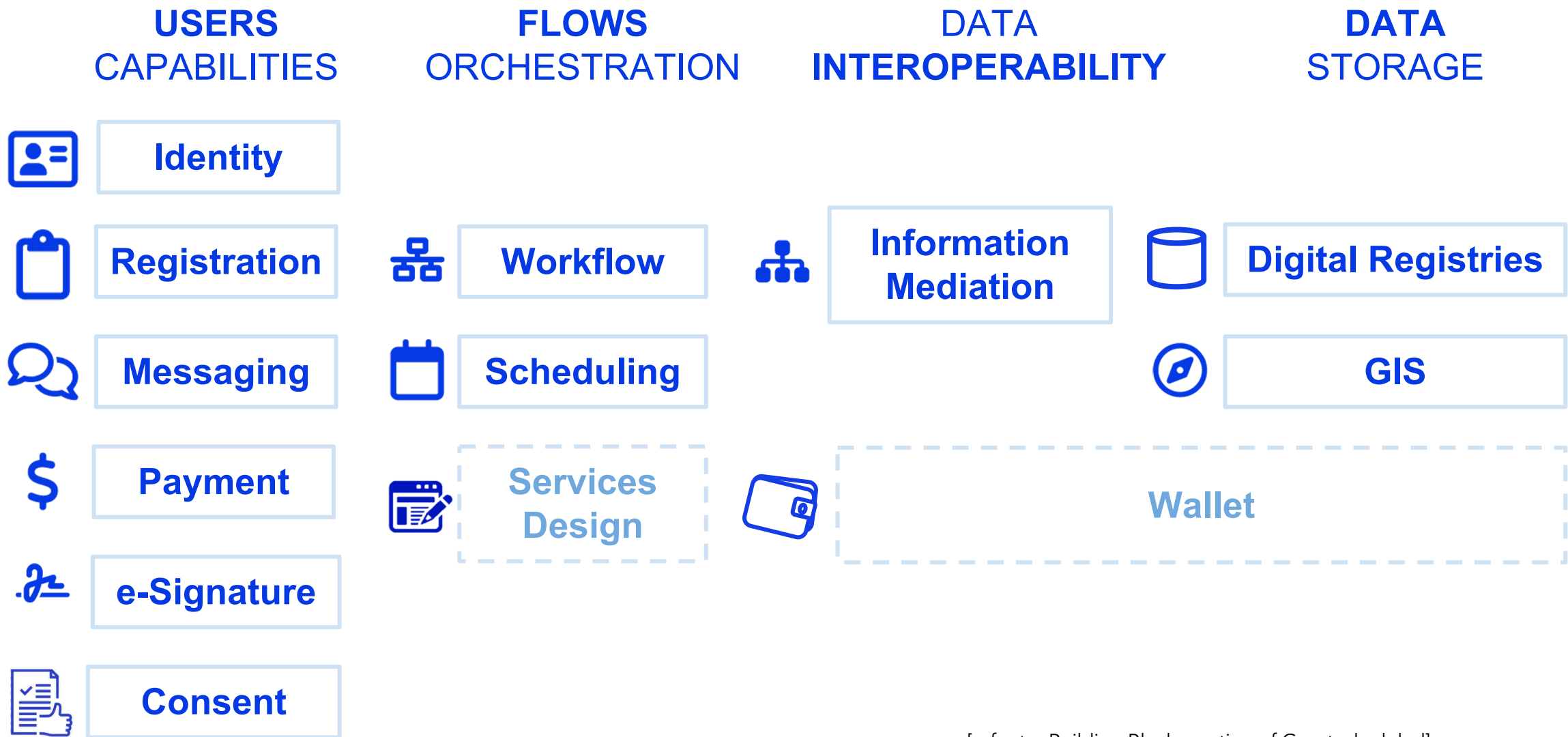


The building block approach can be applied across many sectors to support high-impact use

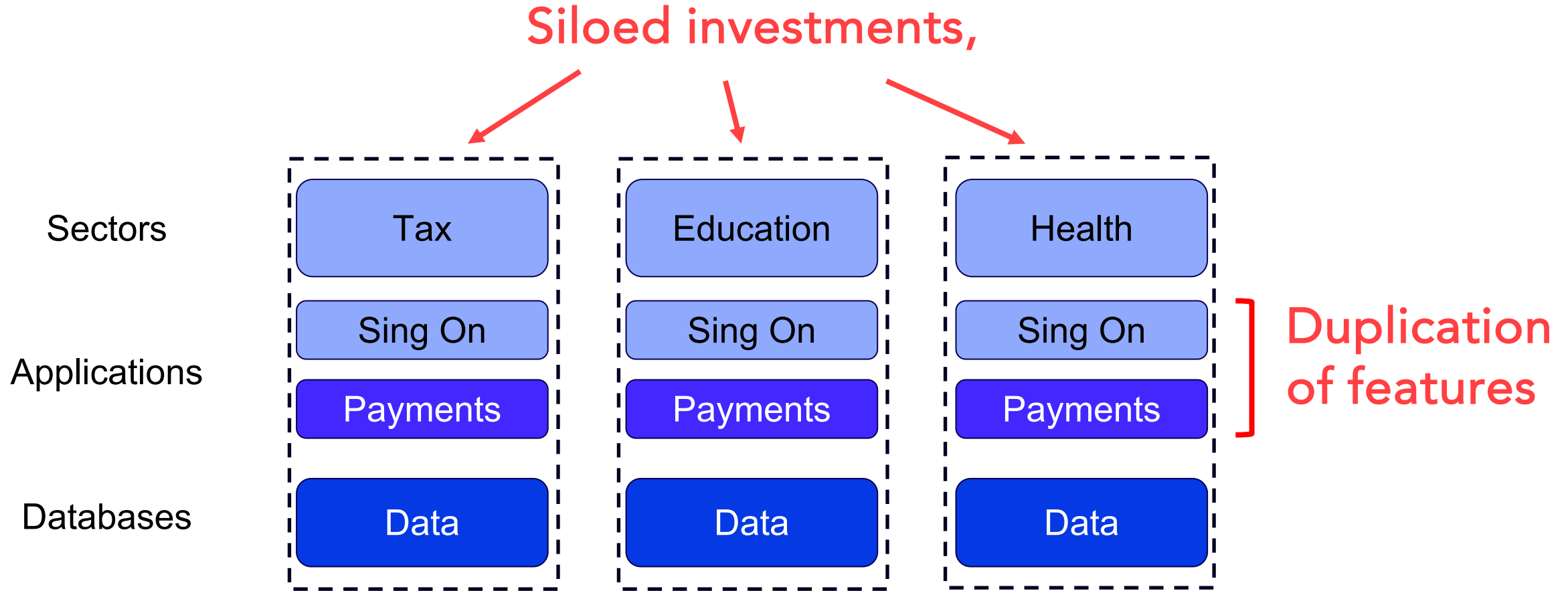


Source: SDG Digital Investment FW, 2019

Available GovStack Building Blocks Specifications

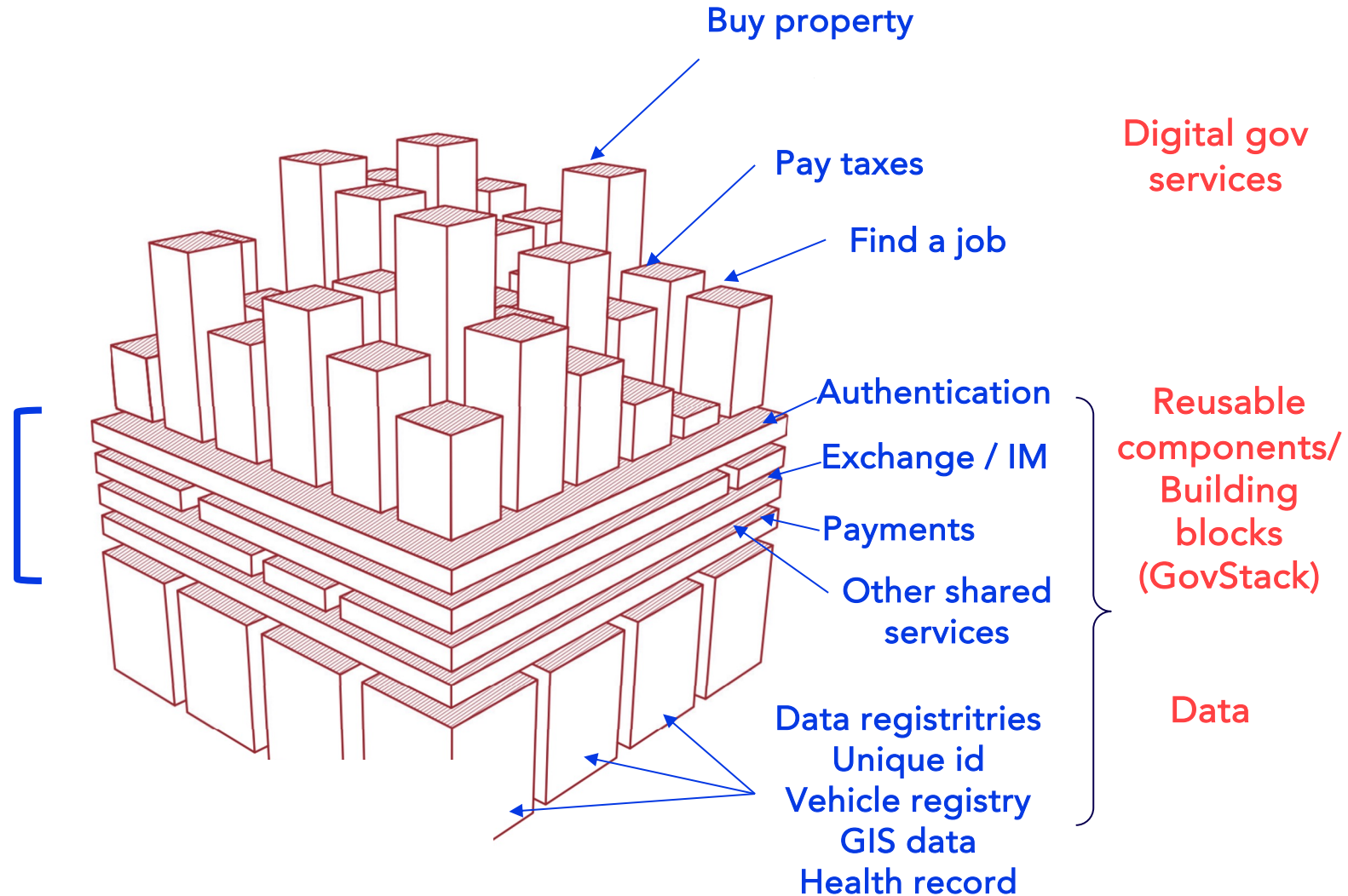


From silo ICT investments to reusable software components to digitize governments services at scale



From silo ICT investments to reusable software components to digitize governments services at scale

Build Infrastructures



Use or not whatever block

Leverage country assets, adapt to context and objectives

GovStack on the shelves UC

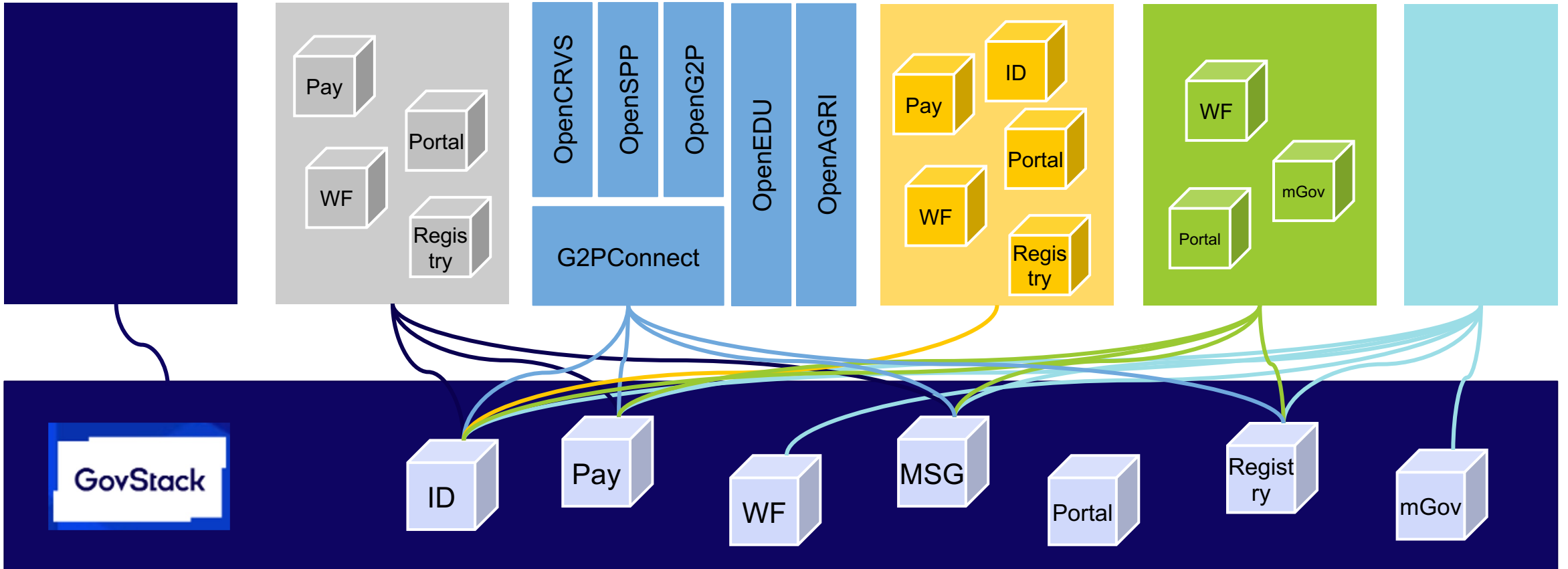
Existing siloed system

DPG/DPI

Private sector system

NGOs

Start-up



2

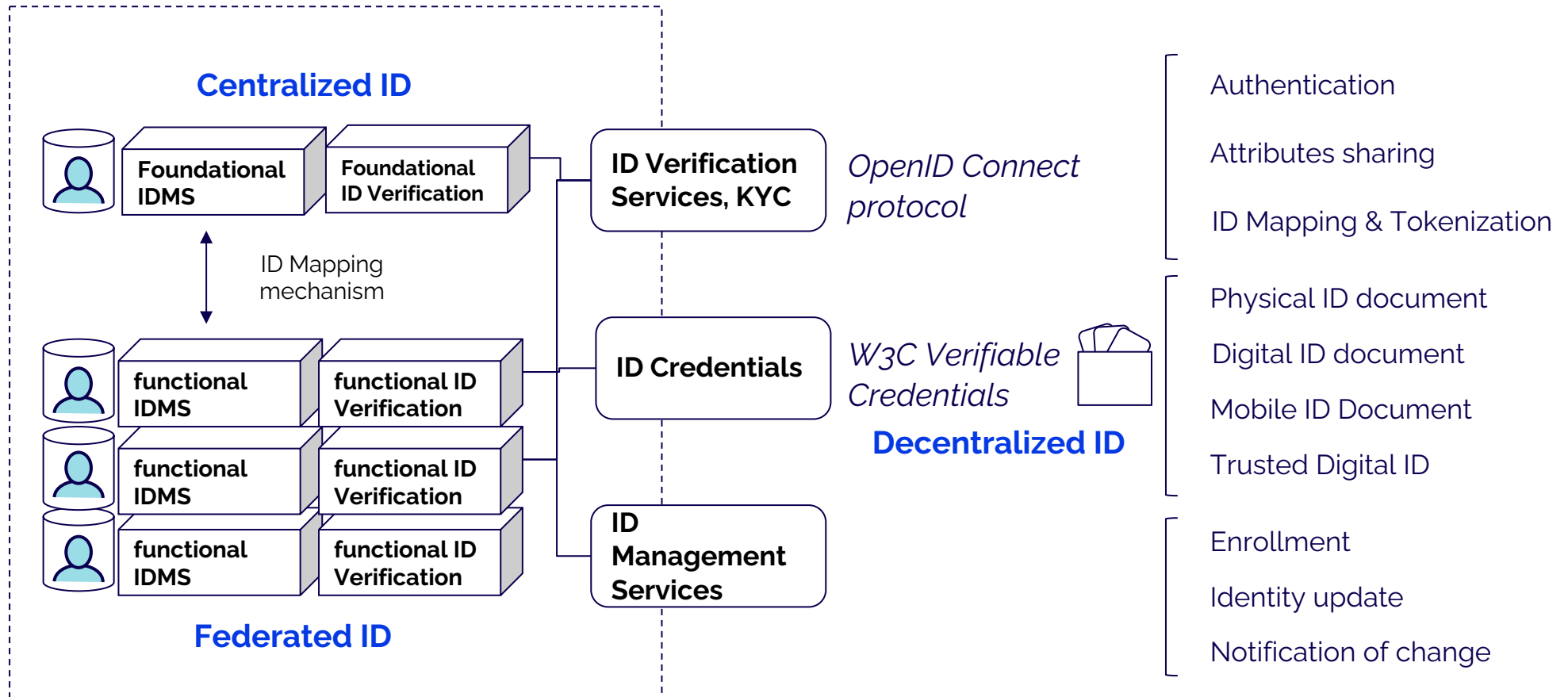
**Identity Building
Block**

Identity Building Block has to be **technology and form of identity agnostic.**

It should answer in a **generic way** to needs for authentication, credentials and identity management services.

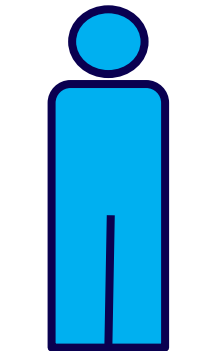
Deliver authentication and management services on population identity

Identity Building Block scope



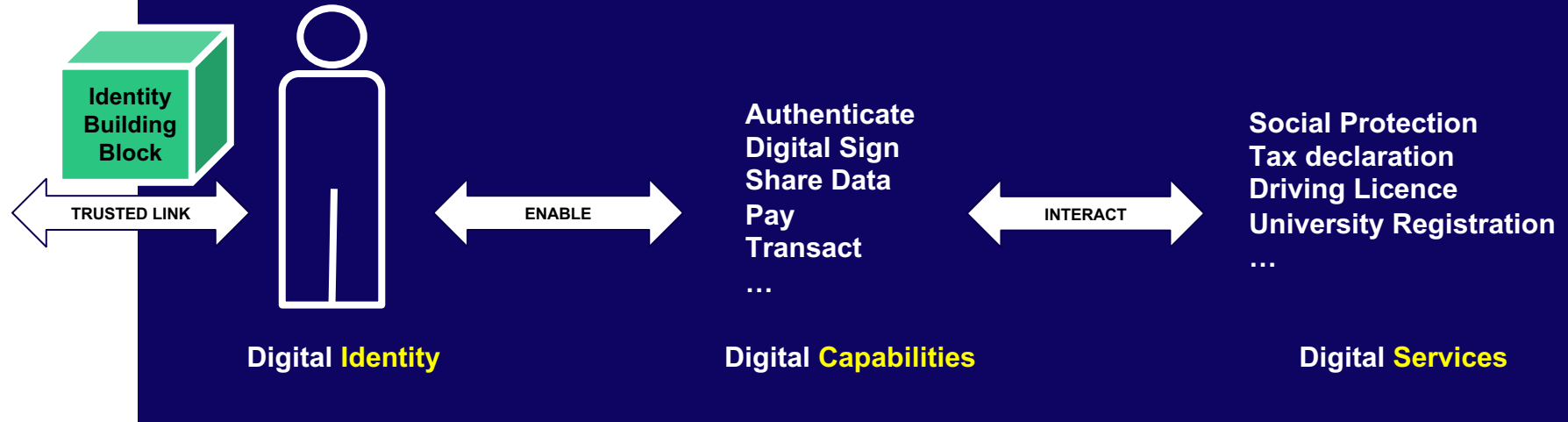
The Identity Building Block creates, manages, and uses a foundational digital identity to be used in GovStack.

Real World



Real Person

Digital World

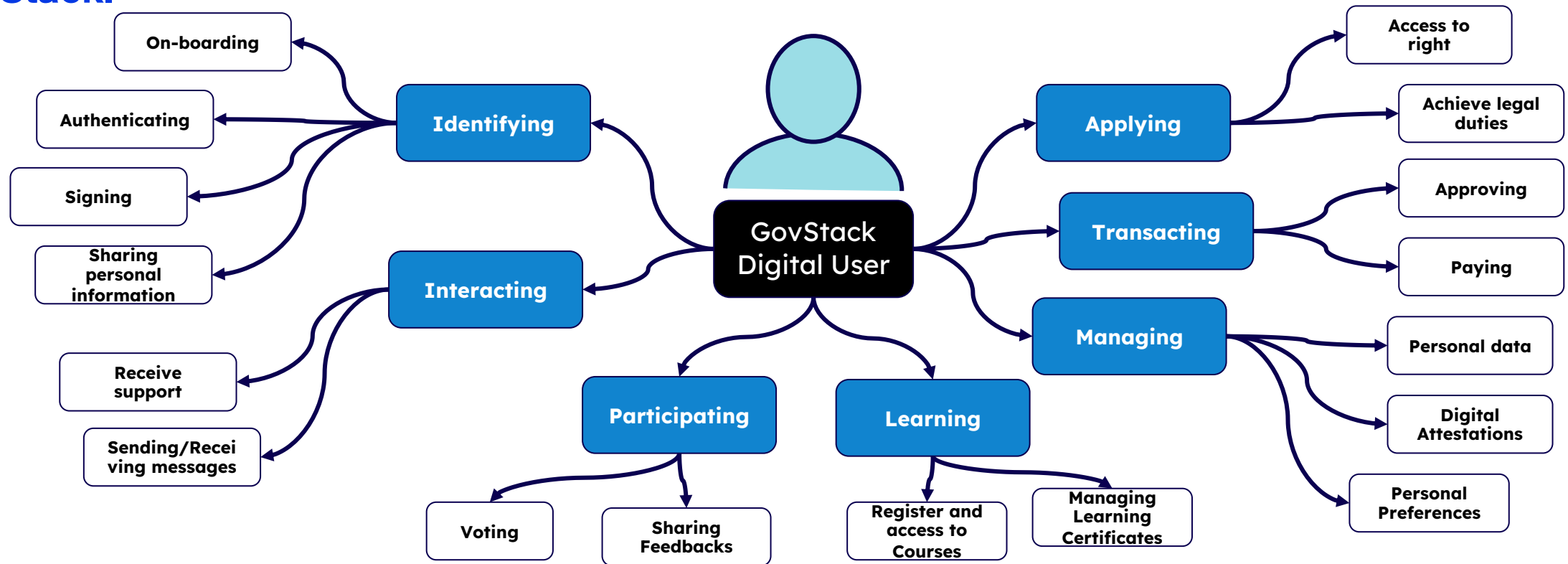


As a part of the overall identity system, it can be interfaced with other Building Blocks in order to realize the complete set of requirements necessary for delivering identification services and managing lifecycle of Foundational Identities



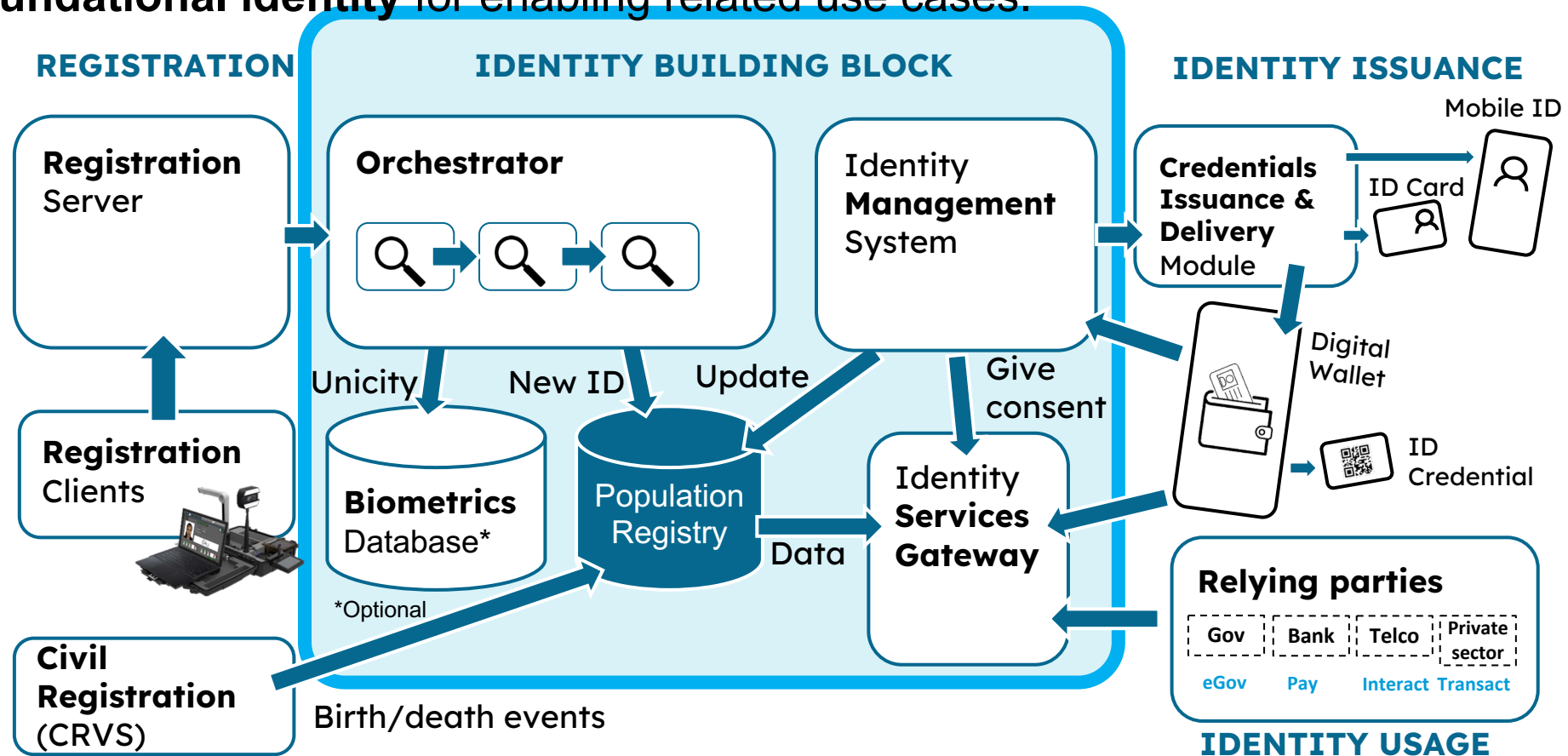
Identity Building Block brings a User centric perspective

As Identity building block is creating and managing the digital users of GovStack, it is the enabler for offering super-digital-powers at once to the end user after its on-boarding in the GovStack.



It also is in the ideal perspective to watch user experience by taking care of a smooth integration services offered by the different building blocks. overall

The Identity Building Block can be composed of a set of **interoperable sub-components/modules** dedicated to the **management of the foundational identity** offering different services for ensuring a **trusted foundational identity** for enabling related use cases.



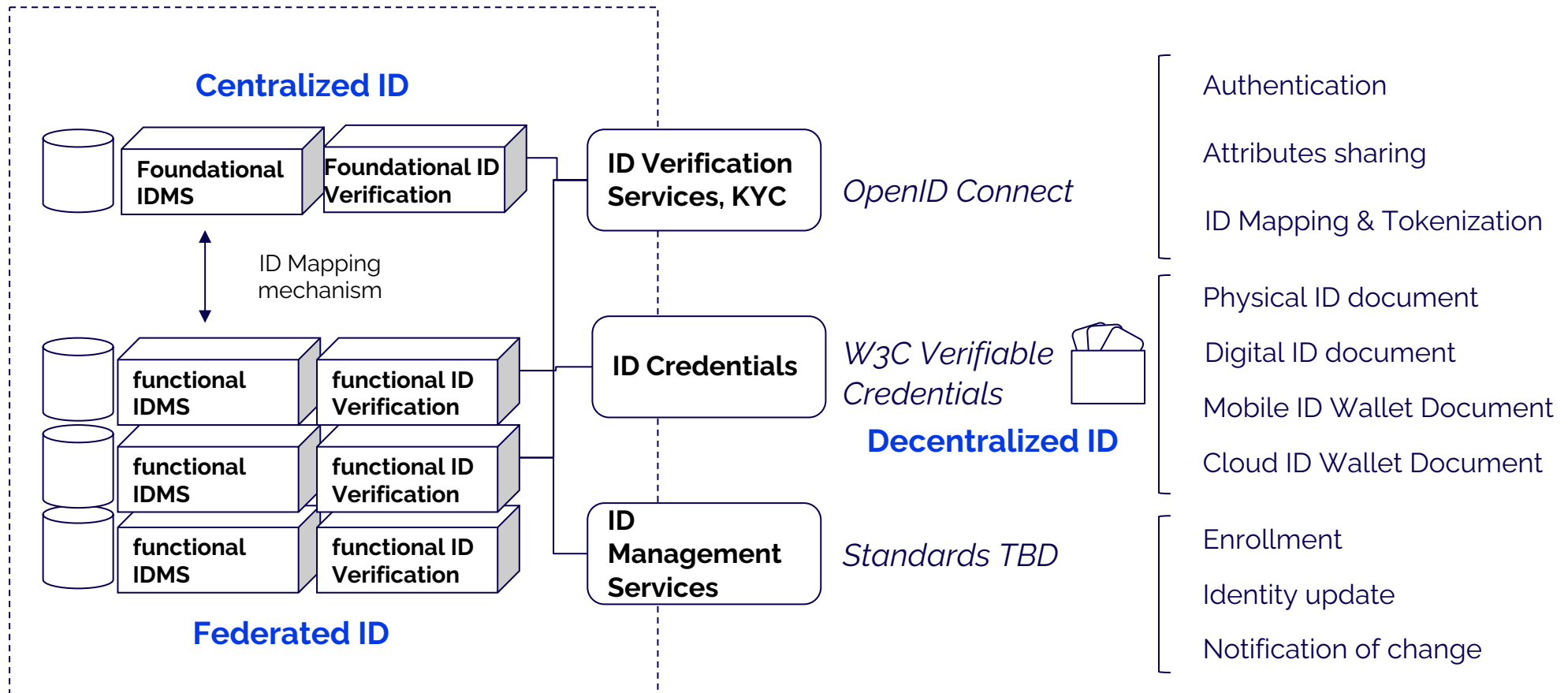
IDBB Wave 1 (2022) Defining **Vision and Scope**

Identity Building Block has to be **technology and form of identity agnostic.**

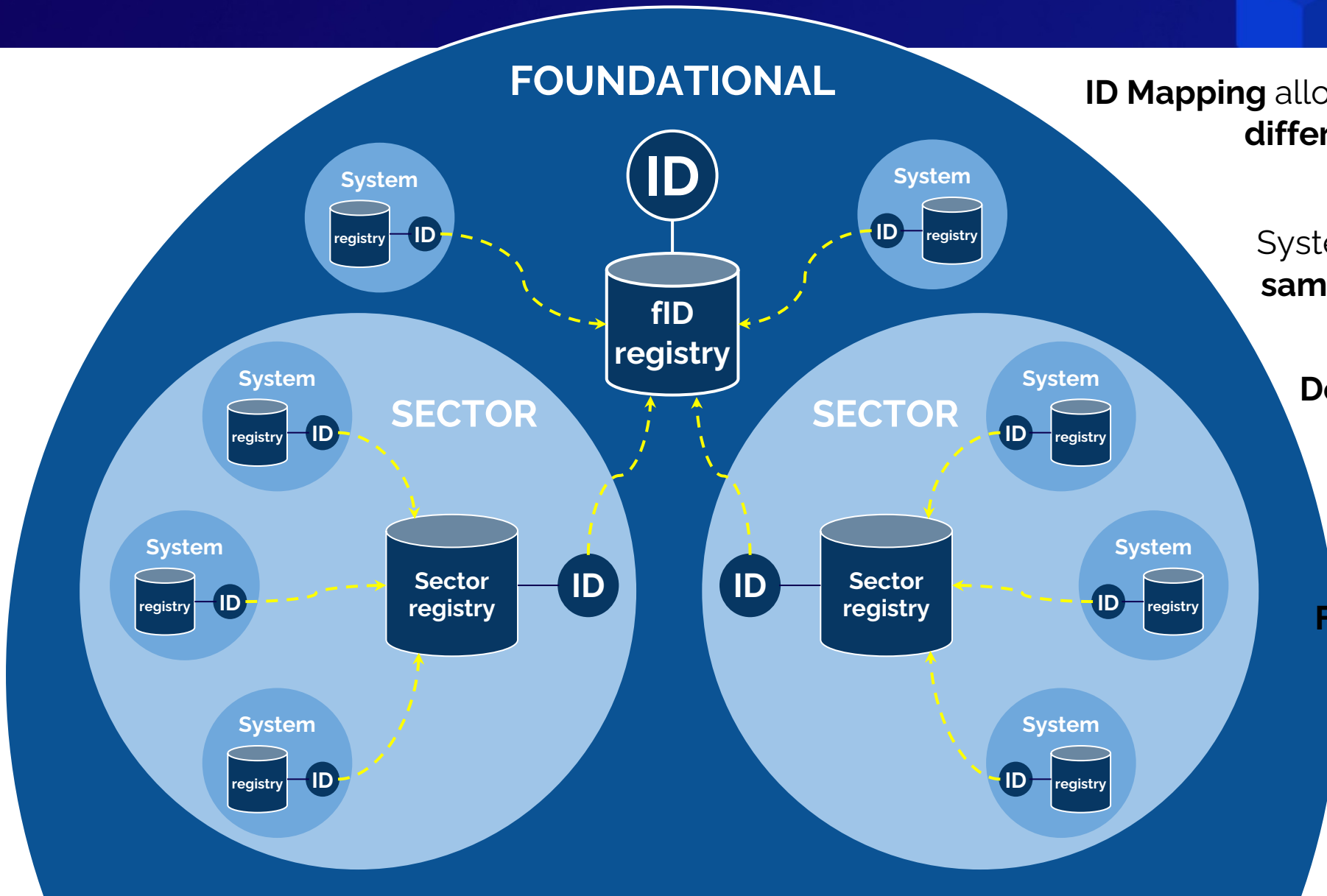
It should answer in a **generic way** to needs for authentication, credentials and identity management services.

Deliver authentication and management services on population identity

Identity Building Block scope



FOUNDATIONAL



ID Mapping allows to **map identifiers** in between **different domain levels** for purpose of **application data interoperability**

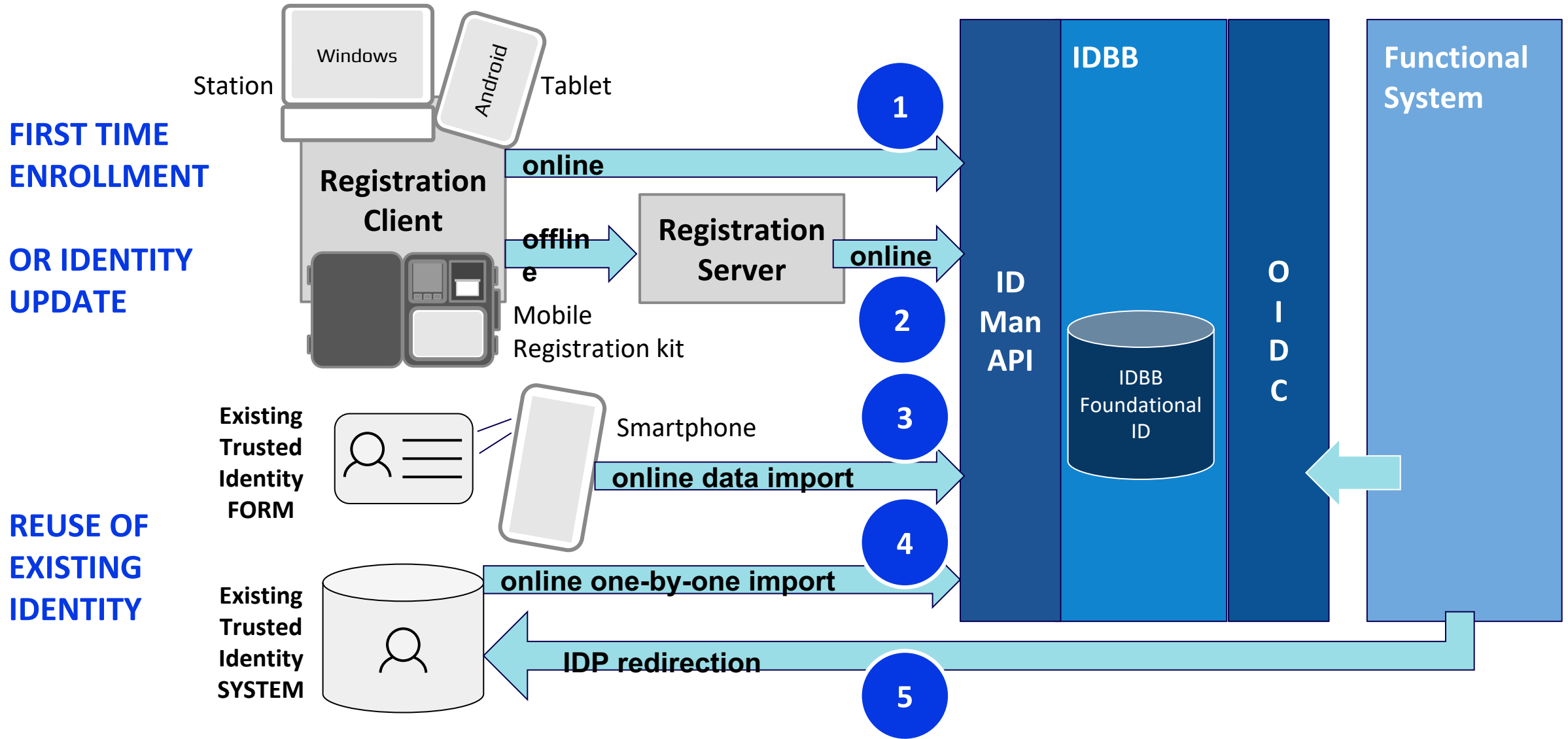
Systems of a same sector can **use the same sectoral ID** but **it should not be shared across different sectors**.

Domains may have their own **users registry with their data** and their own **authentication means**.

Domains should directly or indirectly **link back to Foundational ID** to ensure **person unicity**.

Domains may **use identity or data** from **upper domain level**, by **inheriting authentication**.

IDBB Wave 3 Facilitating and Accelerating **on-boarding**



Wallet Building Block

Defining Purpose and Scope

Under process..

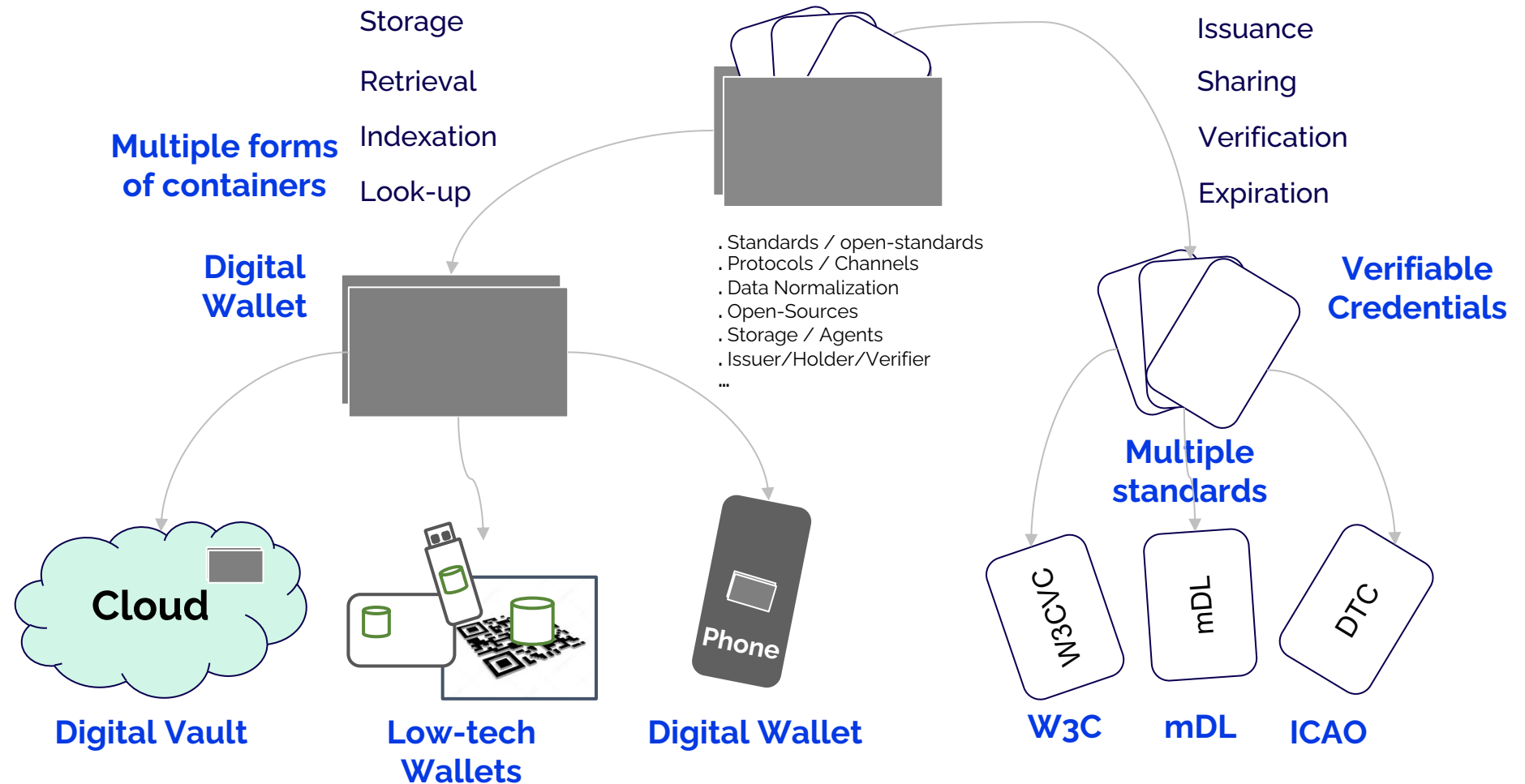
Wallet Building Block scope is **Container and Content**.

Wallet Building Block has to cover **multiple forms of Containers and Contents**

Wallet Building Block has to be **inclusive**.

On the long run, Wallet BB **should address some sectors** to be deliver more **precise guidelines** by onboarding **sectors specific standards**.

Storage and exchange of decentralized verifiable digital information



3

GovStack Sandbox

Our Offerings



GovSpecs

We work with governments to identify real-life scenarios...

[Learn more](#)



GovTest

We provide an open demonstration environment for...

[Learn more](#)



GovLearn

We collaborate to provide capacity building, trainings, and support designing...

[Learn more](#)



GovExchange

We offer a platform to research the market of digital services and find...

[Learn more](#)

Challenges

Solutions

Functional Scope of DPGs



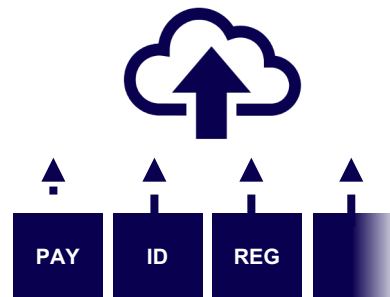
GovStack Building Block Specifications

Integration with other DPGs

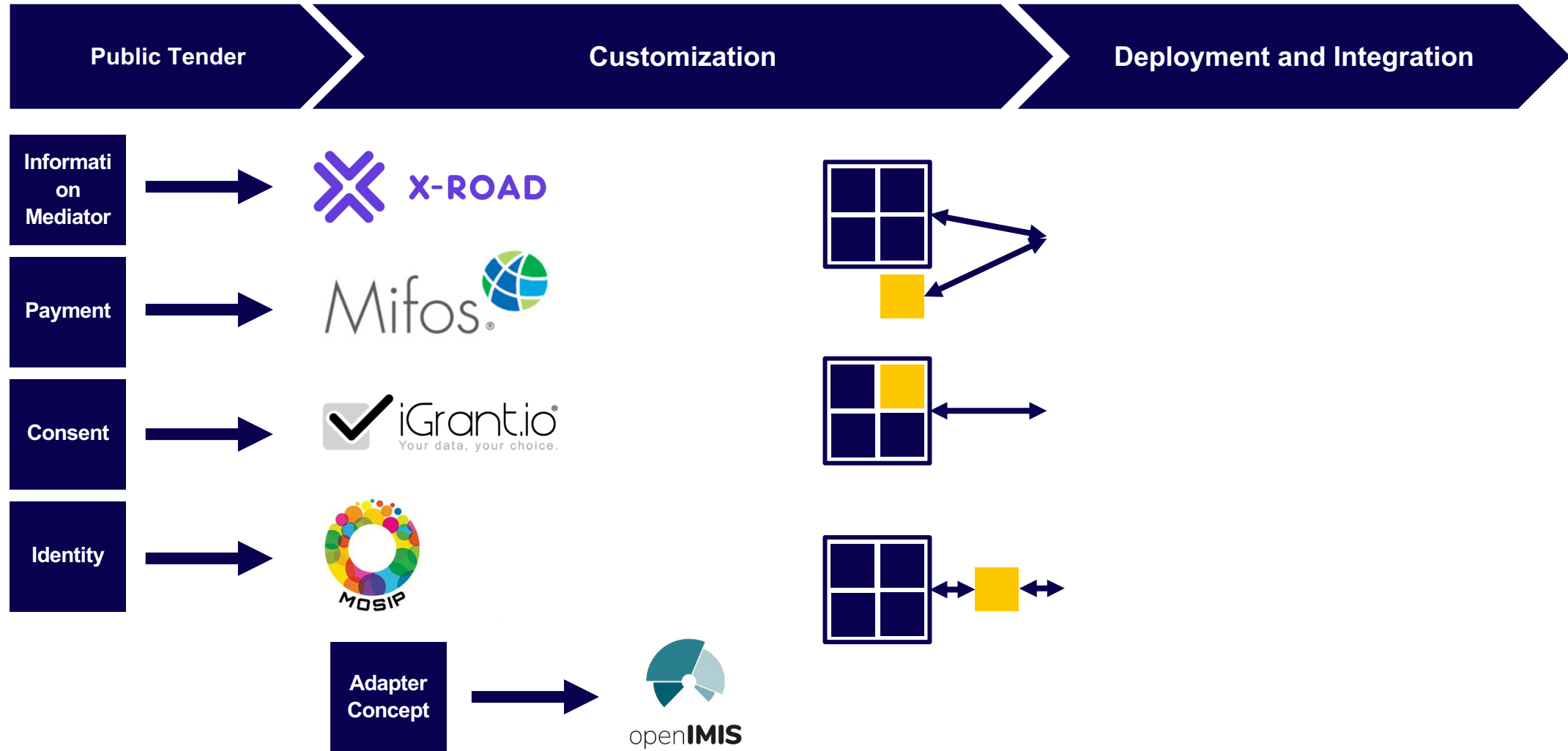


GovStack Architecture and API Specifications

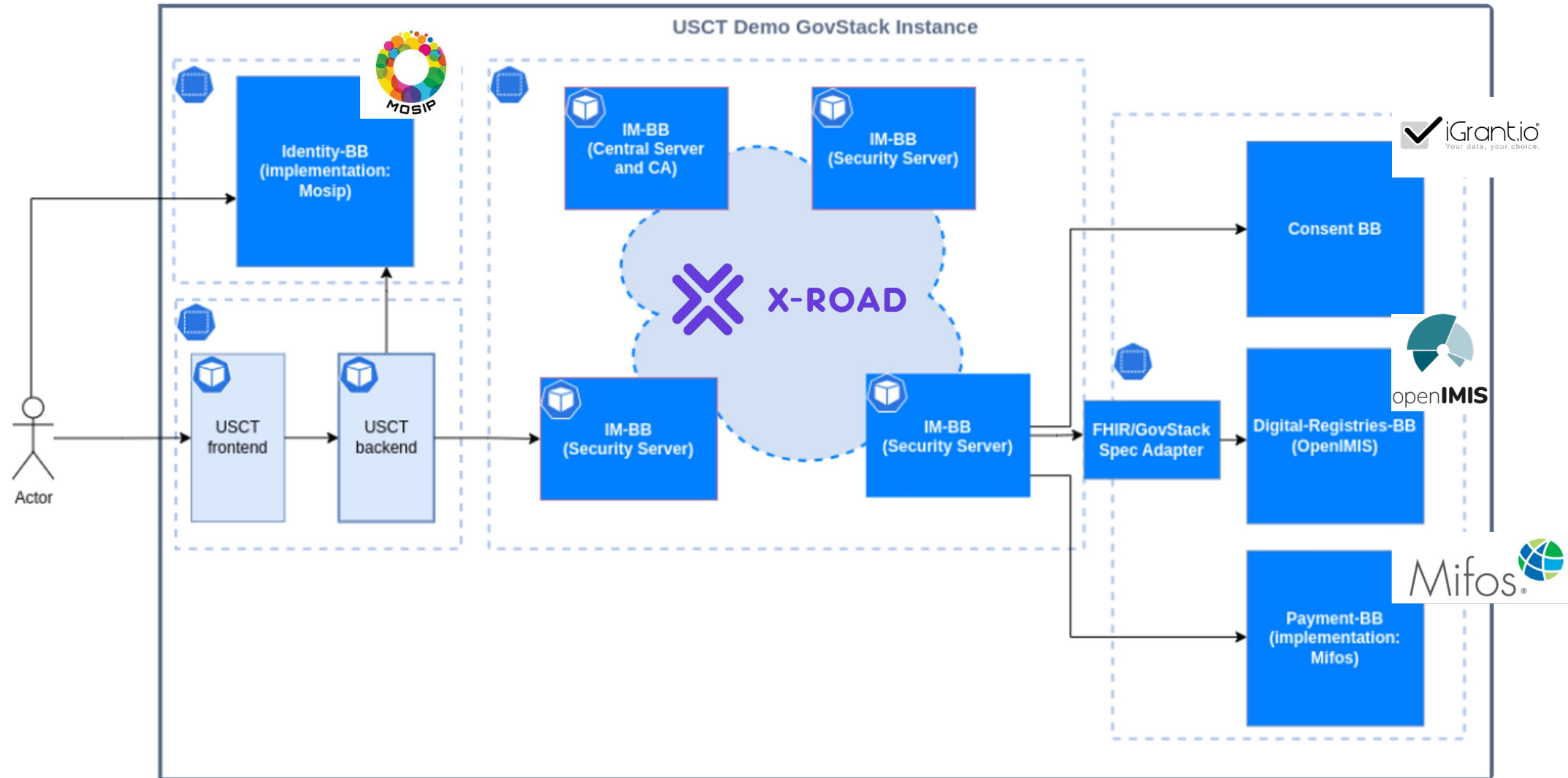
Diverse ways of configuring and deploying



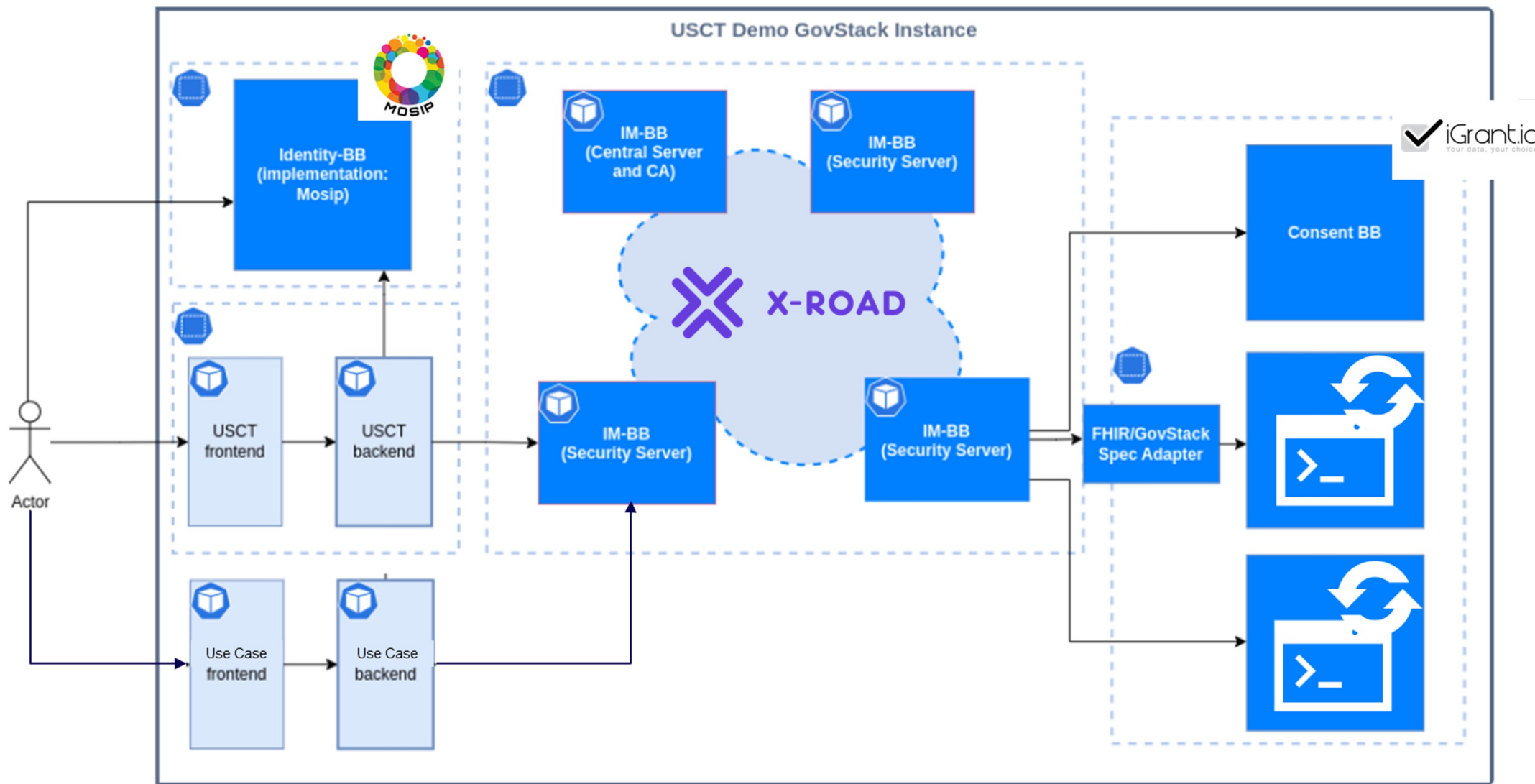
Common Configuration and Deployment Procedure



Implementation Architecture



Architecture Benefits: Add Use Cases and Exchange DPIs



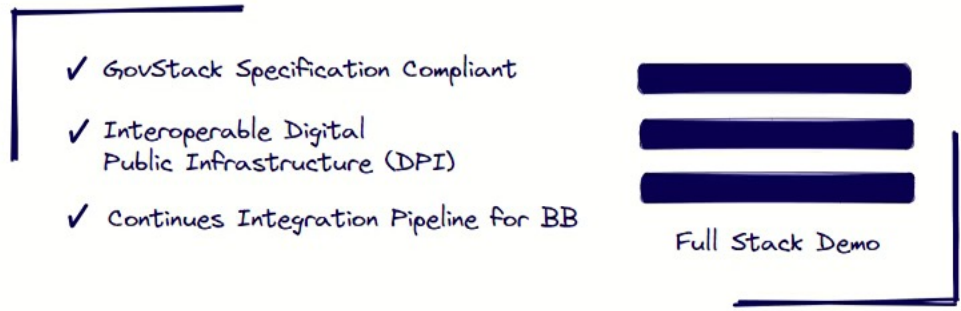
Demo starting at

<https://www.govstack.global/>

- Enter the Sandbox
- ACCESS DEMOS
 - Social Cash Transfer Use Case**
 - Construction Permit Use Case
- FOLLOW METHODOLOGY
 - Do It Yourself
 - DIY Wireframes
 - DIY Dynamic Frontend
 - DIY Minikube
 - DIY Full-Stack
 - Get Deployment Support
 - Service Design Practice
- EXPLORE STACK
 - Architecture
 - Use Case Frontend
 - Use Case Backend
 - Building Blocks
 - DevOps
 - Infrastructure
 - Version History

Social Cash Transfer Use Case

Demonstration of a full stack implementation using a Unconditional Social Cash Transfer (USCT) use case



Unconditional Social Cash Transfer (USCT) programs help families meet their basic needs for well-being and safety and serves as their path to self-sufficiency. USCT are cash payments provided to financially disadvantaged or vulnerable people or households without requiring anything in return (i.e. without conditionality).

This demo covers only a small fraction of a USCT user flow for the purpose of using various Building Block APIs. For a more comprehensive visualization of the use case visit the GovStack USCT simulation.

Which GovStack features are demonstrated?

With this use case implementation, we demonstrate the GovStack approach through...

- ✓ **One possible way to implement the GovStack Specifications**
Browse through all the stack components on the left-hand side menu, to explore the

- ON THIS PAGE
- Which GovStack features are de...
 - How to access?
Use Case Frontend Walk Through
Building Block Uls
 - How are the stack components a...
 - Data Protection Notice and Regi...

GovStack Initiative is the broker between demand and supply in eGovernment solutions

For Countries and Donors

Incorporate GovStack Specs in eGov projects and procurements (independently or in collaboration with GovStack)



For Product Owners

Assess alignment with specifications and publish at testing.govstack.global

The screenshot shows the GovStack TESTING interface. At the top, there are navigation links for 'Software Requirements Compliance' and 'API testing', along with 'Log In' and 'Help' buttons. The main content area is titled 'Self-Assessment of Compliance' and includes a brief description of the form's purpose. Below this is a 'Reports' section with two dropdown filters: 'Filter by Building Block' and 'Filter by Software'. A 'Check Compliance' button is located to the right of the filters. The 'Reports' table has the following columns: Software Version, BB Specification, BB Version, Status, Submission Date, Deployment Compliance, Requirement Specification Compliance, and Interface Compliance. The table lists several software versions, including HealthSync DPG, MagicSoftware, Secure Health, Steve Draft, Steve Email, Steve's DPG, TestAPP, TestSoftware17.01, and Testing Company.

Software Version	BB Specification	BB Version	Status	Submission Date	Deployment Compliance	Requirement Specification Compliance	Interface Compliance
HealthSync DPG							
MagicSoftware							
Secure Health							
Steve Draft							
Steve Email							
Steve's DPG							
TestAPP							
TestSoftware17.01							
Testing Company							

GovStack

Thank You!