



Empowering societies to
chart their digital futures



REPUBLIC OF ESTONIA
MINISTRY OF FOREIGN AFFAIRS



Bundesministerium für
wirtschaftliche Zusammenarbeit
und Entwicklung



digital
impact
alliance

GovStack: Who we are

GovStack

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.



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giz Deutsche Gesellschaft
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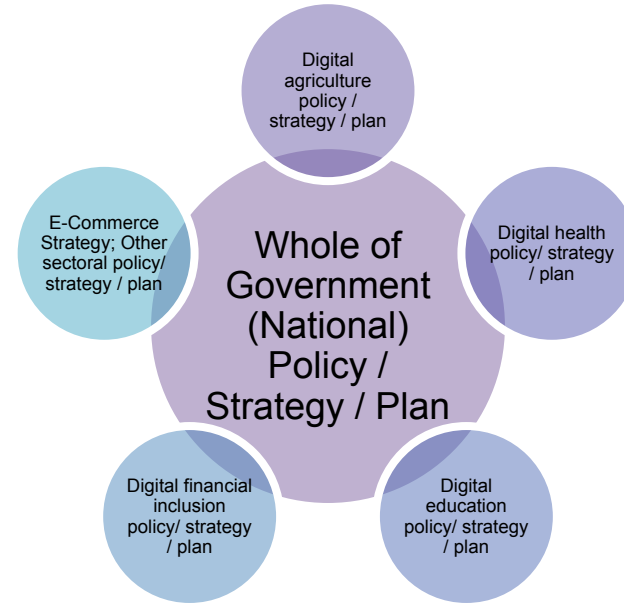
Whole-of-government approach for digital development



SDG

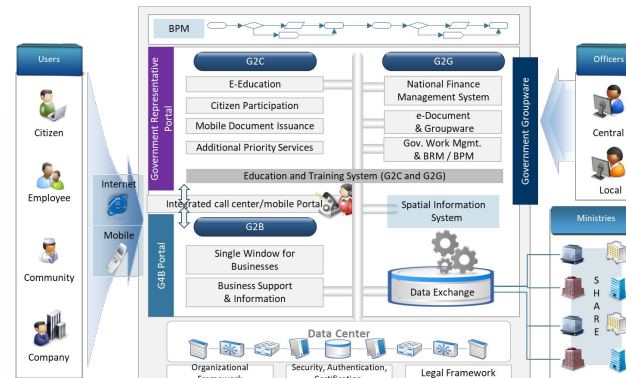


National Vision and SDG implementation plan

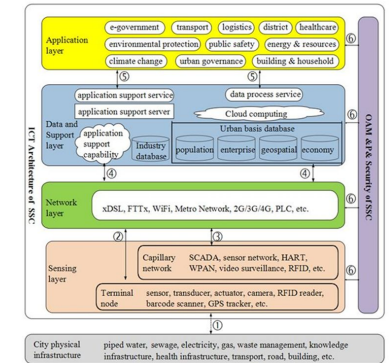


Legislations
Regulations

Customized
planning



Smart city



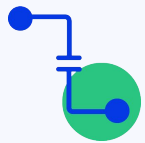
Smart village



Smart Islands



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.

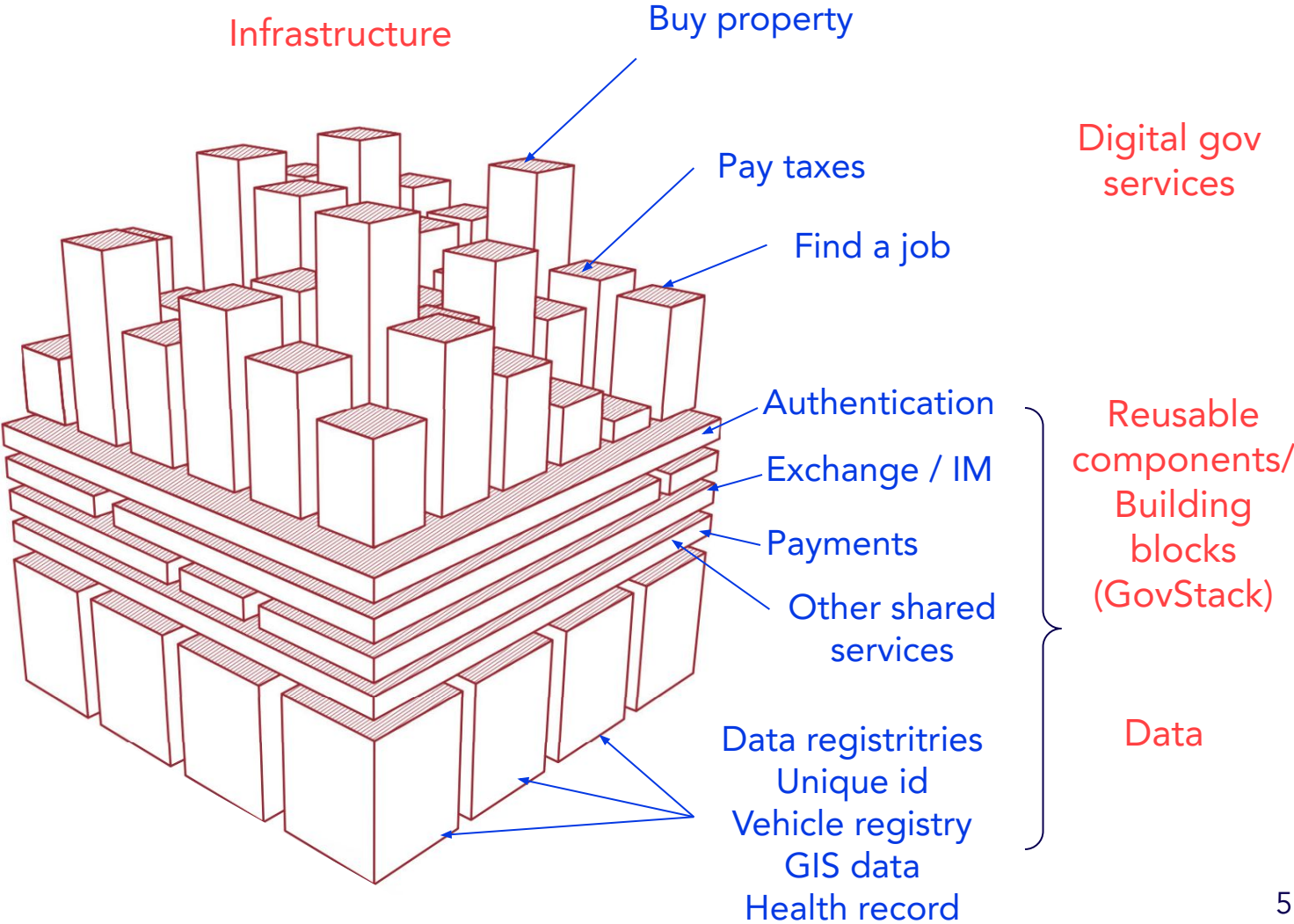
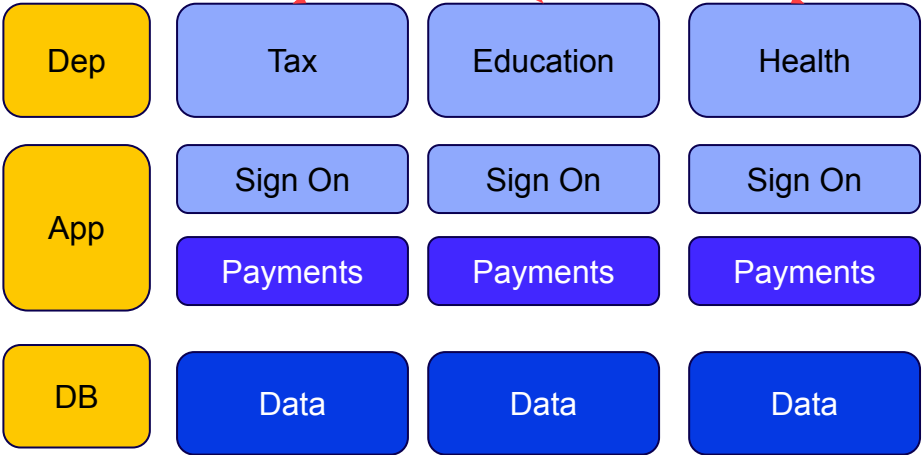


COORDINATION

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

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

Silo investments, duplication of functionalities



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)



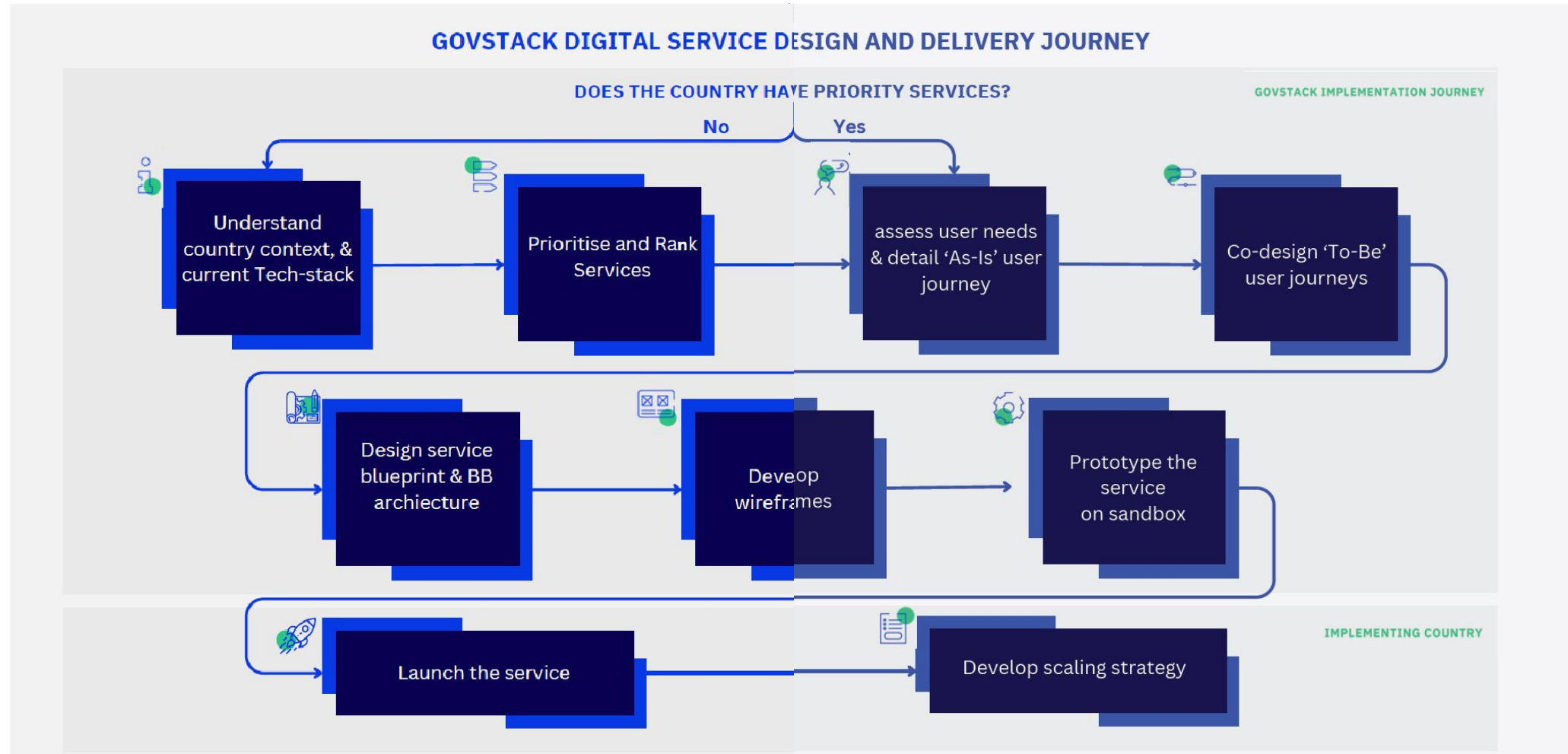
Procurement



Piloting/Scaling Up



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



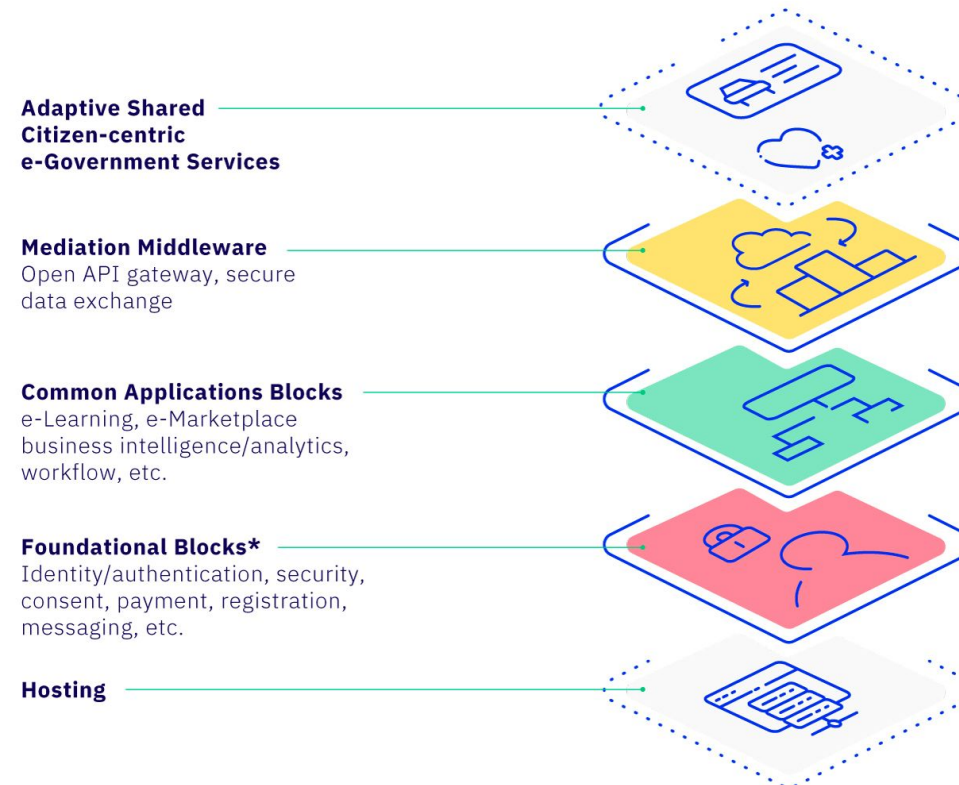
GovStack's Whole-of-Government approach

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.

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.

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



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

Designing e-government services with generic Building Blocks

What are *Building Blocks*?

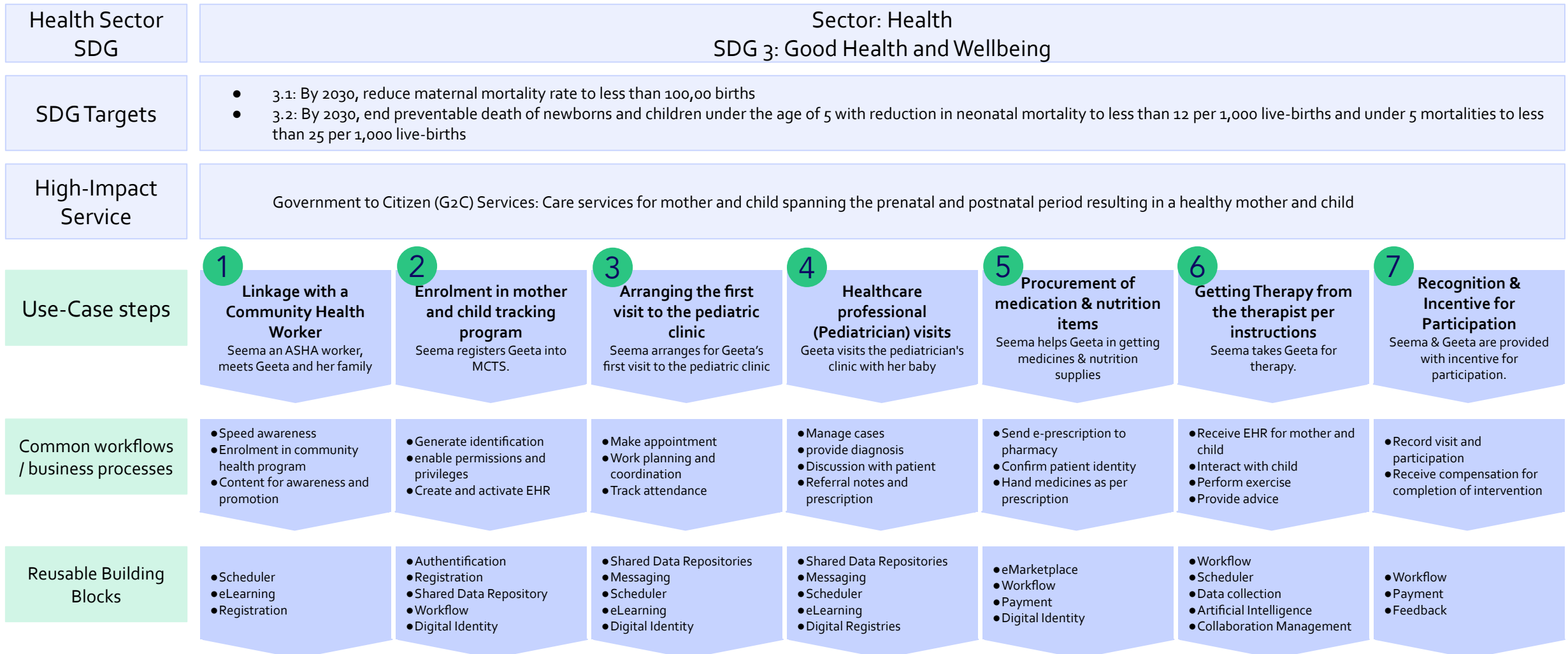
Generically-defined software components that in combination provide key functionalities to facilitate generic workflows common across multiple sectors.

What are their characteristics?

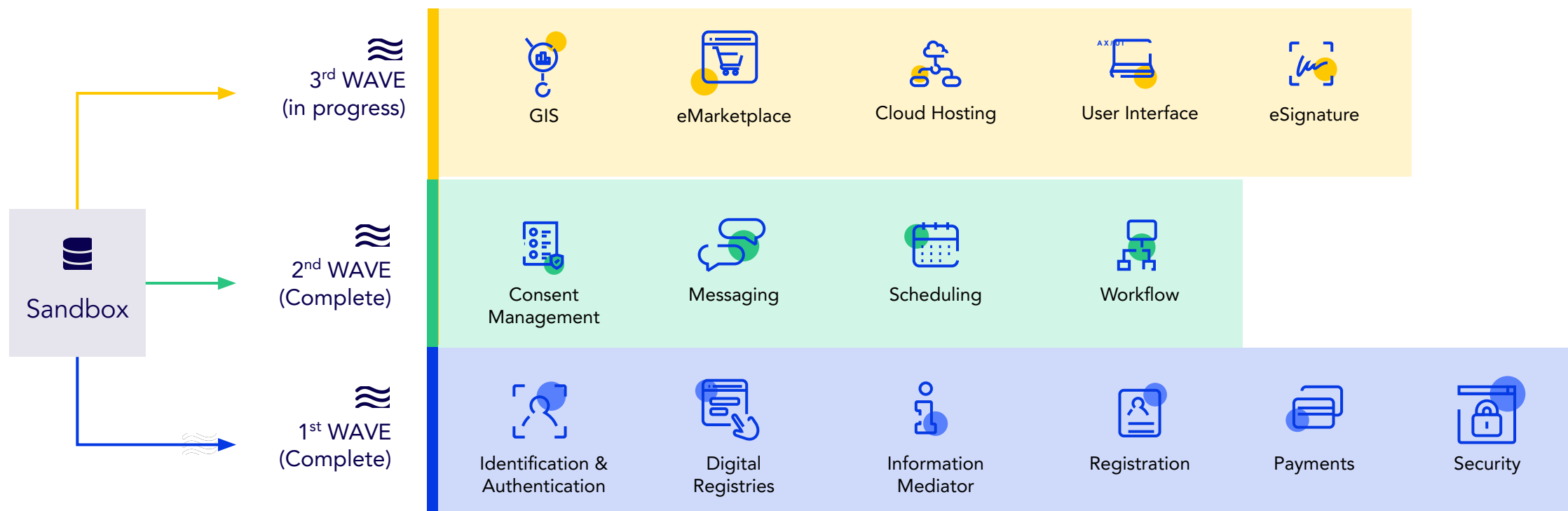
- Reusable software components
- Open-source, commercial off-the-shelf (COTS), or freely available with open access to data
- Facilitate one or more generic op. workflows
- Applicable to use cases across multiple sectors
- Interoperable with other Building Blocks
- Secure by design, standards-based and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

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



GovStack Building Blocks are released in waves



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

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.

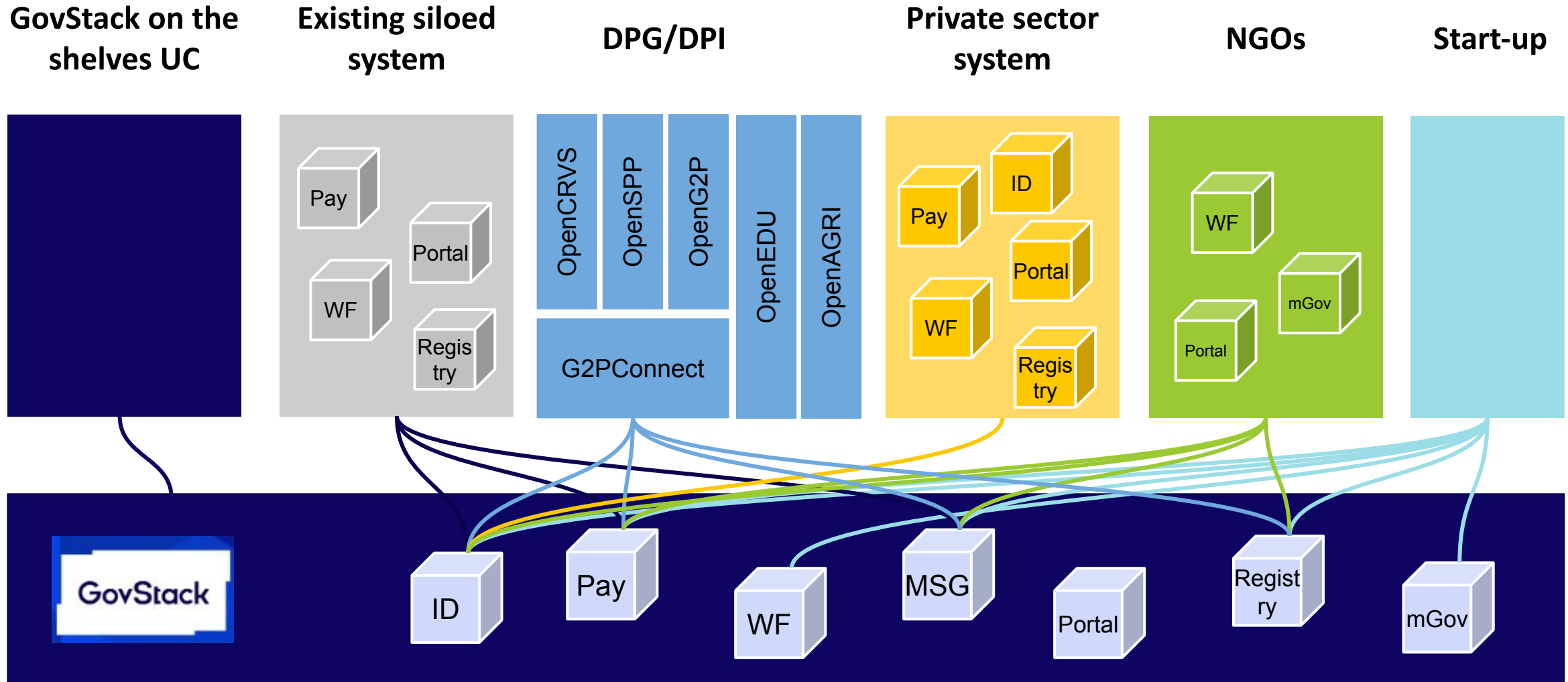


Minimized vendor lock-in

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

Adapt to existing, to means, to objectives and to context

GovStack

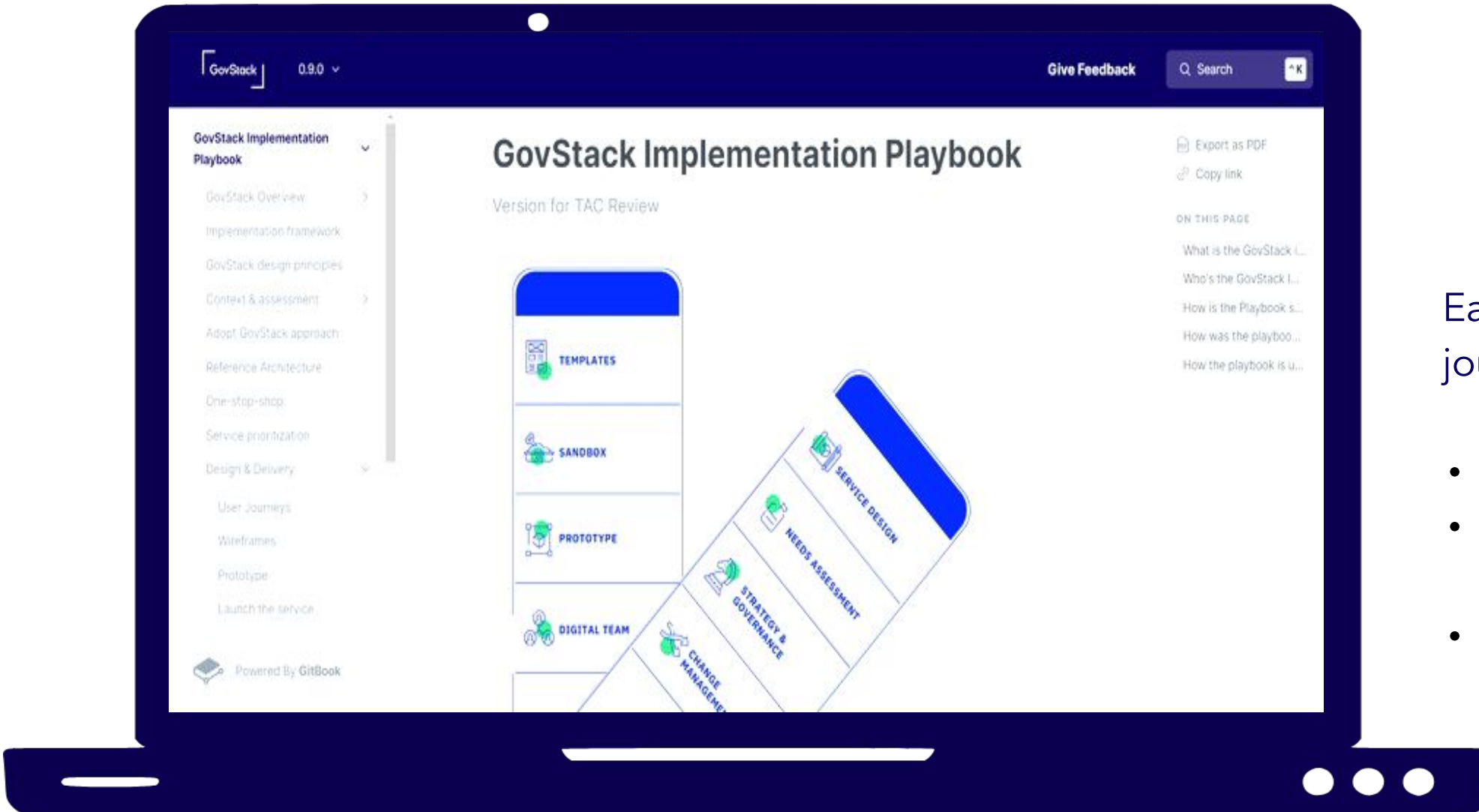


GovStack Implementation Playbook: a step-by-step guide to digital service design using the Building Block approach



Each **step** within the journey describes of:

- Activities/Resources
- Digital teams roles & responsibilities
- Deliverables








Current GovStack Partner Countries from...

 Egypt	 Rwanda	 Kenya	 Togo
 Somalia	 Djibouti	 Ukraine	 Senegal

 Algeria	 Argentina	 Mauritania	 Sierra Leone	 Peru
 Papua New Guinea	 Bangladesh	 Lao PDR	 Cambodia	 ASEAN

Several other interests

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

<p>Assessing e-government readiness and roadmap development</p> 	<p>Piloting of e-government use case</p> 	<p>Strengthening local capacity</p> 	<p>Contribution of local actors to the Building Block specifications</p> 	<p>Participation of local actors in Communities of Practice</p> 
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GovStack offerings

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.



Thank You!