

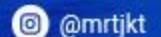


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increasing mobility, improving life quality

# Governing Digital Transformation in MRT Jakarta

Diskusi Panel GRC Series 2021

8 Juli 2021



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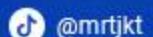
MRT Jakarta



MRTv



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Management System  
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Jak  
Lingko

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# Introduction

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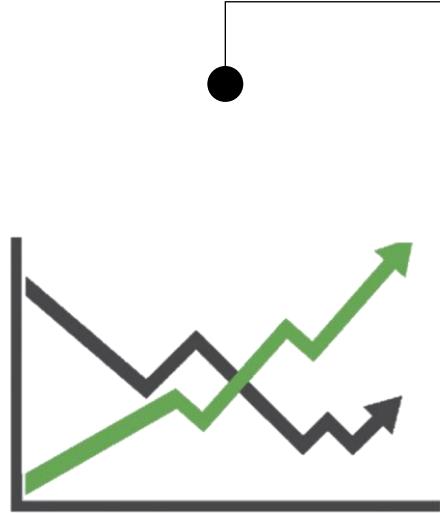
# MRT Jakarta: Menjawab Tantangan Kota Jakarta



VISI:  
**Increasing Mobility,  
Improving Life Quality**

# Latar Belakang

## ***THRIVING IN VUCA***



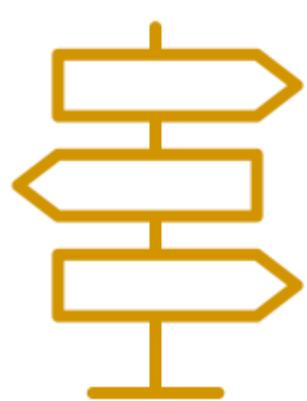
**VOLATILITY**



**UNCERTAINTY**



**COMPLEXITY**



**AMBIGUITY**



# Latar Belakang



## DINAMIS

Teknologi tidak berhenti dan stagnan, melainkan selalu ada yang baru setiap saat.



## PLATFORM

Transformasi produk yang memungkinkan untuk dapat bekerja dengan produk lain melalui *Platform*.

01

## TEKNOLOGI INDUSTRI

Industri mengalami *shifting* menjadi basis digital dan *online*.

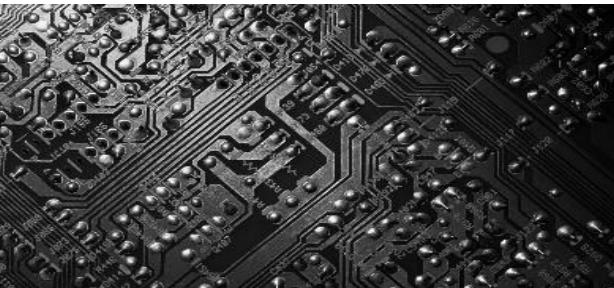


02

## DISRUPSI

Membawa masa depan ke hari ini. Dikembangkan oleh orang-orang baru (berpandangan-berilmu-bersemangat masa depan), mayoritas berusia muda.

03



04

## BUDAYA DIGITAL

Perubahan dalam cara bekerja, bersosial menjadi kolaboratif dalam jejaring, cepat dan serempak.

05

# Latar Belakang



Business  
Beyond  
Normal

## DIGITAL TRANSFORMATION

Beyond Ridership

Beyond Physical  
Mobility

Beyond Transport  
Network

### Enhance Customer Journey

Provide innovative products & services to gain competitive advantage with a consumer-centric approach and emphasis on customer experience

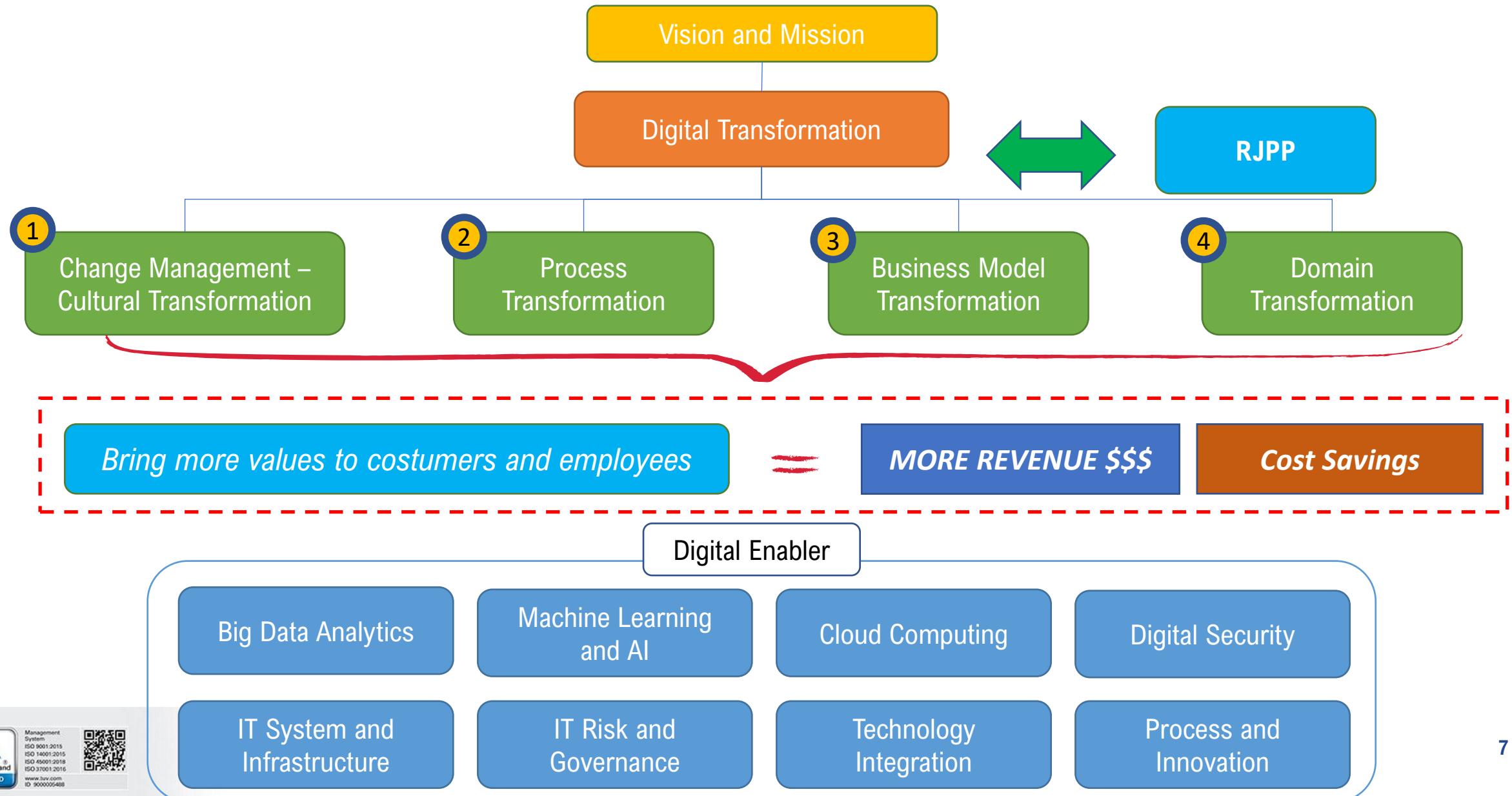
### Maximize Revenue Growth

Provide innovative products & services to gain competitive advantage with a consumer-centric approach and emphasis on customer experience

### Enhance Productivity

Enhance business processes with digital tools, increased automation, cost optimization

# High level concept of Digital Transformation



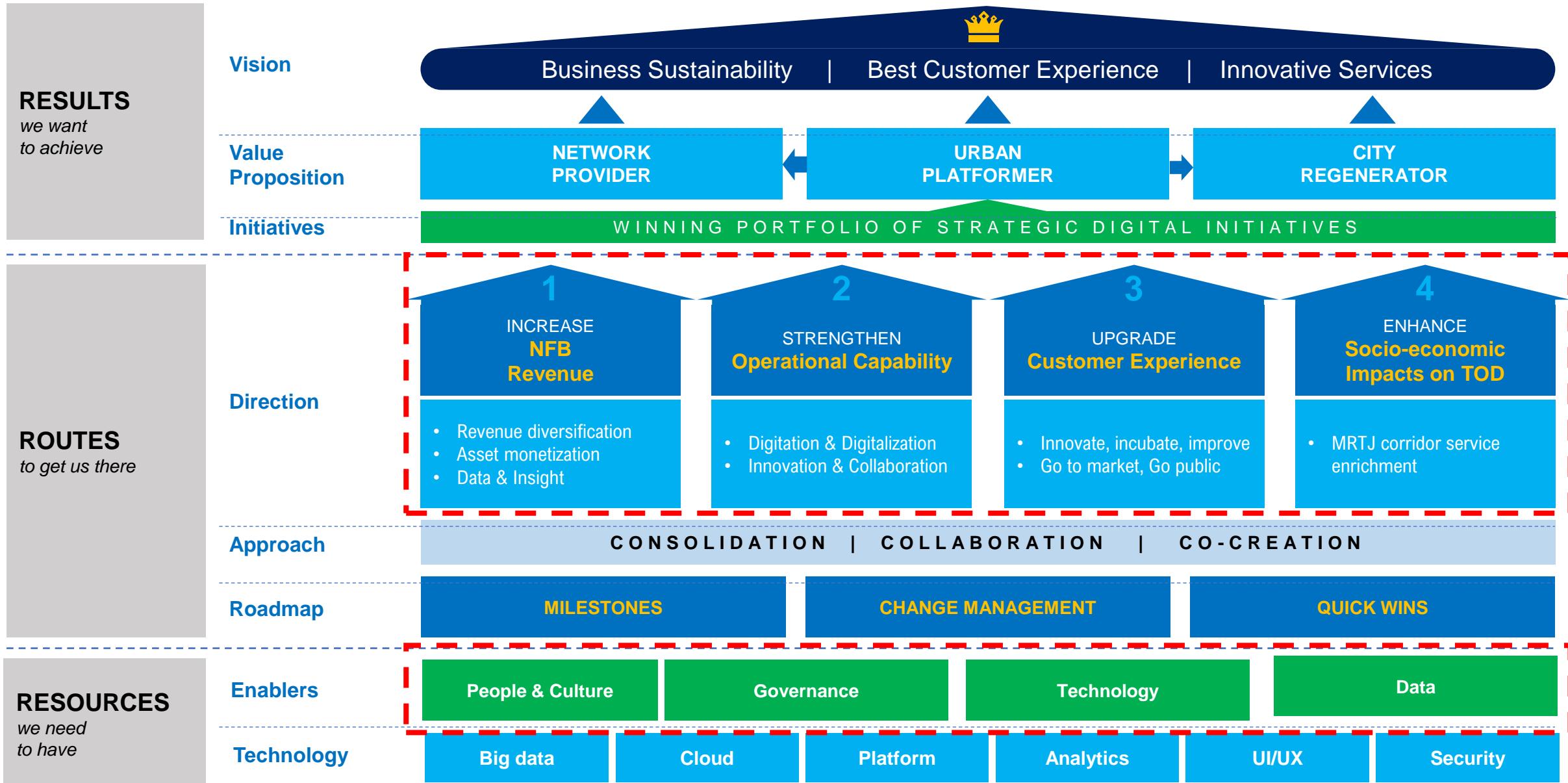
# MRTJ must digitally transform to become an ecosystem player





## WHAT CAPABILITIES MUST WE HAVE

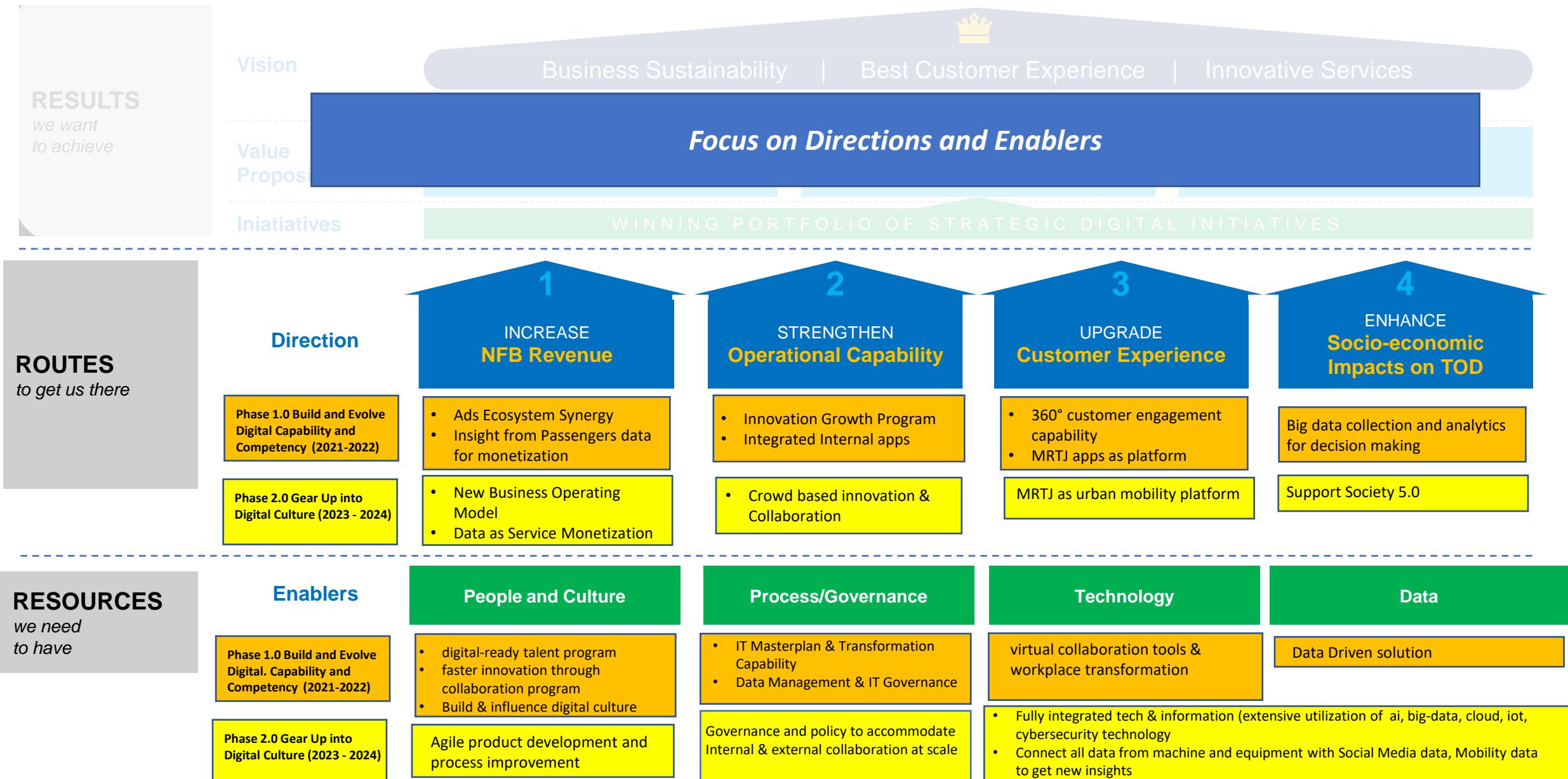
# MRTJ Digital Transformation Building Blocks





# Digital Transformation Phases

# MRTJ Digital Transformation Building Blocks





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# Digital Business

Transforming Our Business Processes



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# Where are we now (Focusing on Transformation V. 1.0)

## INCREASE Non-Fare Revenue

Passengers Data Management
Advertising Ecosystem Synergy

## UPGRADE Customer Experience

MRTJ Mobile Apps
• Content Management System
• Loyalty Program
• Implementation of ABT
• Omni Channel Digital Listening Tools
• Customer Relationship Management

## Digital Transformation



Transforming Business  
Beyond Normal

## STRENGTHEN Operational Capability

Innovation Program	eOffice	Dinamiq
• MRTJ Accel	Kinetics	eProc
• MRTJ Incubator	ERM	GAAS
Sistem Monitoring Pembayaran Proyek		
Digitalization of Project Management (BIM, CDE)		
KLOLA	Success Factor	Integrated Internal Apps
Contract Monitoring Tools		
Other internal initiatives		

## ENHANCE TOD SocioEconomic Impact

TOD Data Platform in collaboration w/ MAPID
---

## ENABLERS

### People and Culture

Faster Innovation through Collaboration

Innovation Center/Transformation Office

Digital Talent Program

### Process/Governance

Digital Transformation Roadmap

IT Masterplan

Implementation of Data Management and IT Governance

### Technology

Infrastructure and policy to promote Mobile Working and Virtual Collaboration

- MS Teams
- OneDrive

### Data

Data Lake/Center

Big Data Analytic Tools

# MRTJ Incubator Partnership

3-month program focusing on impacted individuals due to COVID-19 situation and fresh graduates of IT background, through providing support from mentorship to investment to grow both MRTJs and their businesses in developing Minimum Viable Products

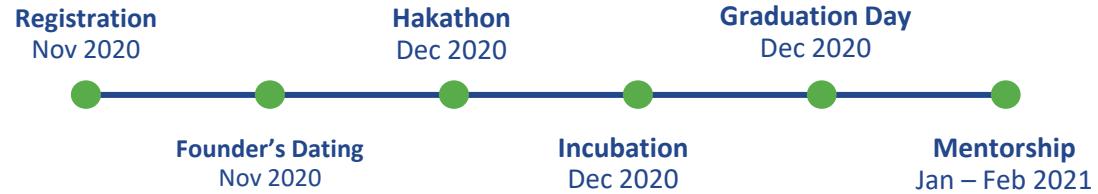


## 4 Selected Partners

Out of 998 Individual Applicants & 219 Ideas



## Timeline



# MRTJ Accelerator Program



*MRTJ Accel is an accelerated program hosted by MRT Jakarta to collaborate with start-ups to create innovative products or services with the end goal of commercializing together with MRT Jakarta*

## Selected Startups

**nodeflux**



**Jejak.in**

**PasarPolis**



*The objective of this program is to launch new solutions (Products or Services) that will benefit both parties such as increase Revenue, Branding, and Customer Experience*

# Digital Construction with BIM Implementation

## Lesson Learnt from Phase 1 Project

- Non-automated working process (manual CAD design drafting)
- Dispersed Asset Data for maintenance records

The need for Improvement

## MRT Jakarta Vision & Objectives for Phase 2A Project

To implement BIM successfully, We need to adapt our **MINDSET** to upscale the project's process through CDE/BIM!

- Cross coordination process between organization become more effective
- Avoid re-work with clash detection during design stage
- Standardize business process for all parties including document and asset naming
- Enhance traceability & accountability
- Interoperability of all project information
- Working in one platform/common data environment.

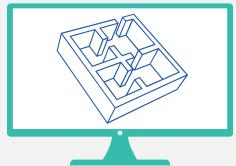
## BIM FEATURES

### SIMULATION



Provides greater project insight for cost, schedule, and constructability

### VIRTUAL



Uses 3D models to capture, explore, and maintain consistent and coordinated planning, design, construction, and operational data.

### INTERCONNECTED



Enables prompt response to change with processes that are smarter and faster

### INTEGRATED



Uses and shares the same consistent data whether you're at your desk or in the field



# Leveraging Digital Assets: Social Media

## Growing Social Media Assets

# of Followers



290,201



64,208



62,956



17,552



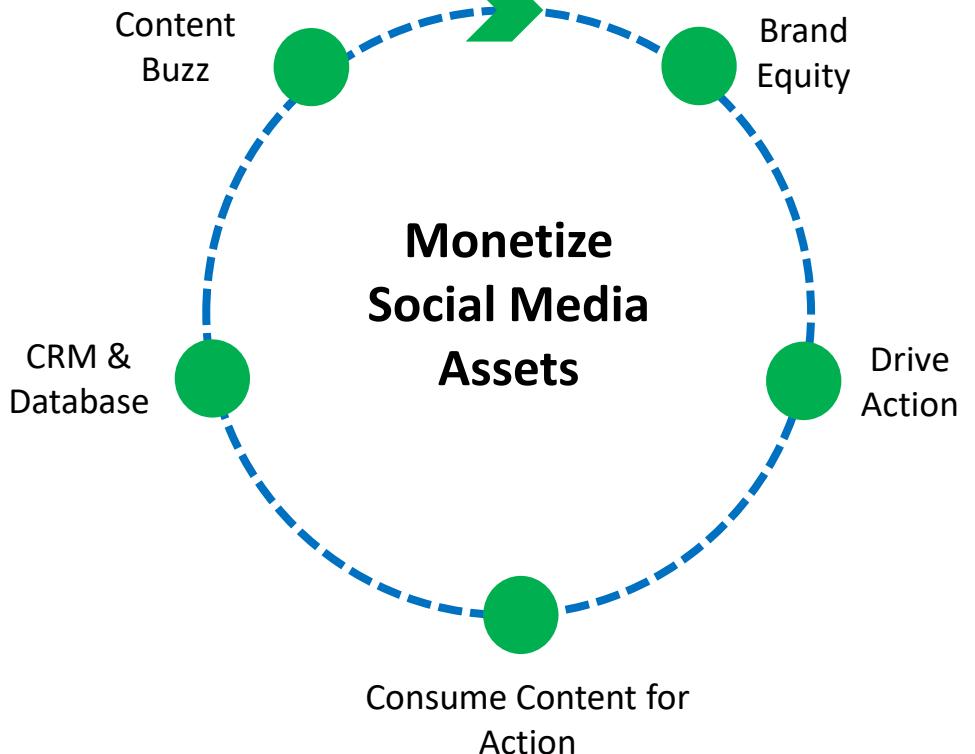
8,225

## Focusing on Advertised Content

**80% : 20%**

*Owned Content*

*Commercialized Content*



# Digital Governance

Governing Transformed Processes  
through Digital Oversight



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# Digital Oversight on Governance



KPI Dashboard



Online Whistle Blowing System

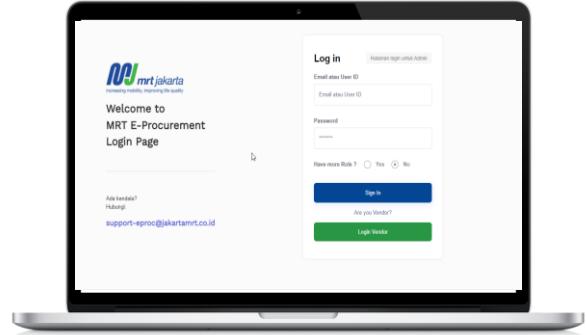
PT MRT Jakarta telah memiliki sebuah sistem monitoring pencapaian KPI unit kerja yang dilakukan secara online dan bisa diawasi secara langsung oleh Direksi dan Komisaris

PT MRT Jakarta telah memiliki sebuah sistem pelaporan dugaan pelanggaran (*Whistle Blowing System*) yang sudah mengatur tata cara pelaporan dugaan pelanggaran sebagai bentuk perlindungan terhadap para *stakeholders* dan perlindungan nama baik perusahaan



Enterprise Risk Management System

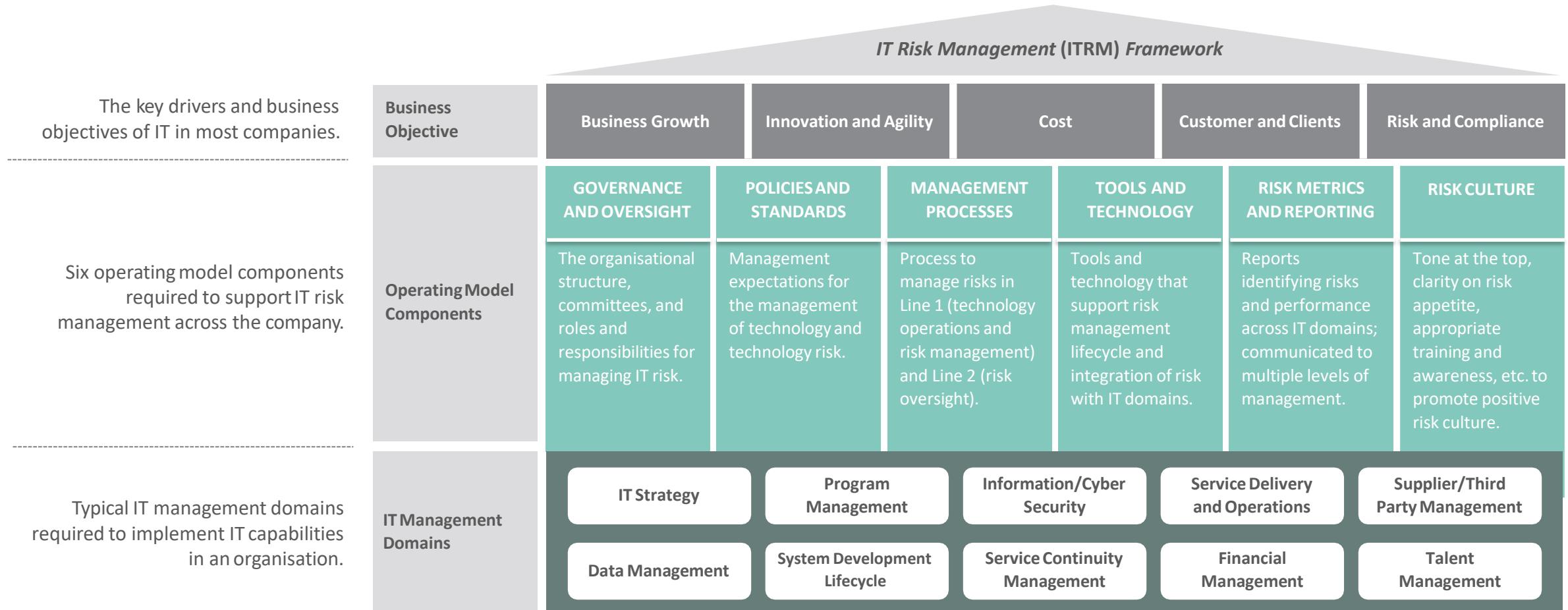
MRT Jakarta telah memiliki database Risk Register dan Risk Monitoring dalam jaringan VPN yang diisi secara berkala oleh seluruh unit kerja. Hasil dari pengisian ini kemudian diolah oleh Divisi Risk Management menjadi Corporate Risk Profile dan menjadi dasar pelaksanaan audit Divisi Internal Audit



SAP and Online Procurement

Pengadaan di MRT Jakarta sudah menggunakan e-procurement sehingga pelaksanaan pengadaan dapat diawasi dengan transparan dan akuntabel. Data ini juga terintegrasi dengan SAP Divisi Keuangan untuk keperluan pencatatan pembayaran

# Implementing IT Risk Management Framework



# Penerapan ISO 27001

Goal:

- Protecting Fraud in IT Transaction terutama dgn Pihak 3rd Party
- Protecting from Cyber Security

SECOND LINE	Corsec	RMQA	IT	Finance
FIRST LINE	<b>HC</b> <ul style="list-style-type: none"> <li>• Membangun mindset Innovasi</li> <li>• Karyawan - Kebijakan Keharasiaan Informasi Perusahaan</li> </ul>	<b>Railway OM Directorate</b> <ul style="list-style-type: none"> <li>• OCC</li> <li>• Sistem Signal – CBTC</li> <li>• Sistem AFC (*)</li> <li>• Sistem QR Code (*)</li> <li>• MMS Maximo</li> <li>• Security Command Center</li> </ul>	<b>Busdev Directorate</b> <ul style="list-style-type: none"> <li>• Digitalisasi Commercial &amp; Retail</li> <li>• Monetisasi Digital Assets</li> </ul>	<b>Construction Directorate</b> <ul style="list-style-type: none"> <li>• Building Information Modelling</li> <li>• Electronic Data Management System</li> </ul>

# Identifikasi insiatif/ Kegiatan- Internal Audit



INCREASE NON-FARE REVENUE



STRENGTHEN OPERATIONAL CAPABILITY



UPGRADE CUSTOMER EXPERIENCE



TOD SOCIO ECONOMIC IMPACT

2021

1. *Internal Audit Management System (IAMS)*
  - Perencanaan, Pelaksanaan, Pelaporan Audit
  - Monitoring Tindak Lanjut
  - Ditargetkan selesai Tahun 2021
2. IAMS ini akan terhubung dengan ERM dan BPC sebagai input untuk perencanaan audit dan hasil auditnya akan masuk ke dashboard BOD – BOC dan ERM

2022

1. *Continuous Audit Monitoring System*
  - Monitoring kegiatan pada unit kerja dengan parameter yang ditentukan
  - Data Terintegrasi dengan setiap unit kerja dengan tools Data Analytics



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# Challenges and Opportunities in Implementing Digital Governance



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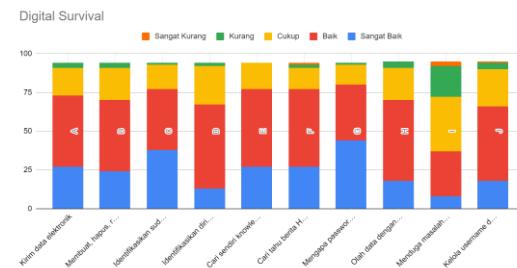
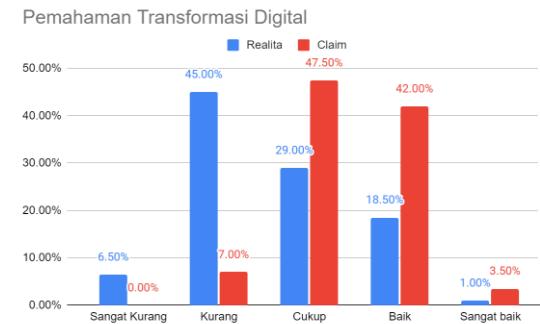
# Digital Transformation Readiness Survey

Digital Transformation Readiness Survey was done to assess organization's capability to run digital transformation

Digital Transformation Readiness Survey was conducted from 19 March 2021 – 21 March 2021 for all MRTJ Employees (From Staff to BoD)



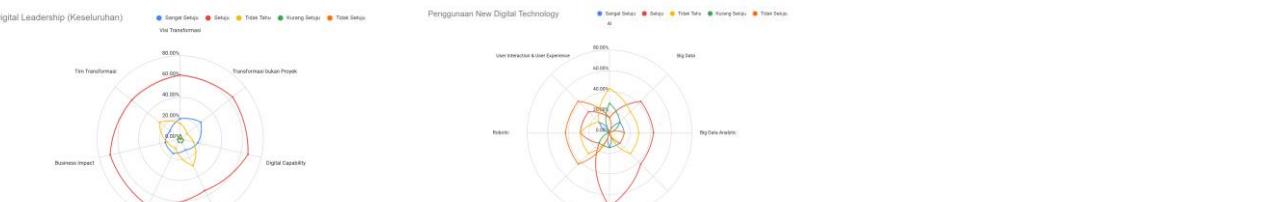
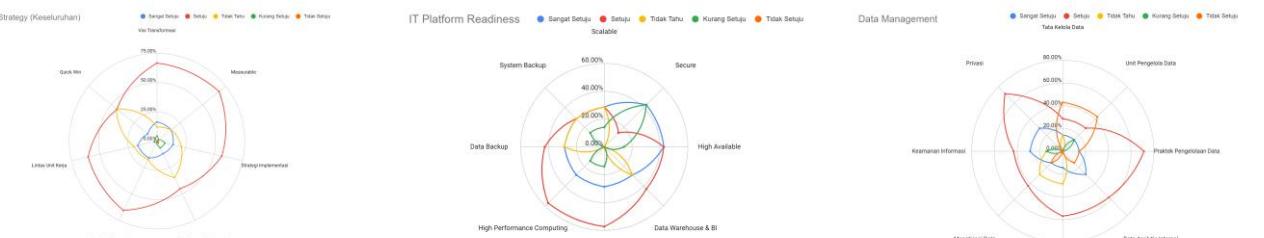
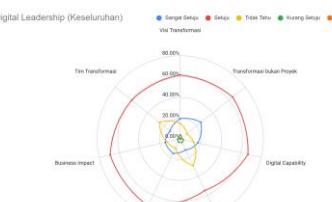
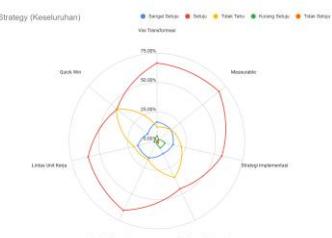
PEOPLE



## Survey Aspects



PROCESS



TECHNOLOGY

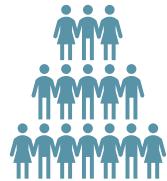


DATA MANAGEMENT

## Conclusion

From Digital Readiness Survey, MRT Jakarta already achieved readiness score 85%, therefore the consultant (ITB) concluded that MRT Jakarta as an organization is ready to implement Digital Transformation

# Peluang dan tantangan



## PEOPLE

700+ Employee  
80% are Millenials and Gen Z

**PELUANG**

## PROCESS/PROCEDURE

ISO Certified  
ISO9001:2018  
ISO45001:2018  
ISO14001:2015  
ISO37001:2016

## TOOLS

ERP SAP  
Office365  
Cloud and On Premise Server  
Smart Office

**TANTANGAN**

Bagaimana menyiapkan SDM yang terampil dan tech savvy?

Bagaimana process/prosedur yang telah ada dapat terintegrasi?

Bagaimana menciptakan ekosistem technology yang terjamin keamanannya, user friendly dan up to date?

# Implementing Digital Governance



# Terima Kasih



## PT MRT JAKARTA

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P (62) 21 – 3103629 | (62) 21 – 3906454 | F (62) 21 – 3155846

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