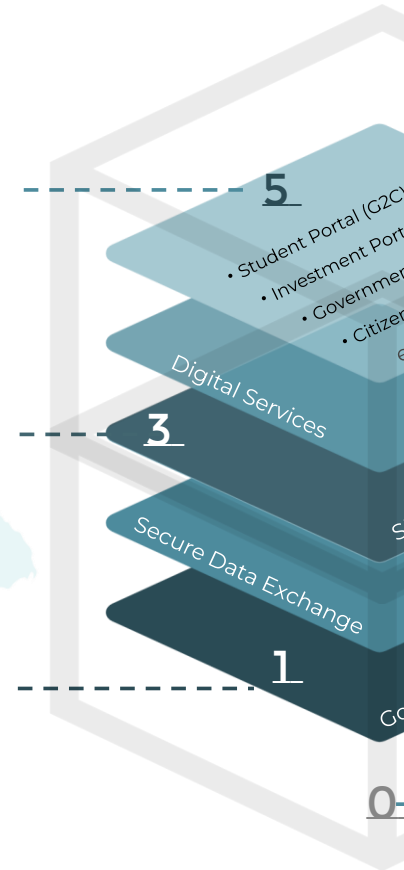# GoPNG TECHNOLOGY STACK

'a framework to guide the use of technology and enabling a digital government for Papua New Guinea'

PNG Department of Information and Communications Technology

5

Student Portal (G2C)
• Investment Port
• Governmen
• Citizen

Digital Services

3

Secure Data Exchange

1

0

[DEFINING GOVPNG TECH STACK]

'a framework to guide the use of technology therefore enabling a digital government for Papua New Guinea'

Better Experience
enable fast, simple, and easy service for people, government and business

Whole-Of-Government Approach
enable seamless integration across all public systems and standardising where necessary

Smart and Fast Deployment
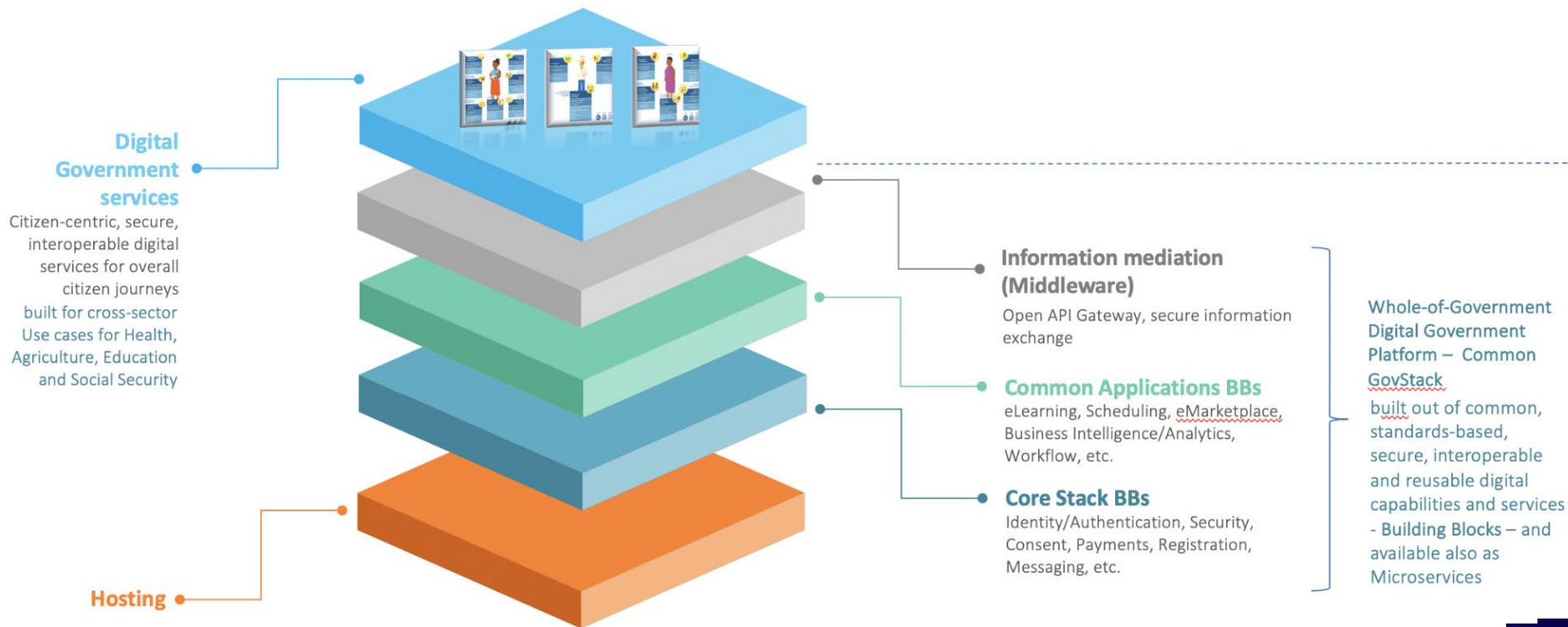adopt 'building block' approach to reduce investment duplication and scale faster

Pacific First
Built to support and share for a unified pacific.

[ITU GOVSTACK]

Digital Government services
Citizen-centric, secure, interoperable digital services for overall citizen journeys built for cross-sector Use cases for Health, Agriculture, Education and Social Security

Hosting

Information mediation (Middleware)
Open API Gateway, secure information exchange

Common Applications BBs
eLearning, Scheduling, eMarketplace, Business Intelligence/Analytics, Workflow, etc.

Core Stack BBs
Identity/Authentication, Security, Consent, Payments, Registration, Messaging, etc.

Whole-of-Government Digital Government Platform – Common GovStack built out of common, standards-based, secure, interoperable and reusable digital capabilities and services - Building Blocks – and available also as Microservices
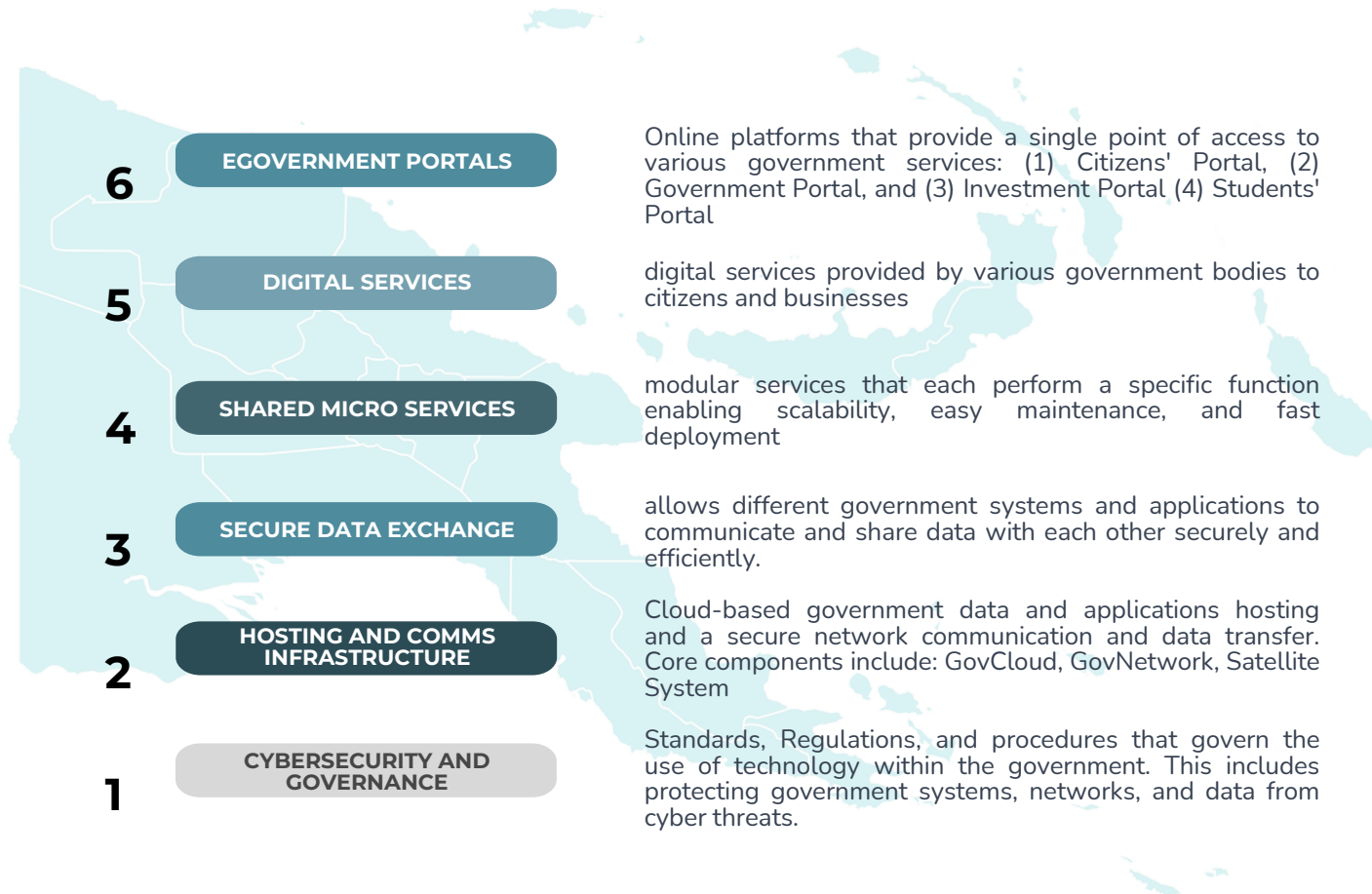
A WoG Digital Government Platform is a "platform of platforms" that can be used by any government agency, department across different sectors to build new government digital services without having to design, test and operate the underlying systems and infrastructure themselves.
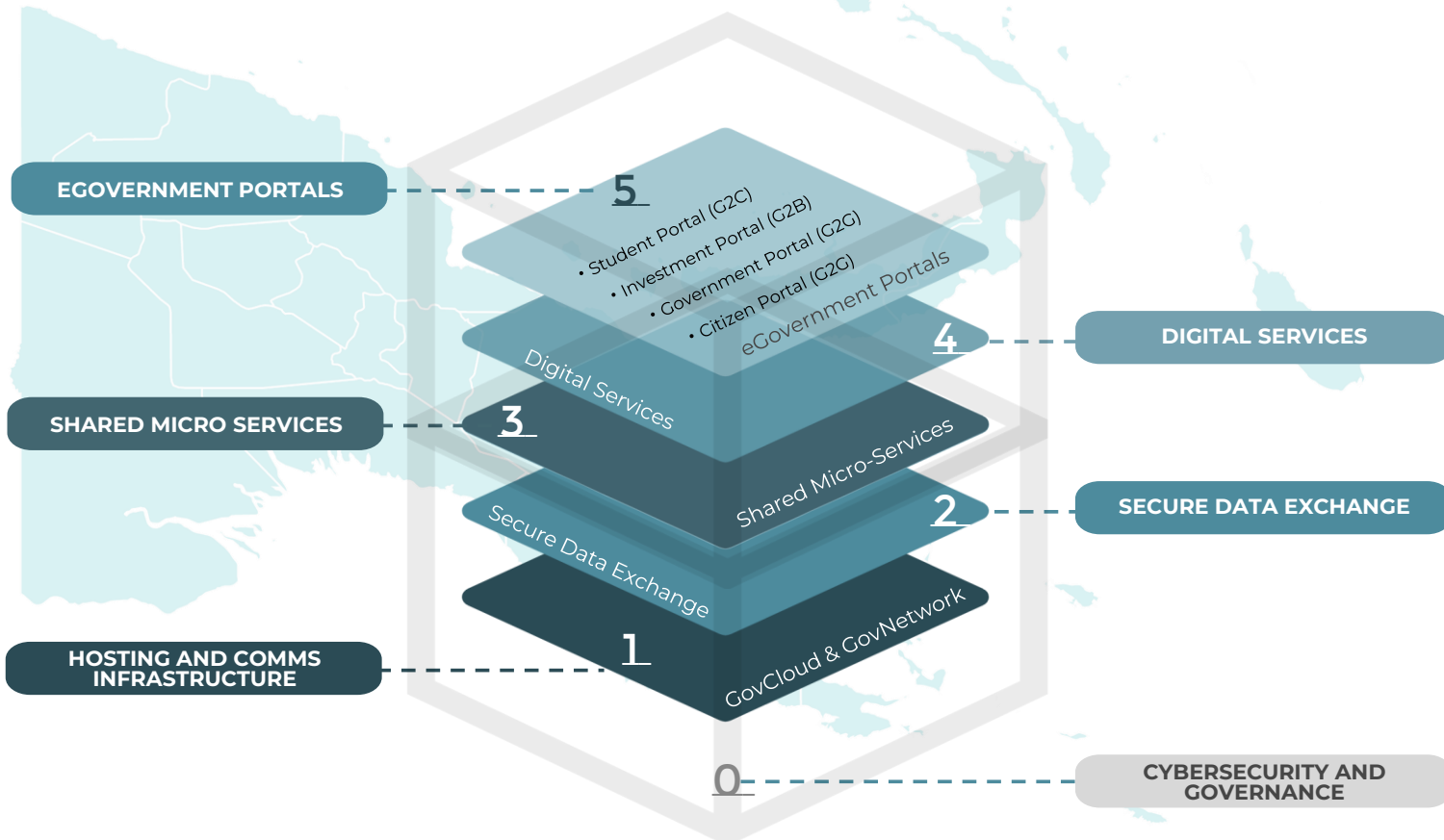
[DEFINING GOVPNG TECH STACK]

6 | **EGOVERNMENT PORTALS** | Online platforms that provide a single point of access to various government services: (1) Citizens' Portal, (2) Government Portal, and (3) Investment Portal (4) Students' Portal

5 | **DIGITAL SERVICES** | digital services provided by various government bodies to citizens and businesses

4 | **SHARED MICRO SERVICES** | modular services that each perform a specific function enabling scalability, easy maintenance, and fast deployment

3 | **SECURE DATA EXCHANGE** | allows different government systems and applications to communicate and share data with each other securely and efficiently.

2 | **HOSTING AND COMMS INFRASTRUCTURE** | Cloud-based government data and applications hosting and a secure network communication and data transfer. Core components include: GovCloud, GovNetwork, Satellite System

1 | **CYBERSECURITY AND GOVERNANCE** | Standards, Regulations, and procedures that govern the use of technology within the government. This includes protecting government systems, networks, and data from cyber threats.

DIGITAL GOVERNMENT – A WHOLE OF GOVERNMENT APPROACH TO THE USE OF TECHNOLOGY

EGOVERNMENT PORTALS

5

- Student Portal (G2C)
- Investment Portal (G2B)
- Government Portal (G2G)
- Citizen Portal (G2G)

eGovernment Portals

4 DIGITAL SERVICES

Digital Services

SHARED MICRO SERVICES

3

Shared Micro-Services

2 SECURE DATA EXCHANGE

Secure Data Exchange

HOSTING AND COMMS INFRASTRUCTURE

1

GovCloud & GovNetwork

0 CYBERSECURITY AND GOVERNANCE

Partners

ITU   Gov Stack

Digital Transformation Journey | The Independent State of Papua New Guinea