



LEVERAGING ON DIGITAL ID AS A DIGITAL PUBLIC INFRASTRUCTURE FOR ECONOMIC GROWTH

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OUTLINE



The Vision



Policy Interventions



Structural Reforms



Technology Adoption Approach



Deploying Digital ID as Digital Public Infrastructure



Takeaways



DIGITAL TRANSFORMATION VISION

*‘Digital transformation that makes government **more effective, improves service delivery, and fosters inclusive social and economic development** because of a smart, networked and well-informed society’*



WORKING BACKWARD FROM THE VISION

- Structural Reforms
- National Budget Alignment

2022

- Leased Government Cloud Established
- National Cyber Security Centre deployed

2023

- ✓ Digital Services Rolled Out
- ✓ eGov Portal Deployed
- ✓ Innovation Hub Launched

2024

- ✓ PNG 50th Anniversary
- ✓ eGov Portal Matures

2025

- Paperless Government
- Cyber Resilience Matures
- AI Government

2026

- eVoting
- K200b GDP

2027



POLICY INTERVENTIONS

Apex Policy	Digital Transformation Policy 2020									
Legislation	National Broadcasting Act 1989	National ICT Act 2009	Digital Government Act 2022							
Policy Components	1 DIGITAL INFRASTRUCTURE	1 DIGITAL INFRASTRUCTURE	1 DIGITAL INFRASTRUCTURE	2 DIGITAL GOVERNMENT	3 CYBERSECURITY AND ESAFETY	4 DIGITAL SKILLS	5 INNOVATION & ENTREPRENEURISM	6 FINANCIAL INCLUSION		
Enabling Policy		National ICT Policy 2008	Government Cloud Policy	Digital Transformation Policy 2020	National Cybersecurity Policy 2021	Data Governance and Protection Policy 2024		Draft ICT Cluster Policy		
Enabling Strategy					National Cybersecurity Strategy				Financial Inclusion Strategy 2023	
Enabling Action Plans	NBC Corporate Plan 2023-2027	NICTA Corporate Plan 2022-2026	Digital Government Plan 2023-2027	Digital Government Plan 2023-2027	National Cybersecurity Plan	Digital Government Plan 2023-2027	Digital Government Plan 2023-2027	Digital Government Plan 2023-2027	Digital Government Plan 2023-2027	



MACRO POLICY ALIGNMENT

LONG TERM VISION

Vision 2050

LONG TERM PLAN

Development Strategic Plan 2030

MEDIUM TERM PLAN

MTDP 2023 -2027

MEDIUM TERM STRATEGIC
PRIORITY AREAS

Connect PNG

National Security

Digital Government

DIGITAL TRANSFORMATION
POLICY ALIGNMENT

Digital Infrastructure

Cybersecurity and
eSafety

Digital Government



GOVERNANCE FRAMEWORK



National Executive Council

Central Agency Coordinating Committee

Ministerial Economic
Committee

Ministerial Committee for ICT

Public Service ICT Steering Committee

Digital Transformation
Officers

Department of ICT

Project Management Office

PNG ICT Clusters

Universities



LEGAL FRAMEWORK: DIGITAL GOVERNMENT ACT 2022

Digital Services

- eGovernment Portals
- Shared Digital Services

Data Governance & Protection

- Data Management
- Secure Data Exchange Platform

Standards,
Compliance and
Accreditation

Digital Infrastructure

- National Electronic Data Bank
- Government Private Network
- Government Leased Cloud

Cybersecurity

- National Cyber Security Centre
- Data Security



STRUCTURAL REFORMS



Office of Information & Communication (1:1)

- Information Services

Department of ICT (1:5)

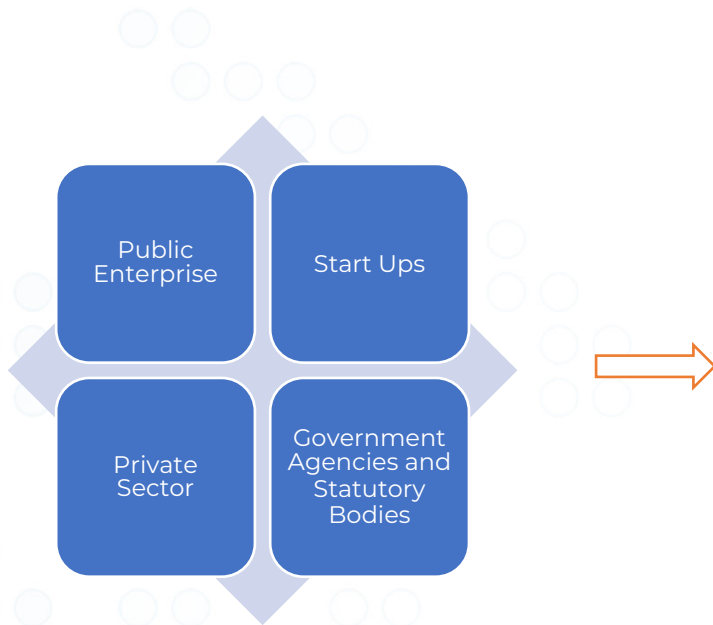
- Cyber Coordination/Services
- GovCloud Services
- Interoperability Services
- eGov Portal
- Digital Gov. Standards

Department of Digital Development & Information (1:10)

- Digitalization Coordination
- Digital Gov. Compliance



Implementing Agencies



- Department ICT
- PNG DataCo
- Datec PNG
- Telikom
- Kumul Technology Development Corporation
- PNG ICT Cluster
- National Cybersecurity Centre
- National Broadcasting Corporation



PRINCIPLES FOR GOVPG 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



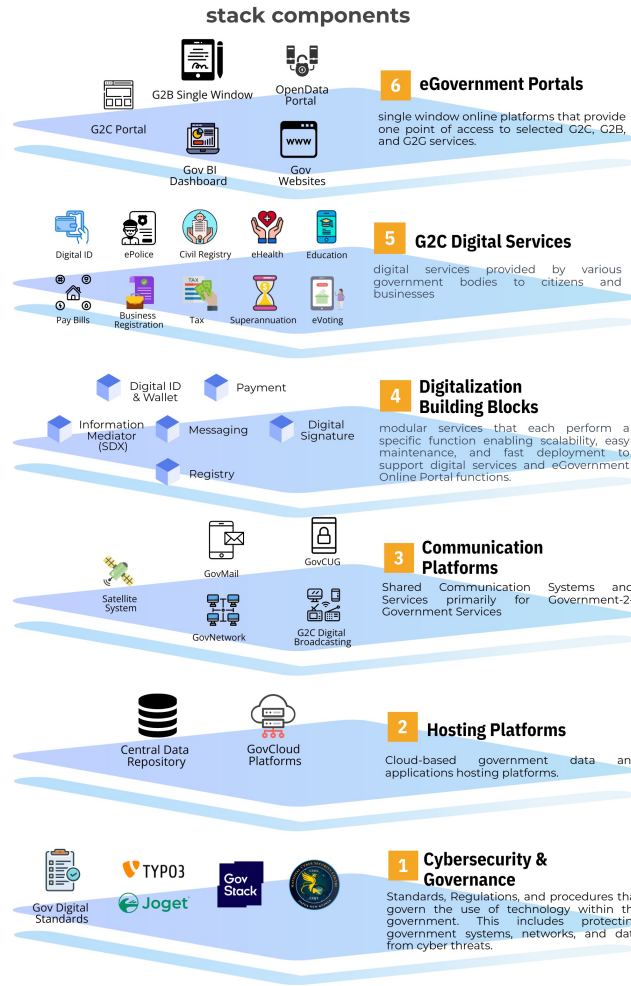
Pacific First

Built to support and share for a unified pacific.



GovPNG Tech Stack & Implementation Framework

- A national framework to guide the use of technology therefore enable a digital government for Papua New Guinea
- Developing an Inclusive implementation framework to which all stakeholders can participate



implementing agencies

KUMUL TECHNOLOGY DEVELOPMENT CORPORATION

datec

KUMUL TECHNOLOGY DEVELOPMENT CORPORATION



Updated July 2024



Immediate Implementation Since 2022

Cybersecurity & Standards

- ✓Established NCSC and CSOC
- ✓75 government agency networks, 4,000 email users, and 1,000 endpoint devices
- ✓Gazetted Digital Standards: Domain Name, Website, Email, etc
- ✓GCI Ranking Improved from Tier 5 to Tier 3.

Hosting Platforms

- ✓Established Register for Cloud Service Providers
- ✓Established Government Cloud Infrastructure
- ✓Hosting over 150 Agency IP address, (standardized) domain names, and websites

Cybersafety

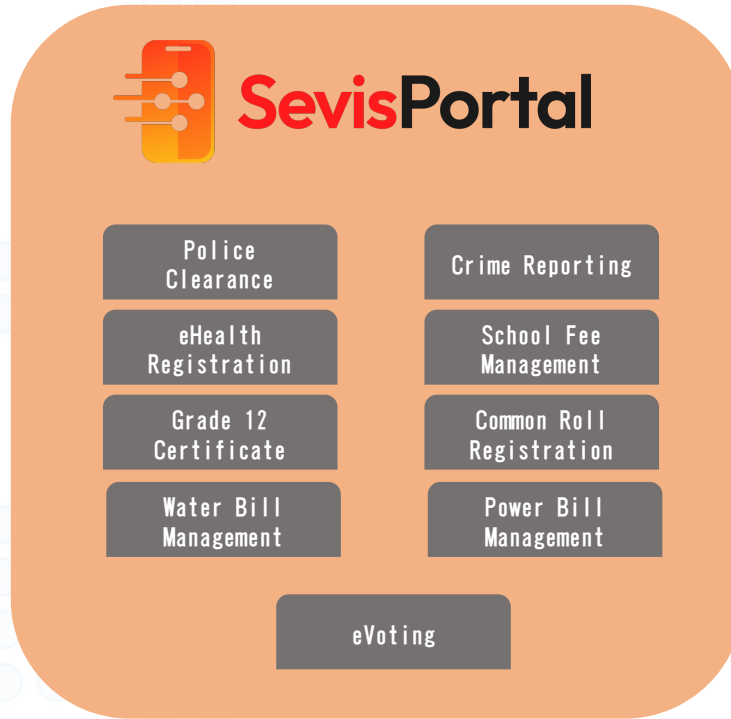
- ✓Established Social Media Management Desk
- ✓Monitor Misinformation and Report to Enforcement Agencies.

Digitalization Building Blocks

- ✓Established a DevOps Division
- ✓Deployed Pilot Digital ID
- ✓Deployed Pilot Citizens' Portal
- ✓Deployed Pilot Digital Wallet



G2C DPI ECOSYSTEM



Internet
Payment Gateway





EXAMPLE – ACCESSING BANKING SERVICES



Visit Local Bank



Wait in line



Produce 2-3 forms of physical ID



Fill out the forms



Pay Account Opening Fee

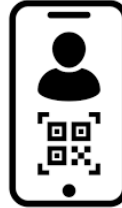
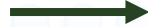


Bank Account Opened and Card Issued



Service commenced

EXAMPLE – OPENING A NEW BANK ACCOUNT



Download
SevisWallet App
and Self-Register
Digital ID

Access Banking
App and Scan
SevisPass to
Verify ID

Access
Service on
Banking App



LEVERAGING DPI ACROSS PUBLIC AND PRIVATE SECTOR



DPI

Use Cases

Users

 **SevisPass**
(Digital ID-as-a-Service)



eKYC	Authentication	Single-Sign-On
Consent Management	Digital Signature	Role Based Access



Banks
Savings and Loans

 **SevisWallet**
(Wallet-as-a-Service)



Digital ID	Personal Credentials
Payment Options	Loyalty Programs



Telcos
Public Bodies
Healthcare Providers

 **SevisPortal**



150 G2C Digital Services



Retailers



TIERED APPROACH FOR DIGITAL ID



Tier Level	Description	Data Required at Registration	Assurance Level Requirement
Tier 1	Basic Identification	<ul style="list-style-type: none">• Name• Date of birth• Place of residence	Low assurance (Minimal verification through local/ community authority)
Tier 2	Intermediate Identification	<ul style="list-style-type: none">• Personal details from government-issued provisional/temporary IDs• Proof of postal/residential address• Basic biometric data (e.g., facial recognition)	Moderate assurance (Verification with temporary IDs and community verification)
Tier 3	Full Identification	<ul style="list-style-type: none">• Full government-issued ID (e.g., passport, national ID, driver's license)• Proof of postal/residential address• Comprehensive biometric data (e.g., fingerprints, iris scan)	High assurance (Strong verification against official records and biometric checks)
Tier 4	Enhanced Due Diligence	<ul style="list-style-type: none">• Full government-issued ID• Proof of residential address• Detailed biometric data• Documentation of source of income/wealth• Background checks against AML/CFT databases	Very high assurance (Extensive verification and continuous monitoring)

INVESTING IN AND COMMERCIALIZING DPIS (DIGITAL ID AND PAYMENT INFRASTRUCTURE)



2nd October 2024 – Signing of KCH-DICT MOU to establish Kumul Technology Development Corporation as Digital Public Infrastructure Investment Arm

- Public Subsidiary **Kumul Technology Development Corporation Ltd** has been established to deploy Digital ID, Payment, and the Service Portal as a DPI
- KTDC will be the commercial arm for driving digital technology innovation and operating Digital Public Infrastructure.



IMMEDIATE TARGETS FOR 2024 - 2025



- ❑ Phase 1:
 - ❑ Pilot at 1,000 SevisPass users
 - ❑ Pilot SevisPortal with 7 Services
- ❑ Phase 2:
 - ❑ Scale to 10,000 SevisPass Users
 - ❑ Improve existing 7 services
- ❑ Phase 3:
 - ❑ Scale to 1,000,000 SevisPass Users
 - ❑ Partner with Banks and Supers
 - ❑ Increase to 15 services
 - ❑ eVoting Capability



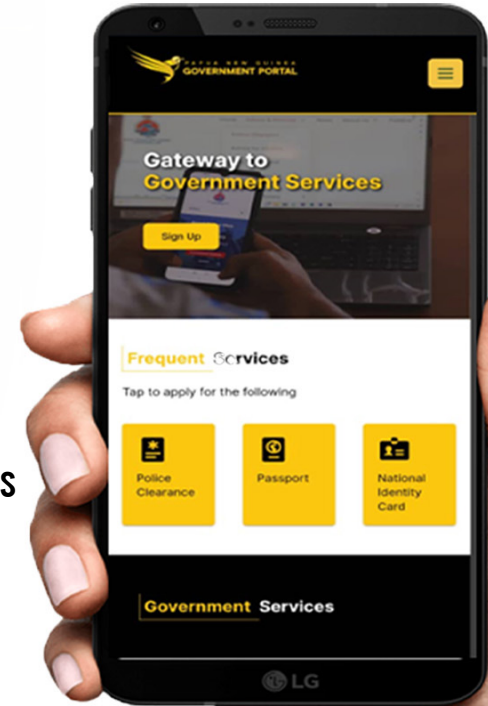
SevisPortal



SevisPass



SevisWallet



DPI ECONOMIC TARGETS BY 2027



DIGITAL SERVICE TARGETS FOR 2027

- 85%–90% 4G and 30% 5G connected
- 8 million digital ID issued
- 5 million with bank account
- 150 digital services offered
- eVoting in 2027

ECONOMIC TARGETS FOR 2027




- 30%–50% annual increase in Non-Tax Revenue
- 20% annual increase to GST
- KCH Subsidiary that grosses K1 billion



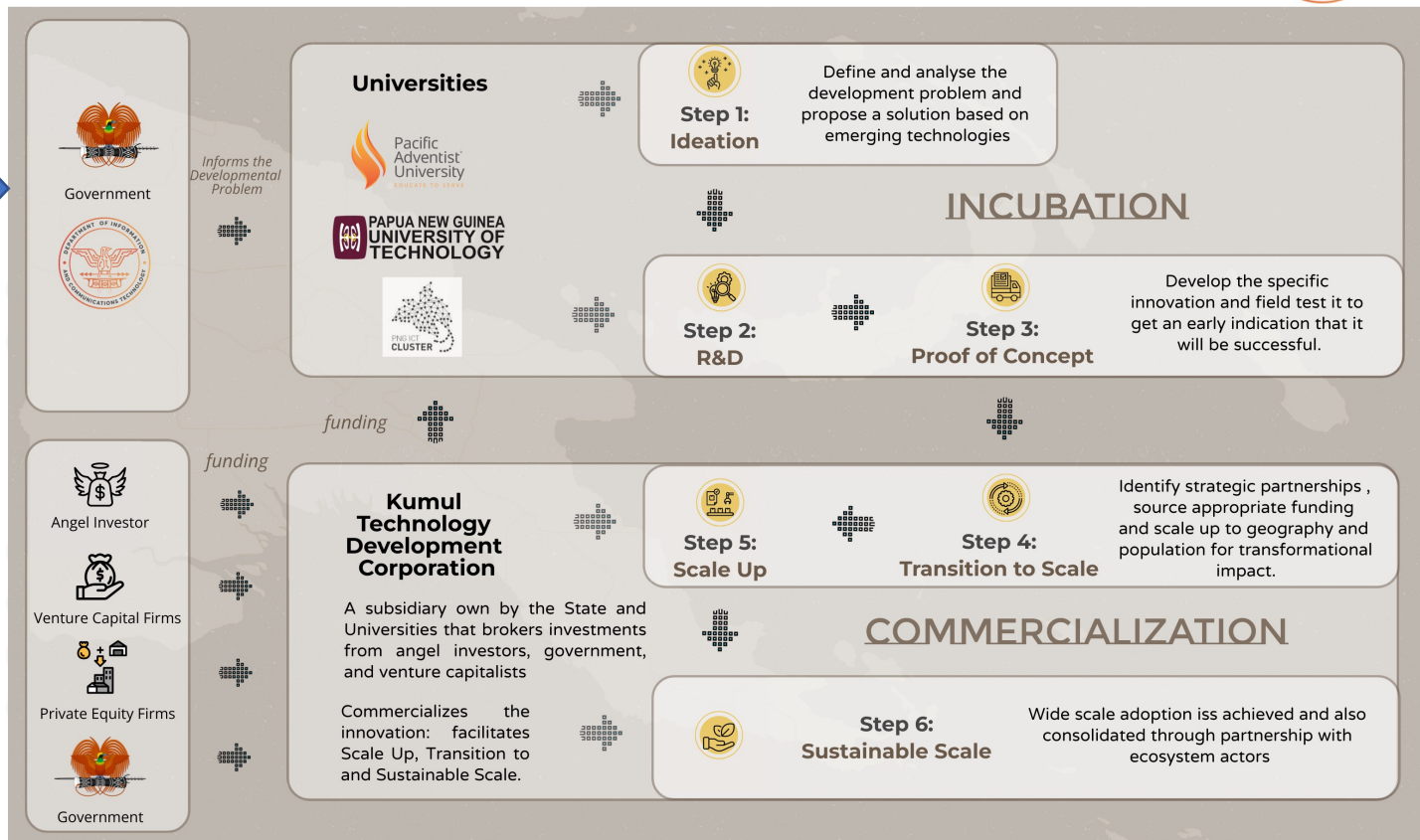
MAPPING OUT A INNOVATION ECOSYSTEM TO DRIVE SUSTAINABLE DIGITAL TRANSFORMATION



- Digital ID-as-a-Service
- Wallet-As-a-Service
- Interoperability-as-a-Service

- Cloud Technology
- Blockchain Technology
- Cybersecurity
- Generative AI
- Digital Public Infrastructure





TAKE AWAYS



- Digital Public Infrastructure including Digital ID, Payment and Interoperability are foundational aspects of the economy.
- Policy and legal frameworks around Digital Infrastructure, Cybersecurity, and Data Governance, are necessary enablers to deploying digital public infrastructure.
- Digital Public Infrastructure offers are strategy for sustainability and commercialization.
- Investment in Digital ID will be the next step.