

# Rekomendasi Peta Jalan Transformasi Digital Indonesia

Dewan TIK Nasional

Versi 1.0 - Juli 2020



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# Worldwide Digital Transformation



# How Ready Is Indonesia To Implement Digital Transformation

## Legal Basis

### Perpres No. 96/2014 tentang Rencana Pitalebar Indonesia

- **Objective:** 1) encourage economic growth and increase national competitiveness; (2) supports the improvement of the quality of Indonesian human resources; and (3) Enforce national sovereignty.
- **Key Mandated Agencies:** KOMINFO, WANTIKNAS

### Perpres No 95/ 2018 tentang SPBE

- **Objective:** implementation of integrated e-government systems
- **Key mandates:** all government agencies to develop enterprise architecture that intertwines from one to another; establish a national coordination team; co-use IT systems
- **Key Mandated Agencies:** MENPAN-RB, KOMINFO, BAPPENAS

### Perpres No 39/ 2019 tentang kebijakan Satu Data

- **Objective:** production and dissemination of quality data with high integrity
- **Key mandates:** agencies to comply with data governance, ensuring data adhere to standards, standardized metadata and interoperability format
- **Key Mandated Agencies:** BAPPENAS, BPS, BIG, KOMINFO

### Perpres No. 18/2020 tentang RPJMN 2020-2024

- **Objective:** sustainability and equitable economic growth, and improving the quality of social and environmental life
- **Key Mandated Agencies:** BAPPENAS, KOMINFO

# How Ready Is Indonesia To Implement Digital Transformation (Cont'd)

## Potensi yang dimiliki

## Keadaan yang terjadi sekarang

### POTENTIAL ANNUAL ECONOMIC VALUE IDR TRILLION, 2017 AND 2030 (HIGH-END SCENARIO)

THE POTENTIAL ECONOMIC VALUE IN 2030 IS  
EQUIVALENT TO 9% OF INDONESIA'S PROJECTED GDP



VS



Rendahnya literasi digital



Tidak meratanya ketersediaan infrastruktur telekomunikasi yang menyebabkan terjadinya kesenjangan digital

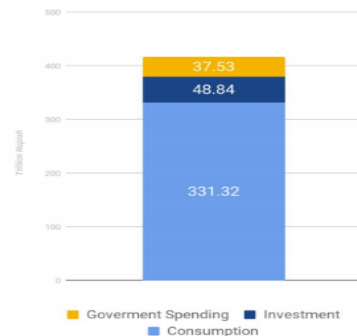


Biaya akses internet masih belum terjangkau bagi masyarakat dengan penghasilan rendah

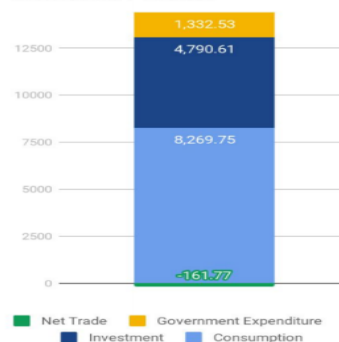


Belum adanya *digital leadership*

2018 Indonesia Digital Economy

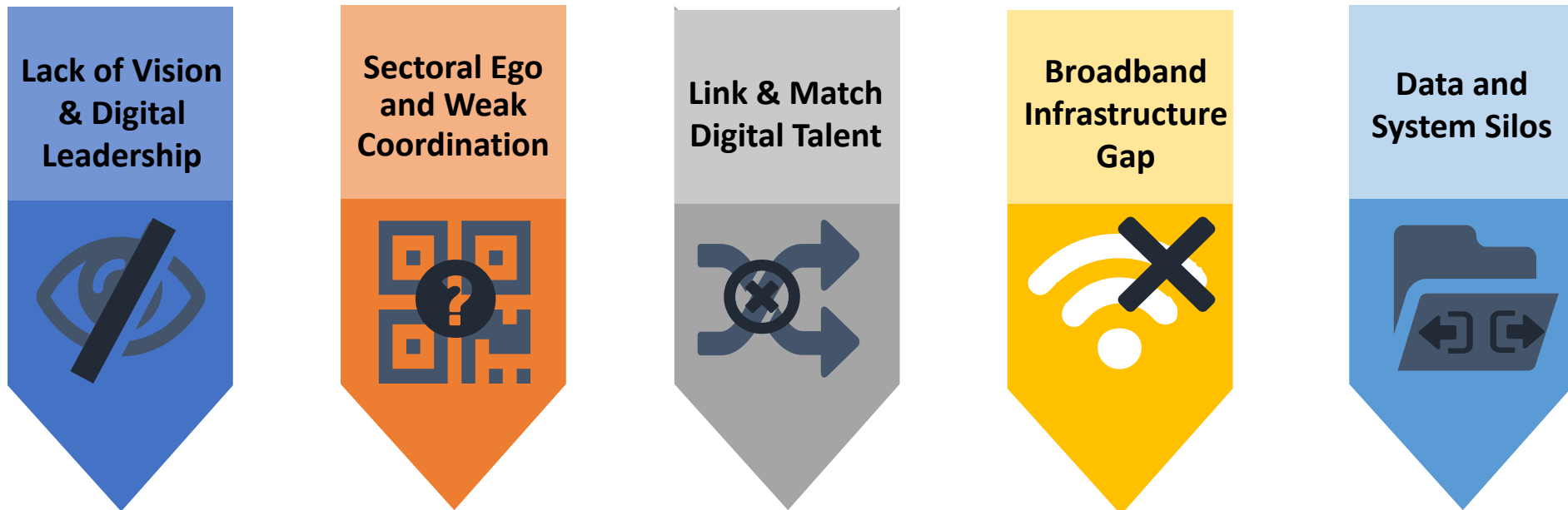


2018 Indonesia' Gross Domestic Product

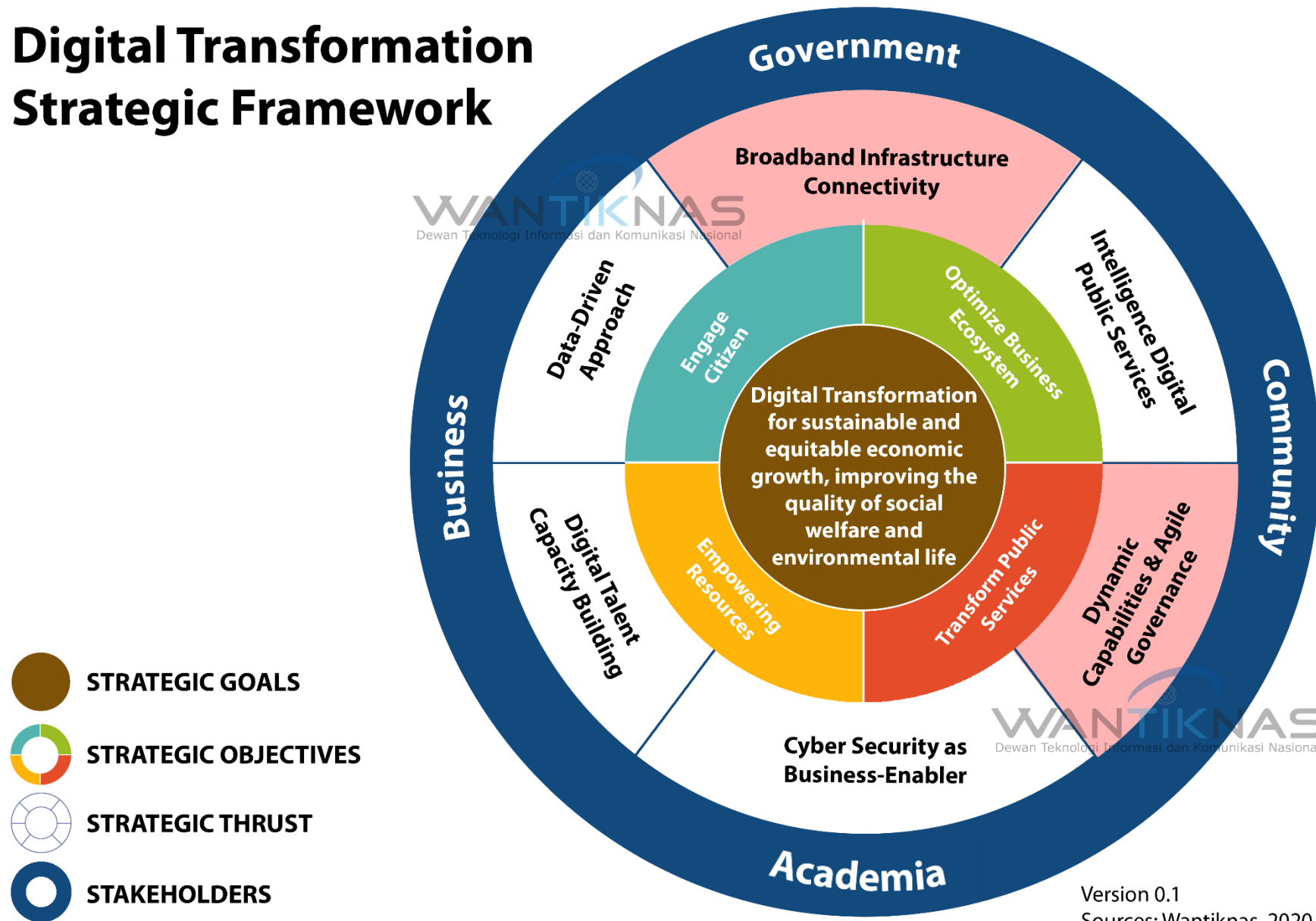


# How Ready Is Indonesia To Implement Digital Transformation (Cont'd)

## Major Challenges



# Digital Transformation Strategic Framework

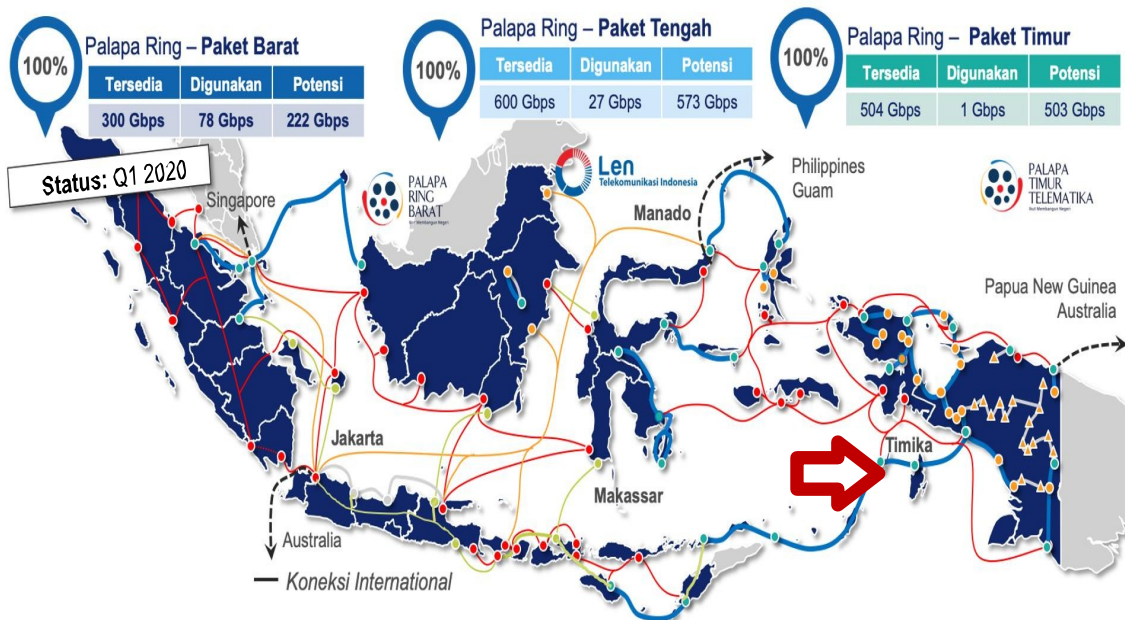


Version 0.1  
Sources: Wantiknas, 2020

# Broadband Infrastructure Connectivity

# National Network Coverage

## FIBER OPTIC BACKBONE



### OPERATOR

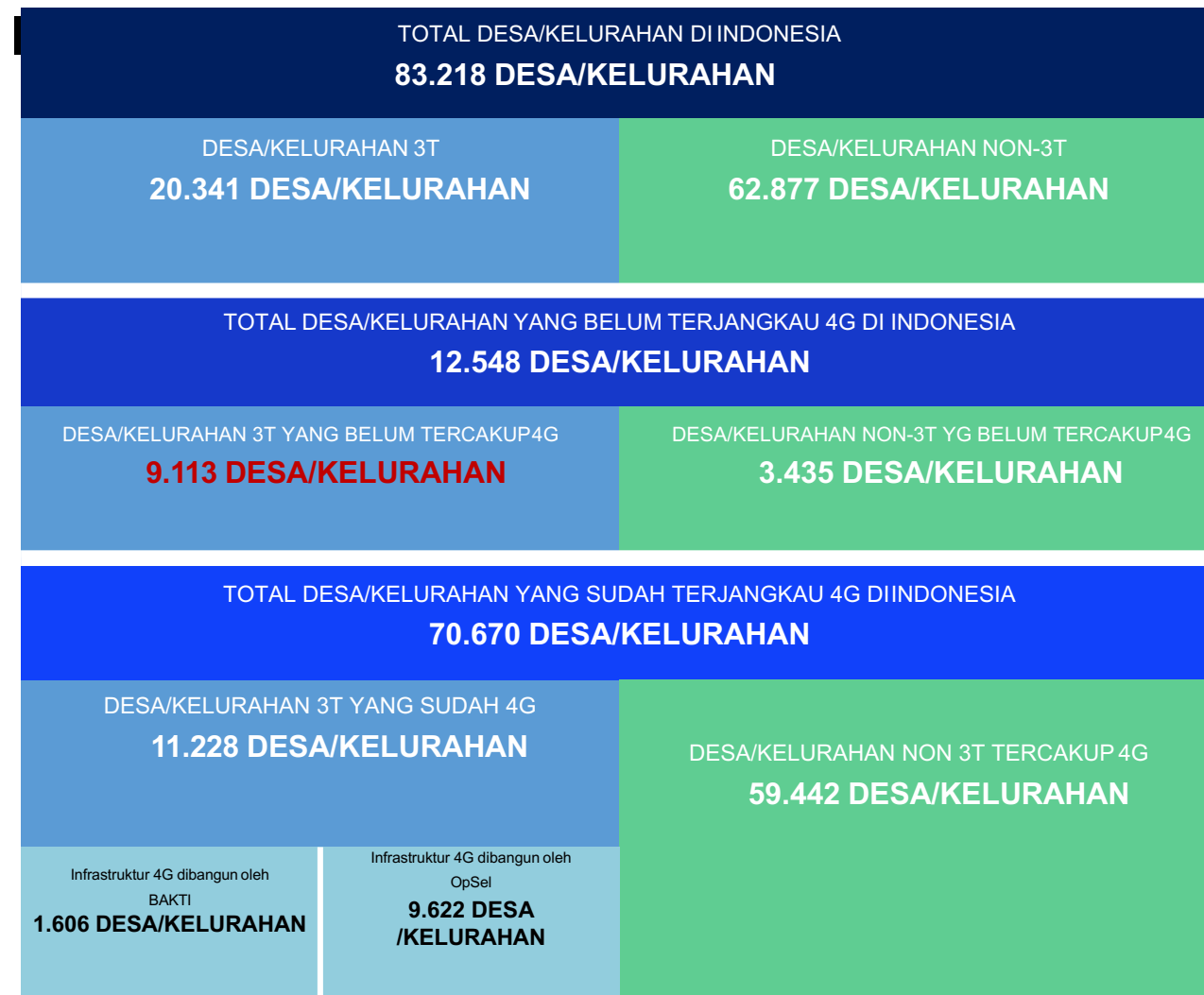
OPERATOR	PANJANG (Km)
NON-PALAPA RING	336.294
PALAPA RING	12.148
TOTAL	348.442

### JENIS

TIPE KABEL	PANJANG (Km)
INLAND	224.573
SKKL	123.869
TOTAL	348.442

Backbone berbasis serat optik sudah tinggi penetrasinya di Pulau Jawa dan sudah mulai masuk ke kota-kota besar di Sumatera, Kalimantan dan Sulawesi. Bahkan Palapa Ring sudah masuk di Papua.

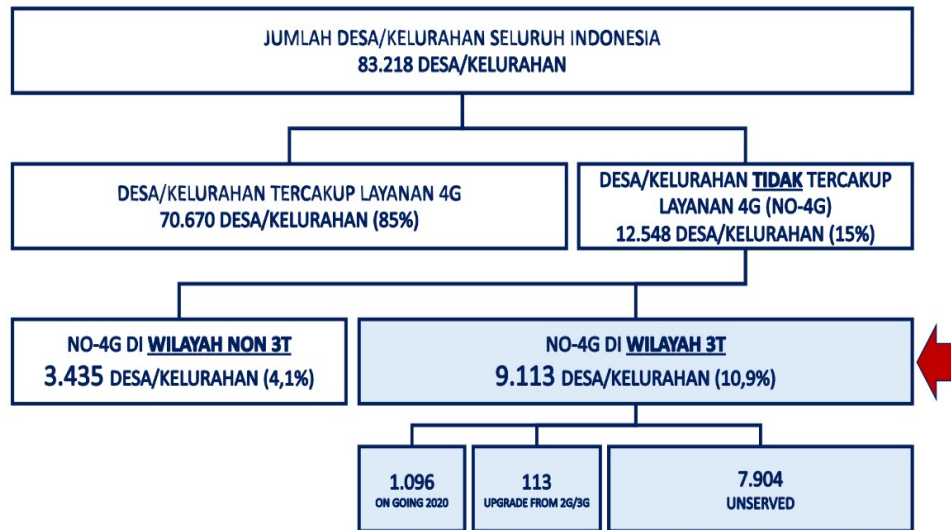
## CAKUPAN KONEKSI 4G DI DESA/KELURAHAN



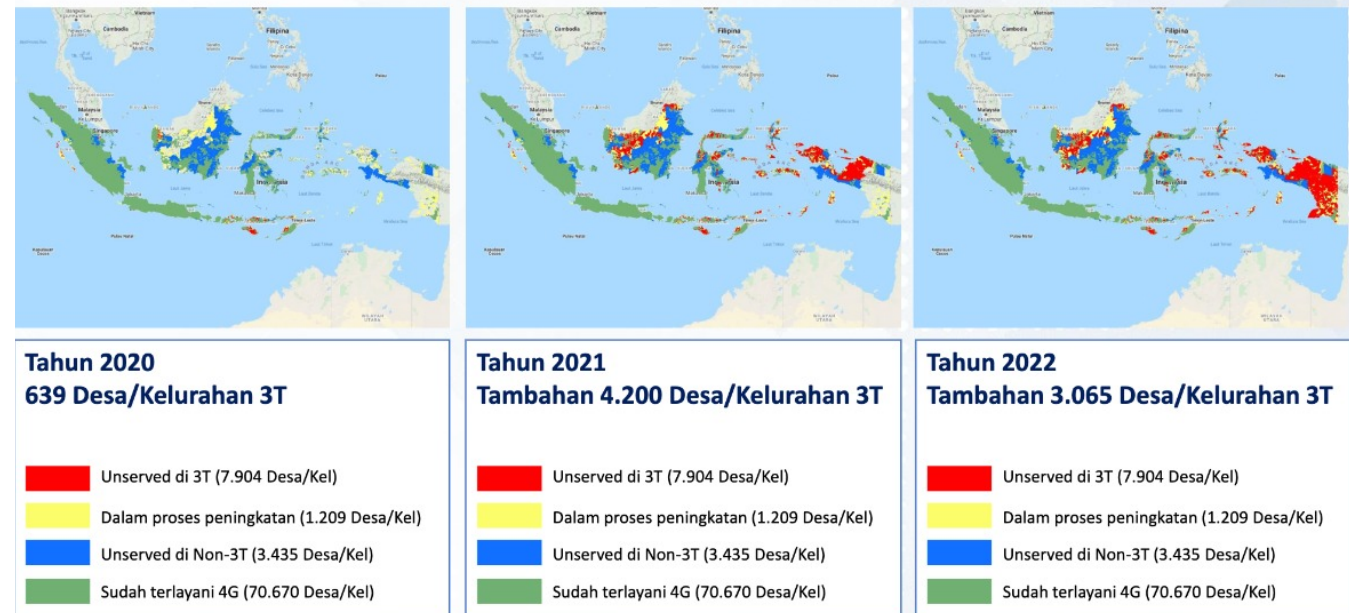


# Strategic Recommendations For Digital Infrastructure Acceleration

## DESA/KELURAHAN TIDAK TERJANGKAU LAYANAN 4G



## PEMETAAN PERKEMBANGAN PEMBANGUNAN BTS DI 7.904 DESA/KELURAHAN 3T (2020 – 2022)

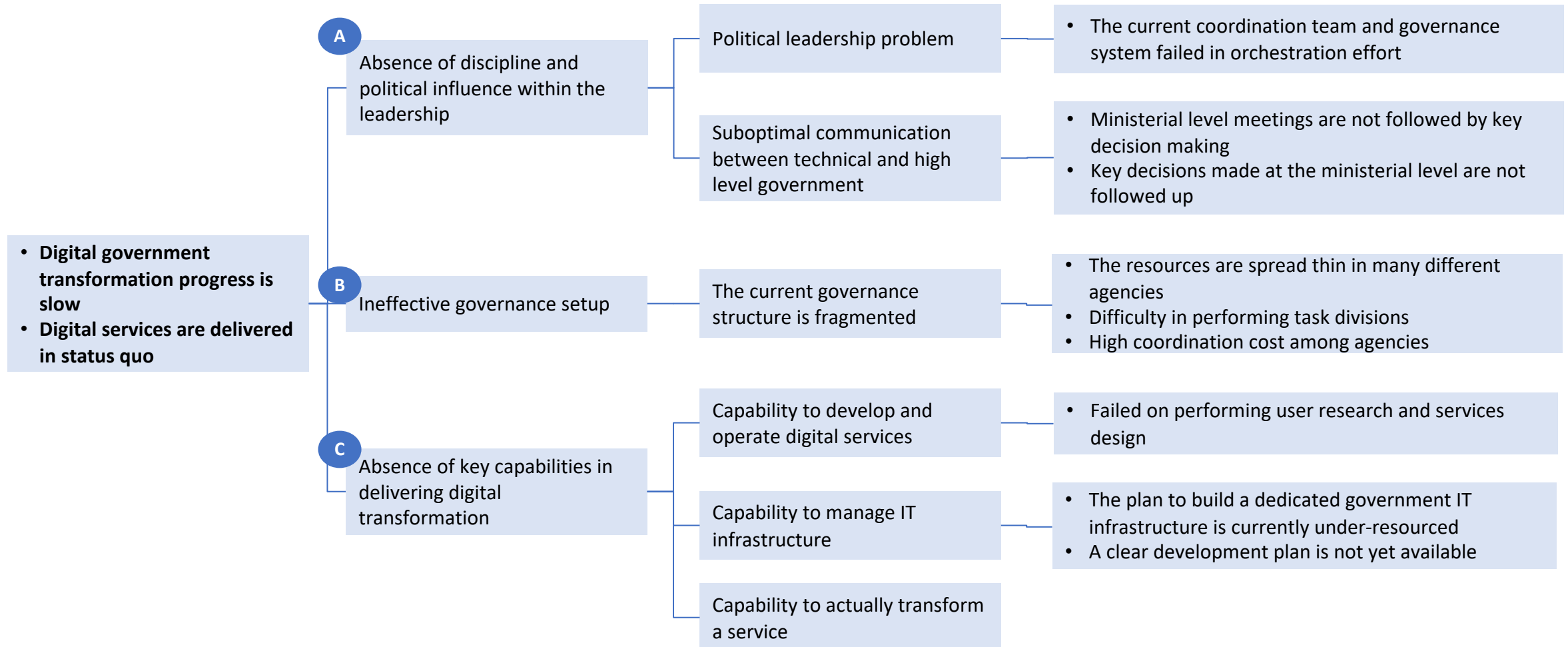


- Perlu adanya dorongan perluasan cakupan jaringan pada daerah yang belum terjangkau layanan 4G salah satunya melalui alokasi APBN dalam rangka percepatan pembangunan infrastruktur digital nasional

# Dynamic Capabilities and Agile Governance

# [WB ANALYSIS]

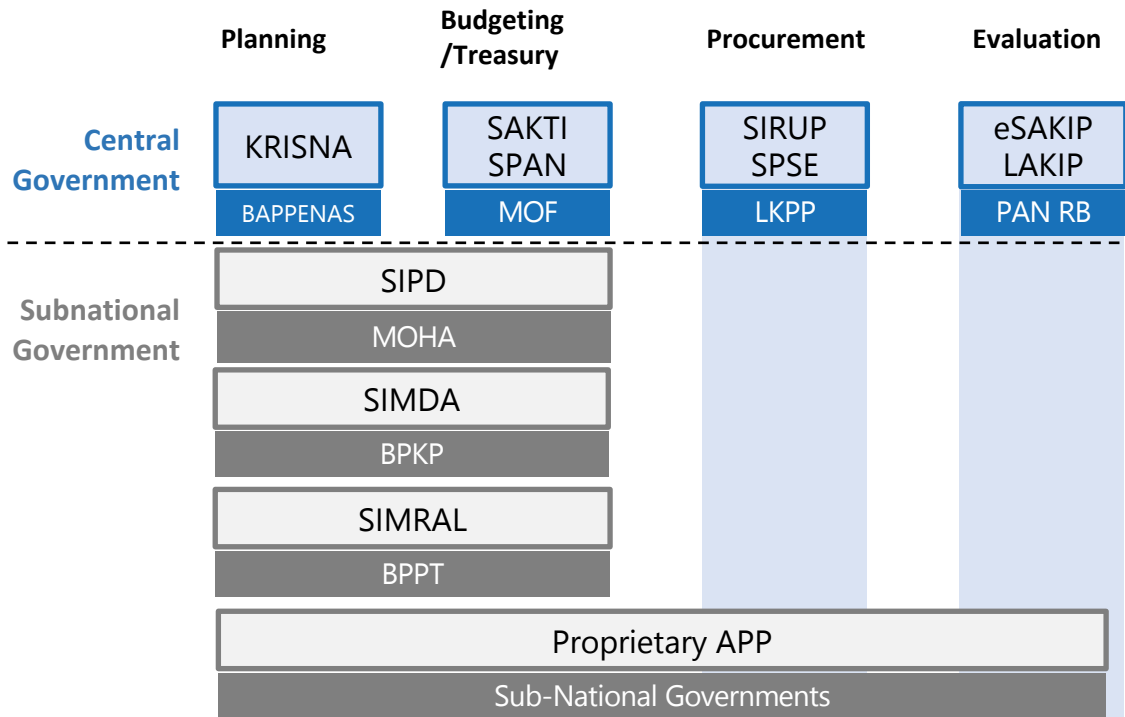
## Key issues hindering successful digital government transformation



## Political Leadership Has Been Missing In The Effort Of Orchestrating Digital Transformation Agenda

**A** Absence of political leadership

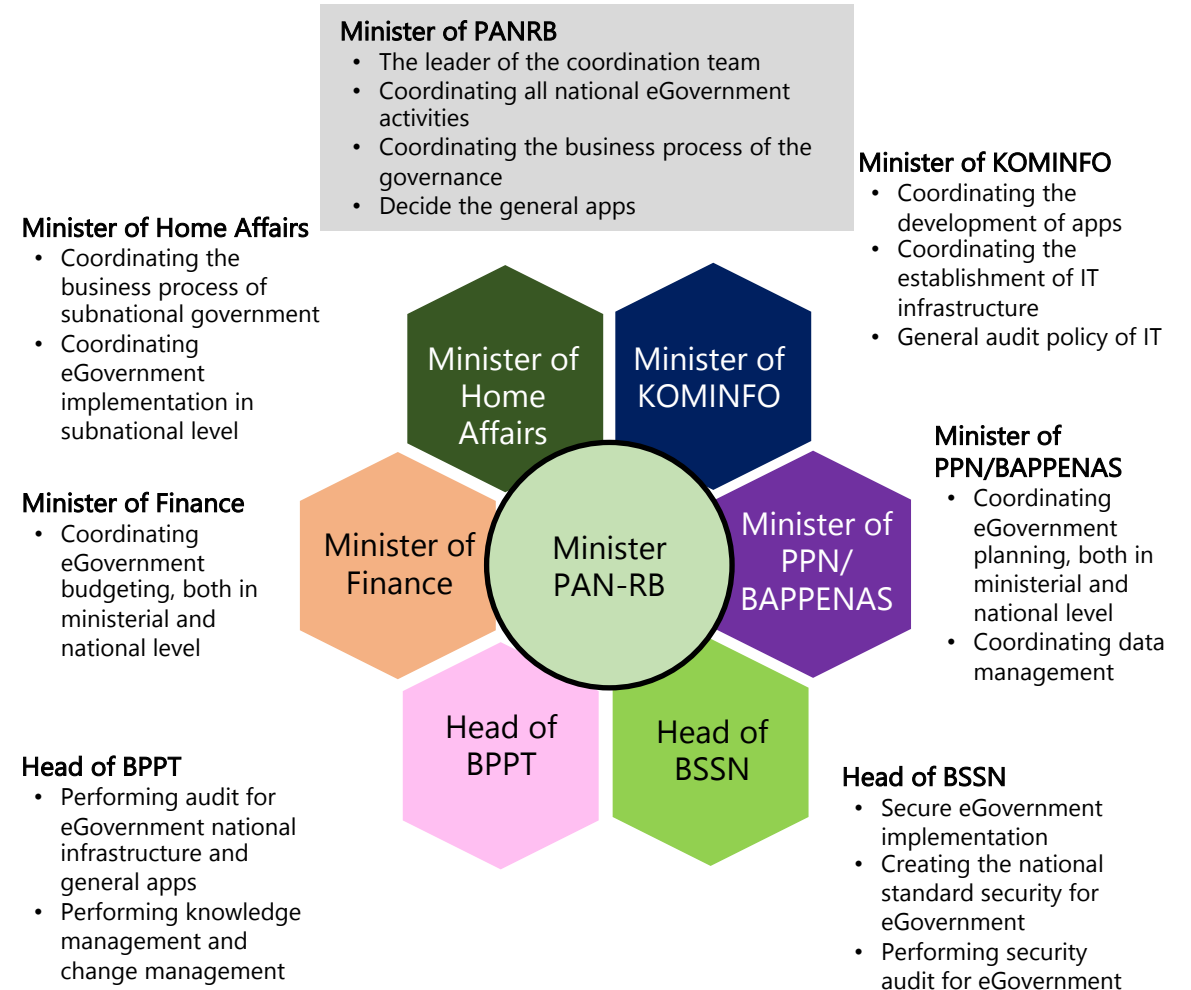
Integration of Planning-Budgeting System is a typical system integration requiring strong political leadership



Challenges that follow the integration effort

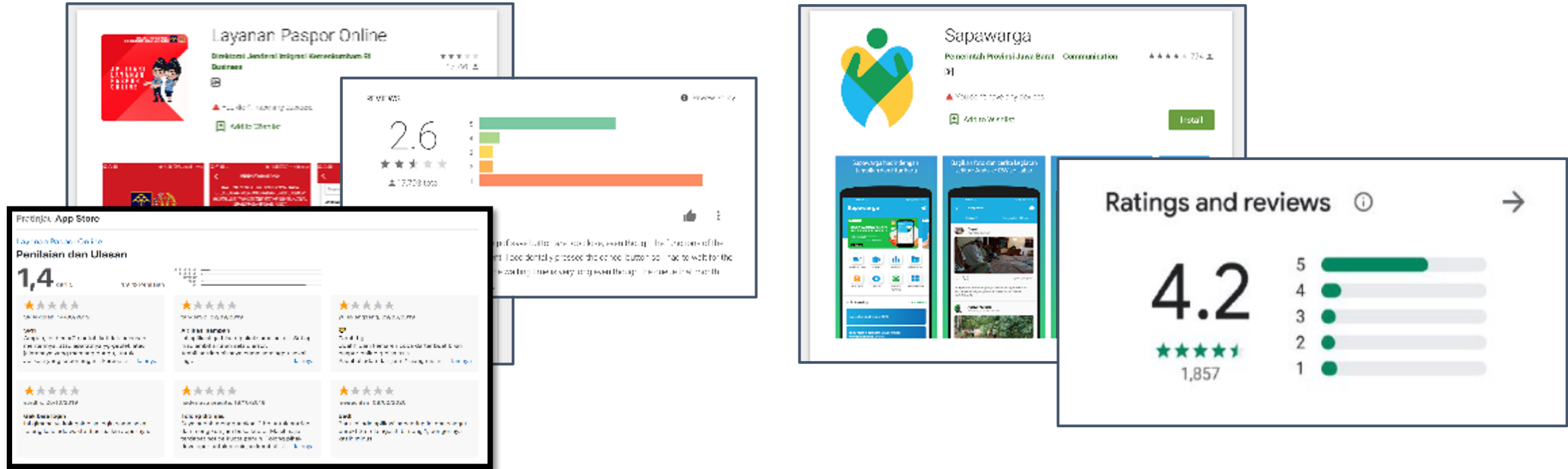
1. Project leadership is absent and rather fragmented
2. Lack of goodwill displayed by related entities to integrate the existing systems

Yet the current e-government coordination team has not demonstrated the expected leadership



## Where Capability To Deliver Digital Services Is Clearly Absent

The case of the **National Immigration Application** vs. **West Java Public Service Application**



<b>Proposition</b>	<b>Aims to replace manual queue mechanism into an internet-based queue.</b>	<b>Aims to enable citizens to express their aspirations, obtain information, and obtain public services through the gadget delivery program and application platform.</b>
<b>Key feedback</b>	<b>Complaints on Overall UX/UI, confusing process, bad access No customer complaint handling</b>	<b>Seamless UX/UI Customer complaints being responded on Play store</b>
<b>Managed by</b>	<b>Managed by the National Immigration Public Relations Division (3<sup>rd</sup> party)</b>	<b>Managed by West Java Digital Service (in-house)</b>

Sources: Worldbank, 2020

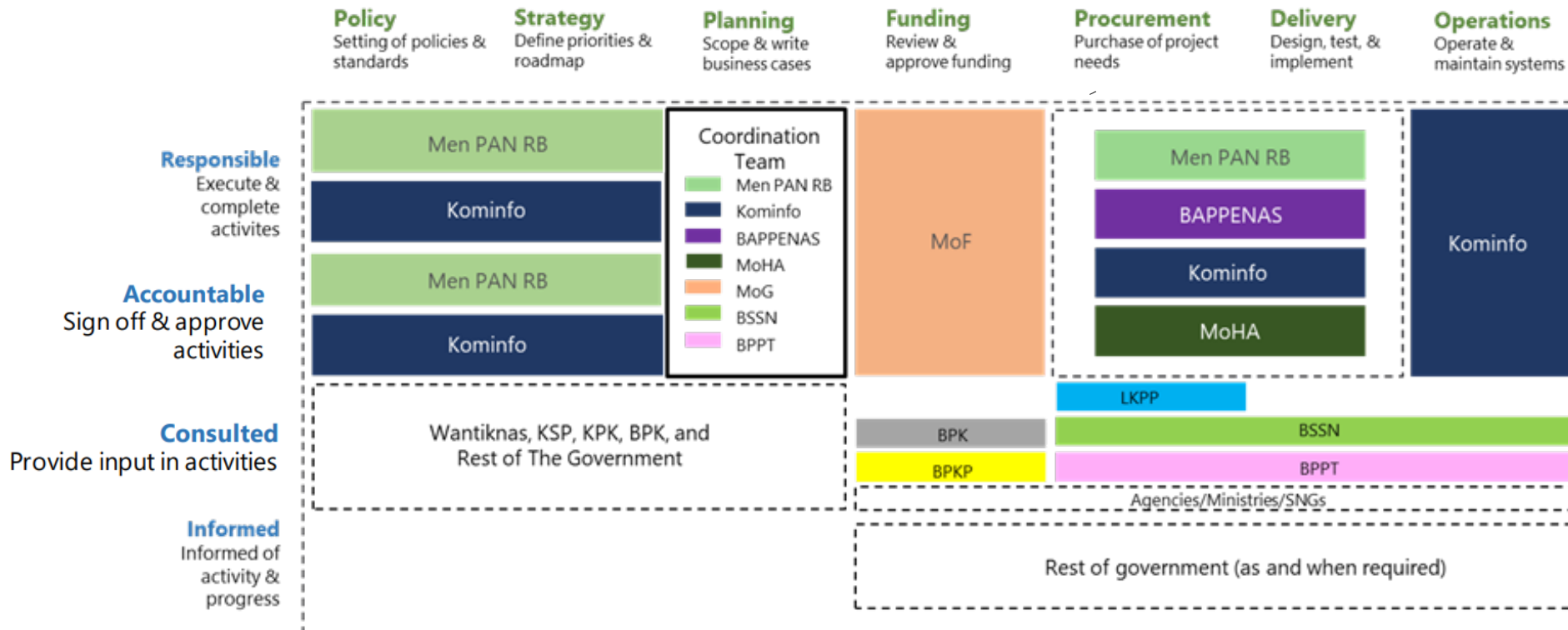
# [WB ANALYSIS]

## Institutional Setup Is Not Optimized To Manage Resources And Build The Necessary Capabilities For The Government To Transform Nationwide (1/2)

C  
Ineffective Governance Setup

### Practical Implications

- Resources for delivering digital services are spread thin in many different agencies.
- Difficulty in performing task divisions. One could see how one agency is assigned to perform various tasks. Having this situation on top of the budgeting problem, causing even more barriers on the envisioned eGovernment implementation.
- The fragmentation and assignment of one agency to the different stage of eGovernment implementation means the need to have a layered coordination.

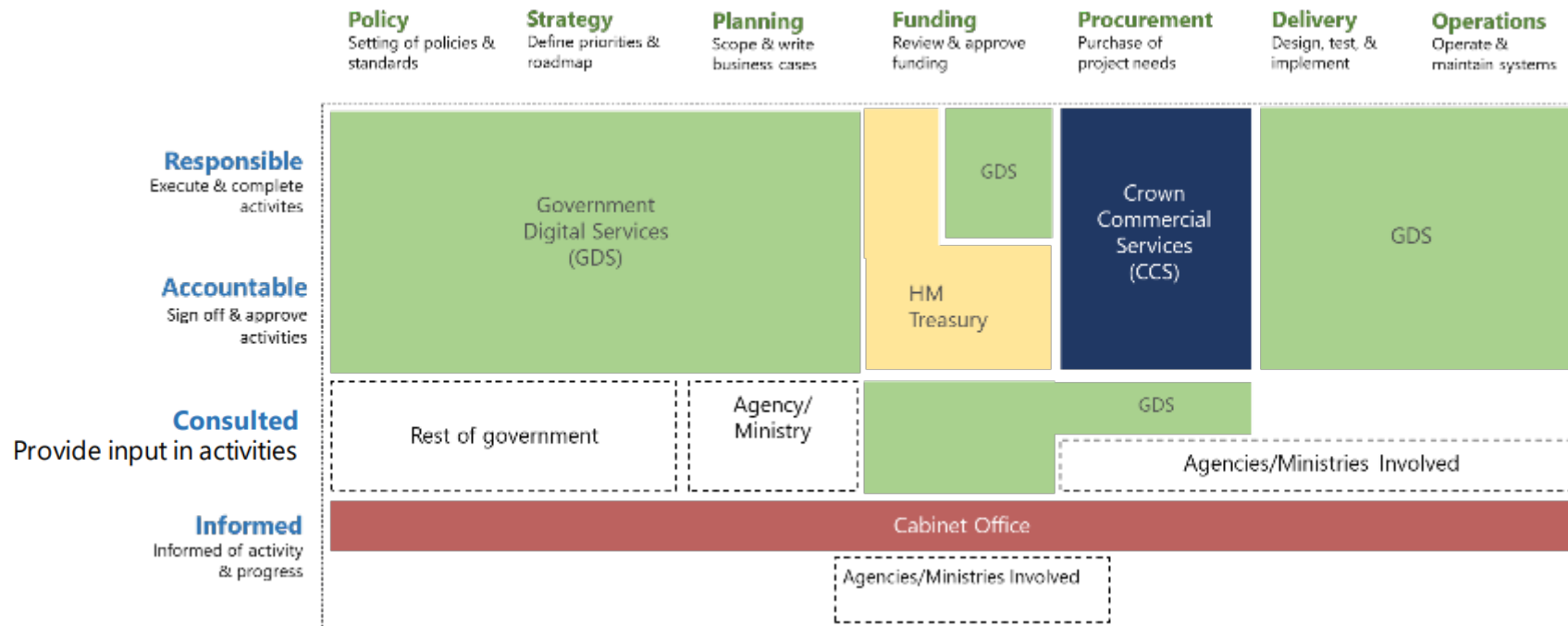


Source: WB Analysis, BAKTI, BCG Experience, BCG Analysis

# [WB ANALYSIS]

## Institutional Setup Is Not Optimized To Manage Resources And Build The Necessary Capabilities For The Government To Transform Nationwide: UK Case Study (2/2)

### UK Digital Transformation Governance Structure



### Key Features

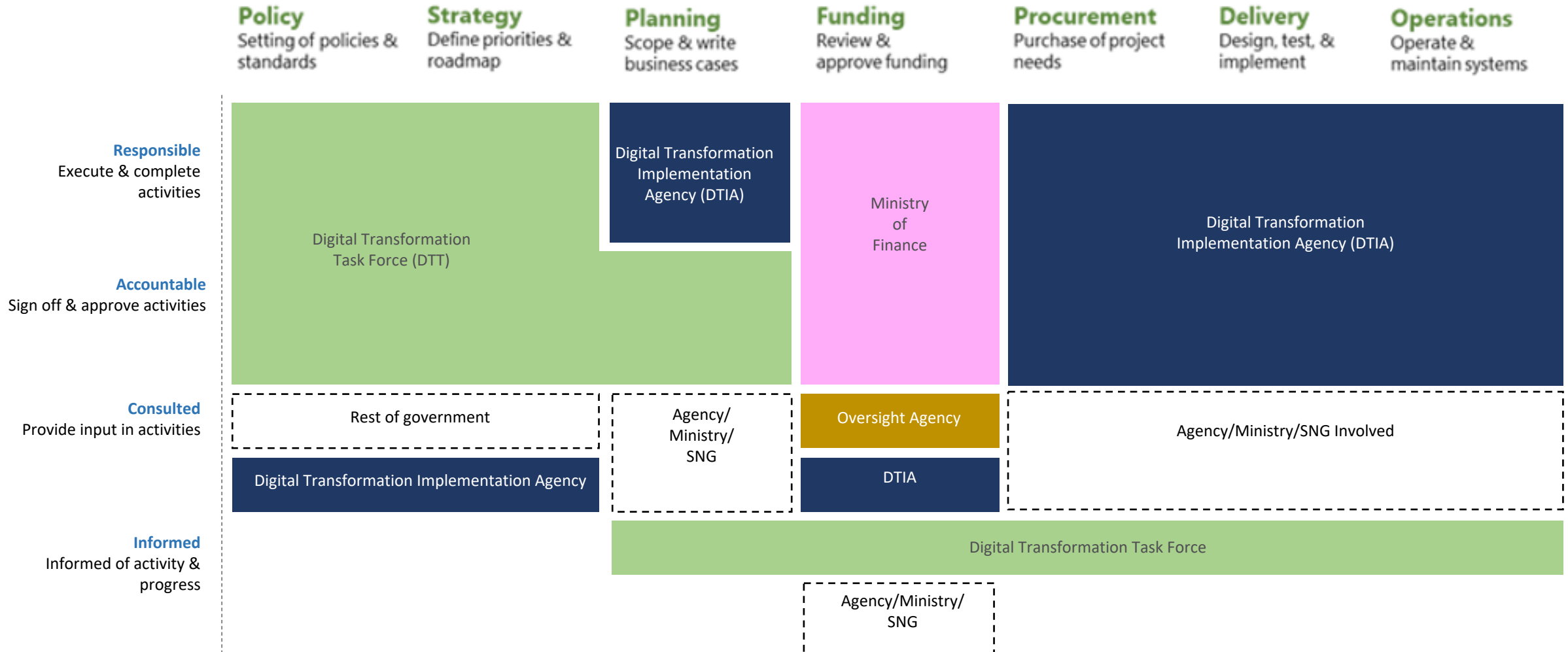
- The digital transformation governance structure of UK is led by GDS.
- GDS is part of cabinet office so that it has strong political and bureaucratic influence.
- GDS collaborating with departments to help the with their own transformation. It works with departments to build platforms, standards, and digital services.

Source: WB Analysis, BAKTI, BCG Experience, BCG Analysis

# [WB ANALYSIS]

## Digital Transformation Taskforce And Implementation Agency Would Reduce Roles And Responsibilities Fragmentation

### Recommended Governance Structure to Implement Digital Transformation Agenda

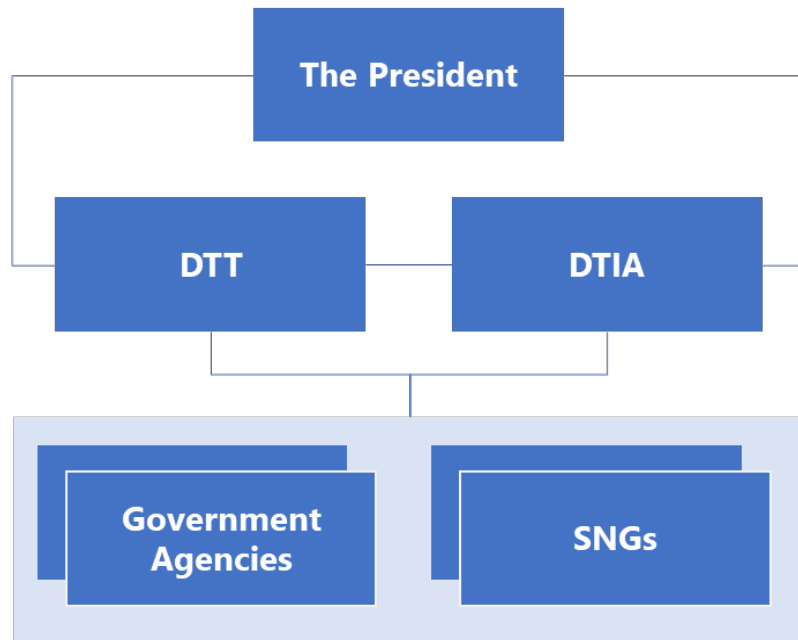




# How does the Governance of DTIA And DTT Look Like - Two Options

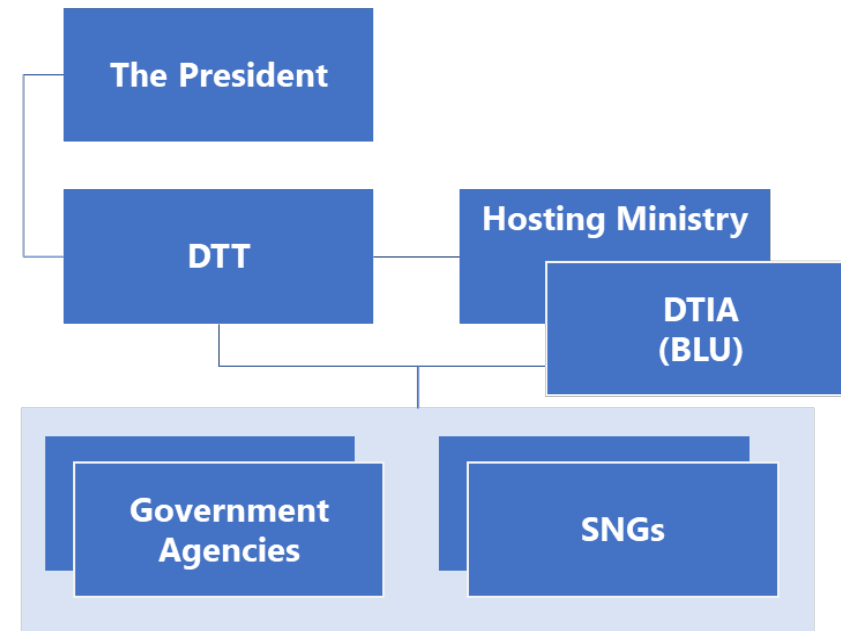


Option 1 – DTIA as an independent agency



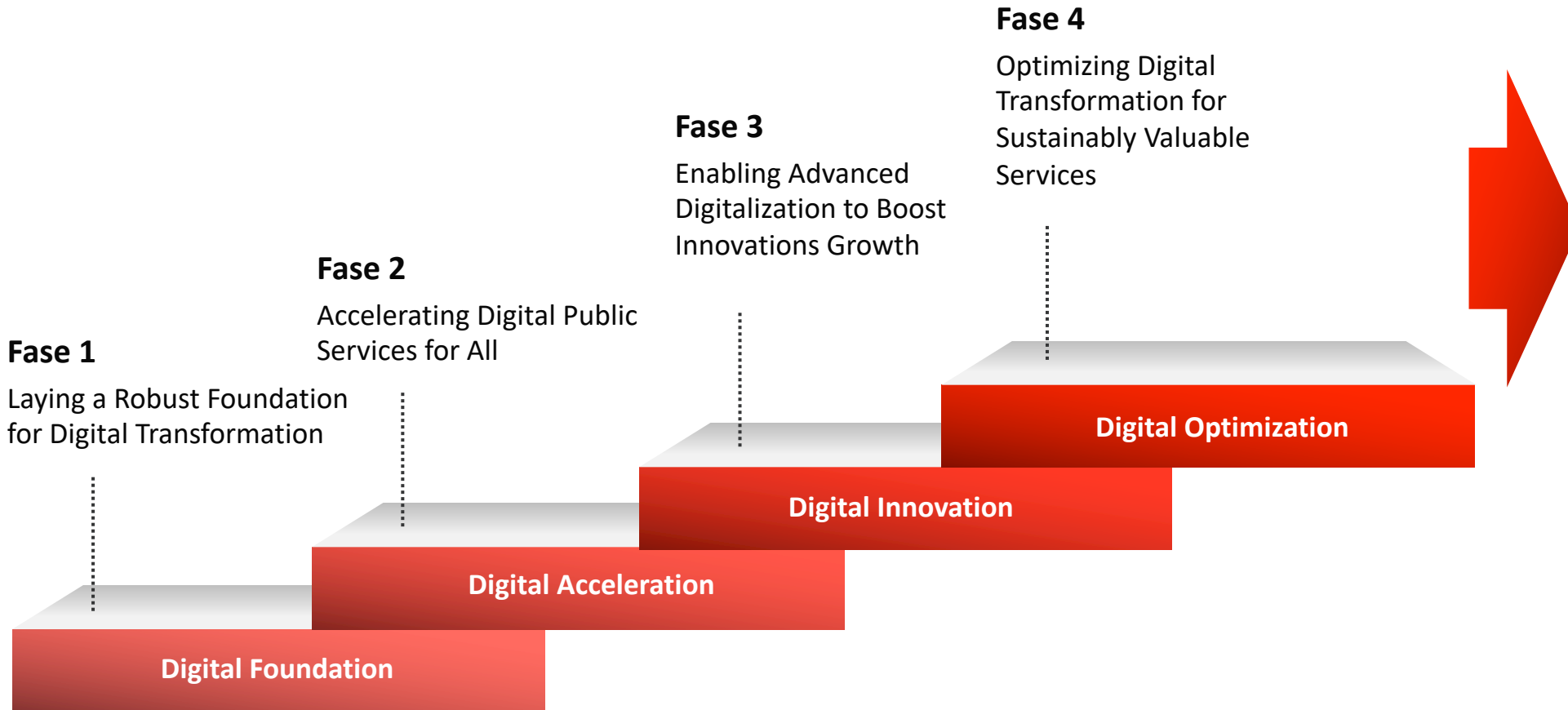
- DTT regularly reports to the President on the progress of Digital Transformation agenda
- DTT provide strategic direction and coordinate implementation plan with DTIA
- DTT develop policies regarding digital transformation
- DTIA implement the digital transformation agenda

Option 2 – DTIA as a BLU



- DTT regularly reports to the President on the progress of Digital Transformation agenda
- DTT provide strategic direction and coordinate implementation plan with DTIA through the hosting ministry (Host ministry and DTT to sit as board of commissioner for DTIA)
- DTT develop policies regarding digital transformation
- DTIA implement the digital transformation agenda

# Indonesia Digital Transformation Roadmap



Digital transformation for economic restoration, public services and bureaucracy reformation



## 4 Priorities Area:

- Health
- Education
- Government
- SMEs

# Thank You



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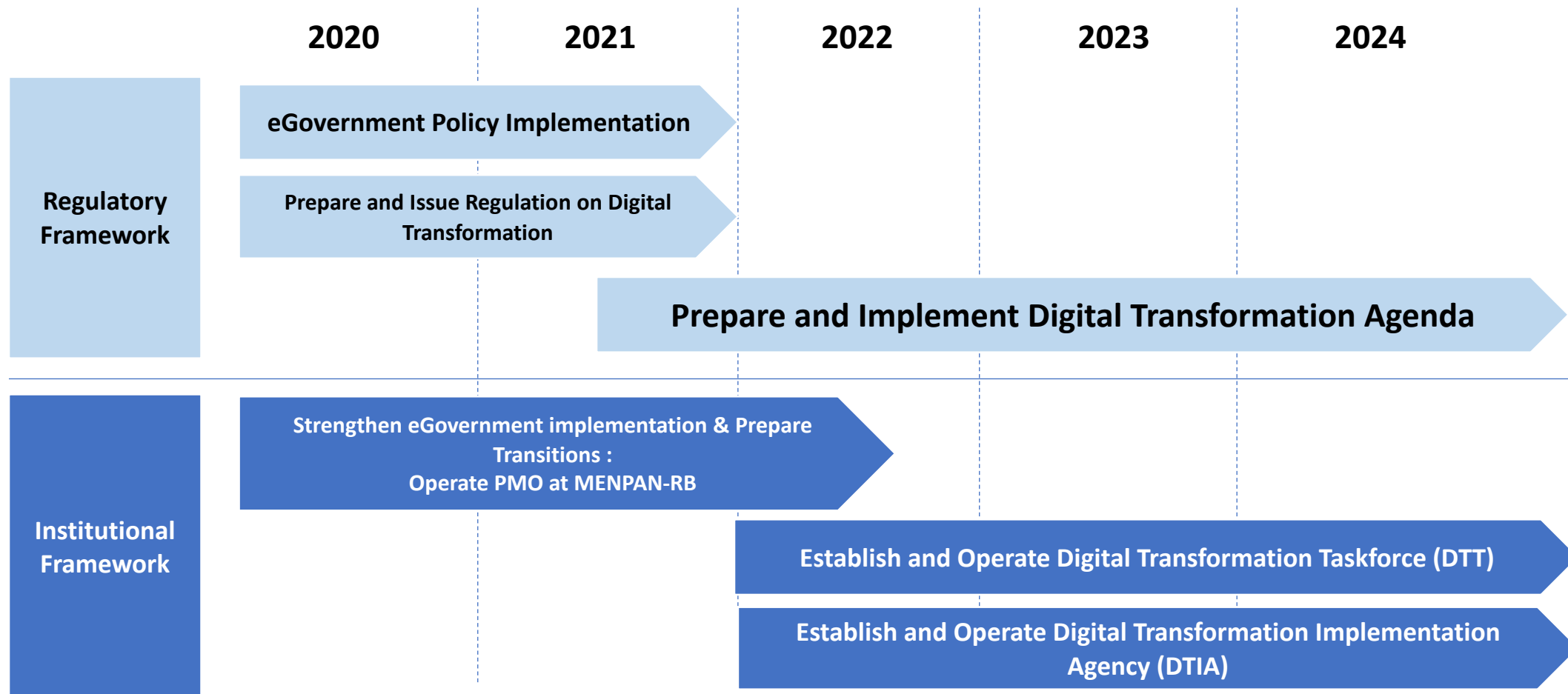
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Jakarta Pusat

# Transition plan: From eGovernment to focus on National Digital Transformation



# Solution Linkage For National Digital Transformation

Key Milestones

## Major Challenges

- National Integrated Data Center and DRC
- Fixed-broadband network coverage
- Intra-government network
- Cloud Policy
- Satellite coverage
- Open data
- Data leadership for decision making
- ICT SKKNI with ABG+C
- Local Makers growth
- Cyber Security Regulation
- Risk Management approach
- National Chief Digital Officer
- Redesign Telecommunication Operators' playing field
- National Digital Architecture
- Cross-institution collaboration platform
- National digital ID

- Lack of vision and digital leadership
- Sectoral ego and weak coordination
- Link&match digital talent
- Broadband infrastructure gap
- Data and system silos