



Empowering societies to
chart their digital futures



REPUBLIC OF ESTONIA
MINISTRY OF FOREIGN AFFAIRS



Bundesministerium für
wirtschaftliche Zusammenarbeit
und Entwicklung



digital
impact
alliance

GovStack is a multistakeholder, community-driven initiative, focused on accelerating national digital transformation worldwide, and drawing on expertise from contributors across the private sector, civil society, and governments all over the world.

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





WHY?



Country governments struggle with the digitization of their public services for several reasons



SILOES

Siloed investments and duplicative efforts by development partners promote fragmented digital governance and silos in partner countries.



FUNDING FOR PROCUREMENT

Challenges in procuring and implementing affordable IT solutions persist, as do challenges in creating the necessary capital to invest in ICT infrastructure projects.



SCALING

Huge challenges exist in adapting and investing in projects at scale, particularly around the rollout of physical ICT infrastructure, the deployment and use of common data platforms.



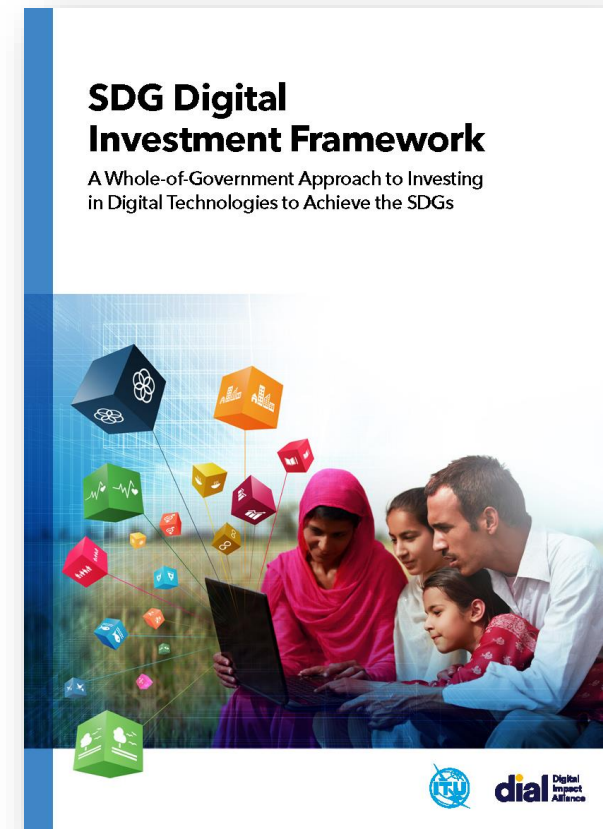
COORDINATION

Problems in coordination commonly occur in aligning ICT ministry work with that of other agencies.

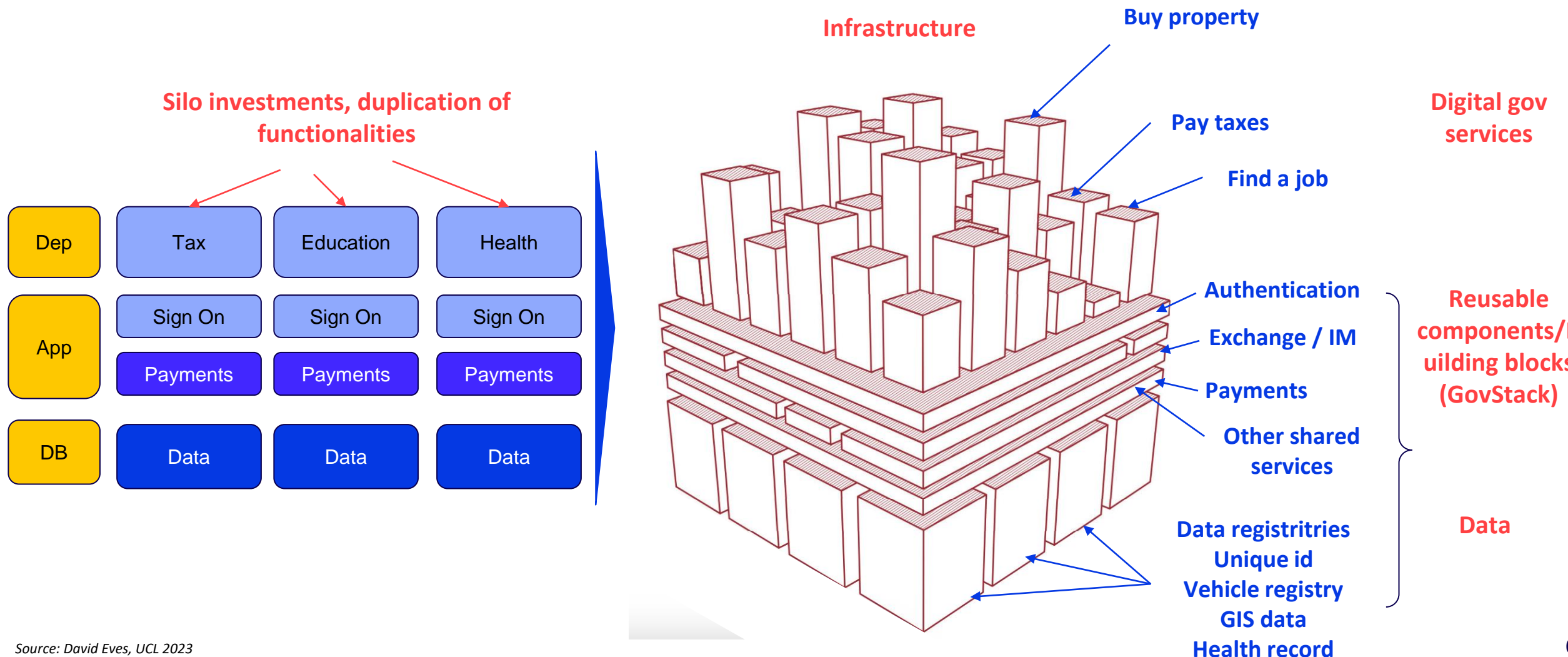
In 2015, world leaders agreed to 17 Global Goals for Sustainable Development to achieve a better world by 2030.

Many of these goals rely on our ability to deliver services to people, and we know that digital technology can facilitate broader access.

GovStack aims to break down the barriers to building sustainable digital public infrastructure and help governments create human-centered digital services that empower individuals and improve well-being.



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



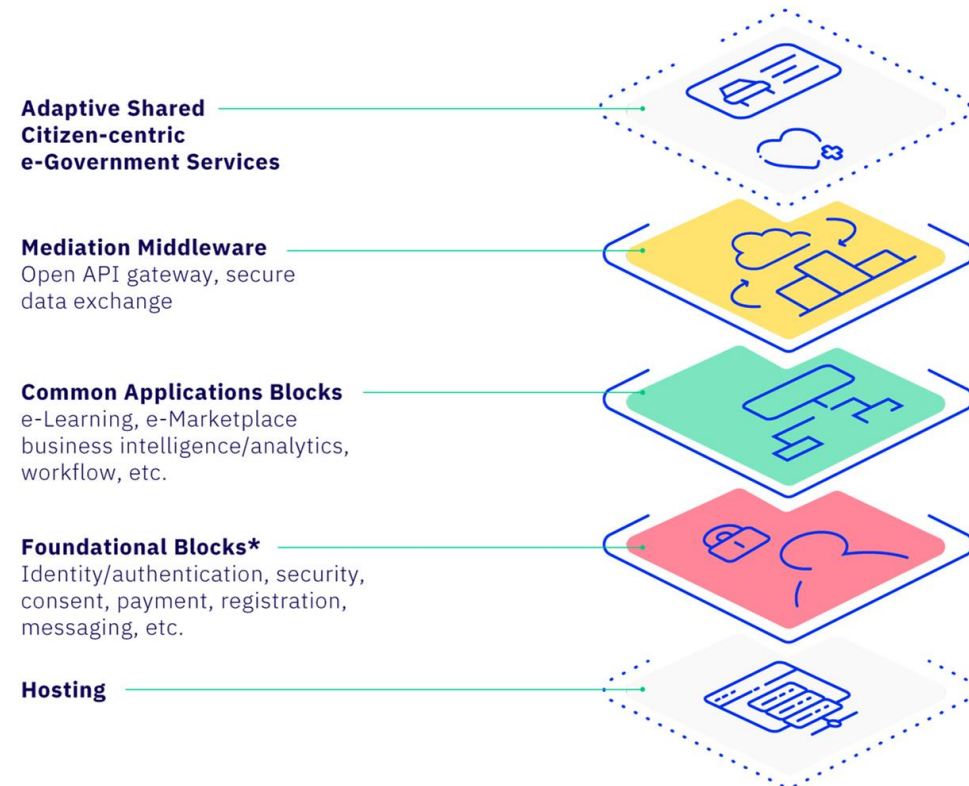
GovStack's Whole-of-Government approach

GovStack

There is growing evidence that a whole-of-government approach to digital infrastructure investment can **deliver reusable digital services at scale with a greater return on investment.**

The approach **takes advantage of economies of scale** that are not available when taking a piece-meal approach.

i Instead of creating unique and disparate solutions, use a common reusable stack of Building Blocks to form the core platform engine and contextualize various e-government services on top.



A “platform of platforms” that can be used by any government agency, department across different sectors to build new government digital services without having to design, test and operate the underlying systems and infrastructure themselves



WHAT?



GovSpecs



GovTest



GovLearn



GovExchange



Country Engagement

Countries build their services based on Building Block specifications
Countries may contribute to their development in working groups.

Countries identify and prioritize use cases which can then be demonstrated, tested and explored in sandboxes.

Countries benefit from capacity building (e-learning, implementation playbook, workshops) and exchange knowledge through Communities of Practice.

1

GovSpecs

Designing e-government services with generic Building Blocks

What are Building Blocks?

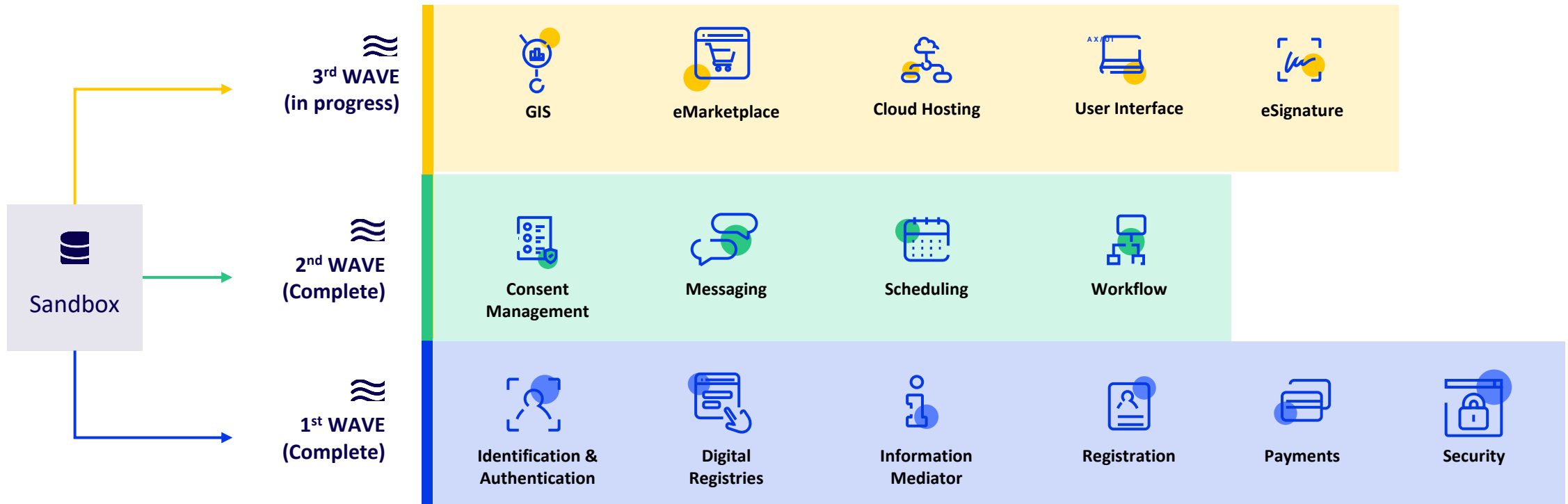
Generically-defined **software components** that in combination provide key functionalities to facilitate generic workflows common across multiple sectors.

What are their characteristics?

- Reusable software components
- Open-source, commercial off-the-shelf (COTS), or freely available with open access to data
- Facilitate one or more generic op. workflows
- Applicable to use cases across multiple sectors
- Interoperable with other Building Blocks
- Secure by design, standards-based and interoperable

 Registration	 Messaging	 Scheduling	 Security
 Payments	 Information Mediator	 eMarketplace	 GIS
 Identification & Authentication	 Client Case Management	 Collaboration Management	 Analytics & Business Intelligence
 eLearning	 Reporting & Dashboards	 Content Management	 Data Collection
 Shared Data Repositories	 Digital Registries	 Terminology	 Artificial Intelligence
 Consent Management	 Mobility Management	 Workflow and Algorithm	

GovStack Building Blocks are released in waves

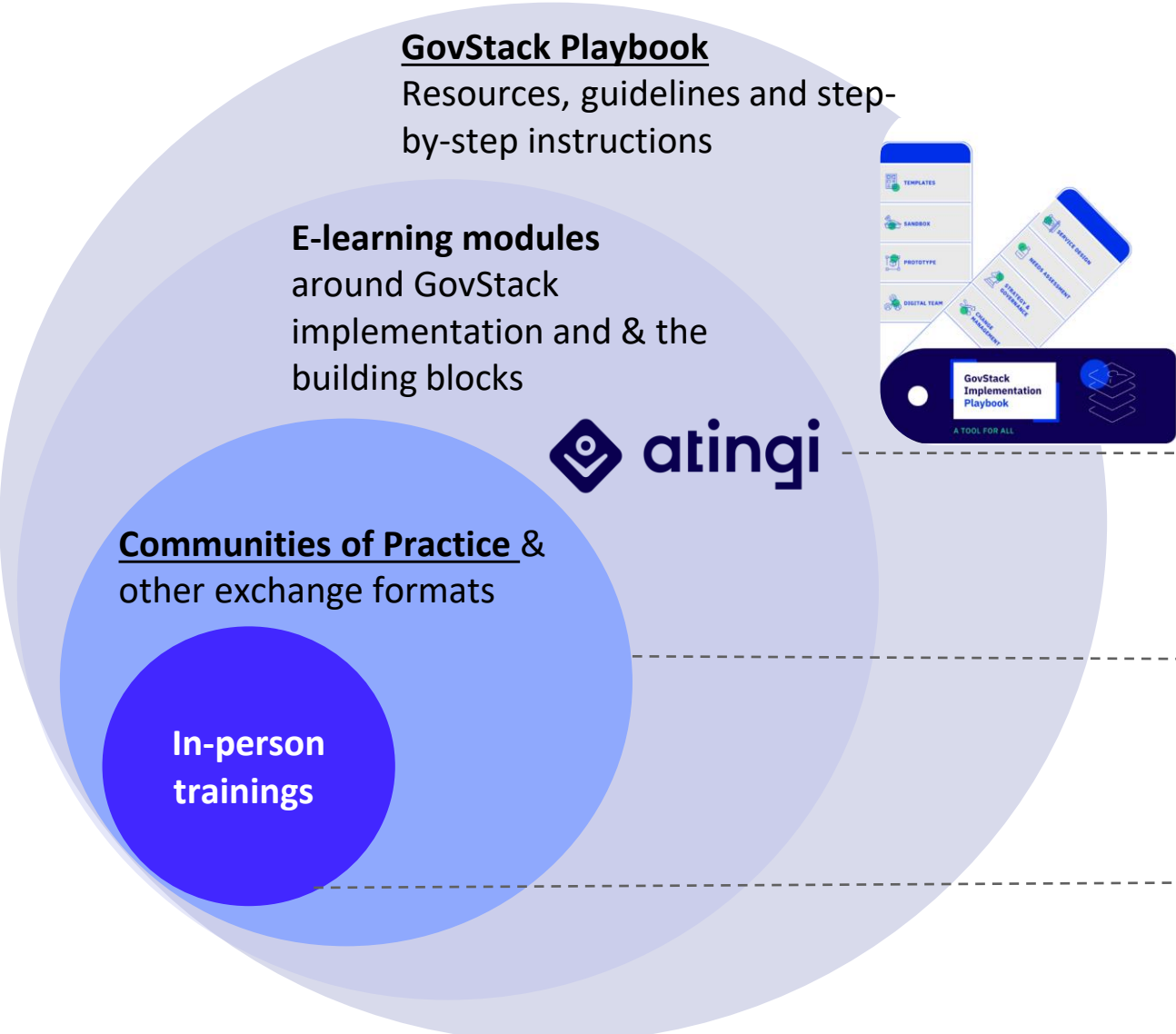


Current specifications available at <https://govstack.gitbook.io/specification/>

2

GovLearn

GovLearn: capacity building through eLearning, workshops, implantation playbook & communities of practice



GovStack Playbook
Resources, guidelines and step-by-step instructions

E-learning modules
around GovStack implementation and & the building blocks

Communities of Practice &
other exchange formats

In-person trainings



Available for everyone, may be used for independent guidance as well as a step-by-step guide understanding and implementing GovStack

Hosted on atingi, complementing the Playbook; asynchronous short courses

Initiated by founding partners on technical aspects, gender & inclusion or regional exchange

Specific trainings based on needs assessment in focus-countries

3

GovTest

GovTest: The GovStack Sandbox to experiment, learn and prototype



The Challenge

- ❑ Lack of comprehensive pre-procurement testing
- ❑ Limited transparency of existing best practice systems
- ❑ Reinventing the development, deployment and operating life cycle

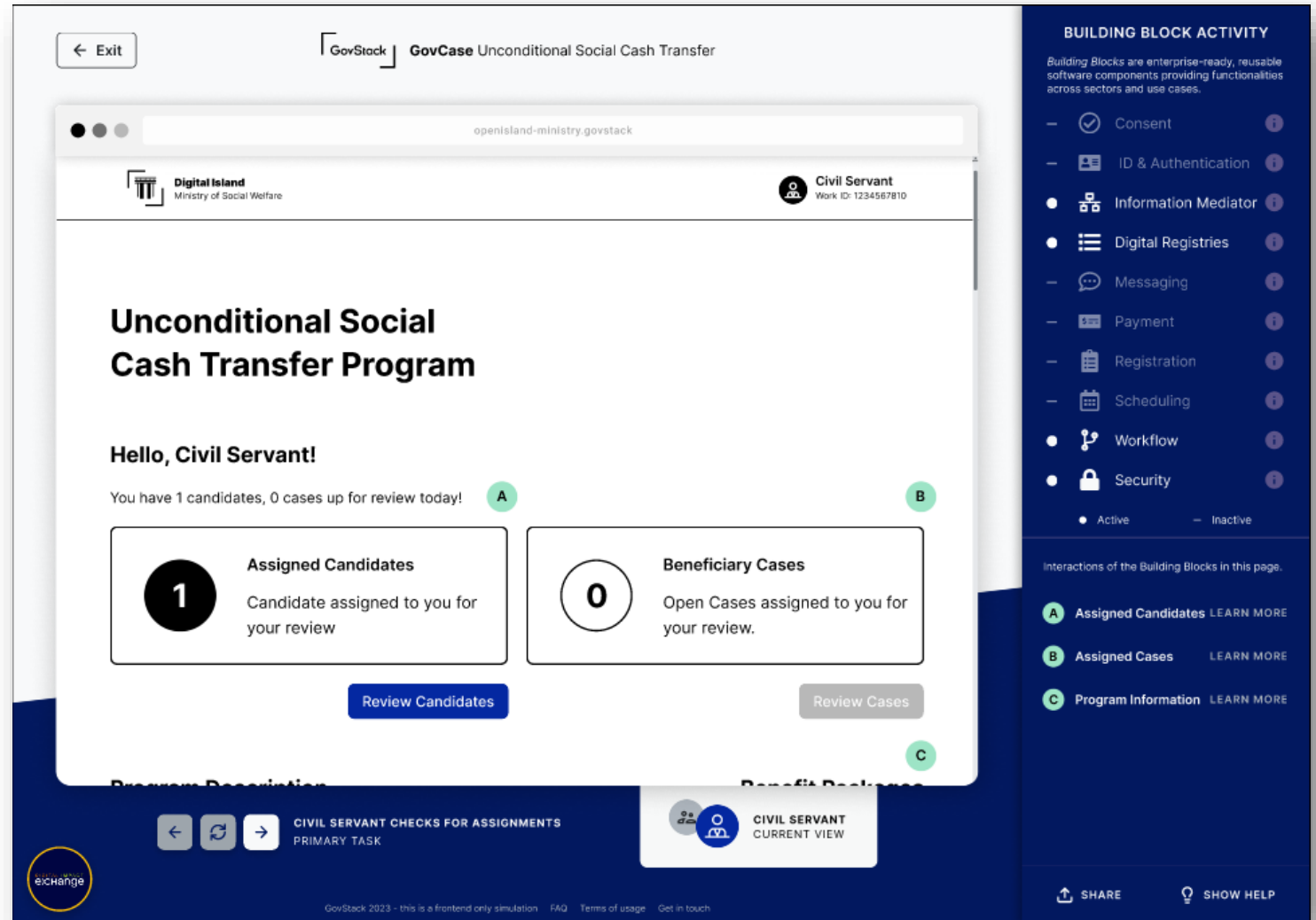
GovStack's Solution

- ✓ First GovStack reference implementation acts as best practice
- ✓ Experience the citizen's user journey of reference use cases
- ✓ Test the interchangeability of Building Blocks with a variety of use cases
- ✓ Assess the deployment, configuration and interoperability of Building Blocks

GovTest: The GovStack sandbox is being developed

Sandbox Features

- ✓ makes the GovStack approach **tangible**
- ✓ is an isolated, safe environment **simulating** a small governmental e-service system (reference implementation)
- ✓ encapsulates the **business logic and data** necessary to represent multiple GovStack (APIs, BB, use cases and workflows)
- ✓ follows the GovStack **architectural approach** centered around APIs and microservices to help unlock monolithic legacy systems to increase the speed of IT project delivery, leading to more effective and cost-efficient digital governments



4

GovExchange

A global exchange for digital development

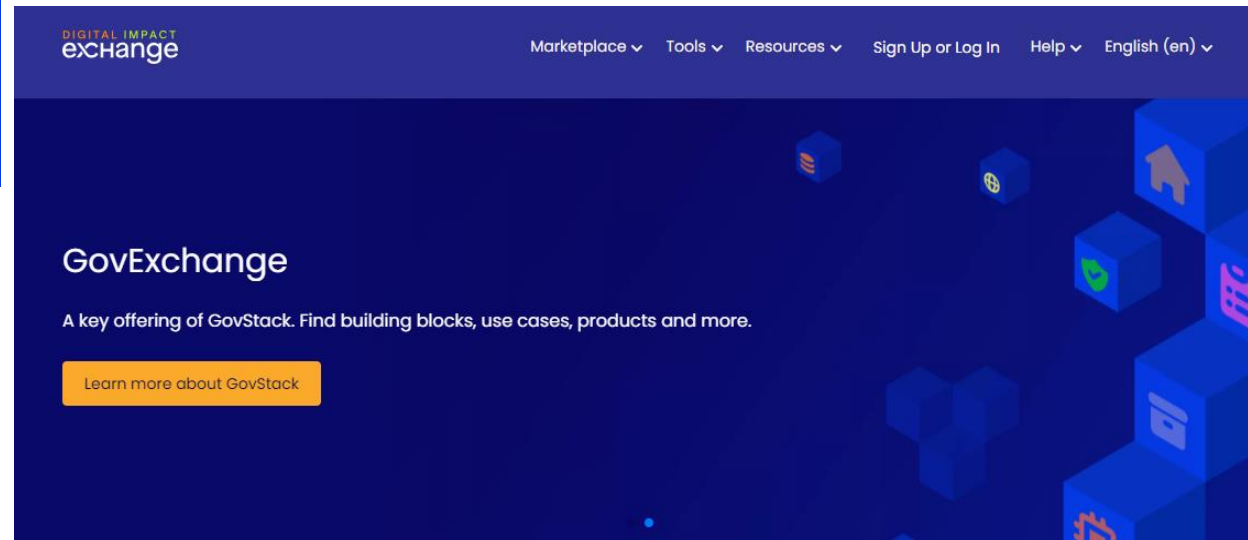
GovStack

<https://exchange.dial.global>

Library of high-impact
Use Cases

Repository of Digital
Tools

Implementations, case
studies, playbooks



Directory of service
providers*

Listings of
opportunities*

A Community of
Changemakers


Let's get started ...

Welcome to the Digital Impact Exchange, a gateway to the world of digital solutions for e-government. No matter which sector or Sustainable Development Goal you are focused on, the Exchange can help you build better services for people and communities. Start with some of the popular options below.

** Coming soon*

Green GovStack ICT procurement guidelines

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 The UN specialized agency for ICTs
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Circular and sustainable public procurement - ICT equipment guide

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In this issue

This is a guide for governments and other public sector organizations that procure information and communications technology (ICT) equipment, systems and services. It sets out the systems and process requirements for ICT procurement in a way that supports the transition to circular and sustainable system solutions. It considers the need for policy and strategy, setting the conditions for and building circular and sustainable design into procurement processes.

<https://www.itu.int/hub/publication/d-hdb-guidelines-04-2023/>

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Circular and Sustainable Public Procurement for ICTs

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REGISTRATION
 Start Date: 02 Aug 2023
 End Date: 22 Dec 2023

EVENT DATES
 Start Date: 02 Aug 2023
 End Date: 31 Dec 2023

LOCATION
 World or Multi-Regional

PRICE
 \$0.00
[ENROLL FOR FREE](#)

TRAINING TOPICS

- ICT & Climate Change
- E-government
- E-Waste
- Smart cities and communities
- ICTs and the environment

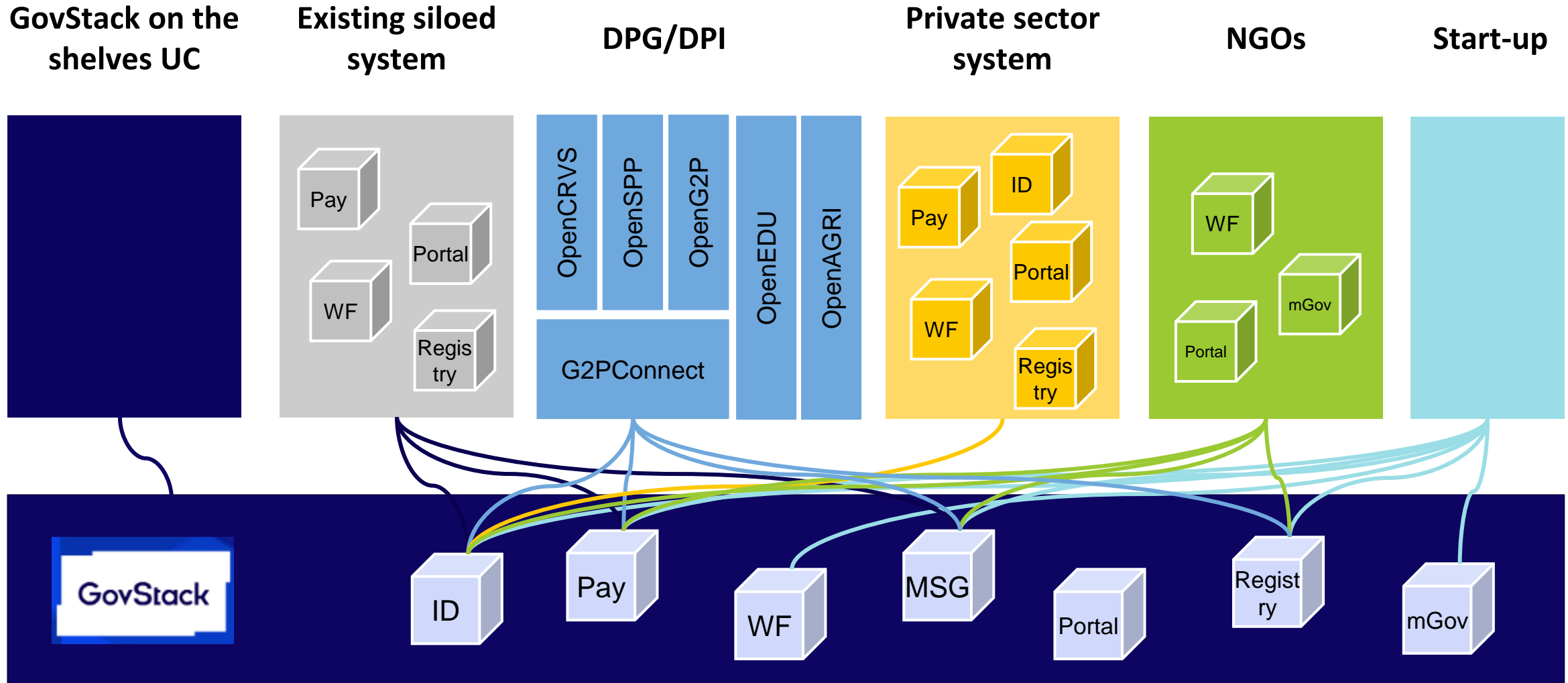
TRAINING TYPE
 Online self-paced

LANGUAGES
 English

<https://academy.itu.int/training-courses/full-catalogue/circular-and-sustainable-public-procurement-icts>

GovStack adapts to existing, to means, to objectives and to context

GovStack



The GovStack Building Block approach has wide-ranging benefits



Speed

Increases speed of delivery by facilitating reuse of core service elements and redirecting resources towards improving citizen outcomes.



Cost-efficiency

Improves procurement efficiency and provides common capabilities cross-departments / -agencies which avoids duplication of efforts, reduces cost to develop new e-gov. services,.



Real economic return

Provides socioeconomic ROI by enabling faster and closer connections from government to addressing needs of citizens and businesses.



ONE government

Enables service delivery that links and invokes different parts of government, providing a connected, consistent and seamless user experience.



Agility + Responsiveness

Enable governments to design and deliver new services quickly to respond to needs and unexpected circumstances (e.g. global pandemic and disasters).



Integration + exchange

Enables integrated transactions and exchange of information across other equivalent stacks and systems through standards and open APIs.



Harmonized policies

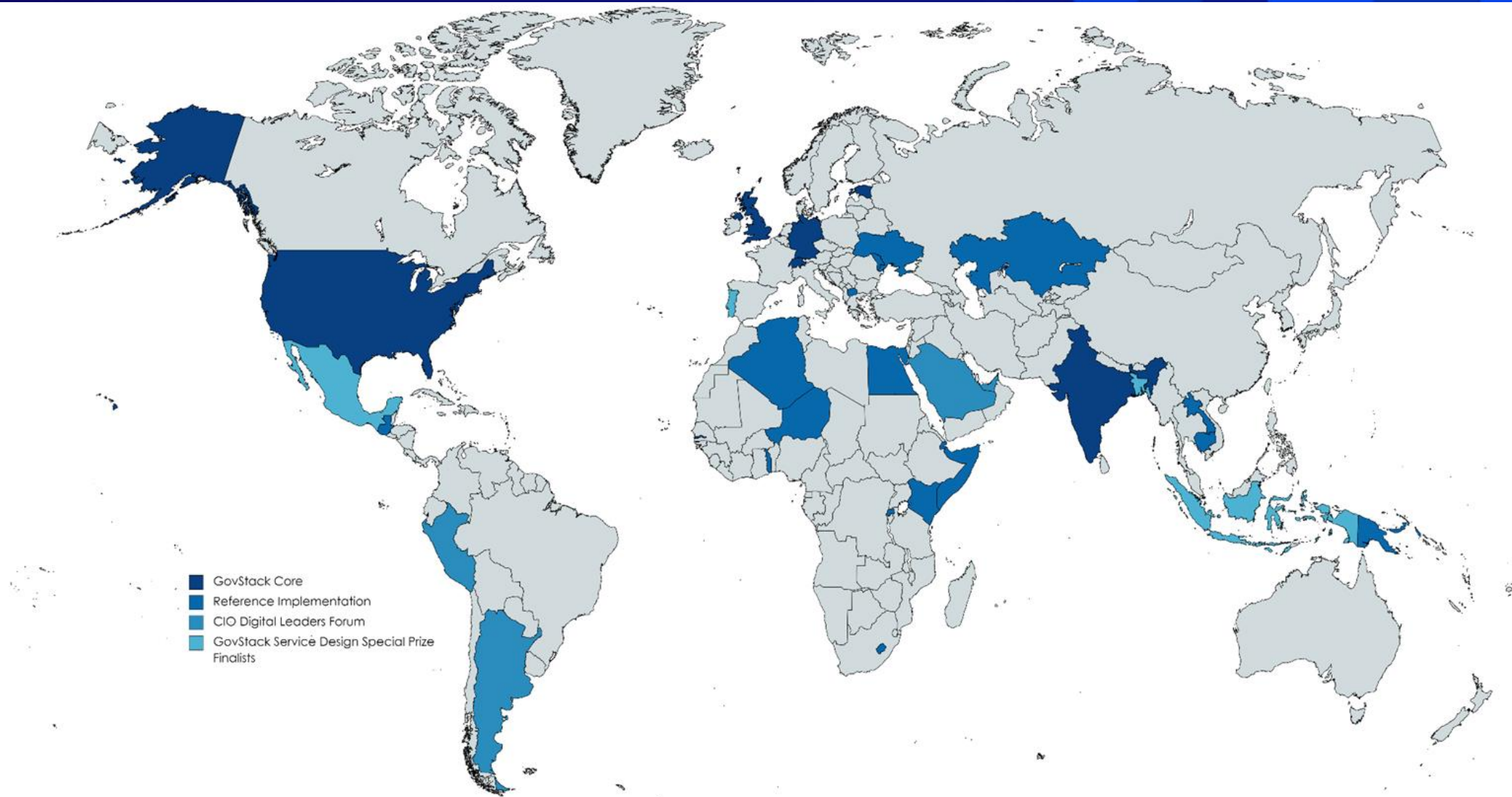
Opens possibilities for aggregation of big data for richer insights that would help develop better nonconflicting policies and monitor operations.



Minimized vendor lock-in

Minimizes product 'lock-in' and allows independent services to run where modular Building Blocks could be replaced without impacting overall experience.

How global is the GovStack approach?

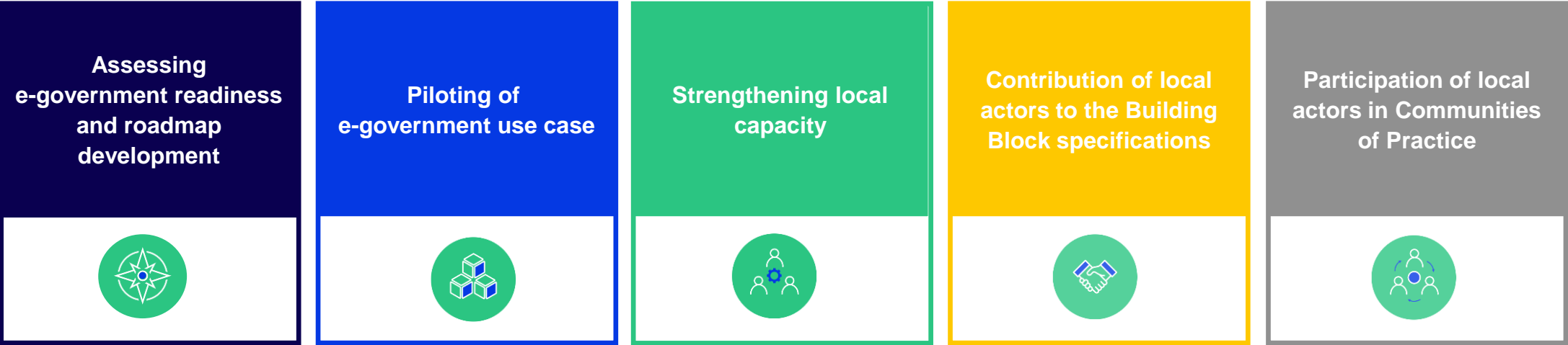


Source: <https://digitalpublicgoods.net/blog/unpacking-concepts-definitions-digital-public-infrastructure-building-blocks-and-their-relation-to-digital-public-goods/>

Current GovStack Partner Countries from...



GovStack Services: We collaborate with governments in the following areas:





Way Forward



GovStack implementation framework strengthens institutional mandate, service design and delivery using a BB approach

GovStack

GOVSTACK CAN BE INCORPORATED INTO POLICY



Digital Transformation Strategy



Digital Government Strategy/Policy/Roadmap



Whole-of-Government Enterprise Architecture

GOVSTACK CAN GUIDE SERVICE DESIGN, PROTOTYPE & SCALING



Service design (Life Events, User Needs, Journey)



Prototyping (Optional in Case of Sandbox)



Procurement



Piloting/Scaling Up

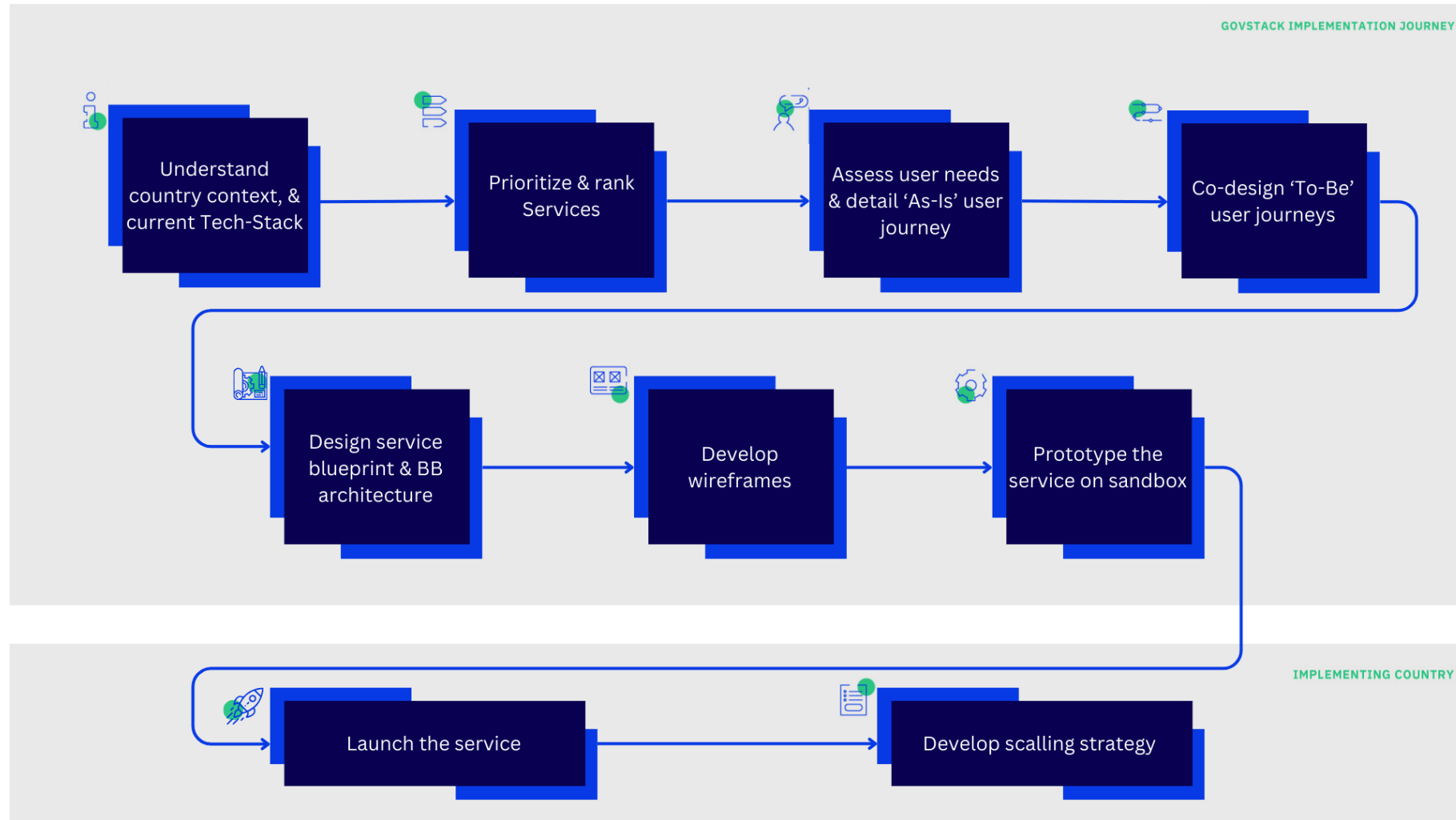
GOVSTACK DESIGN PRINCIPLES

CAPACITY BUILDING AND COMMUNITY ENGAGEMENT
HAPPENS THROUGH IMPLEMENTATION FRAMEWORK

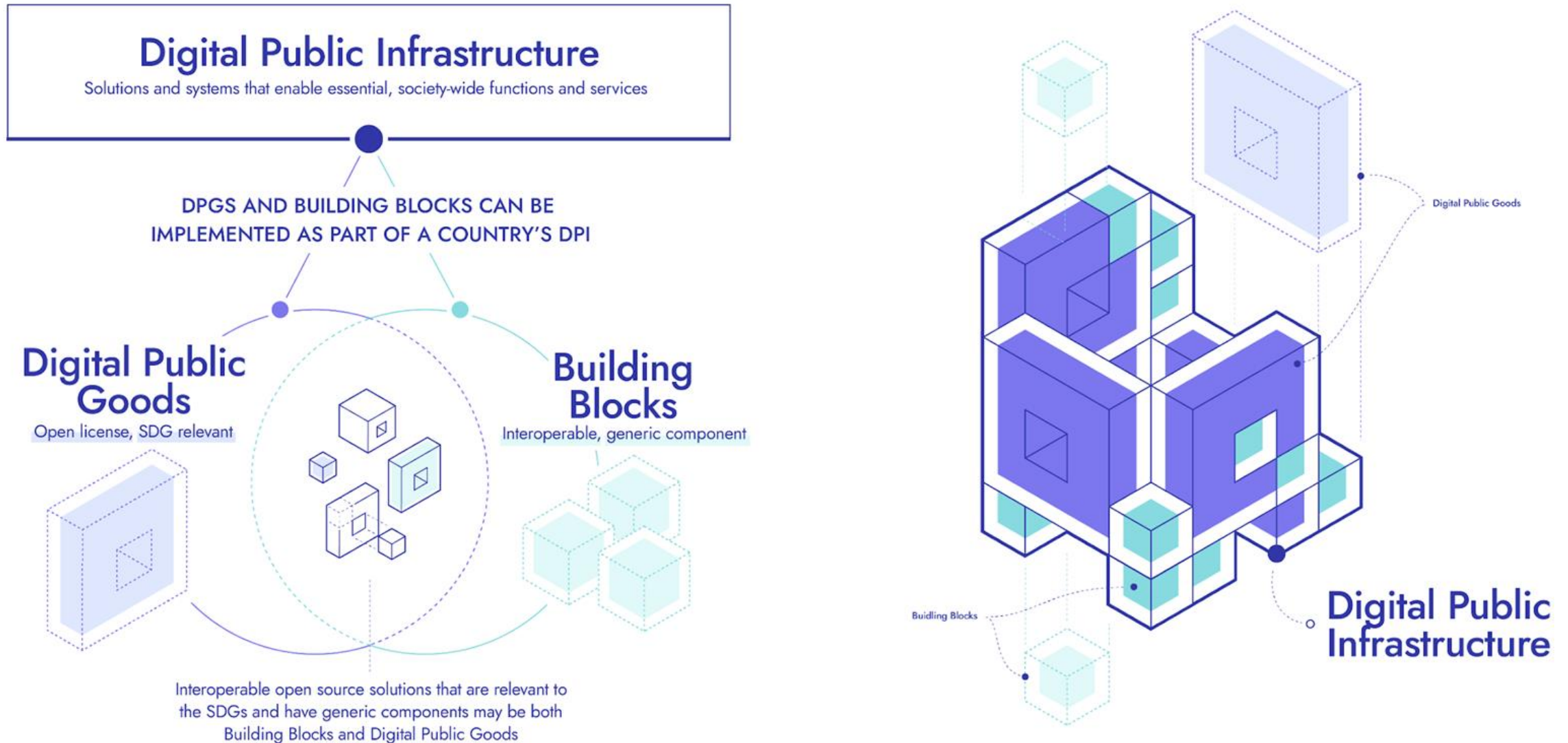


High-level GovStack digital service design and delivery journey

GovStack



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





Thank You!



Case Studies

GovStack Engagement in Horn of Africa (HoA) co-financed by the EU Commission

GovStack



Djibouti



Somalia



Kenya

GIZ local project/ office: GIZ Digital Transformation Center (DTC) Kenya

Duration: 01/2022 - 03/2025



Developing digital government strategies and roadmaps

Development of Digital Readiness Studies and Implementation Roadmaps



Design and Prototyping of e-services

Design and development of priority e-services based on the GovStack approach (Djibouti: eCabinet & Construction Permits, Somalia: Service Catalog & High School Certificates, Kenya: Integrated Case Management Systems)



Strengthening government capacity

GovStack and Change Management capacity development including Training-of-Trainers and on the job coaching



Participation in Communities of Practice

Regional and Global GovStack Communities of Practice

... an **EU D4D cooperation** together w. France, Spain – the International Telecommunication Union (ITU), Digital Impact Alliance (at the UN Foundation) and Estonian Centre for International Development (EstDev)

GovStack Engagement in Ukraine

GovStack



Ukraine

Partner Ministry

Ministry of Digital Transformation
(MDT)

GIZ local project/ office

GIZ Ukraine

Duration: 06/22 – 08/25



**Making Ukrainian e-government
platform GovStack compliant**

The Ukrainian UA.Platform will be converted into a GovStack compliant and added to the GovStack sandbox.



**Further development of Ukrainian
System with GovStack**

GIZ and MinDigital are assessing further needs of the Ukrainian eGovernment system and adapting the GovStack approach.



**Participation in International
Platforms**

Ukrainian stakeholders participate in Communities of Practice, Digital Leaders forums etc. for knowledge and best practice exchange

GovStack Engagement in Egypt

GovStack



Partner Ministry

Ministry of Information and Technology (MCIT)

GIZ local project/ office

GIZ Project “Supporting e-Government and Innovation in the Public Administration (InnoPA)”

Duration: 02/22 – 08/25



Adaption of GovStack Building Blocks

Usage of GovStack Building Blocks as addition to existing systems



Strengthening Ecosystem Capacity

Deep Dive Workshops on the usage of GovStack in the country are held



Participation in International Platforms

Egyptian stakeholders participate in Communities of Practice, Digital Leaders Forums to exchange on best practices

GovStack Engagement in Rwanda

GovStack



Partner Ministry

Ministry of ICT and Innovation
(MINICT) - Rwanda Information
Society Authority (RISA)

GIZ local project/ office

GIZ Digital Transformation Center
(DTC) Rwanda

Duration: 07/22 – 08/25



Prototyping of e-government services

E-government use cases are piloted based on the GovStack approach using the building blocks



Strengthening government capacity

GovStack related capacity development are developed and carried out



Contribution to building block specifications

Rwandan actors are participating in Building Block Working Groups and Technical Review Cycles

GovStack Engagement in Papua New Guinea



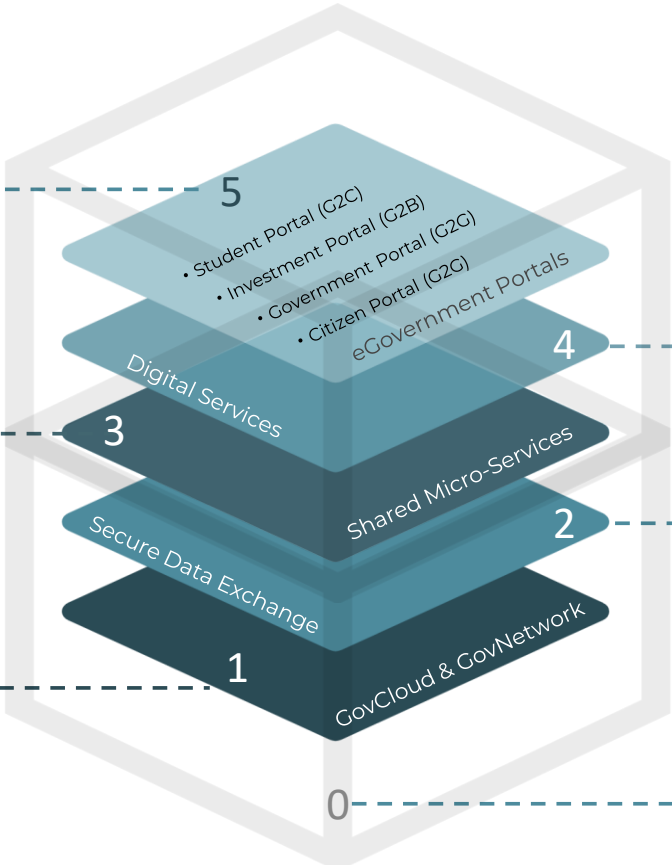
PNG

Partner Ministry
Ministry of ICT, PNG
Duration: OnGoing

EGOVERNMENT PORTALS

SHARED MICRO SERVICES

HOSTING AND COMMS INFRASTRUCTURE



DIGITAL SERVICES

SECURE DATA EXCHANGE

CYBERSECURITY AND GOVERNANCE

Partners



MTDP Projected Allocations:

- ✓ K0.7 billion for Digitalization
- ✓ K0.1 billion for Cybersecurity
- ✓ K1.7 billion for Digital Infrastructure
- ✓ 3 - 4 % Earmarked Annually for Digital Government

GovStack Engagement in Papua New Guinea



PNG

Partner Ministry
Ministry of ICT, PNG
Duration: OnGoing

