FUTURE OF PORT OF TANJUNG PELEPAS
TRANSFORMATION & SUSTAINABILITY

24 SEPTEMBER 2021

BUSINESS OVERVIEW

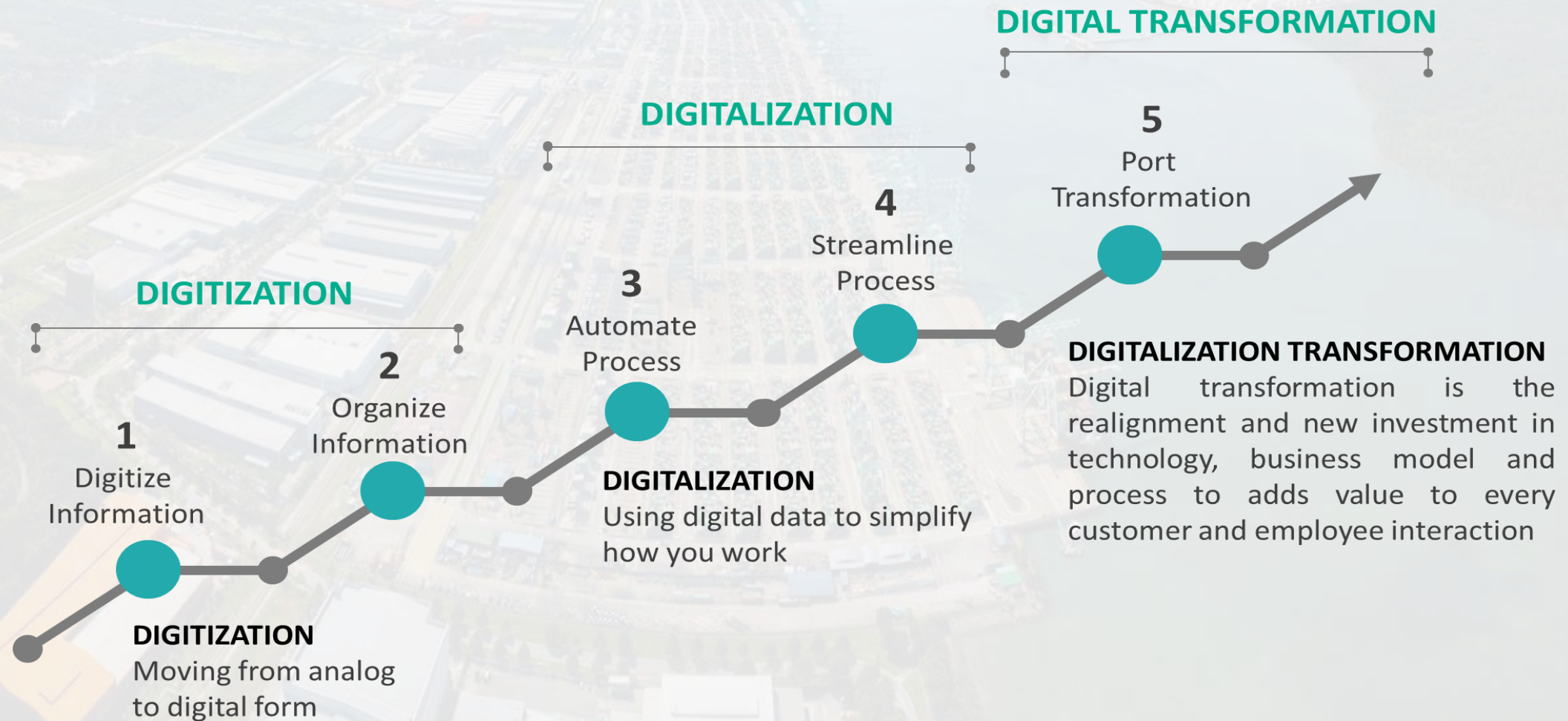**2**
strong
shareholders

3
core
businesses

130
mil TEU
since inception

9.8
mil TEU handled
in 2020

15
world
ranking

17%
Compounded Average
Growth Rate (CAGR)

1998
free zone
authority

>40
international & local
free zone tenants
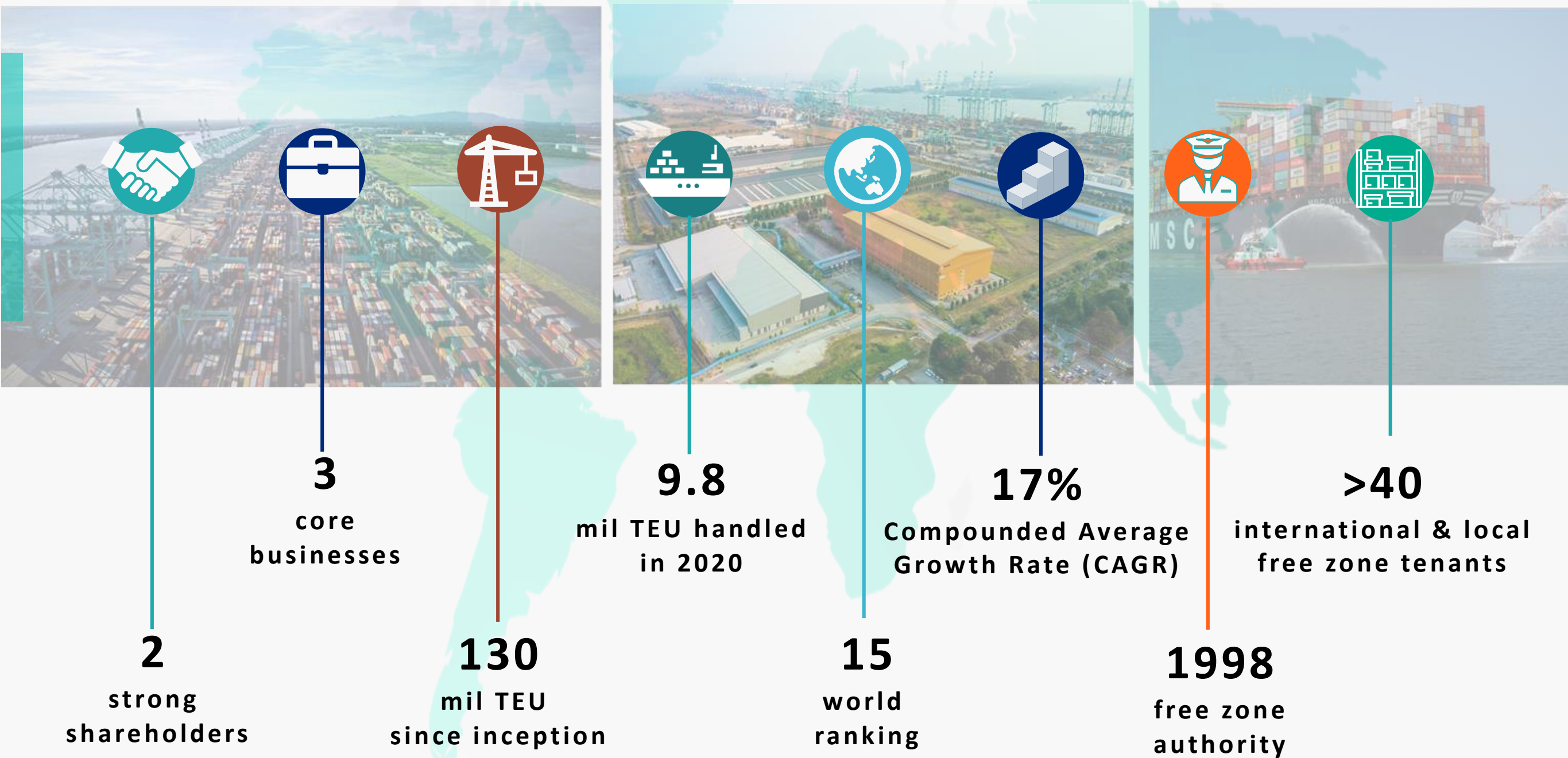
DIGITAL TRANSFORMATION

OUR JOURNEY

DIGITAL TRANSFORMATION

5
Port
Transformation

DIGITALIZATION

4
Streamline
Process

3
Automate
Process

DIGITIZATION

2
Organize
Information

1
Digitize
Information

DIGITIZATION
Moving from analog
to digital form

DIGITALIZATION
Using digital data to simplify
how you work

DIGITALIZATION TRANSFORMATION
Digital transformation is the realignment and new investment in technology, business model and process to adds value to every customer and employee interaction

FIXING THE PAST - FOCUSING ON THE PRESENT - CREATING THE FUTURE

IN OTHER WORDS...

1 **FOCUSING ON TERMINAL OPERATIONS . . .** **2** **WITH A SOLUTION...** **3** **VIA DIFFERENT TECHNOLOGY**

BUSINESS PROCESSES AND INFRASTRUCTURE MANAGEMENT
Integrated Management of main business processes including Automation and Optimization

INFORMATION AND TECHNOLOGY
Technologies, processes and controls to protect systems.

Platform for Data and Analytics.

HEALTH, SAFETY, SECURITY AND ENVIRONMENT
Integrated and Intelligent Security Management System

TERMINAL OPERATIONS
Intelligent Asset, Infrastructure and Resource Management

TERMINAL OPERATIONS

MOVING CARGO SMARTER, FASTER & MORE EFFICIENT

TERMINAL OPERATING SYSTEM (TOS)

- Real Time monitoring and management of operational activities
- Future port automation module.

SMART SUITE

- Smart Applications to optimize planning, visibility and asset utilization.

BERTH OPTIMIZATION ENGINE

- helps PTP to increase their quayside profitability by modernizing the berth planning operations

Gaining Operations Visibility

Optimizing Operations Process

navis N4

INCENTIVE APPS

- Drive behaviours
- Increases staff productivity, provides company engagement insights

MARINE RESOURCE MANAGEMENT SYSTEM

- Maximize resource efficiency including tugboat and workboard allocation.
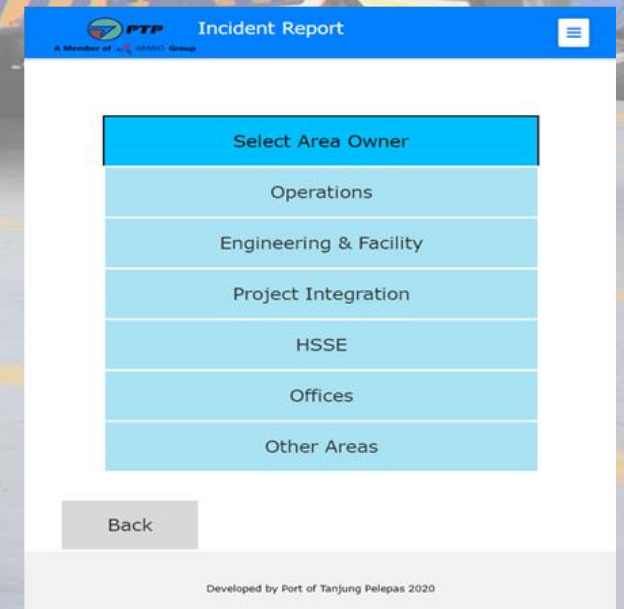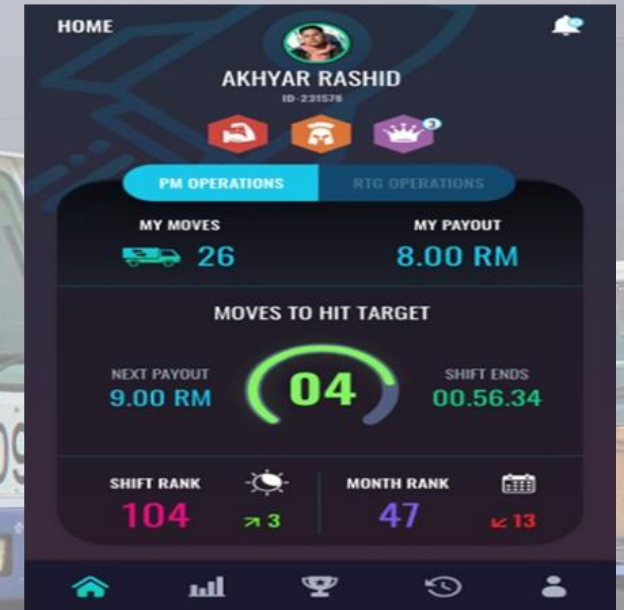- Real time tracking and monitoring including revenue assurance.

LABOUR MANAGEMENT SYSTEM

- Optimize the productivity of its employees

TERMINAL OPERATIONS

MOVING CARGO SMARTER, FASTER & MORE EFFICIENT

HEALTH, SAFETY, SECURITY & ENVIRONMENT (HSSE)

INTEGRATED INTELLIGENCE SECURITY SYSTEM

Seamless Integrating access control with video security system to provide you with the right information take decisive action.

01

PTP ACCESS CONTROL SYSTEM ONLINE

One account - One place to manage visitor application, applying access card and vehicle sticker.

03

ENSURING EFFECTIVE, EFFICIENT AND ACTIVE SECURITY SYSTEM

Providing the right information at the right time for decisive action through a smart surveillance system

02

HIGH SECURITY AND ASSURANCE

Quicker authentication and a complete control over who has access to the office building and terminals.

04

DRONE SURVEILLANCE & INTRUDER RESPONSE

Reshaping the future of video surveillance through aerial drone-based camera for a complete view of what's happening around the terminal
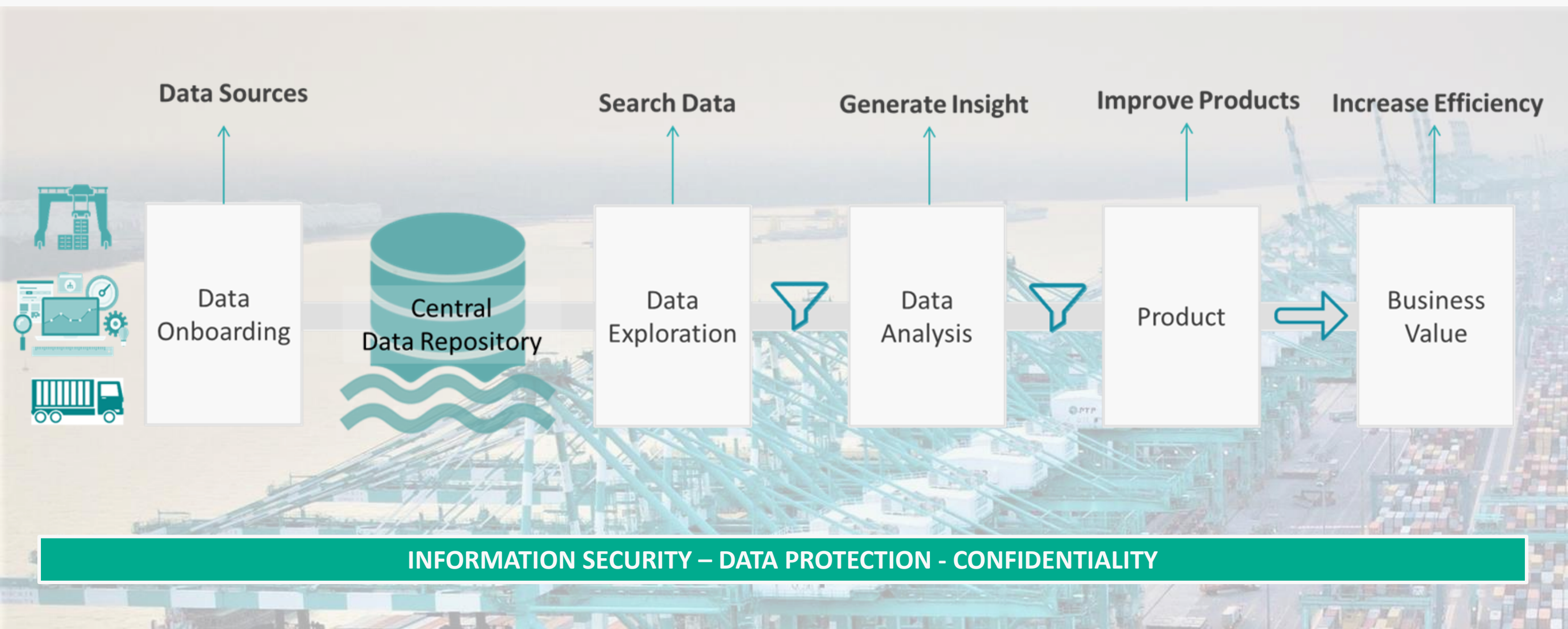
INFORMATION TECHNOLOGY

DATA LAKE – TRANSFORMING THE WAY WE UTILIZE BIG DATA

Performing statistical analysis on big data to identify trends, solve business problem and optimize the terminal performance
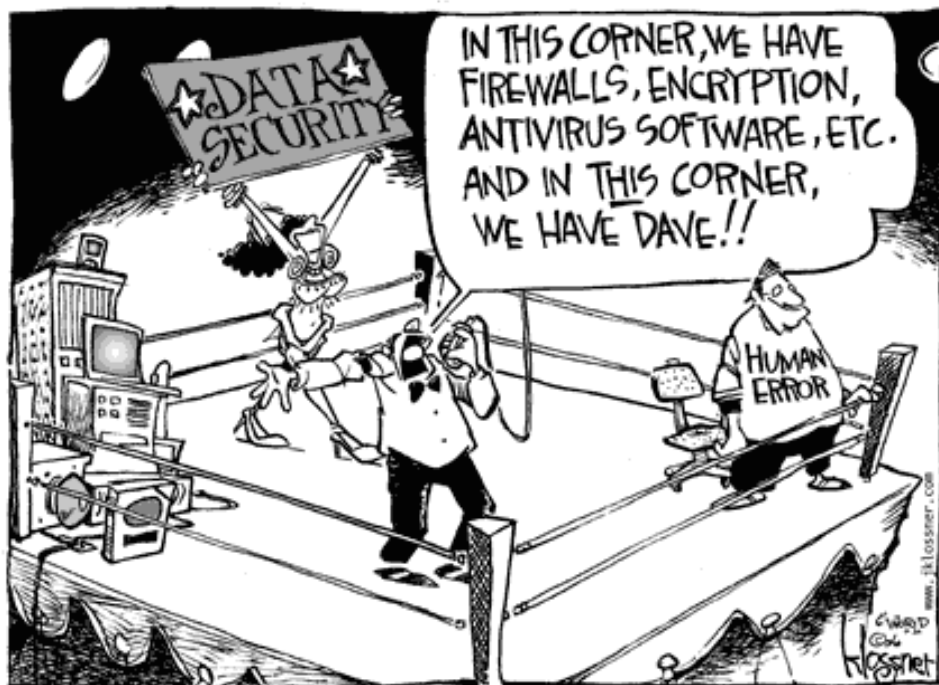
INFORMATION TECHNOLOGY

SHARPENING THE FOCUS ON CYBERSECURITY

Align the company's cybersecurity maturity with its digital maturity and focus on the human perimeter

01 PEOPLE

- Security Awareness Communication and Training .

- Perform social engineering simulated attack

02 PROCESS

- Cyber Incidence Response

- Business Continuity

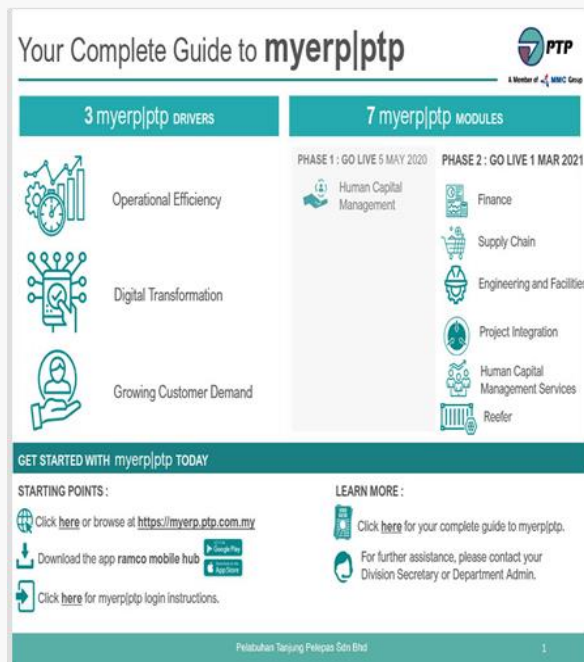- Vulnerability and Security Risk Management Assessment

03 TECHNOLOGY

- Multi Factor Authentication

- Email Security Gateway

- Intrusion Prevention System

- Secure Web Gateway

BUSINESS PROCESS & TECHNOLOGY

INTEGRATED MANAGEMENT OF MAIN BUSINESS PROCESSES INCLUDING AUTOMATION AND OPTIMIZATION

01 ENTERPRISE RESOURCE PLANNING (ERP) SYSTEM

- Manage PTP business from one integrated platform and access data anytime and anywhere

- Flexibility and agility to fit a PTPs unique business needs with mobile functionality features

02 SCADA SYSTEM

- Analytical, monitor, gather, and process real-time data

- Maintain efficiency, process data for smarter decisions, and communicate system issues to help mitigate downtime

03 ASSET DIGITIZATION

- Deliver live view of operational and engineering status of all equipment, subsequently allowing proactive operational and maintenance decisions to be made.

04 AUTONOMOUS PRIME MOVER

- A breakthrough in remote and automated operations.

Thank You

Terima Kasih

PELABUHAN TANJUNG PELEPAS SDN BHD