



THE FUTURE OF SMART CITIES: NEW HORIZON FOR TAIWAN-PHILIPPINES COOPERATION

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PRESENTATION OUTLINE

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Overview on
PPA

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Global Trends
in Smart Port
Development

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Taiwan &
Philippines
Smart Port
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Opportunities
/Challenges

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Collaborative
Vision

INTRODUCTION



SMART PORTS

Smart ports, also referred to as intelligent or digital ports, are maritime facilities that incorporate advanced technologies and data-driven solutions to enhance efficiency, safety, and sustainability in port operations.

sdp



OVERVIEW ON PPA



OVERVIEW ON PPA





GLOBAL TRENDS

GLOBAL TRENDS

WHY SMART PORT MATTERS?



GLOBAL TRADE
DIGITALIZATION



AI DRIVEN
PLANNING

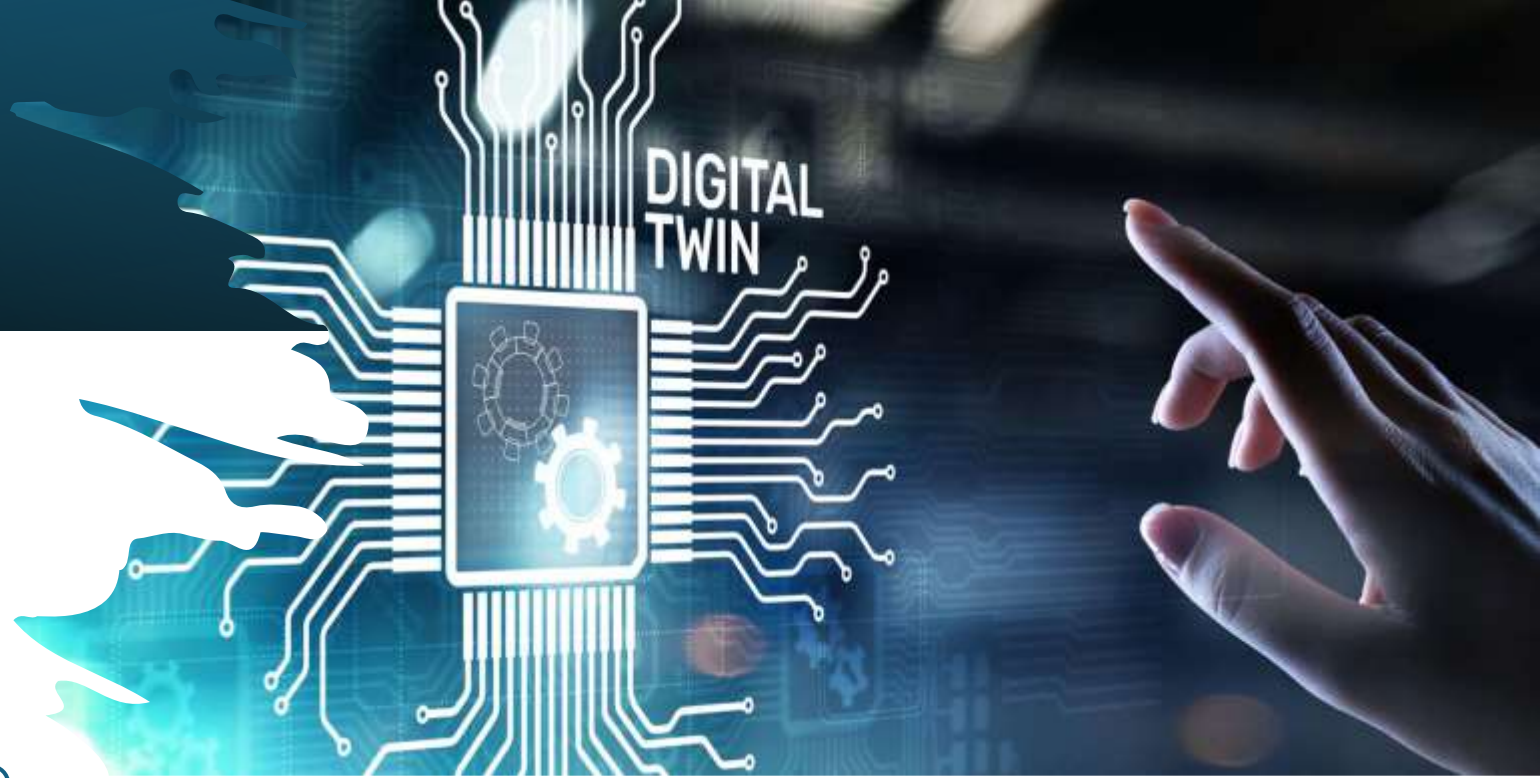


ASEAN SHIFT TO
SMART LOGISTICS

The image features two hands reaching towards each other, with the flags of Taiwan and the Philippines painted on them. The Taiwan flag, with its blue field, white sun, and red band, is on the left hand. The Philippine flag, with its horizontal stripes of blue, white, and red, and a yellow sun and stars, is on the right hand. The background is a light gray with a subtle grid pattern and a torn paper effect at the bottom. The text 'TAIWAN – PHILIPPINES' and 'SMART PORT EXPERIENCE' is centered in white, bold, sans-serif font.

TAIWAN – PHILIPPINES SMART PORT EXPERIENCE

TAIWAN SMART PORT EXPERIENCE



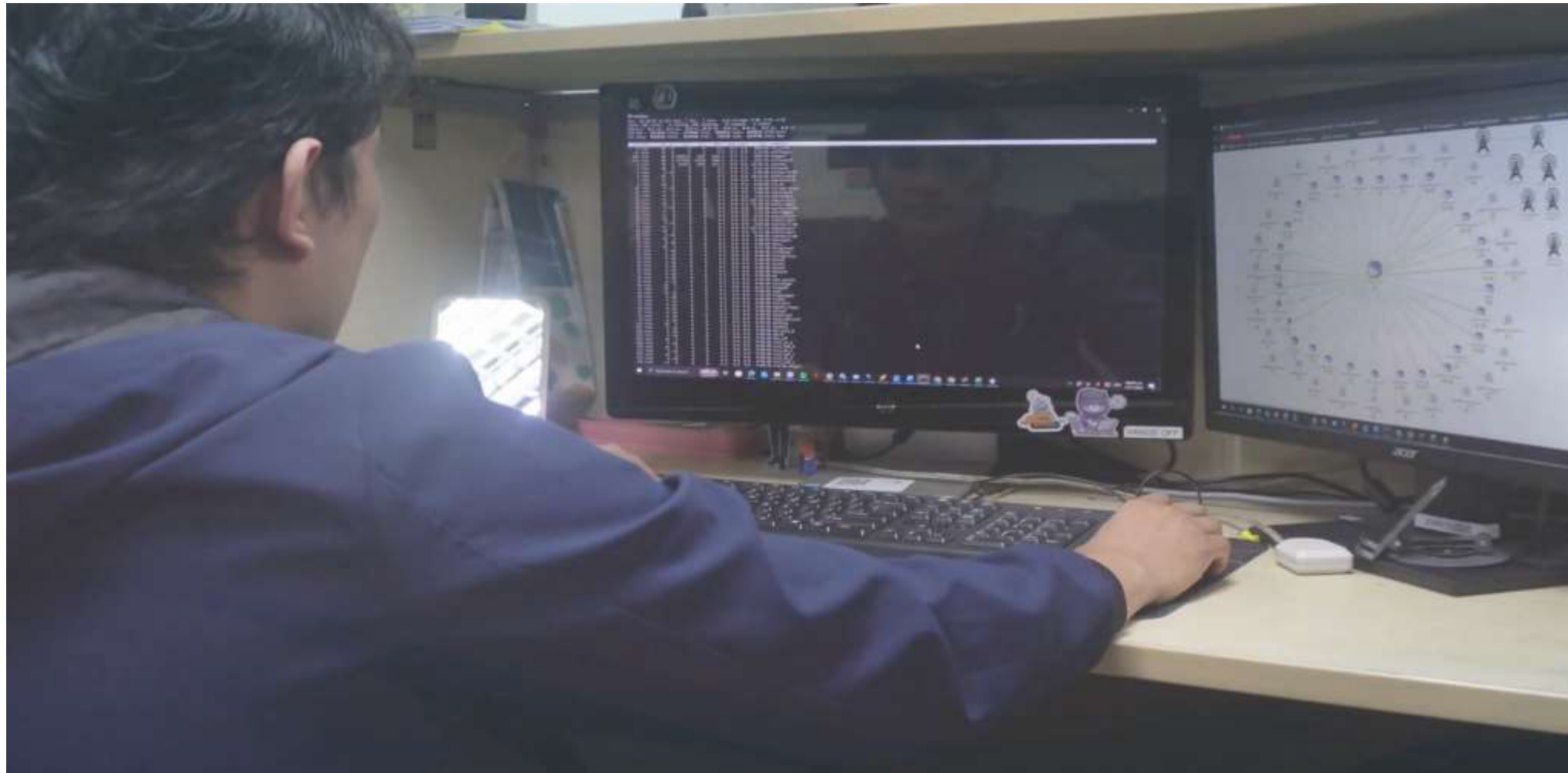
Kaohsiung
Digital Twin
and 5G

Advanced IoT
Deployment

Cybersecurity
Leadership



PPA IT Initiatives



Source: ICTD

PHILIPPINES SMART PORT DIRECTION



Maritime Single Window



Digital Transformation Initiative



Need for Automation and interoperability





ICTSI SMART PORT TECHNOLOGIES

Source - ICTSI



MICT: 5G
NETWORK,
AUTOMATED
GATES AND ICTSI
APP



NORTH PORT –
NAVIS N4, ERP,
ONLINE PAYMENT



VCT - MODERN
CRANES,
EXPANDED
REEFER,
TRACKING
INTEGRATION



ATI SMART TECHNOLOGIES

- Zodiac Ops 7 TOS
 - OCR-enabled automated gates
 - Electric ITVs & hybrid RTGs
 - Eco-friendly quay cranes



OPPORTUNITIES AND CHALLENGES

Navigating Process and Pressure

COOPERATION OPPORTUNITIES

- 03 – CYBERSECURITY COLLABORATION

- 02 – MSW INTEROPERABILITY

- 01 - AI & DIGITAL INFRASTRUCTURE

- 04 – GREEN PORT TECHNOLOGY

- 05 – HUMAN CAPITAL DEVELOPMENT



CHALLENGES

- HIGH CAPITAL INVESTMENT
- CYBERSECURITY RISKS



- WORKFORCE ADAPTATION
- REGULATORY & INTEROPERABILITY ISSUES



COLLABORATIVE VISION

Charting Together our Future

COOPERATION ROADMAP

- **SHORT-TERM**

Exchanges, System Studies

- **MEDIUM-TERM**

Pilot Smart Port

- **LONG-TERM**

- Innovation Hub & Digital Corridor



VISION FORWARD

- **INTEGRATED SMART PORT CITIES**
- **DIGITAL TRADE ROUTES**
- **RESILIENT LOGISTICS ECOSYSTEM**





Thank
You!