



A Member of  MMC Group

# PORT OF TANJUNG PELEPAS

## ASEAN PORTS EVOLUTION ON DIGITALIZATION AND TRANSFORMATION IN TECHNOLOGY FOR A COMPETITIVE EDGE

2 MARCH 2022

# BUSINESS OVERVIEW



**2**  
strong  
shareholders

**3**  
core  
businesses

**141**  
mil TEU  
since inception

**11.2**  
mil TEU handled  
in 2021

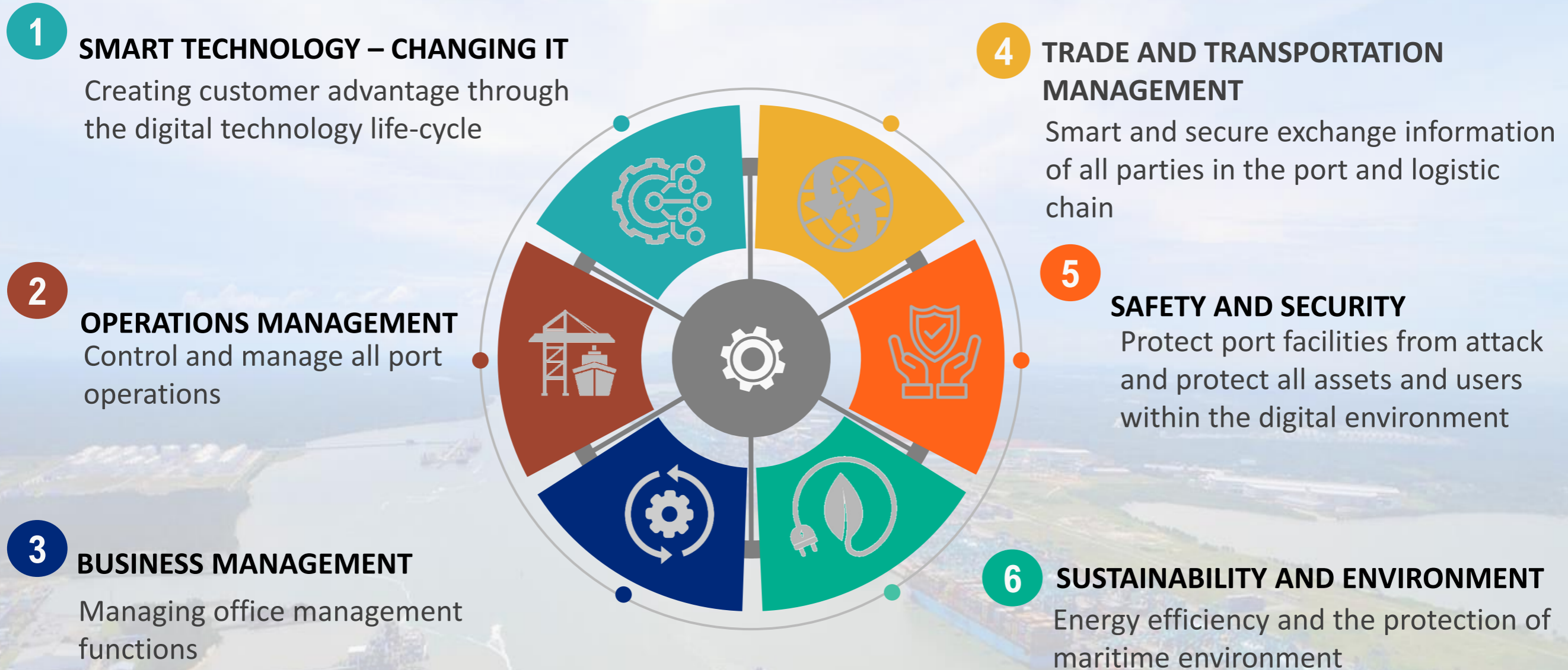
**15**  
world  
ranking

**17%**  
Compounded Average  
Growth Rate (CAGR)

**1998**  
free zone  
authority

**>40**  
international & local  
free zone tenants

## PROVIDING A COMPETITIVE EDGE THROUGH DIGITALIZATION AND TRANSFORMATION



## CREATING CUSTOMER ADVANTAGE THROUGH THE DIGITAL TECHNOLOGY

IT BECOMING AN ESSENTIAL DIFFERENTIATOR - DATA DRIVEN, INNOVATIVE, SMART, CYBER RESILIENT & FUTURE FOCUSED



**1** Transparency and accuracy through data analytics

**2** Customer Satisfaction through proactive service, analytics and quick response

### FOCUS ON SMART TECHNOLOGY, INNOVATION & SKILLS



## CONTROL AND MANAGE ALL PORT OPERATIONS THROUGH DIGITALIZATION

1

### OPERATIONS CONTROL CENTRE

Centralising Operations Control



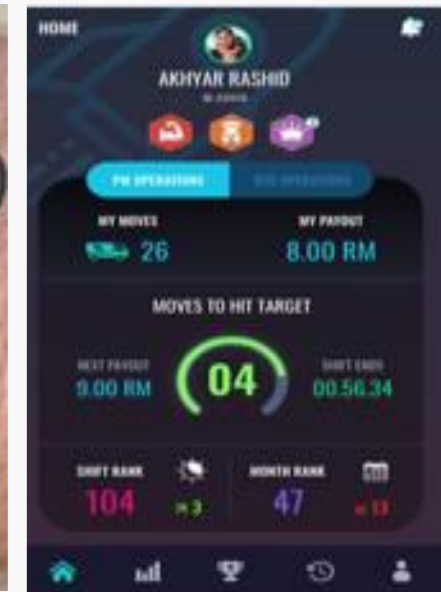
Terminal Operating System



Analytics Dashboard



Asset Digitalization



2

### TERMINAL SYSTEMS

Smart Applications that increase the efficiency of PTP's equipment and operations connected via 4G wireless network



Marine Resource Management System



RTG Optimization



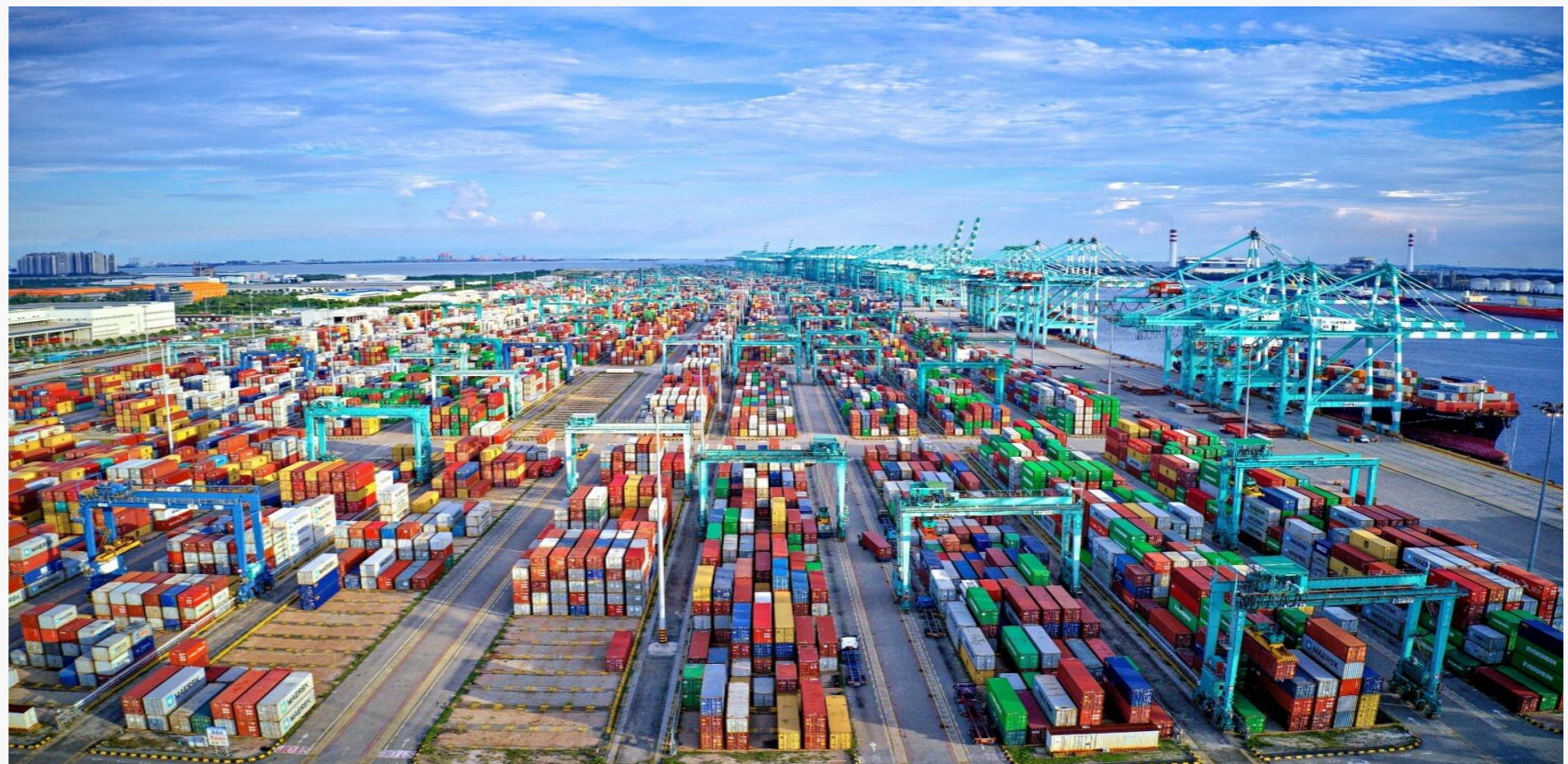
Gate Automation



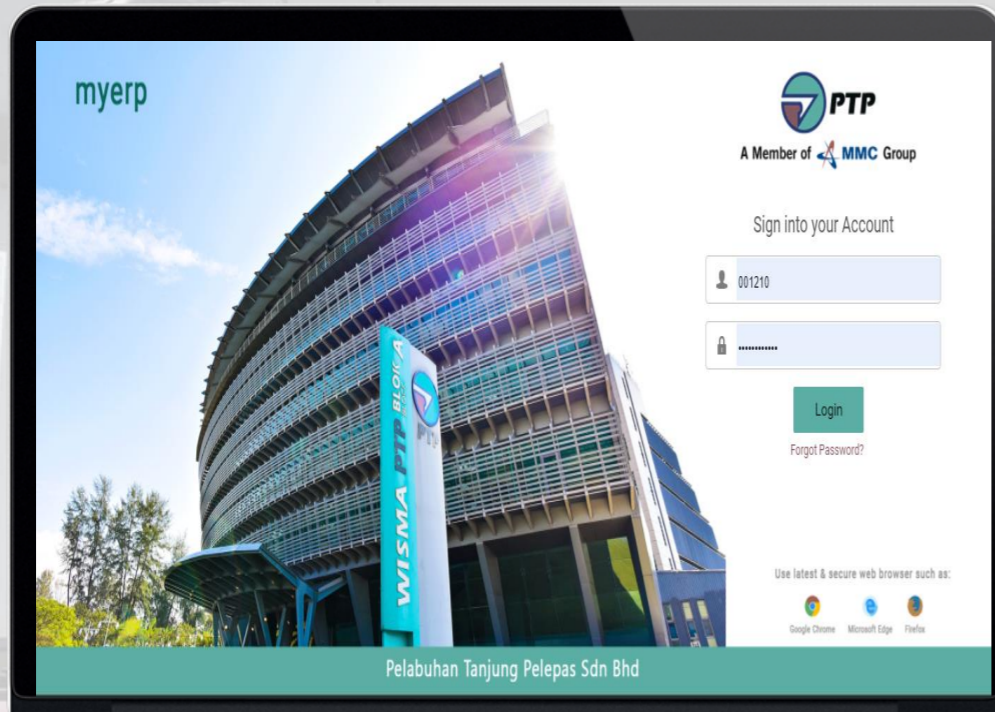
Expert Decking and Prime Route



Optical Character Recognition



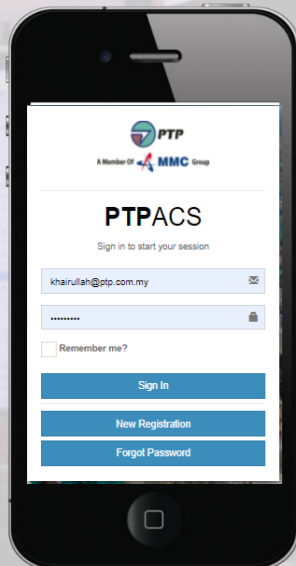
## MODERNISING BACK-END ENTERPRISE AND OFFICE MANAGEMENT DIGITAL SOLUTIONS



### 01 ENTERPRISE RESOURCE PLANNING (ERP) & BILLING

Modernizing and improving processes of corporate functions :

1. Human Capital Management
2. Finance
3. Supply Chain & Warehouse
4. Engineering & Facilities
5. Customer charges & Billing



### 02 ACCESS CONTROL

1. Managing staff and visitor access



### 03 PTP CONNECT

Provide a workforce mobile application for:

1. Ideas/Feedbacks
2. Terminal Transportation Request
3. Incident Reporting
4. Gemba
5. Pre-Work Checklist
6. Process Confirmation

## SMART SECURE INFORMATION EXCHANGE WITHIN THE PORT AND LOGISTICS BUSINESS USING AUTOMATION & BLOCKCHAIN

### 01 TRADELENS (BLOCKCHAIN)

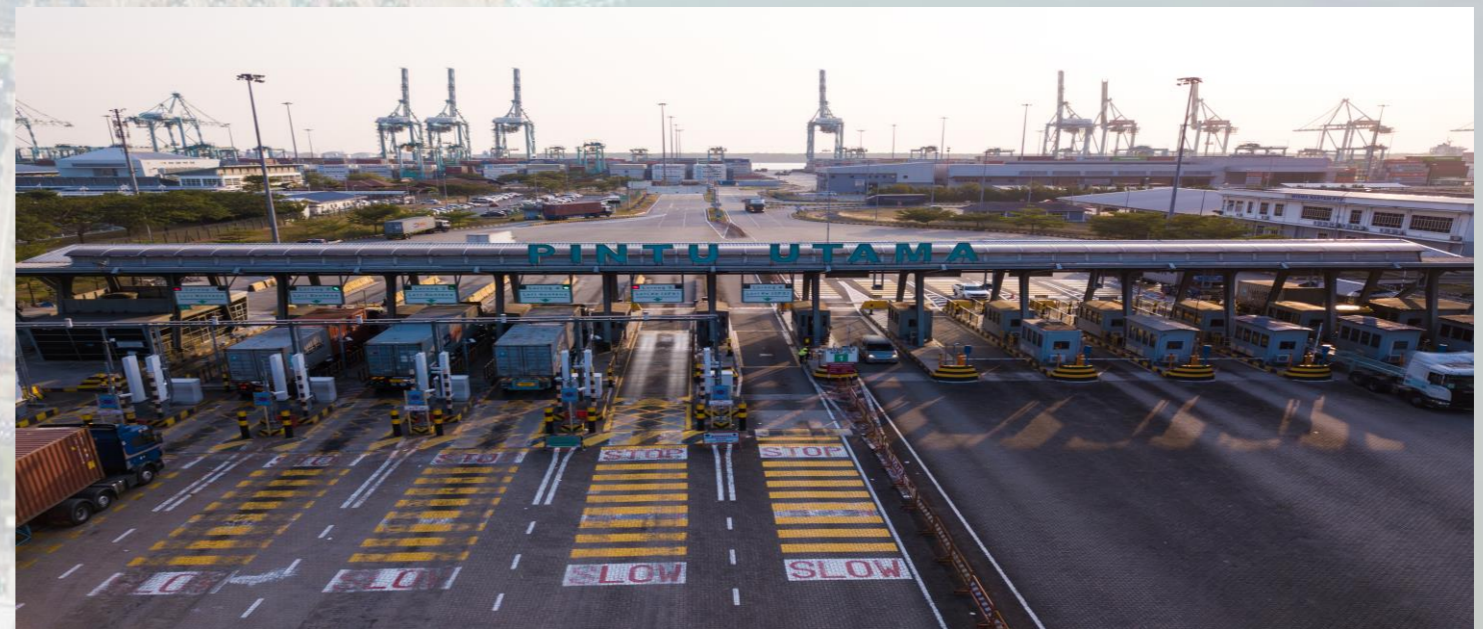
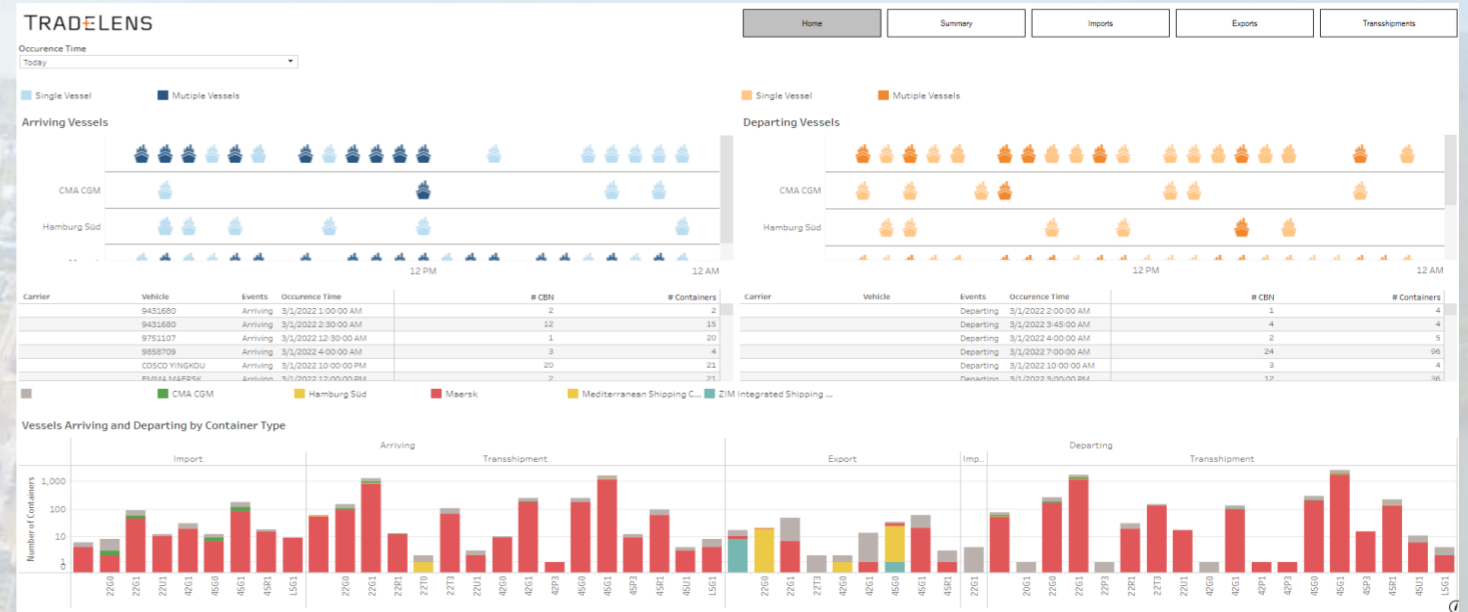
- TradeLens is an interconnected ecosystem of supply chain partners

### 02 TERMINAL ACTIVITY RECONCILIATION (BLOCKCHAIN)

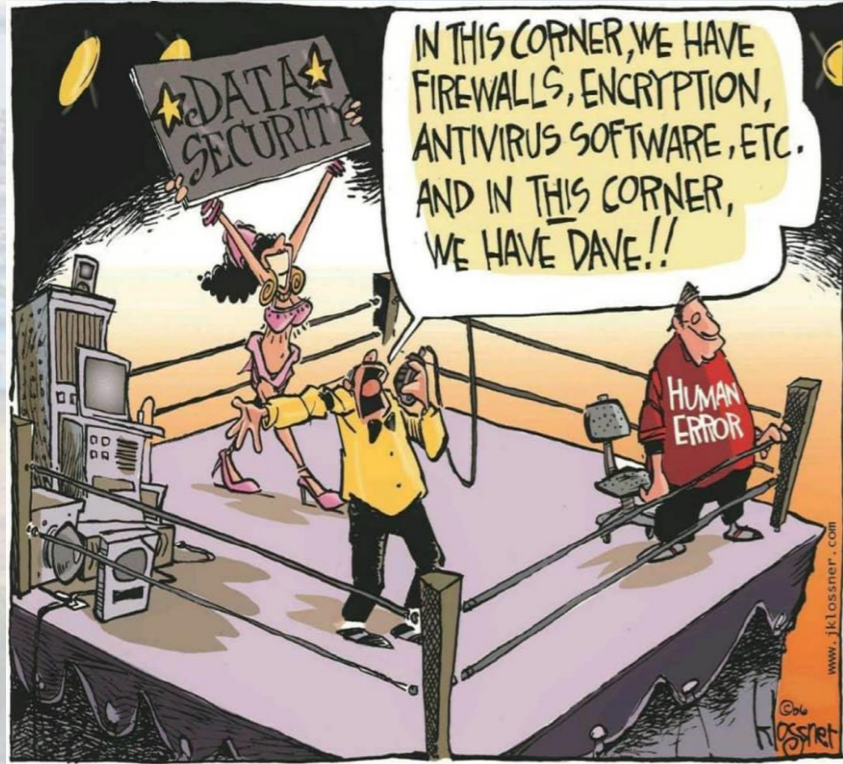
- Redefining reconciliation using Blockchain enabling efficient, Integrated, transparent and financially compliant validation processes

### 03 GATE AUTOMATION

- Improve Gate transactions.
- Increase Safety and Security.





## PROTECTING PTP DIGITAL AND PHYSICAL ASSETS WITH DIGITAL TECHNOLOGY



**Fatigue - drowsiness**

P825  
P1001229-S00000197 (1.3.0.435193)

(VSIM) PTP MY  
(UTC+08:00) Kuala Lumpur, Singapore

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- 01 CYBER SECURITY**
  - Protect and reduce the risk of cyberattacks
- 02 BUSINESS CONT. MANAGEMENT TOOL**
  - Automation of BCP and emergency response.

- 03 INTEGRATED INTELLIGENT SECURITY SYSTEM**
  - Control Surveillance System Centre enabling centralized security CCTV monitoring.

- 04 e-PERMIT TO WORK**
  - Online and advance permit to work applications and approvals.
- 05 FATIGUE DRIVING**
  - Real-time monitoring of fatigue and dangerous driving of prime movers.



## PTP'S FOCUS ON SUSTAINABILITY AND CARBON FOOTPRINT REDUCTION

SMARTER AND MORE EFFICIENT ENERGY TRACKING AND CONSUMPTION

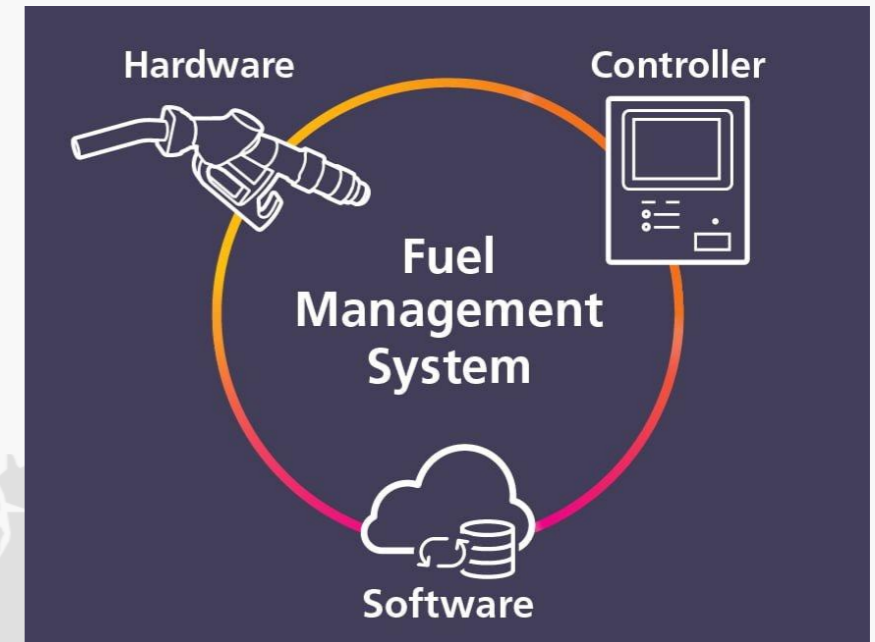
### SMART PORT WITH ENVIROMENTAL SUSTANABILITY

*PTP technologies, systems and concepts developed will prioritize to enable a cleaner and safer mobility for everyone and everything*



### 01 Fuel Management System

- Fuel usage and tracking



### 02 Autonomous Prime Mover

- Test autonomous mobility solutions for PTP's digital future.

### 03 SCADA System

- Analyse, monitor and process real-time data from sensors, valves, pumps, motors to monitor electrical, water and other utilities.





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**Thank You**  
**Terima Kasih**