



# CMPA FORUM 1: PORT DIGITAL TRANSFORMATION

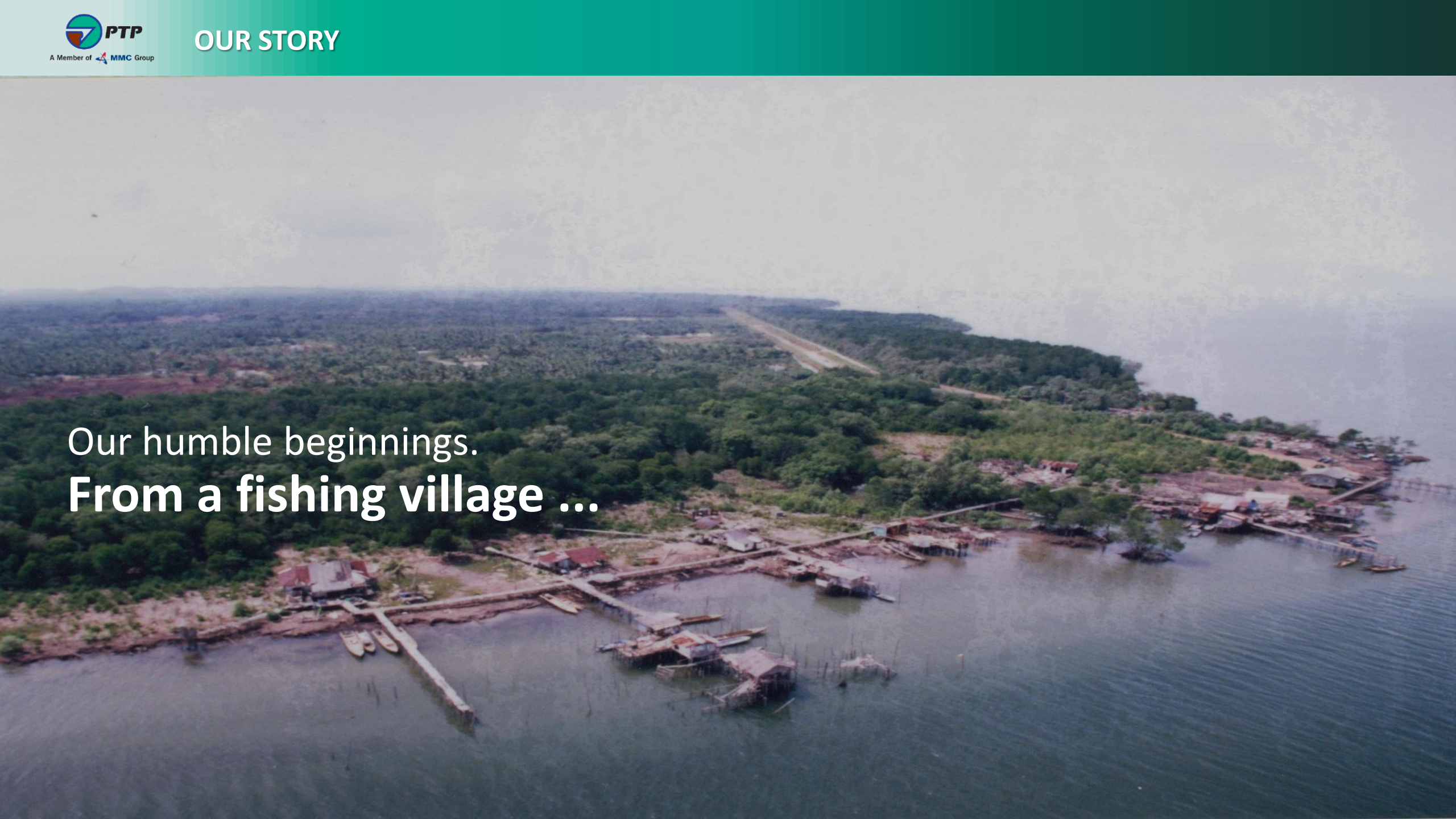
**FROM AUTOMATION TO INTELLIGENCE:  
HOW PTP'S DIGITAL INNOVATIONS ENHANCE PORT PERFORMANCE**

10 NOV 2025



ANUGERAH KECEMERLANGAN INDUSTRI 2024  
INDUSTRY EXCELLENCE AWARD

#TogetherTowardsASustainableFuture #25YearsofExcellence



Our humble beginnings.  
**From a fishing village ...**



...to one of the  
**world's busiest**  
**container terminals**

## Ranked 14<sup>th</sup> in the World

Global Top-30 Leading Container Ports 2025  
by volume throughput (by Alphaliner)

| RANK |                                                                                     | PORT            | 1H 2025          | 1H 2024          | GROWTH<br>1H 25/24 |
|------|-------------------------------------------------------------------------------------|-----------------|------------------|------------------|--------------------|
| 1    |    | SHANGHAI        | 27,064,100       | 25,510,000       | 6.1%               |
| 2    |    | SINGAPORE       | 21,715,419       | 20,249,739       | 7.2%               |
| 3    |    | NINGBO-ZHOUSHAN | 21,050,000       | 19,160,000       | 9.9%               |
| 4    |    | SHENZHEN        | 17,230,000       | 15,550,000       | 10.8%              |
| 5    |    | QINGDAO         | 16,380,000       | 15,190,000       | 7.8%               |
| 6    |    | GUANGZHOU       | 13,640,000       | 12,660,000       | 7.7%               |
| 7    |    | BUSAN           | 12,683,020       | 12,249,910       | 3.5%               |
| 8    |    | TIANJIN         | 12,247,800       | 11,885,000       | 3.1%               |
| 9    |    | LA/LB           | 9,702,444        | 9,023,027        | 7.5%               |
| 10   |    | DUBAI           | 7,774,000        | 7,337,000        | 6.0%               |
| 11   |    | PORT KLANG      | 7,327,909        | 7,122,795        | 2.9%               |
| 12   |    | ROTTERDAM       | 7,026,000        | 6,841,000        | 2.7%               |
| 13   |    | ANTWERP-BRUGES  | 6,910,000        | 6,665,000        | 3.7%               |
| 14   |   | <b>PTP</b>      | <b>6,872,112</b> | <b>5,956,301</b> | <b>15.4%</b>       |
| 15   |  | HONG KONG       | 6,534,000        | 6,766,000        | -3.4%              |
| 16   |  | XIAMEN          | 5,938,600        | 5,874,700        | 1.1%               |
| 17   |  | TANGER MED      | n.a.             | n.a.             | n.a.               |
| 18   |  | LAEM CHABANG    | 5,109,800        | 4,625,316        | 10.5%              |
| 19   |  | BEIBU GULF      | 4,760,000        | 4,320,000        | 10.2%              |
| 20   |  | KAOSHIUNG       | 4,516,808        | 4,620,067        | -2.2%              |
| 20   |  | HO CHI MINH     | n.a.             | n.a.             | n.a.               |

CAPACITY

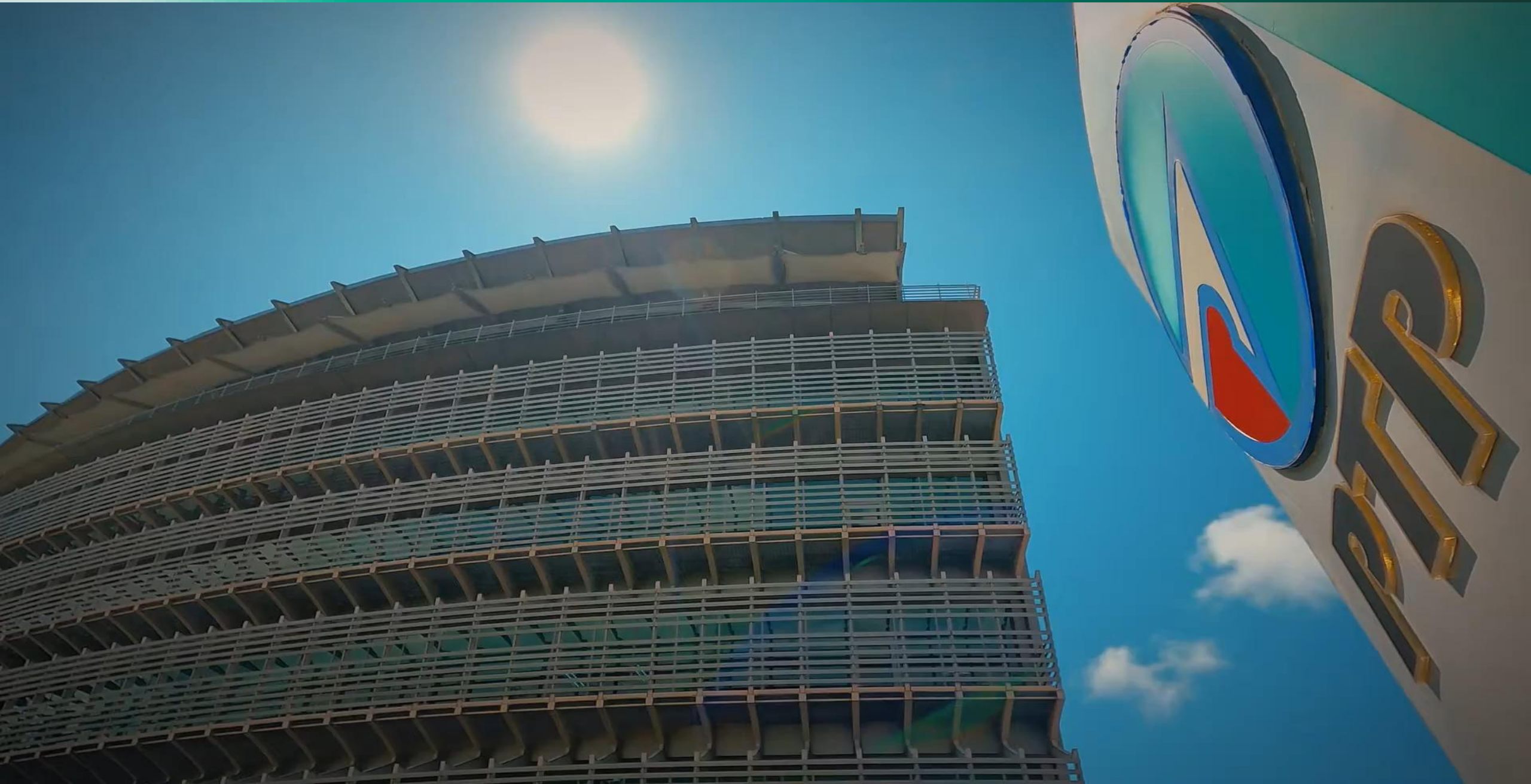
## #1 Fastest Growing Port

driving record growth as the world's fastest-growing port at +15.4% in the first half of 2025, marking the highest growth rate among the Top 30 global ports ranked by Alphaliner



## The Ideal Gateway

strategically located at the southern tip of Malaysian Peninsula and at the confluence of the busy East-West trade lanes passing through the Straits of Malacca





**Digital  
Foundations Laid**  
**2018 - 2020**



**Crisis-Driven  
Digital Resilience**  
**2020 - 2022**



**Execution Across  
PTP Core Domains**  
**2022 - 2024**



**Strategic Compass  
The Digital North Star**  
**2024 - 2026**



**Towards the  
Intelligent Port**  
**2024 - 2026**



**Sustainable Global  
Leadership**  
**2028 Onwards**

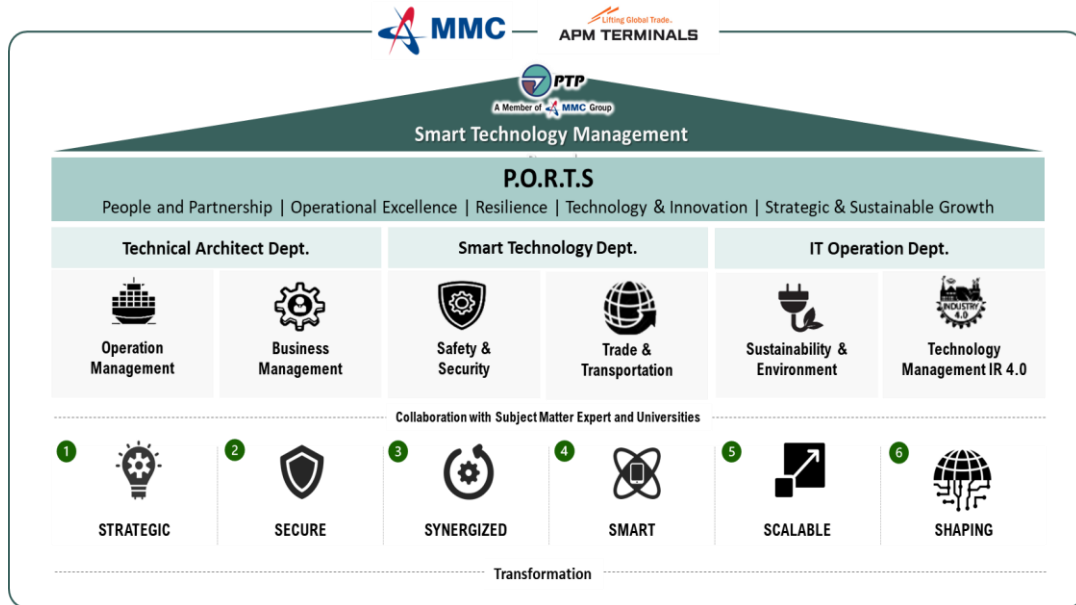
**Phase 1: Digital Enterprise**  
*Building the foundation of digitalization*

**Phase 2: Intelligent Ecosystem**  
*Connecting systems, people and data for smarter decisions*

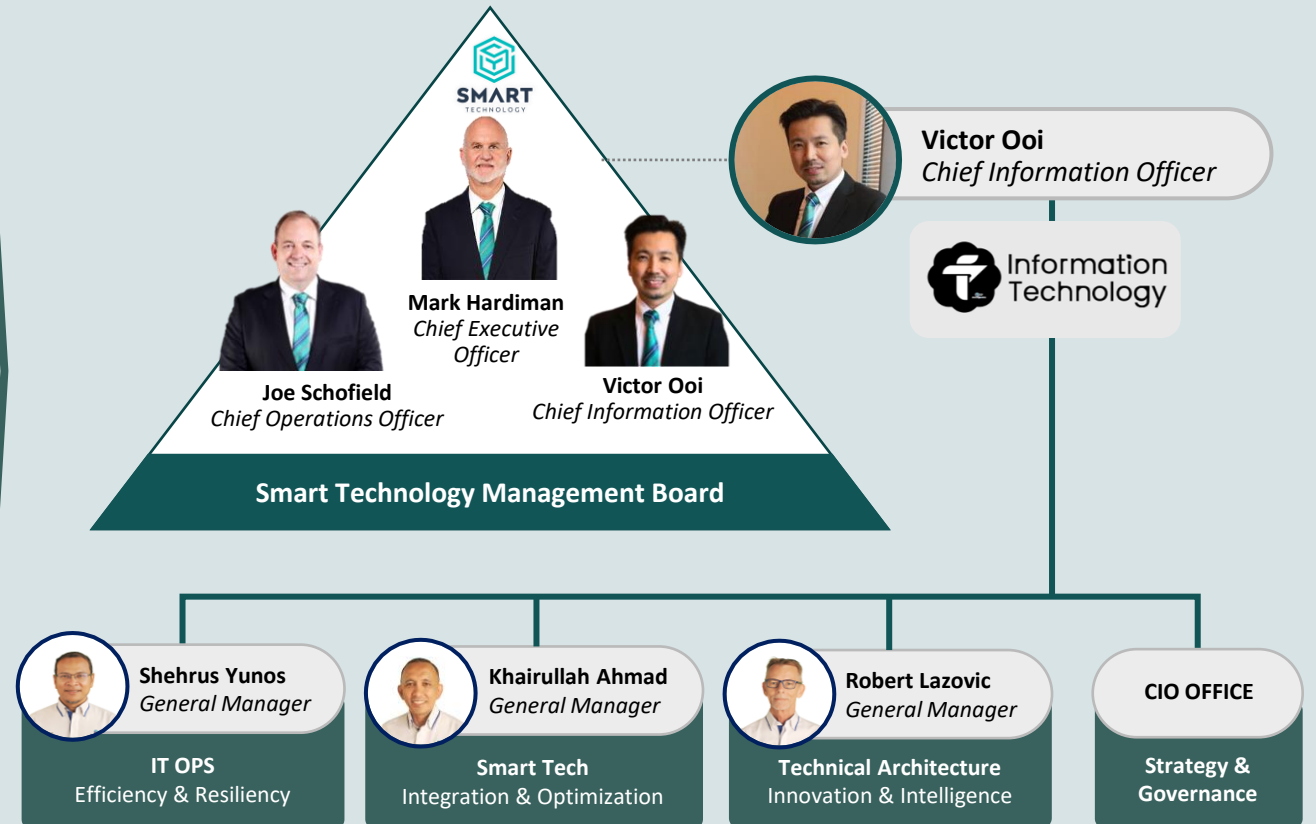
**Phase 3 : Robotics & Automation Augmentation**  
*Advancing towards autonomous and future-ready operations*

**IT Digital North Star 2026 – 2028 transforms vision into value by enabling  
a data-driven, integrated smart port that advances PTP's excellence through talent, technology and innovation.**

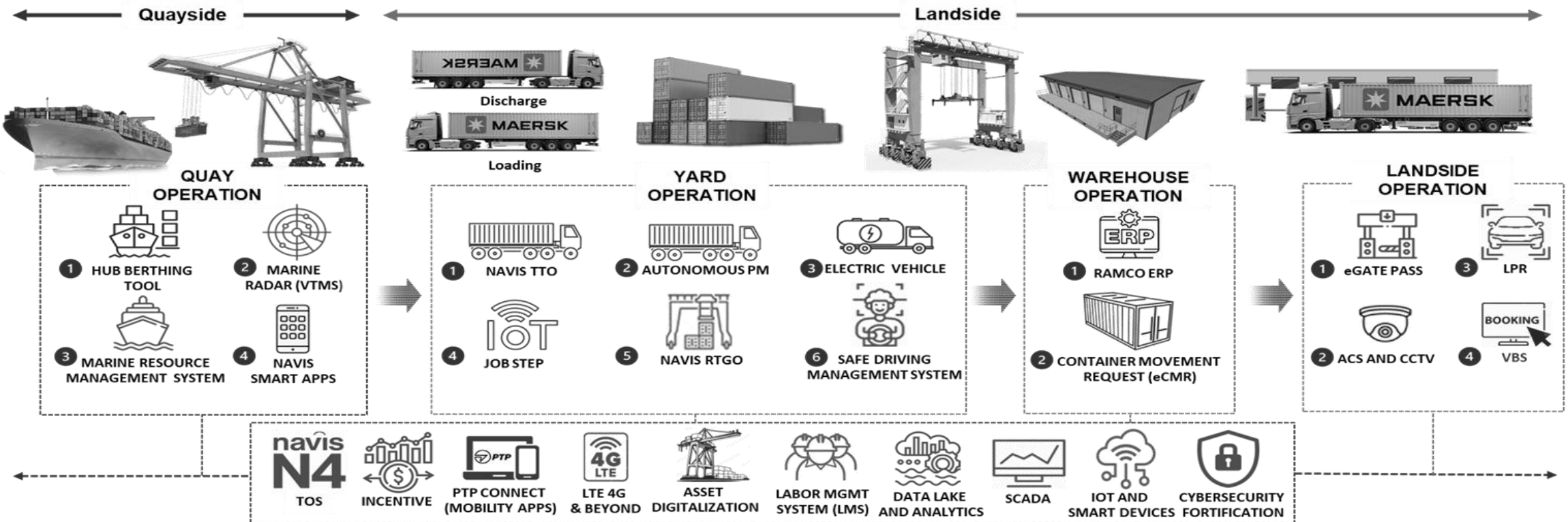
## Digital North Star – PTP’s Enterprise Digitization Framework



## What A Digital And AI-first Tech Team Looks Like



## A Decade of Transformation from Digital Roots to Global Leadership in Smart and Sustainable Port Solutions.



FUTURE  
FOCUS

# 6 BIG BETS

Digital Twin

Big Data & AI

Service  
Excellence

Robotic  
Automation

ERP Next

Network & Cloud  
Modernization

UPCOMING INITIATIVES



TERMINAL GATE  
AUTOMATION



DIGITAL TWIN



AI - EXPERT DECKING  
VESSEL PLANNER

IT DIVISION INITIATIVES



**Cyber Day 2025**



STRATEGIC COLLABORATIONS



**Visit to SIPG Shanghai**



**Visit to Yangshan Port**



**Sinergy TVET  
China-Malaysia Visit**



**University of  
Tasmania Visit**



*“True transformation begins not with technology, but with people united by purpose and empowered through partnership.” – Victor Ooi*





# Together Towards A Sustainable Future

Get in-depth knowledge about our sustainability initiatives by reading our report here:



SCAN HERE TO DOWNLOAD OUR  
CORPORATE SHEET



SCAN HERE TO DOWNLOAD OUR  
2024 SUSTAINABILITY REPORT





A Member of  **MMC** Group

**THANK YOU**  
**TERIMA KASIH**