

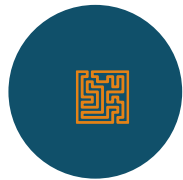
Ministry of Digital Economy
and Entrepreneurship

Strategic Direction (2021-2025)

SOCIAL MEDIA



Content



Vision



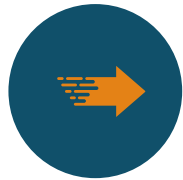
Key Performance Indicators



Challenges



Strategy Enablers



Moving Forward



Timelines



Services



Data & Infrastructure



Digital Payment



Policies & Strategies



Entrepreneurial Ecosystem



Youth, Technology & Jobs



Governance & Change Management



Connectivity

Vision



Digital environment that accelerates economical growth, supports entrepreneurship while enabling social and political stability

بيئة رقمية محفزة للنمو الاقتصادي
وداعمة لريادة الأعمال وممكنة
للاستقرار الاجتماعي والسياسي

Digital Transformation – Key Performance Indicators by 2025

01



Improve Citizen Experience,
Innovative Centralized Service Platform, Reaching 80% citizen satisfaction rate

02



Improve Jordan position in digital economy regionally & globally
Top 3 regionally
Top 35 globally

03



Economic Growth
Improve direct contribution to GDP from X% to 7-8%

04



Limit Corruption
Space to minimum by digitizing 100% of governmental services

05



Cost Optimisation in saving the government expenditure by 150M

06



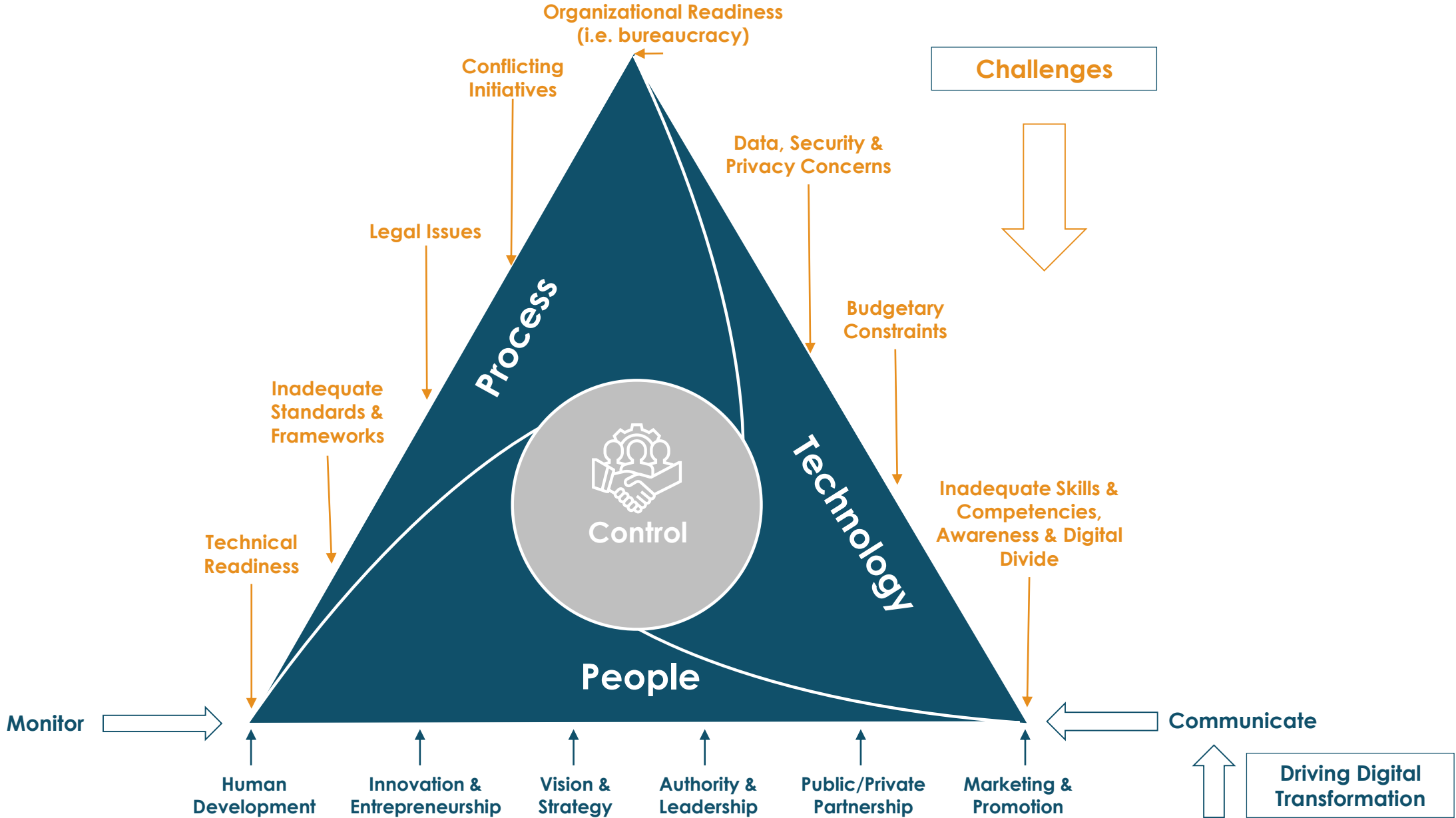
Create Jobs
YTJ 30K jobs after 5 years
Internships 5K after 5 years
Entrepreneurs 15K jobs

07



Increase Connectivity
100% Government – FTTH
70% Business - FTTH
50% Households – FTTH
60% OF 5G Coverage

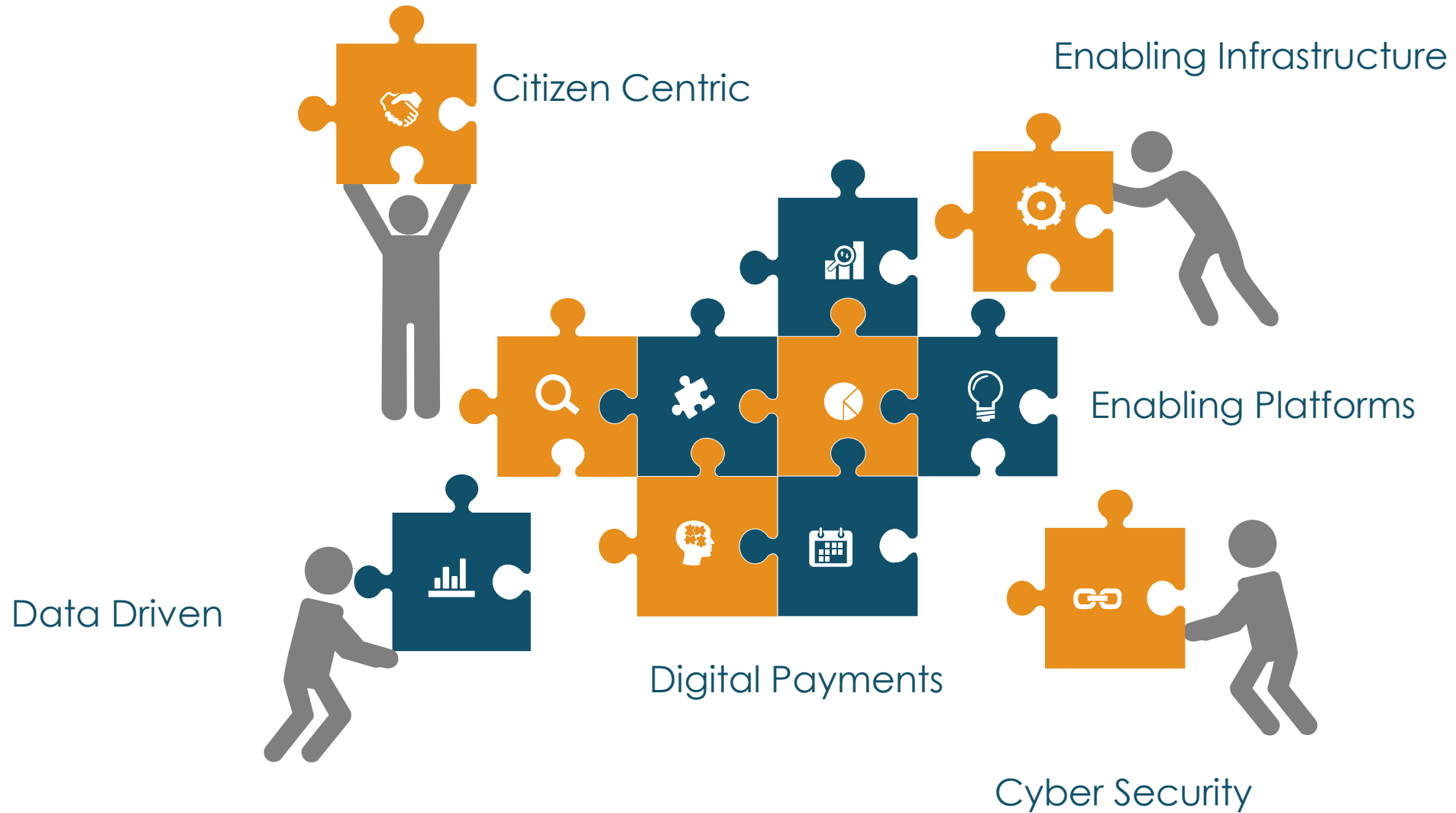
Driving Digital Transformation and Challenges



Strategy Enablers

Digital Infrastructure	5G, IoT, AI, Cybersecurity, Blockchain, Open Source, Cloud, Data Centers, e-Payment, Disaster Recovery (DR) Sites, APIs, Digital Identity, Broadband Internet, National Optical Fiber, Secure Government Network
Digital Government Services	Interactive Service Platform, Once Only Principle, Simple & Fast Services, Leaving No One Behind, Digital by Default
Data	National Information System, Classification of Government Data, Personal Data Protection, Open Government Data)
Youth, Technology & Jobs	Support Provision of Digital skills, Support Expansion of Digital Sector & Digital Government Services
Innovation & Partnership with Private Sector	Ministry of Health, Department of Land and Survey, Income and Tax Department, Ministry of Higher Education & Scientific Research, National Broadband Network
E-Participation	e-Information, e-Consultation, e-Decision Making
Change Management & Human Resources	Awareness, Capacity Building, Reinforcement, Participation, Knowledge Development
Management of Government Resources	Centralized Government ERP Solution

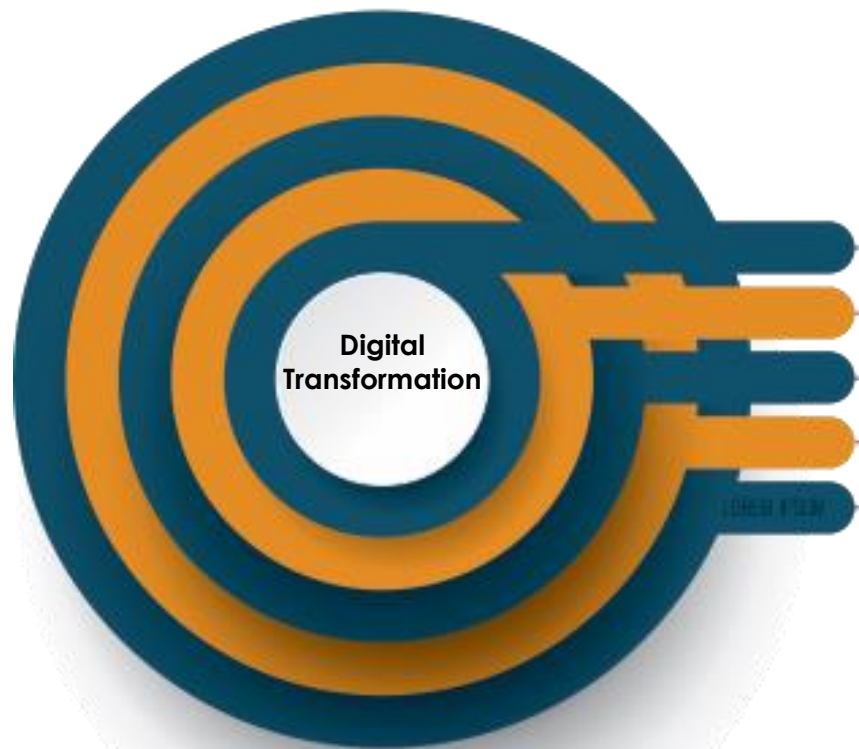
Moving Forward



Digital Transformation – Citizen Centric



Digital Transformation – Moving forward



01

- National Digital Transformation Strategy
- Implementation Plan, Defined Services & Demands Prioritise & Measurable Outcomes

02

- One middleware providing common services and capabilities connected to Government Service Portal (SANAD & Web Portal)
- Digital Identity, digital-signature & Digital Payments Transformation

03

- Unified Digital Core & Infrastructure: Data Centre, Cloud & API Switch, Data Analytic
- Revision of Regulatory Framework & Policies

04

- Work with strategic partners (PPP or BOT) to accelerate, ensure continuity and strong technology support, lower cost and higher quality

05

- Unified National Standard and Digital Core

The Digital Transformation Timelines

1

Year 2021

- Collect data to prioritize the services and do the assessment of existing e-services
- Finalize enabling policies and procedures inline international best practices
- Launching final version of national digital transformation strategy and implementation plan in coordination with all stakeholders
- Start the digitization of payments
- Enhance the Digital Infrastructure
- Complete the Digital ID & start onboarding process
- Completion of YPJ 2021 implementation plan (full details in YPJ plan)

2

Year 2021-2022

- Plan and complete Government Service Portal (SANAD & Web Portal) as a service platform
- Start onboarding all services on Government Service Portal (SANAD & Web Portal) for integrated governmental entities such as DLS, ISTD & PSD /DLVD)
- Complete the digital payments transformation
- Complete all required legislations such as the Personal Data Protection Laws
- Implement & setup the main data center, disaster recovery centers 1 & 2
- Complete the implementation to be digital at core
- Complete of onboarding X% of citizens
- Review progress reports, analytics, lessons learnt & program outcomes
- 5G as main requirement
- NBN project completion
- Government data centralization

Year 2022 – 2023

- Complete % of the implementation plan
- Create X number of jobs
- Reach X% in digital onboarding
- Attract \$... Of investments
- Contribute to economical growth by X%
- Citizens starting to recognize and feel the impact
- Jordan in the top 5 countries regionally and recognized globally.
- Export growth by X%
- Number of companies increase by X%
- Number of sustainable startup increase by X%
- Complete government data centralization
- Active decision making support through data mining analytics and use of AI and Machine learning
- Launching 5G

3

Year 2023-2025

- Continue to optimize, develop from the lessons learnt and build on achievements
- Review the strategy and the plan to fill any GAPS

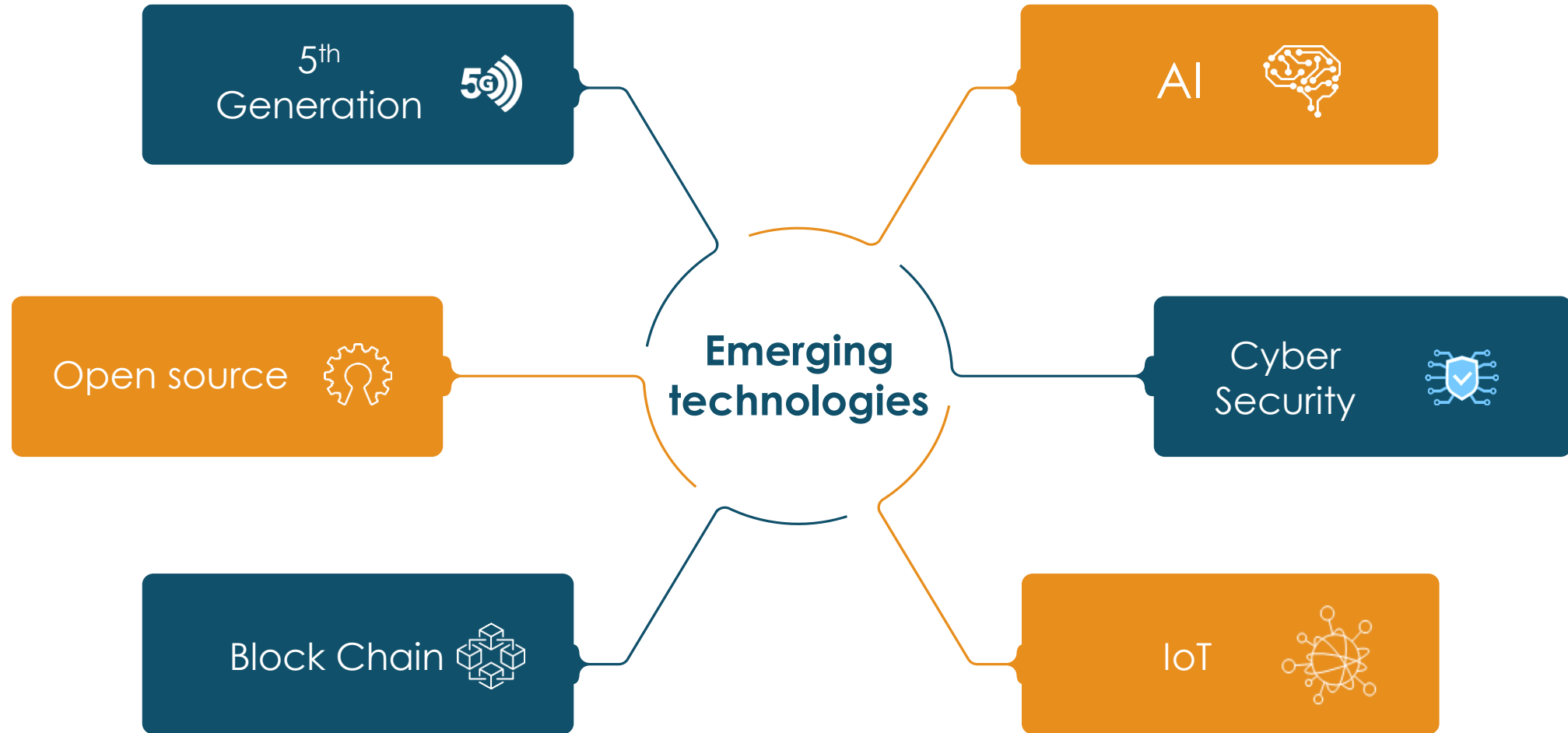
4

End of 2025

- Project Closer
- Reaching the set of KPIs and achieving the agreed upon objectives
- Launching the continuation and sustainability plan moving forward

5

Emerging technologies



Services Automation Overview

Automating services on Government Service Portal for integrated ministries and other governmental entities

Targeted Governmental Entities	<u>50 entities</u>
Number of all Services	<u>2464 service</u>
API Enabled Services	<u>25 Service</u>
Non-API Enabled Services	<u>599 Service</u>
Service Automation (In Progress)	<u>86 Service</u>
Non-Automated Service (To be prioritized)	<u>1754 Service</u>

Services - International principles related to digital transformation that are compatible with the Jordanian context:

خدمات رقمية المنشأ
(Digital By Default)

طلب البيانات لمرة واحدة فقط
(Once only principle)

منصة خدمات وتفاعلية
(One Stop Shop)

خدمات بسيطة وسريعة تلبي احتياجات المستخدمين وتحقق رضاهم
(Simple, Fast & Satisfactory Services)

خدمات شاملة لا تغفل أحد
(Leaving no one behind)



Digital Transformation – Services

The Digital Transformation (DT) structure has to be a centralized Digital Transformation to achieve a citizen centric model.



Decentralized Digital Automation

Weaknesses

- Automation at an Institutional Level
- Lower Productivity
- Higher Costs
- Higher Complexity (**integrations, data mining, analytics**)
- No National Standardization
- Lower Citizen Satisfaction, multiple service platforms
- Multiple Points of Failure
- Scalability Issues
- Intricate coordination
- Lacks the potential of achieving digital economy
- Reactive operating model for MoDEE

NOW



Centralized Digital Transformation

Strengths

- Lower Costs
- Higher Reliability and Quality
- Faster Development and Innovation
- Scalable Operation
- Higher Satisfaction, single platform for citizens
- Reduced Complexity
- Unified Government Services Platform
- Powerful Digital Economy
- Proactive operating model by MoDEE
- Better control over the process and implementation plan

MOVING FORWARD



Beneficiaries are looking for decentralized services, centralized platform and simplicity

Services

Digital Transformation - Moving Forward Process

Collection of data is in progress with approximately 2000 services collected for analysis

Value to Citizens

Number of Transactions

Value to economy

Value of Transactions

Value to Culture

Complexity to Citizens



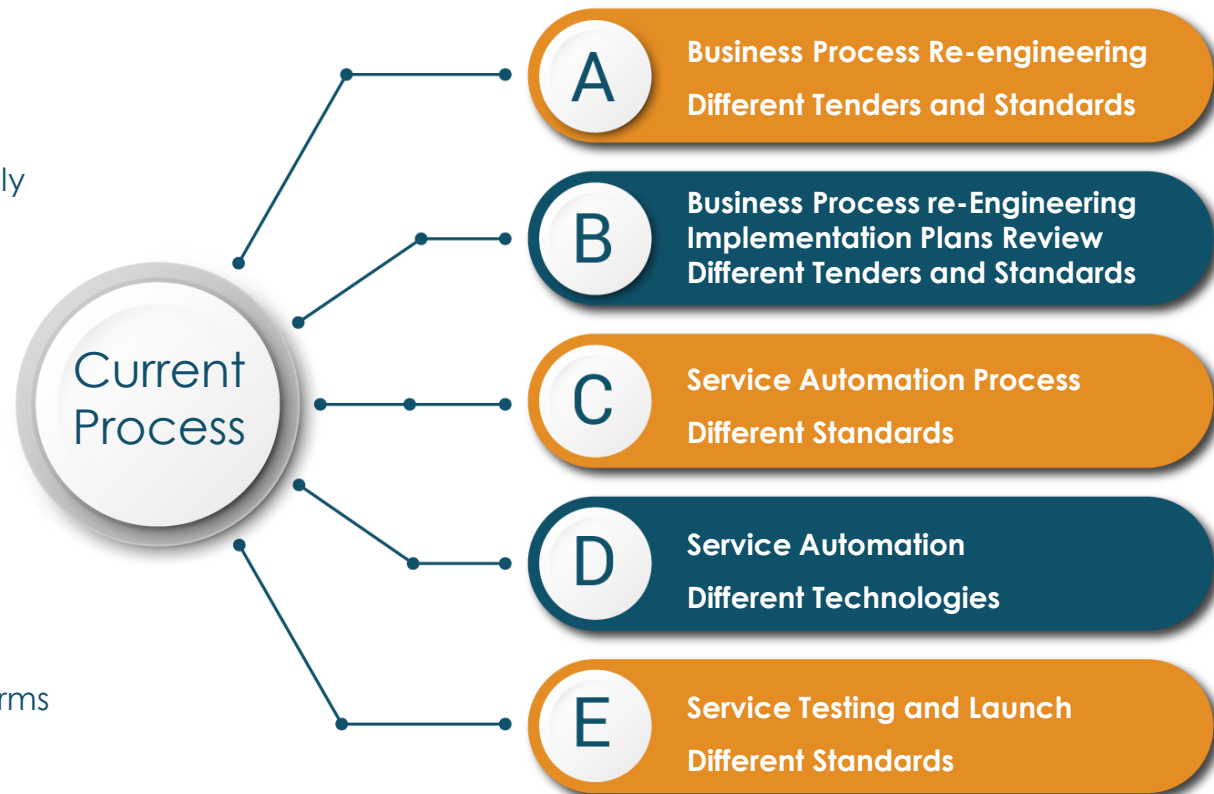
Digital Transformation - Current Process

The re-engineering and automation of services are currently developed and produced at an institutional governmental level which is a decentralized Digital Transformation(DT) structure.

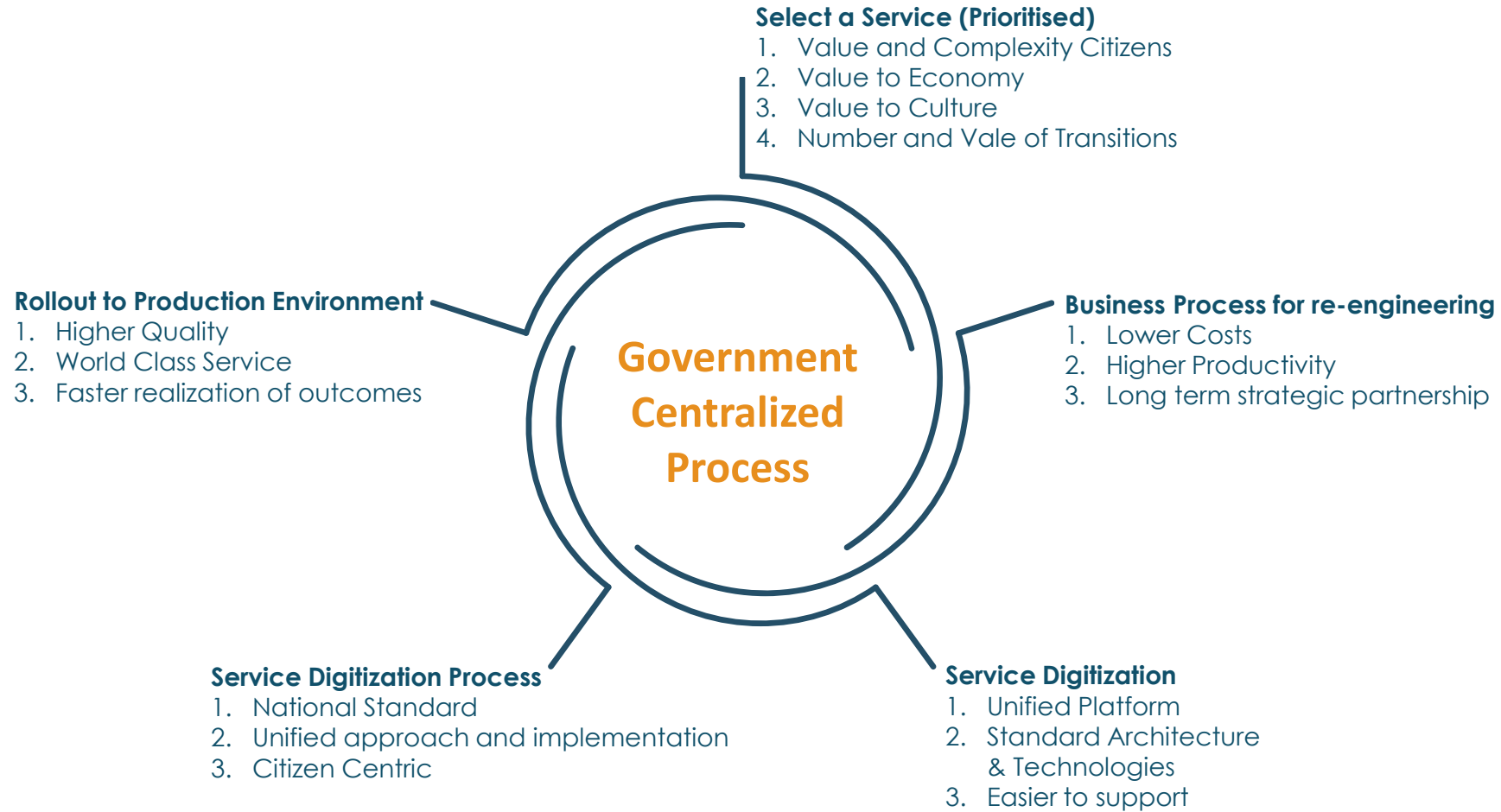
Weaknesses

- Ad-hoc E-service Selection Process
- Service Automation at an Institutional Level
- Multiple platforms and different technologies; only 80 services out of 379 automated services are integrated with the digital core architecture
- Quick wins, scalability constraints
- Multiple Points of Failure
- Higher Complexity (integrations, data mining, analytics)
- Too many gate keeper, difficult to support
- No National Standardization
- Lower Citizen Satisfaction, multiple service platforms
- Higher Costs

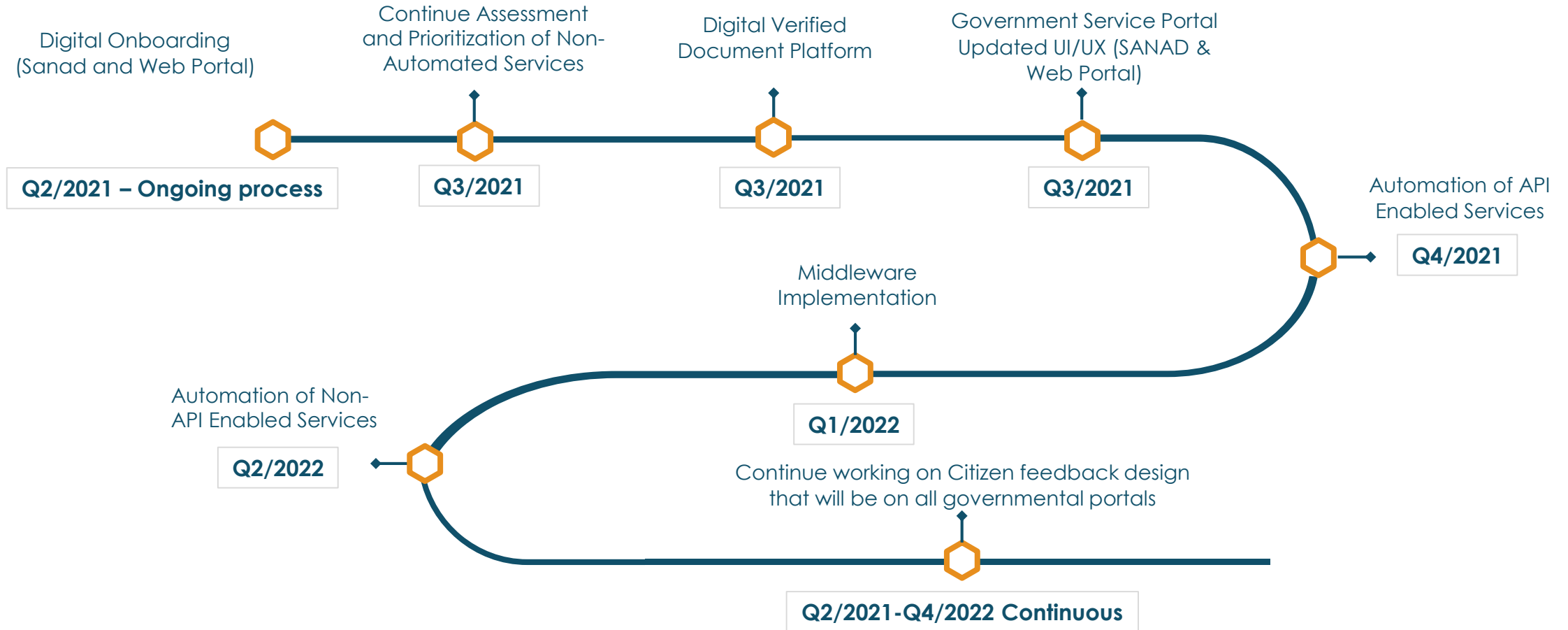
NOW



Digital Transformation - Moving Forward Process



Services Digital Transformation Roadmap



Needed Resources

7 Resources

Budget

JOD 14.25 M

Project Timeline

2 Years

New Services

575

Renovated Old Services to be API ready

275

Digital Transformation - Data

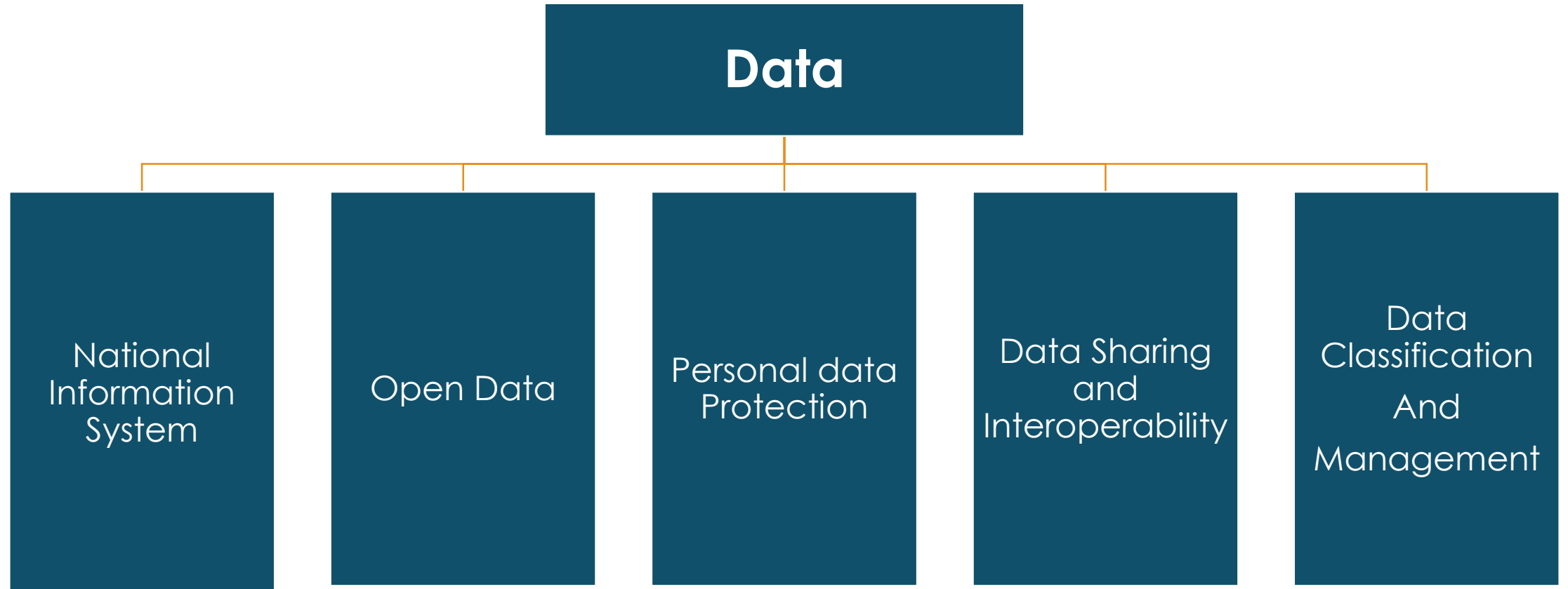
→ Current Situation

- Most of government data and technologies are decentralised
- The Government Digital Infrastructure is optional for government entities
- The main data centre is rented and not owned by a government entity
- The disaster recovery data centre is hosted on a government premise (NCSCM)
- The main and backup data centres are not currently being mirrored 100%
- There is no single entity owner of data
- National Broadband Network delayed and should be completed by end of 2021
- Government Private Cloud is not being fully utilized by government entities and is currently optional
- Poor utilization of the API platform and data analytics
- Government Service Portal (SANAD & Web Portal) doesn't have a roadmap and is not utilized as a single integrated services platform

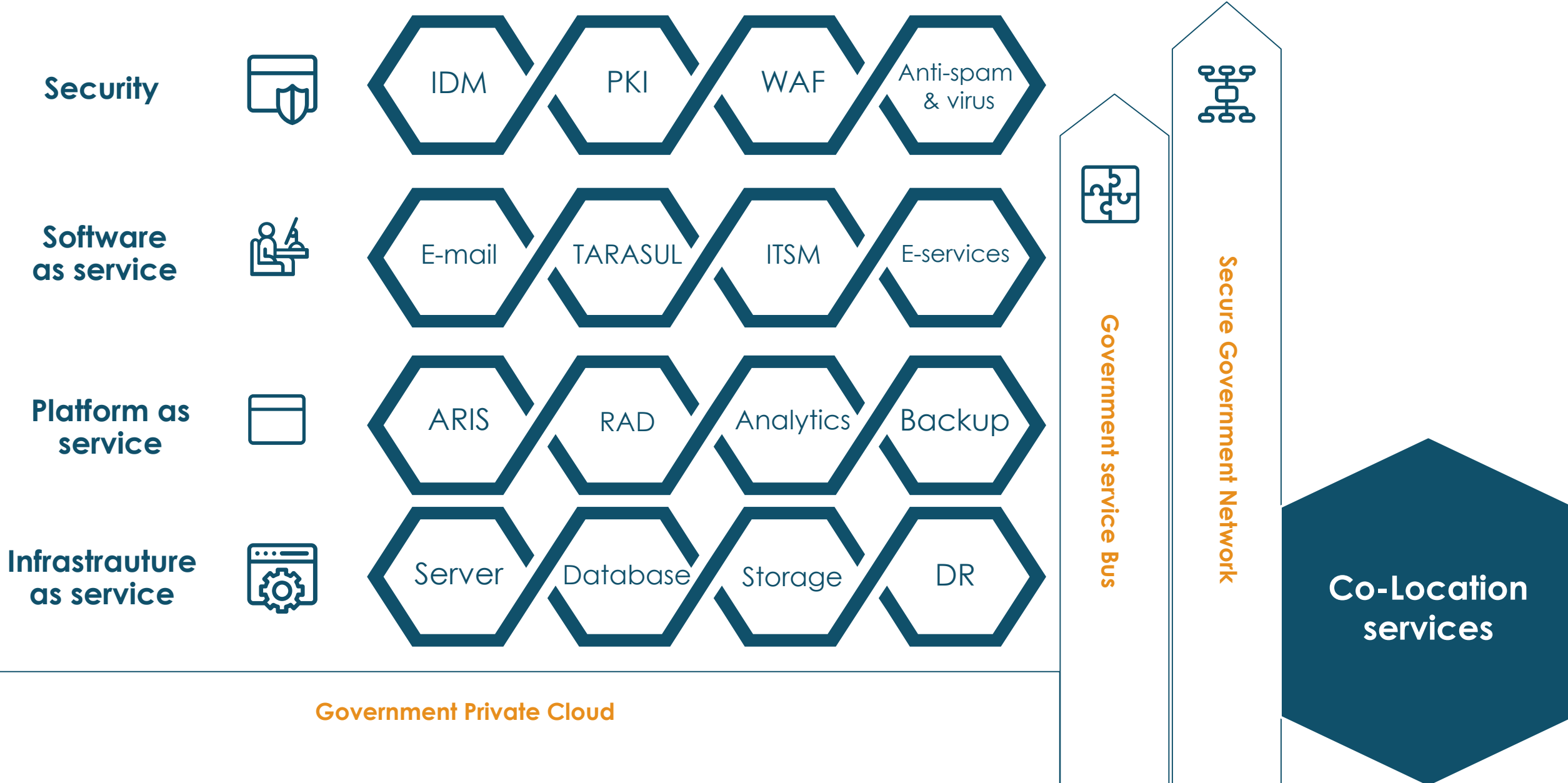
→ Moving Forward

- Centralization of government digital infrastructure
- The Government Digital Infrastructure to become obligatory
- The main data centre to be re-located to a government owned premise and must follow international best practices
- The backup data centre mirroring and location to be assessed in case of major risks
- The Government Private Cloud must be utilized by all entities and a single assign a single owner of data
- The National Broadband Network must be completed by 2021
- Plan and implement a data analytical strategy to accelerate development and sustainable economical growth
- Government Service Portal (SANAD & Web Portal) to be the face of the government for all governmental services

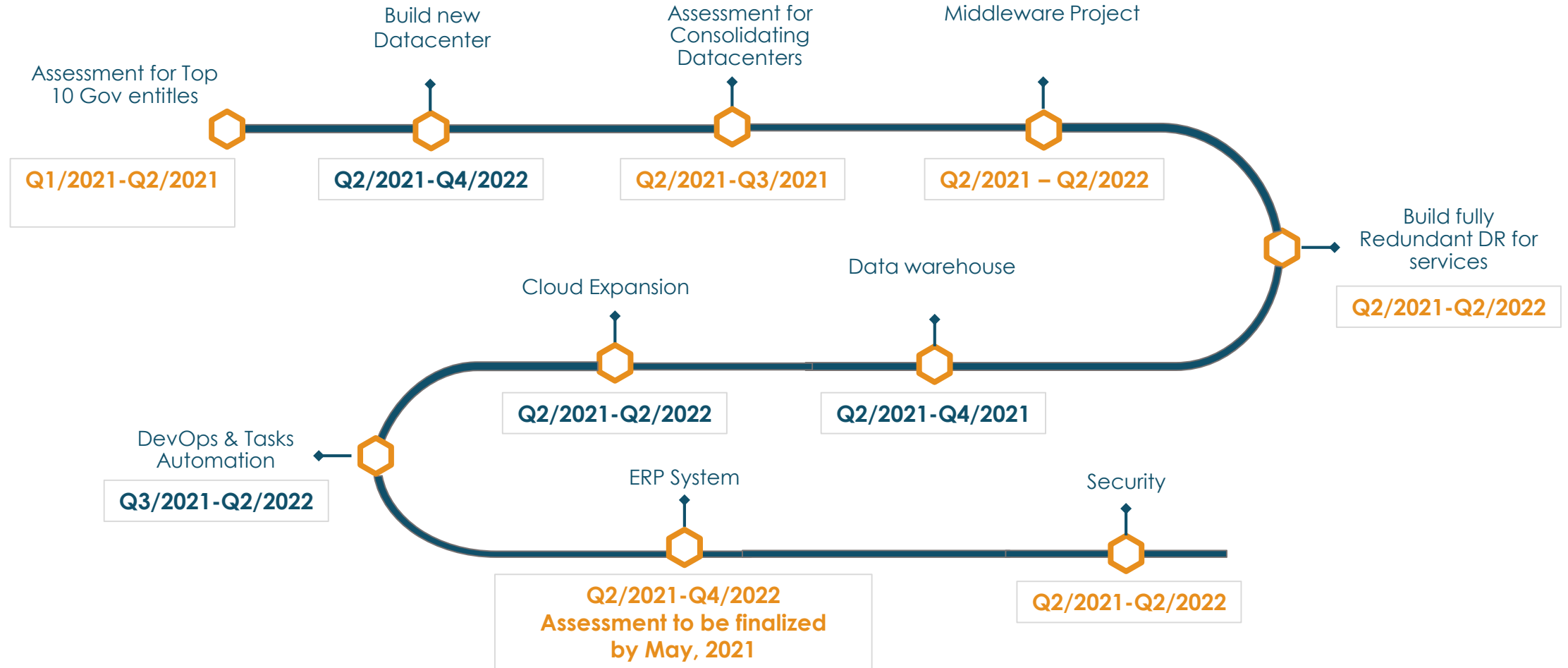
Data Strategy



Data Infrastructure



Infrastructure & Data Digital Transformation Roadmap



Needed Resources

20 Resources

Budget

JOD 27M

Project Timeline

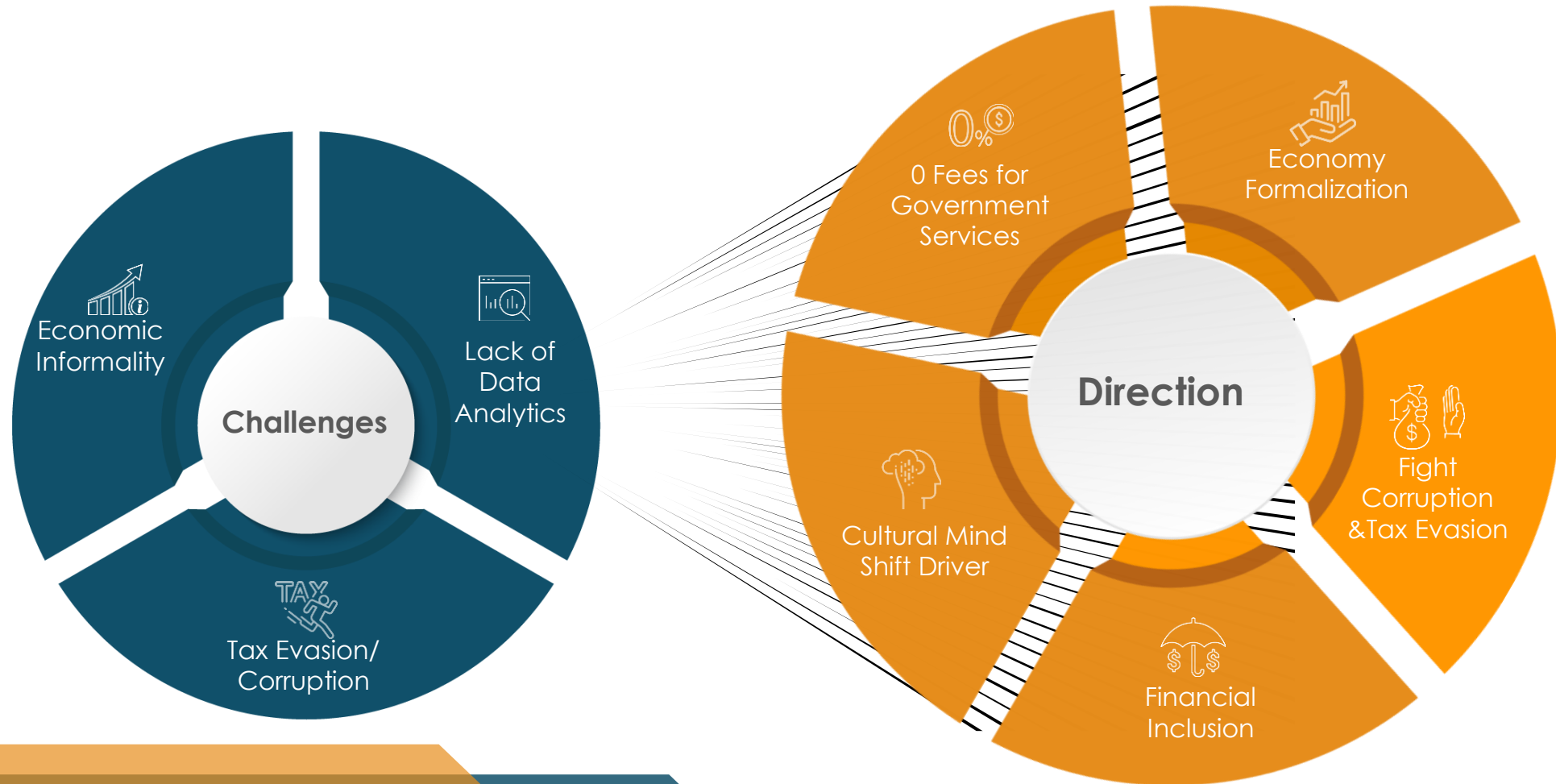
2 Years

Main Platforms

5 Platforms

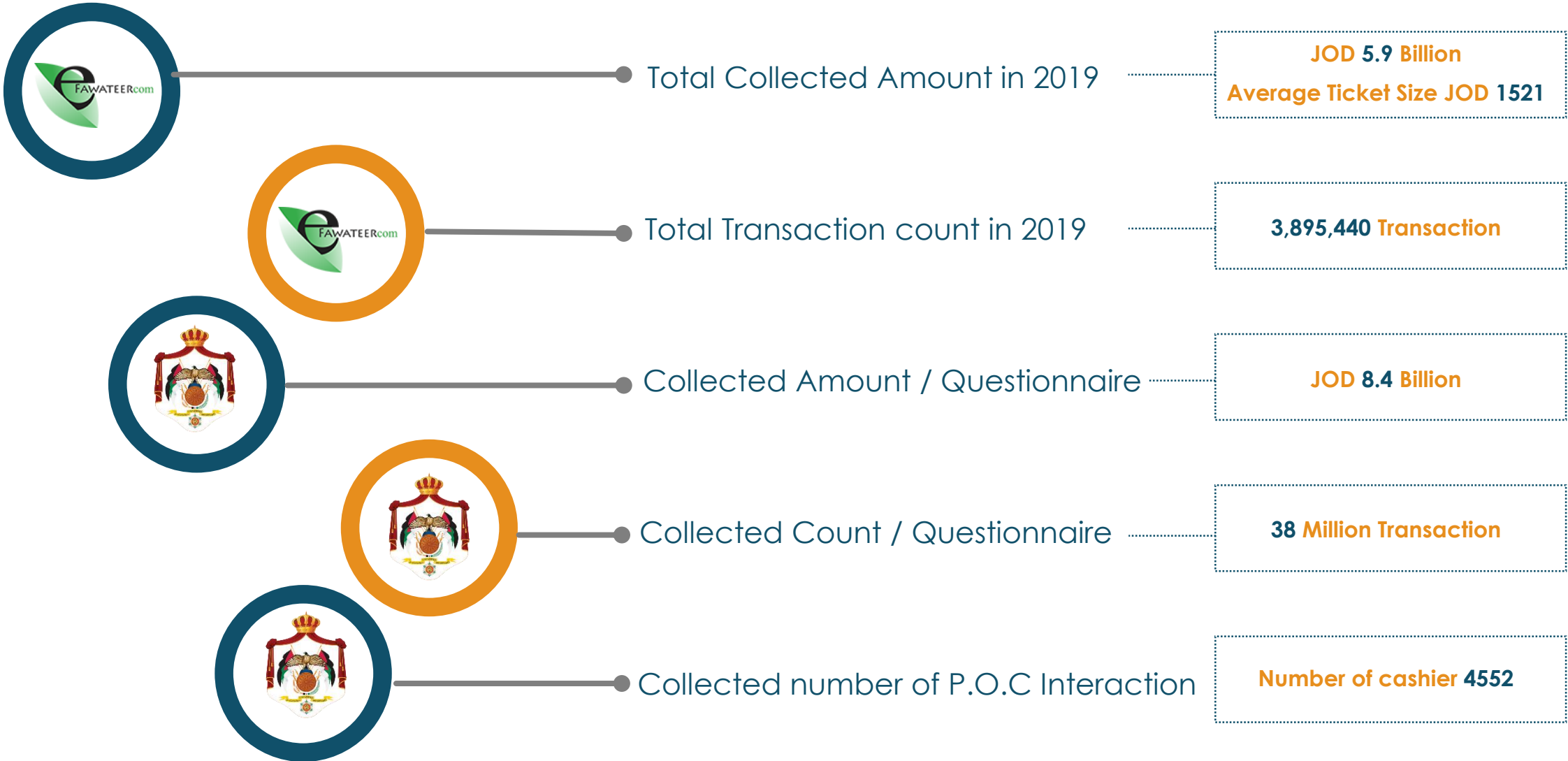
Digital Payment Transformation

To create an inclusive and formalized digital economy that limits corruption, tax evasion, and lack of information



Key Transactions Numbers

Collected Data



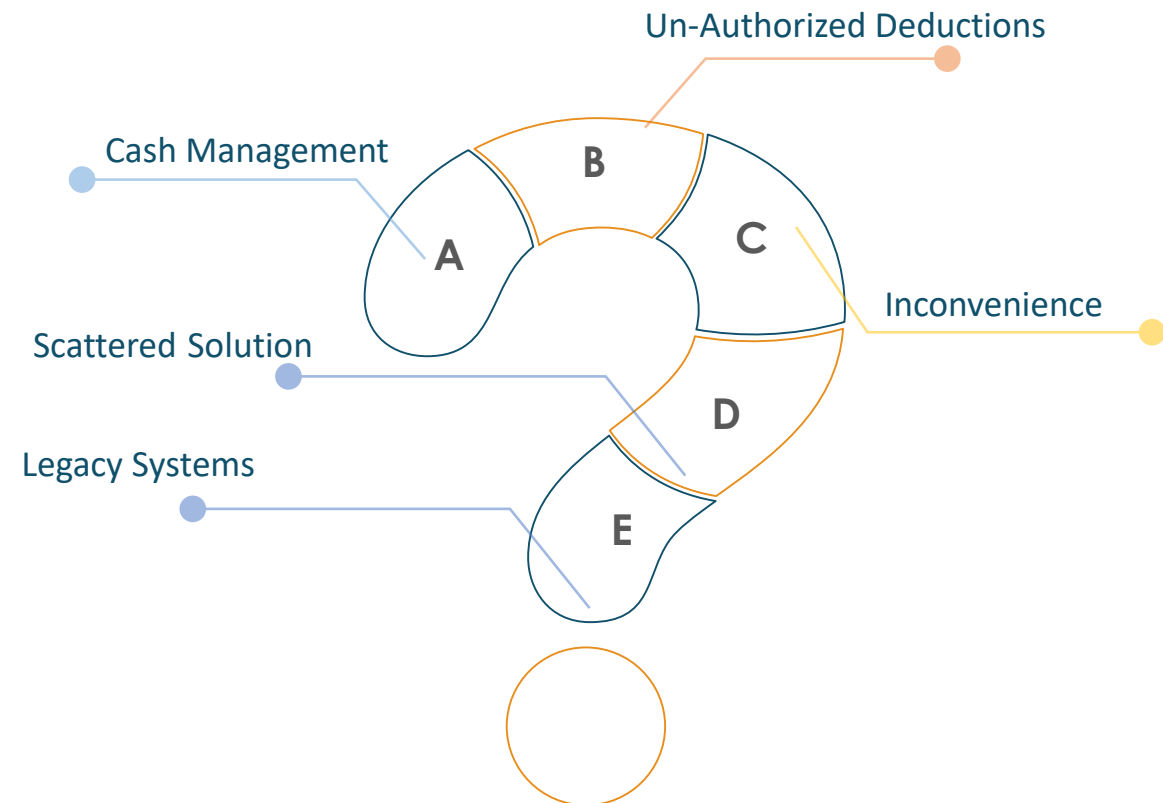
Digital Transformation - Digital Payment Transformation

MoDEE is currently working on the digital payments architecture to be able to transform into a cashless government and cease receiving cash receipts. The TOR is in the final stages of being signed off to start the tender process.

Government Benefits

- Improve Citizens Experience
- Reducing Economic Informality
- Creating New Jobs
- Eliminating the Risk of Fraud
- Making Government Payment Data more Accurate

Current Challenges



Digital Payment Transformation

Potential Bidders will suggest the possible new design that fulfills the government of Jordan needs to achieve Digitization of Person/Business – to – Government Payments.

CHANNELS

- eFAWATEERCOM
- MOBILE WALLETS
- Bank accounts
- CARDS
- Aggregators
- Others

TECHNOLOGY

- eFAWATEERCOM
- MOBILE WALLETS
- Bank accounts
- CARDS
- Aggregators
- Others

USERS

- NFC *
- DIRECT PAY
- QR CODE
- CARDS
- BIOMETRIC
- WEB / IN-APP
- KEY ENTRY

BACK-END

- INTEGRATION
- RECONCILIATION**
- REPORTING
- APIs

SUPPORTED SERVICES

- DEVICES
- KIOSKS
- AGENTS

* Wallets ,Physical Cards ,Bracelet...Etc.

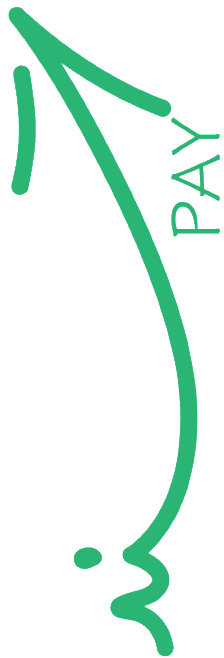
** Clearing, Settlement, Switching, Processing , Operating...Etc..






Digital Payment Platform - Jordan Beyond Cash Payments in 2021

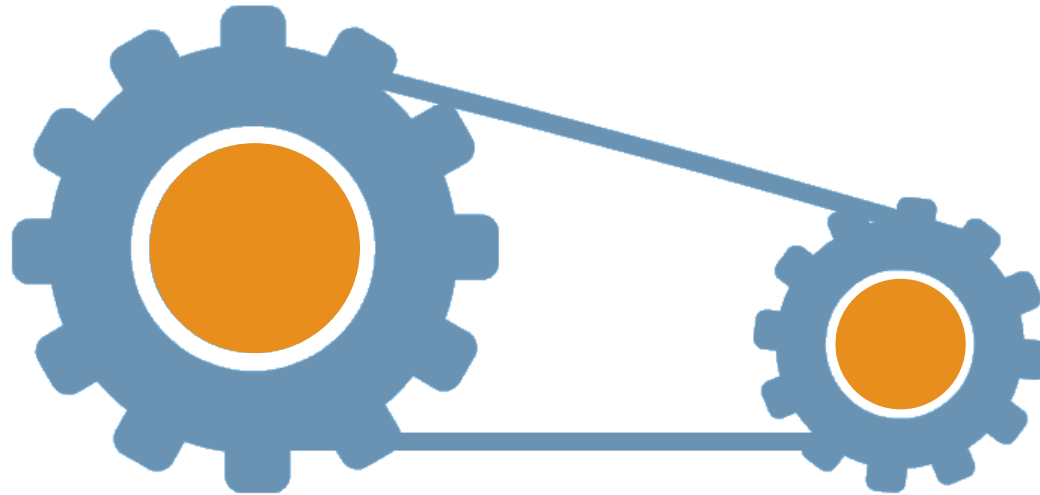
National Payment Switch will be owned by the Government and operated by the private sector
The latest in payment technology will be implemented to ensure seamless citizen Journey

Payment Channels

National Payment Switch



- Aggregator 
- Bill Presentment (eFawateercom) 
- Kiosk 
- Device 
- Online Payment 



Front – End

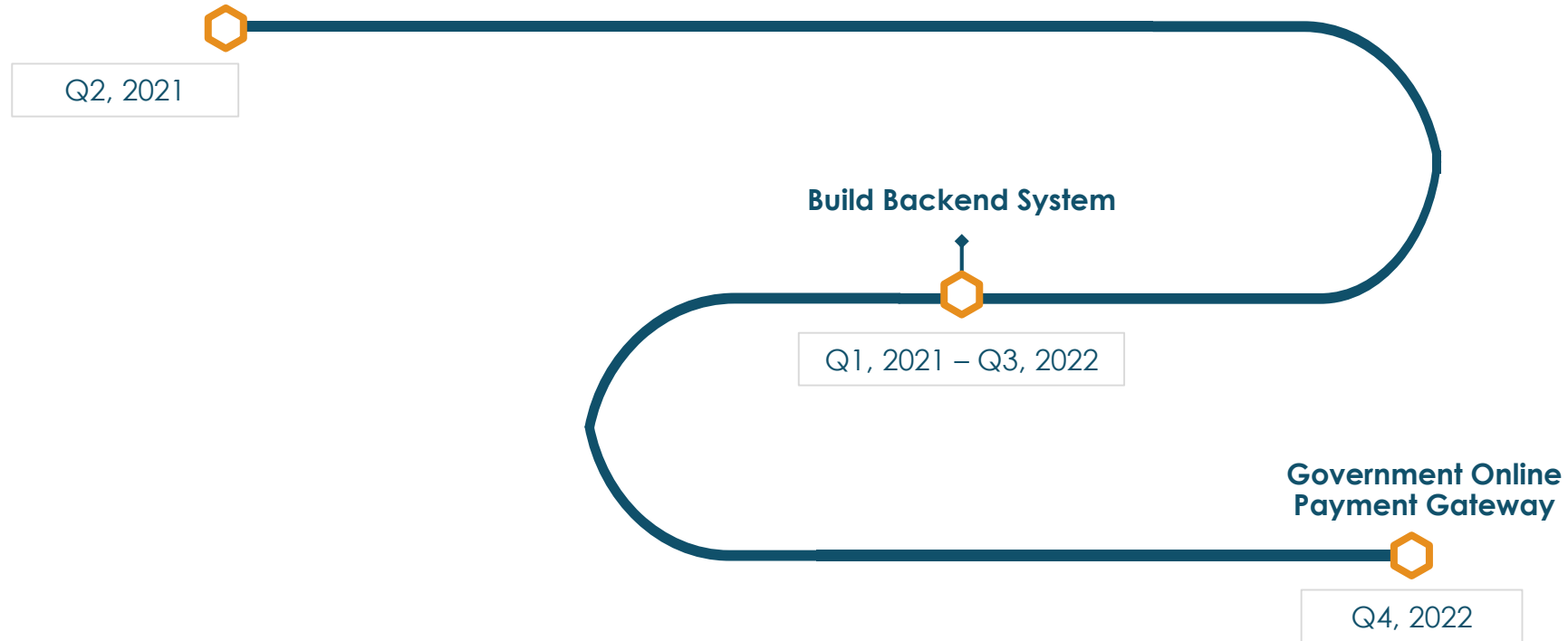
Back – End

Government Entities

Democratizing Payments Channels In Jordan

National Payment Switch will be owned by the Government and operated by the private sector
The latest in payment technology will be implemented to ensure seamless citizen Journey

Assessment of Current Payment Channels



Needed Resources

9 Resources

CBJ, YTJ, MoF, MoDEE

Budget

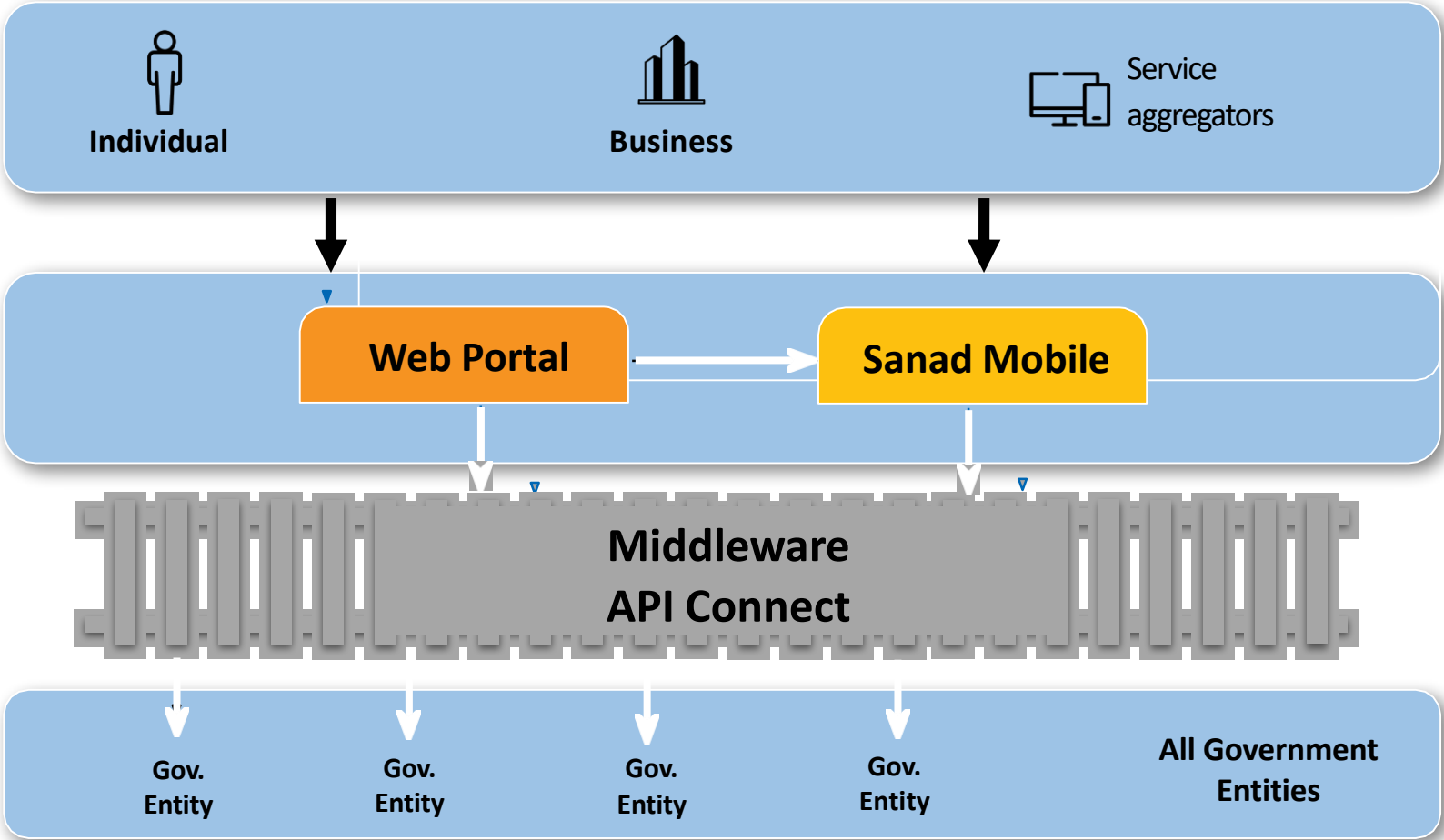
JOD 1.5M

Project Timeline

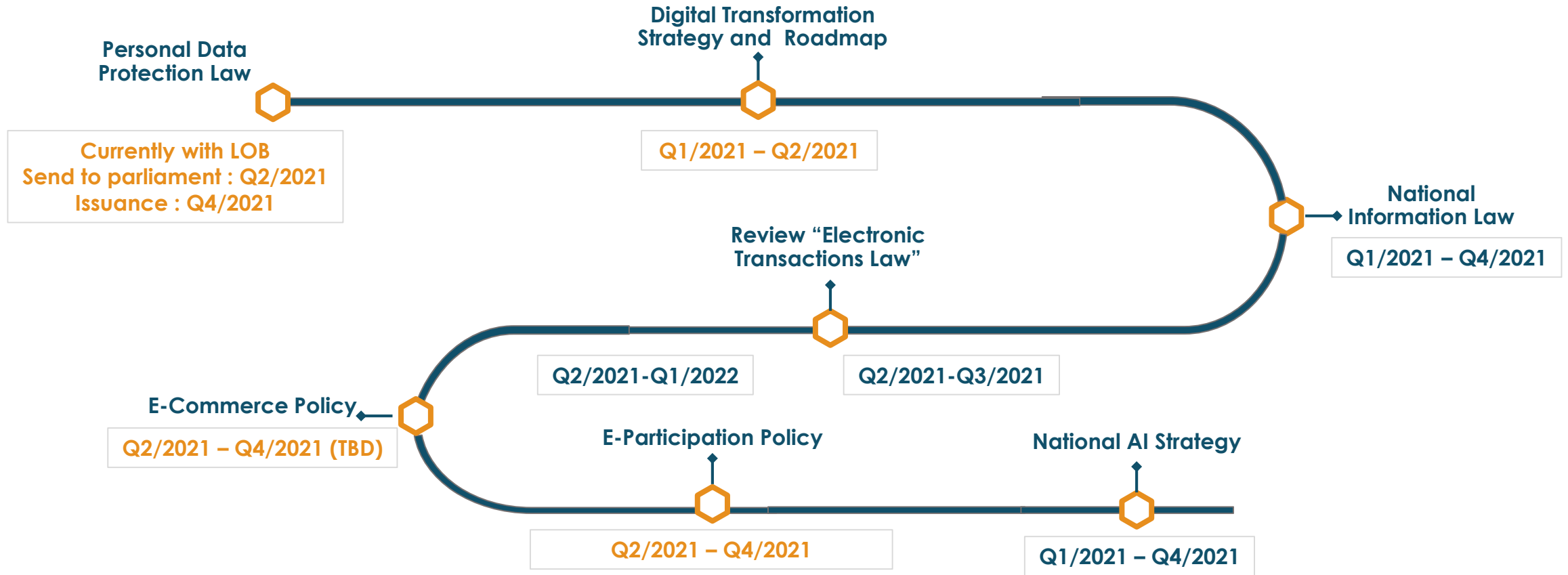
1 Years

Government Services Architecture

Moving forward



Policies & Strategies Digital Transformation Roadmap



Needed Resources

0

Budget

0

Project Timeline

1 Years

National Cyber Security Centre (NCSC)



MoDEE recognizes the importance of having an effective cybersecurity ecosystem since a national cyberspace is a modern environment that requires systematic and comprehensive protection at the international, domestic, and sectoral levels.



The protection of information assets in the Kingdom is, therefore, crucial to ensure the security of all those who work and reside therein, create new investment opportunities, and develop businesses while increasing their effectiveness and efficiency.



The Government has issued the National Cybersecurity Strategy 2018-2023 and a set of institutional policies related to national cybersecurity.

Jordan Computer Emergency Team (JoCERT)

MoDEE Established JoCERT in April 2018 to monitor the government network, enforce government information security policies, respond to information security threats, determine vulnerabilities and protect national critical infrastructure.

- Accountability and ownership to move to the National Cyber Security Centre.

No. of Detected Breaches	204
No. of Handled Incidents	1690
No. of Log Sources	32
No. of Threat Intel. Reports	321
CERT Systems' Availability	99.994
Risk Assessments operations	39 Entities
No. Of Security Information and event management Rules	128 Rule

Digital Transformation – Entrepreneurship Ecosystem

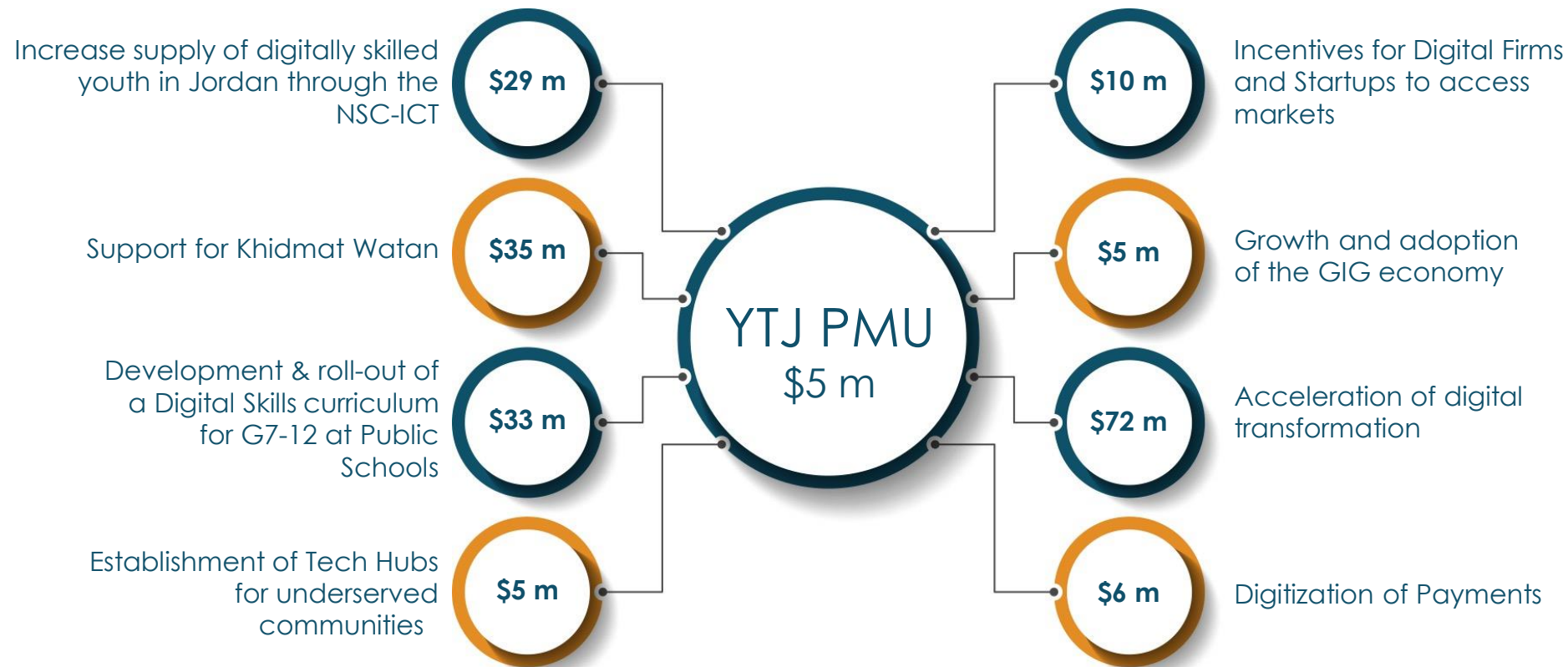


**Finalizing new Strategy for Entrepreneurship Ecosystem Digital Transformation is in progress

Youth Technology and Jobs (YTJ)

YTJ project aims to support, improve digitally-enabled income opportunities and expand digitized government services in Jordan (full detailed plan is in the YTJ project documentation).

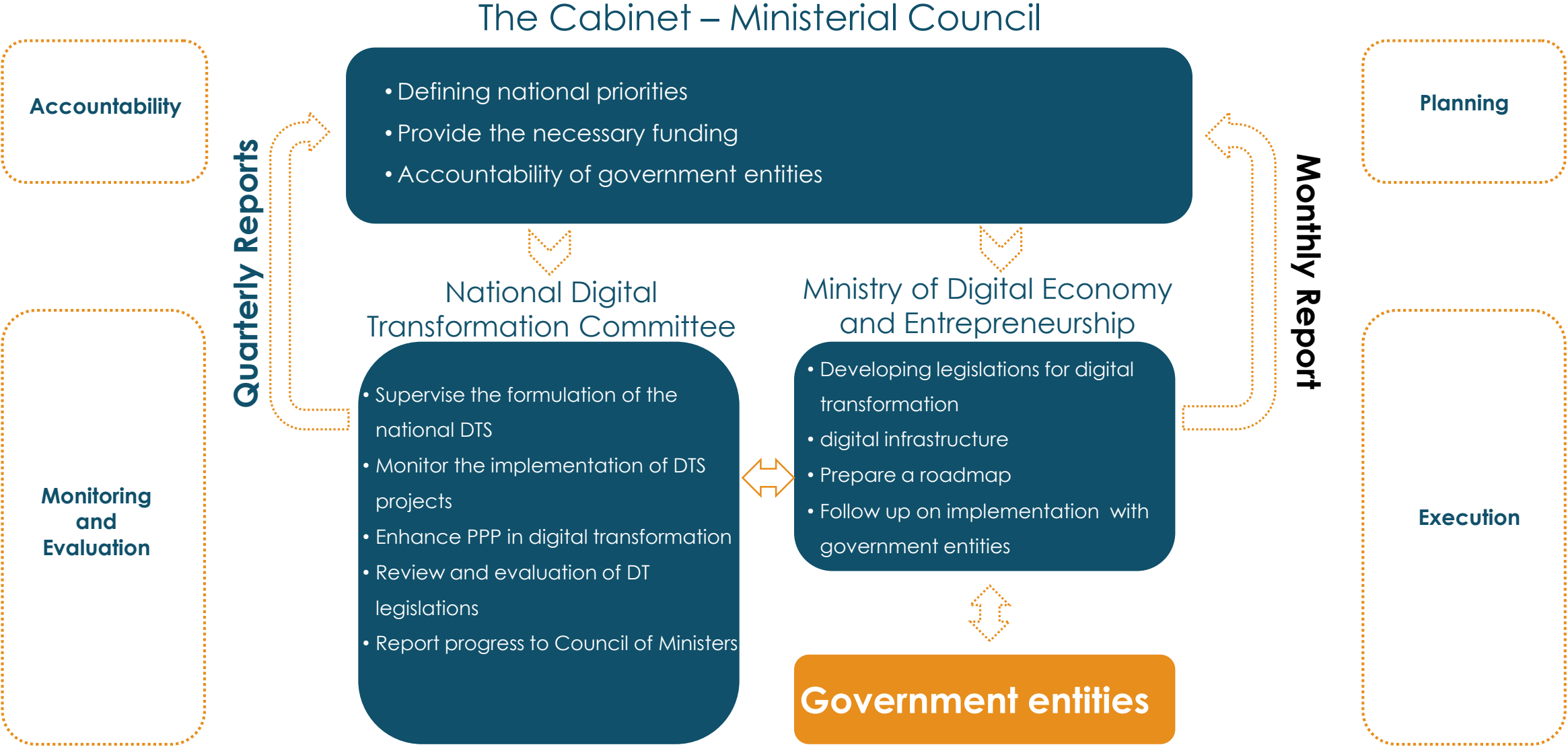
YTJ is a 200 million USD project financed by the World Bank for a period of five years.



Change Management



Digital Transformation Governance Model



Connectivity



- Incentivize the investment in expanding and continuously upgrading telecom networks
- Review the regulatory environment to make it more supportive for investment and growth
- Support the expansion & penetration of fiber connectivity to households and businesses
- Incentivize and support the investment in 5G and its roll-out to achieve more than 50% coverage within 3 to 4 years.
- NBN PPP Project and achieve 100% connectivity for all government entities
- Telecom operators and internet providers as strategic digital transformation enablers
- Support the enhancement of the average mobile internet speed through optimal spectrum usage and licensing scheme

Other Priorities (2021)

In addition to the list of projects and service automation initiatives, MoDEE is working on other priorities in 2021 including below shared services:

Shared Services	Potential PPP Projects
Trasul	Ministry of Health
Digital Wallet	Department of Land and Survey
Document Management System	Income and Tax Department
ERP	Ministry of Higher Education & Scientific Research
Cloud Queueing System	National Broadband Network (NBN)
Modernization Hosting (DevOps)	
Government Customer Service Technology (Chatbot, IVR, etc.)	

A nighttime cityscape featuring several prominent skyscrapers with illuminated facades. The sky is dark blue, and the city lights create a vibrant glow. A decorative bar with a blue-to-orange gradient is positioned at the bottom of the image.

Thank You