PORT DIGITALIZATION & MODERNIZATION:

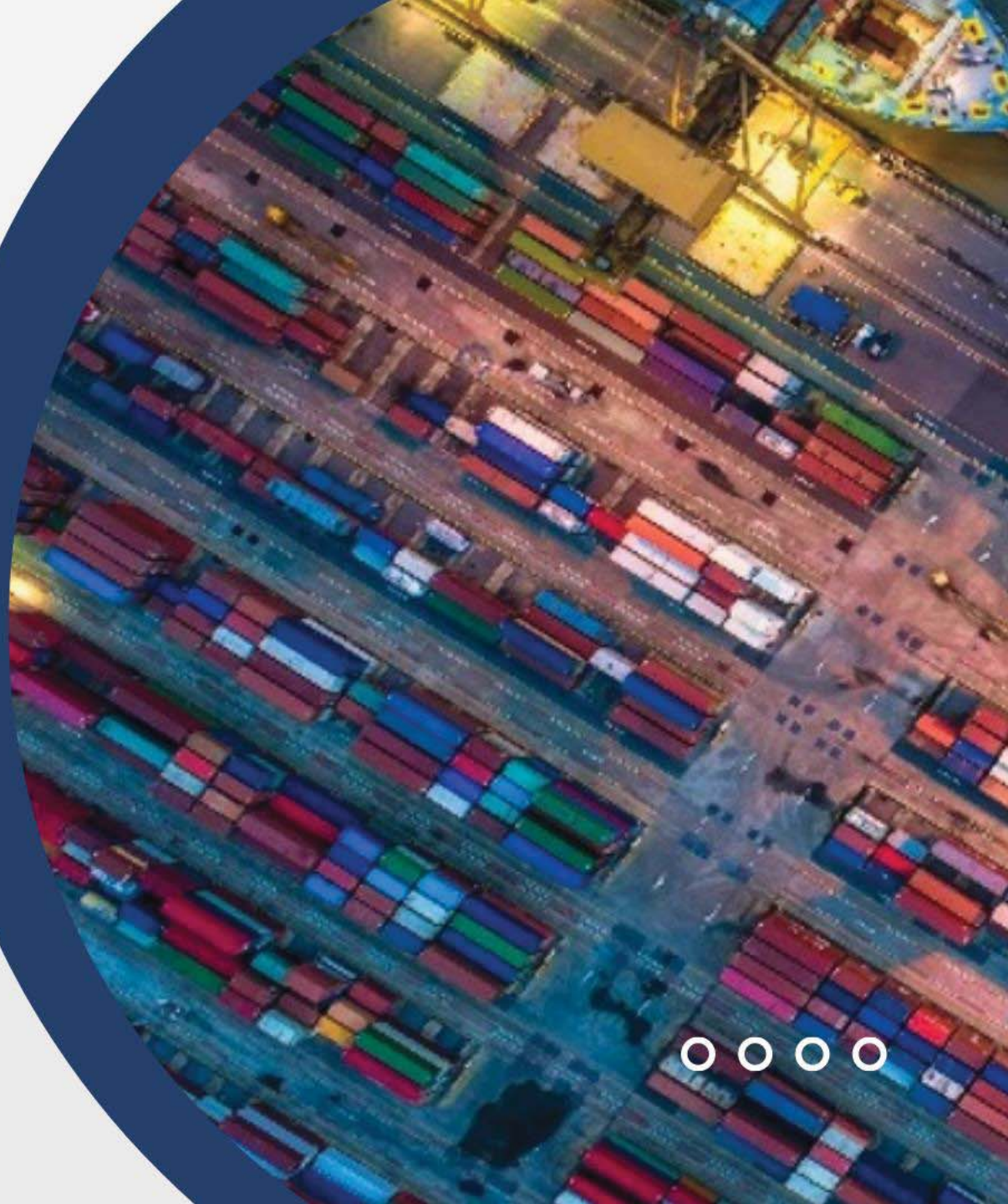
FUELING OUR WAY TO BECOME AN ASIAN MARITIME HUB

PRESENTED BY:
ATTY. MARK JON S. PALOMAR
MANAGER, COMMERCIAL SERVICES DEPARTMENT
PHILIPPINE PORTS AUTHORITY

MANILA, PHILIPPINES



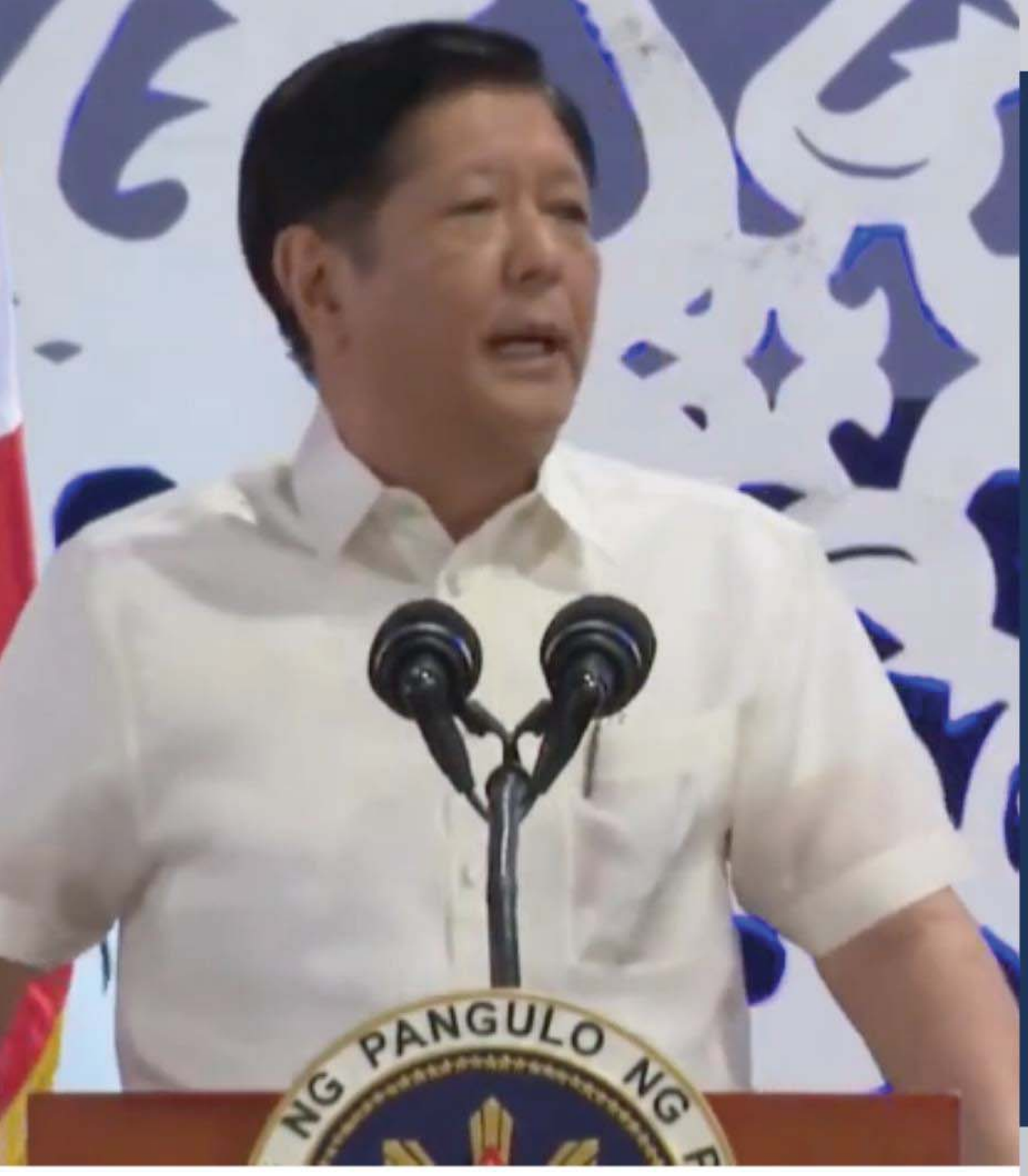
P- AGBANGON
P- AG-UNLAD
A- BOT-TANAW



ROLE OF PORTS

- Ports as main nodes in the maritime transport
- Ports as nexus in supply chains





"GIVEN THAT THE PHILIPPINES IS A MARITIME NATION, I BELIEVE THAT IT IS TIME FOR US TO MAKE THE MARITIME INDUSTRY ONCE AGAIN A TOP PRIORITY,"

PRESIDENT FERDINAND "BONG BONG" MARCOS JR. OPENED AT THE PHILIPPINE MARITIIME INDUSTRY SUMMIT 2023 AT MANILA HOTEL.

INITIATIVES TOWARD A SUSTAINABLE PANDEMIC RECOVERY

1. Full Digital Transformation
2. Cooperation Enhancement
3. Transparency and Open Competition on the Key Actors of the Logistic Sectors
4. Building Resilient Port Infrastructure
5. Enhancement of River and Multimodal Transport
6. Strengthening Environmental Sustainability & Port Decarbonization
7. Business Continuity Plan



Initiatives

1. Identify and develop existing and key PPA assets into regional hubs capable of handling international vessels to promote:
   - Lowering the cost of raw materials and consumption goods coming in to underserved markets
   - Providing direct global access to the local agricultural industry

2. Update the privatization framework to encourage private investment
   - Economics based on financial benefit to users, government, and investor

3. Digitalization
   - Trusted Operator Program – Container Registry Monitoring System
   - Electronic



Identify and develop existing PPA assets

Ports
Port of Davao (Sasa)
Port of General Santos
Port of Iloilo (Iloilo Commercial Port Complex)



Infrastructure Requirements

Port of Davao

Construction and Structural Repairs
Expansion of berths 3 to 5 (21,365 sq.m.) to include the installation of STS rail lanes and Electrical Power System (EPS) for 365 In.m. wharf
Construction of two (2) units weighbridge at gate complex
Construction of STS rail lanes at berths 1 and 2
Reconcreting of 7,949 sq.m. at berths 6 to 9
Upgrading of back-up area at berth 4 and 5 (23,468.00 sq.m.) including the demolition of Plant Quarantine Services (PQS) and Bureau of Animal Industry (BAI) and construction of Rubber Tyred Gantry Crane Lane
Port Equipment
Installation of two (2) STS Cranes at berths 3 to 5
Provision of four (4) units Rubber Tyred Gantry (RTG)
Provision of one (1) unit mobile harbour crane
Preventive maintenance of major equipment



Infrastructure Requirements

Port of General Santos

Installation of Rail and Auxillary Facilities for Existing RMG Wharf, 201 LN.M
Retrofitting of Wharf from Calibration 550 to 851 Including RORO Ramp
Expansion of RMG Wharf Including Mooring System, R/C Curb and Fendering System .200MX21M
Removal of Transit Shed No. 3 (2,150 SQM)
Construction of Rubber Tyred Gantry (RTG) Crane Lane, 250LN.M
Construction of Additional Reefer Rack Structures with 144 Units. 440 Volts Reefer Outlets at CY1
Rehabilitation of Eastern Wharf, 300 LN.M
Construction of Back-up Area (45,500SQ.M), Container Freight Station on Piles (2,400SQ.M), Pavement, 2-Lane Gate with Weighbridge Gate for Oversized Cargoes, Perimeter Fence and Port Lightning System Includimng Steel Sheet Piles
Extension of RC Wharf Including Installation of Rails and Electrical System, 220M X 40M
Installation of Four (4) Sets Ship to Shore Cranes
Provision of Four (4) Sets Rubber Tyred Gantry Cranes



Infrastructure Requirements

Port of Iloilo (Iloilo Commercial Port Complex)

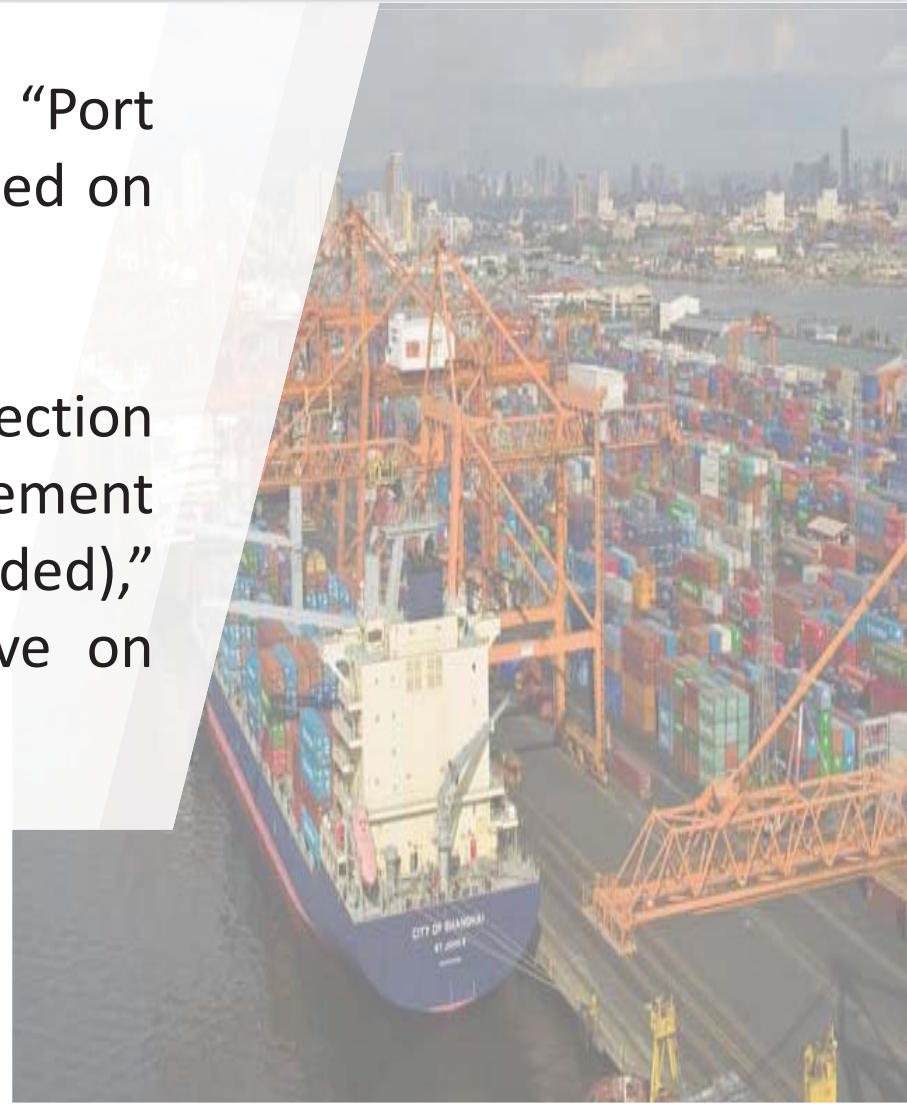
Expansion/Widening of Berth (8,988SQ.M) to include the installation of STS rail lanes and electrical system for 428LN.M Wharf
Improvement of Main Gate and Sentry Post
Expansion of (6,380SQ.M) to include the installation of STS rail lanes and electrical system for 135LN.M Wharf
Construction of Shore Power Facility with Provision of 230V, 3P and 440V, 3P at Berths 1 to 4
Construction of STS Rail Lanes, 200LN.M
Installation of four (4) STS Cranes for Berths 1 to 4
Provision of Eight (8) Units Rubber Tyred Gantry Crane (RTG)
Provision of One (1) Unit Mobile Harbor Crane



Privatization Framework

- PPA Administrative Order (AO) No. 03-2016, entitled “Port Terminal Management Regulatory Framework” was issued on April 25, 2016 and became effective on May 21, 2016.

- PPA AO No. 12-2018, entitled “Guidelines for the Selection and Award of Contract Under the Port Terminal Management Regulatory Framework (PPA AO No. 03-2016, as amended),” was issued on October 1, 2018 and became effective on October 21, 2018.



Privatization Framework

- PPA acknowledges and recognizes the indispensable role of the private sector. The greater participation of the private sector in the management and operations of ports is encouraged.

- The privatization of the management and operations of all ports under the jurisdiction of the PPA shall be awarded through competitive and transparent public bidding.

- The AO covers all government ports within PPA's jurisdiction except those with existing port management contracts.



PTMRF Objectives

- Efficient Port Management And Other Related Port Services
- Private Sector Participation In Port Operations
- Consistency In The Determination Of Contract Requirements And Contracting Procedures
- Reduce Compliance, Transport And Transaction Costs
- Develop Stronger And More Sophisticated Private Sector Port Operators
- Green Ports



Port Terminal Management Regulatory Framework

- Allow costs, including a reasonable return on port investments, to be recovered through port tariffs, while taking into consideration the affordability of port services for all port users



Investment Categories

Investment	Sample	Tier 1	Tier 2	Tier 3
Physical undersea infrastructure	Capital, Maintenance Dredging	Contractor	PPA	PPA
Physical landside infrastructure	Wharf, piers, land reclamation	Contractor	Contractor	PPA
Above ground semi-fixtures	Quay cranes, gantry cranes	Contractor	Contractor	PPA
Above ground fixtures	Passenger Terminal Building, pavement, fence	Contractor	Contractor	Contractor
Mobile handling Equipment only	Forklifts, trucks	Contractor	Contractor	Contractor



Ports Bid-Out under PTMRF

- As of December 31, 2022, the PPA Bids and Awards Committee for Port Terminal Management Contracts (BAC-PTMC) was able to complete the bidding process for eighteen (18) Tier 3 ports and one (1) Tier 2 port pursuant to PPA AO No. 12-2018

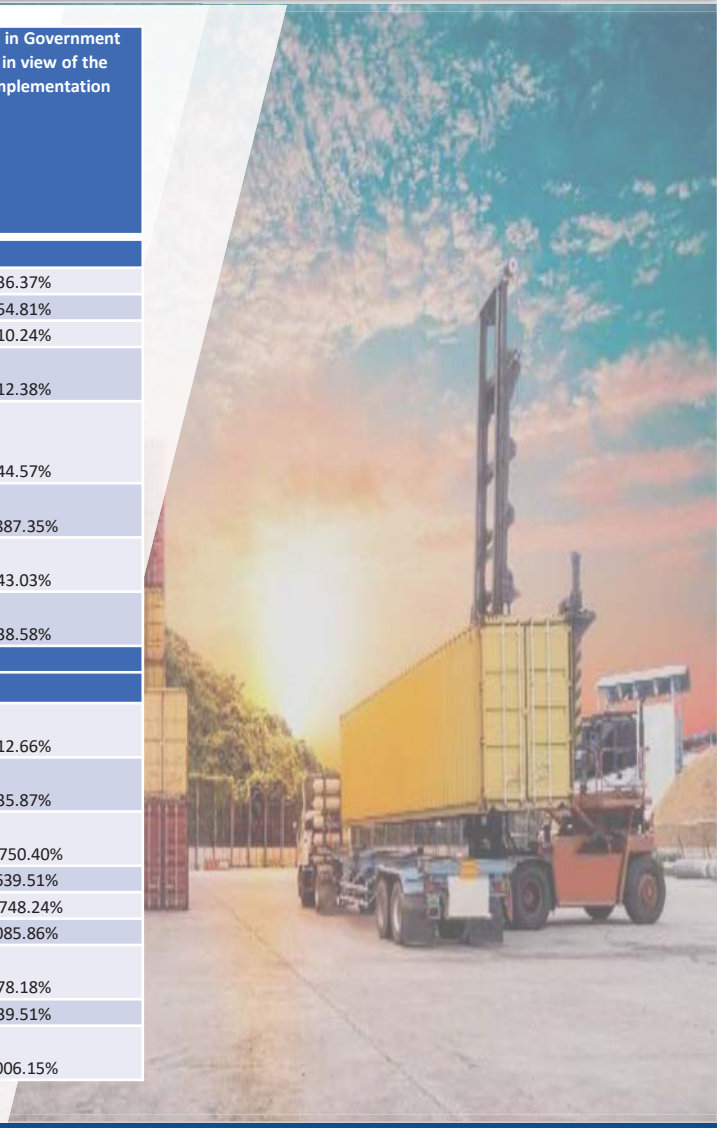
Port	Tier
Puerto Princesa	3
Ormoc	3
Legazpi	3
Tabaco	3
Zamboanga	3
Iligan	3
Ozamiz	3
Calapan	3
Tacloban	3
Matnog	3

Port	Tier
Nasipit	3
Pulupandan	3
Fort San Pedro Terminal	3
Surigao	3
Tagbilaran	3
Masao	3
Pagadian	3
Pasig	3
Sasa	2



Ports Issued with Port Terminal Management Contract (PTMC) under the PTMRF Policy

No.	Port Management Office (PMO)	Port	Tier	Contract Validity	Concession Fee for the 15-year period (in Php)	15-year Revenue Prior to PTMRF Implementation	% Increase in Government Revenue in view of the PTMRF Implementation
2021							
1.	Mindoro	Calapan	3	June 30, 2021 – June 29, 2036	1,495,000,000.00	342,602,811.00	336.37%
2.	Zamboanga	Zamboanga	3	July 19, 2021 – July 18, 2036	2,503,000,000.00	550,334,397.00	354.81%
3.	Bicol	Legazpi	3	August 6, 2021 – August 5, 2036	560,000,000.00	109,751,426.00	410.24%
4.	Lanao del Norte/ Iligan	Iligan	3	September 15, 2021 – September 14, 2036	1,008,000,000.00	164,604,795.00	512.38%
5.	Misamis Occidental/ Ozamiz	Ozamiz	3	September 15, 2021 – September 14, 2036	1,575,000,000.00	211,531,426.00	644.57%
6.	Western Leyte/Biliran	Ormoc	3	October 1, 2021 – September 30, 2036	850,000,000.00	42,770,503.00	1,887.35%
7.	Eastern Leyte/ Samar	Tacloban	3	November 5, 2021 – November 4, 2036	1,758,000,000.00	186,420,708.00	843.03%
8.	Bicol	Tabaco	3	November 25, 2021 – November 24, 2036	353,000,000.00	147,959,671.00	138.58%
2022							
1.	Bicol	Matnog	3	January 24, 2022 – January 23, 2037	1,000,168,000.00	319,891,413.00	212.66%
2.	Agusan	Nasipit	3	February 7, 2022 – February 6, 2037	906,000,000.00	123,119,613.00	635.87%
3.	Negros Occidental/BBB	Pulupandan	3	April 8, 2022 – April 7, 2037	571,000,000.00	5,262,477.00	10,750.40%
4.	Surigao	Surigao	3	April 22, 2022 – April 21, 2037	1,068,000,000.00	61,396,718.00	1,639.51%
5.	Bohol	Tagbilaran	3	May 18, 2022 – May 17, 2037	3,903,000,000.00	6,112,933.00	63,748.24%
6.	Agusan	Masao	3	May 27, 2022 – May 26, 2037	687,365,220.00	21,575,485.00	3,085.86%
7.	Palawan	Puerto Princesa	3	June 1, 2022 – May 31, 2037	1,662,941,691.52	154,235,988.00	978.18%
8.	Davao	Sasa	2	June 28, 2022 – June 27, 2042	8,635,000,000.00	1,167,662,366.00	639.51%
9.	Zamboanga	Pagadian	3	December 2, 2022 – December 1, 2037	132,167,000.00	6,275,291.00	2,006.15%



ONGOING DIGITAL INITIATIVES IN PPA PORTS

TERMINAL APPOINTMENT BOOKING SYSTEM



Traze
CONTACT TRACING

ASIAN TERMINALS INCORPORATED

WebTrack2.0

E-PAY

WEBTRACK

International Container Terminal Services, Inc.



NORTHPORT

OPTION # 1 ONLINE PAYMENT THROUGH ACCREDITED BANKS





DIGITALIZATION AS WAY FORWARD...

- Data provided in real time on one open platform
- Paperless environment
- Time and cost reduction
- Increase transparency and market access
- Reduction of physical contact
- Ensure business continuity
- Improve resilience
- To remain significant and competitive



PPA DIGITALIZATION ROADMAP (2021-2023)

Adaptation to the “New Normal”

- Use of essential technology solution and collaboration tools
- Implementation of virtual trainings
- Implementation of online applications

Implementation of Programs on Cyber Security

- Continuous upgrade of hardware, software and overall systems
- Implementation of Data Privacy and Security



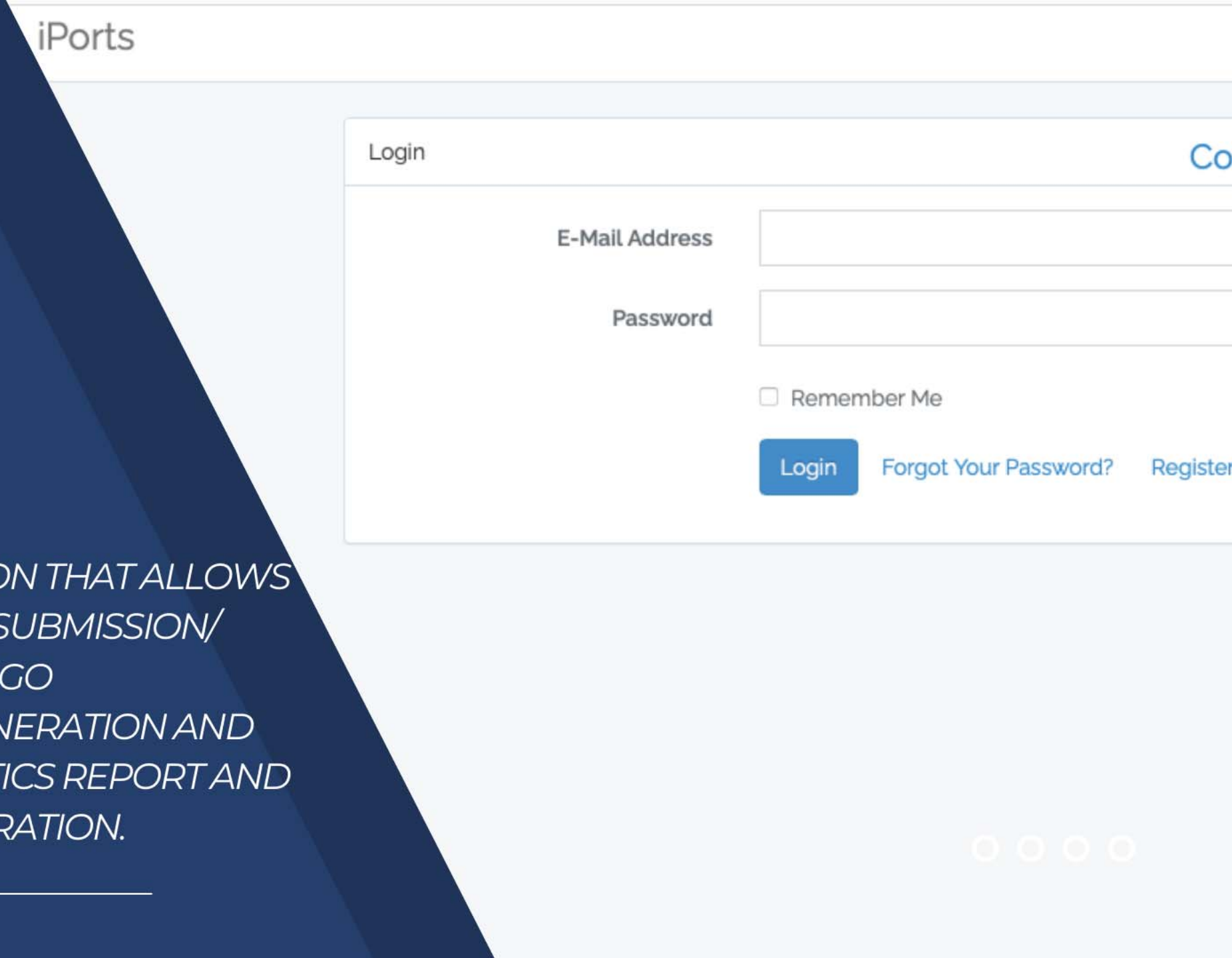
PPA DIGITALIZATION ROADMAP (2021-2023)

Introduction of Programs on Data Governance

- Ensures data
  - Availability
  - Usability
  - Consistency
  - Integrity
  - Security

i-PORTS

A WEB-BASED APPLICATION THAT ALLOWS NOA/ABA AND MANIFEST SUBMISSION/ PROCESSING, VESSEL/CARGO COMPUTATION SHEET GENERATION AND RECEIPTING, PORT STATISTICS REPORT AND FINANCIAL REPORT GENERATION.



CTS (NOW ETMS)

November 18, 2019

- PPA Administrative Order No. 12-2019 entitled “Policy On the “Centralized Ticketing System (CTS)” Relative to an Online Application Integrating the Booking and Payment Processes for the Use of Ship, and Passenger Terminal in a Single Platform”.

- PPA Board Resolution No. 2851 dated October 28, 2019



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CTS (NOW ETMS)

- To provide a real-time system with “single window” concept to process the booking, payment and other related transactions needed by the government, shipping companies, port terminal building operators and the general/riding public into a single online portal.





CTS (NOW ETMS)

- PPA is responsible for the provision of the system software, office space and hardware to be used for the booking/payment processes for the PPA ports.

- Prior to the full implementation of the CTS, a pilot test will be conducted on selected PPA ports and with selected participating shipping lines, and that the needed orientation on the system will be conducted by PPA's designated service provider prior to the pilot test and prior to the implementation.



CTS (NOW ETMS)

- On September 18, 2020, PPA launched the “Unified Electronic Ticketing System” and conducted a public demonstration and test run in the Ports of Batangas and Calapan.

- The online application procedure will support an integrated vessel booking and payment system for roll-on-roll-off (Ro-Ro) ports.

- Using desktop computers or mobile gadgets, such as mobile phones, passengers can reserve, book, and pay for tickets online.

- Should passengers have no access online, they can directly buy their tickets using the Automated Passenger Ticketing Machines to be located in all PPA-managed ports.



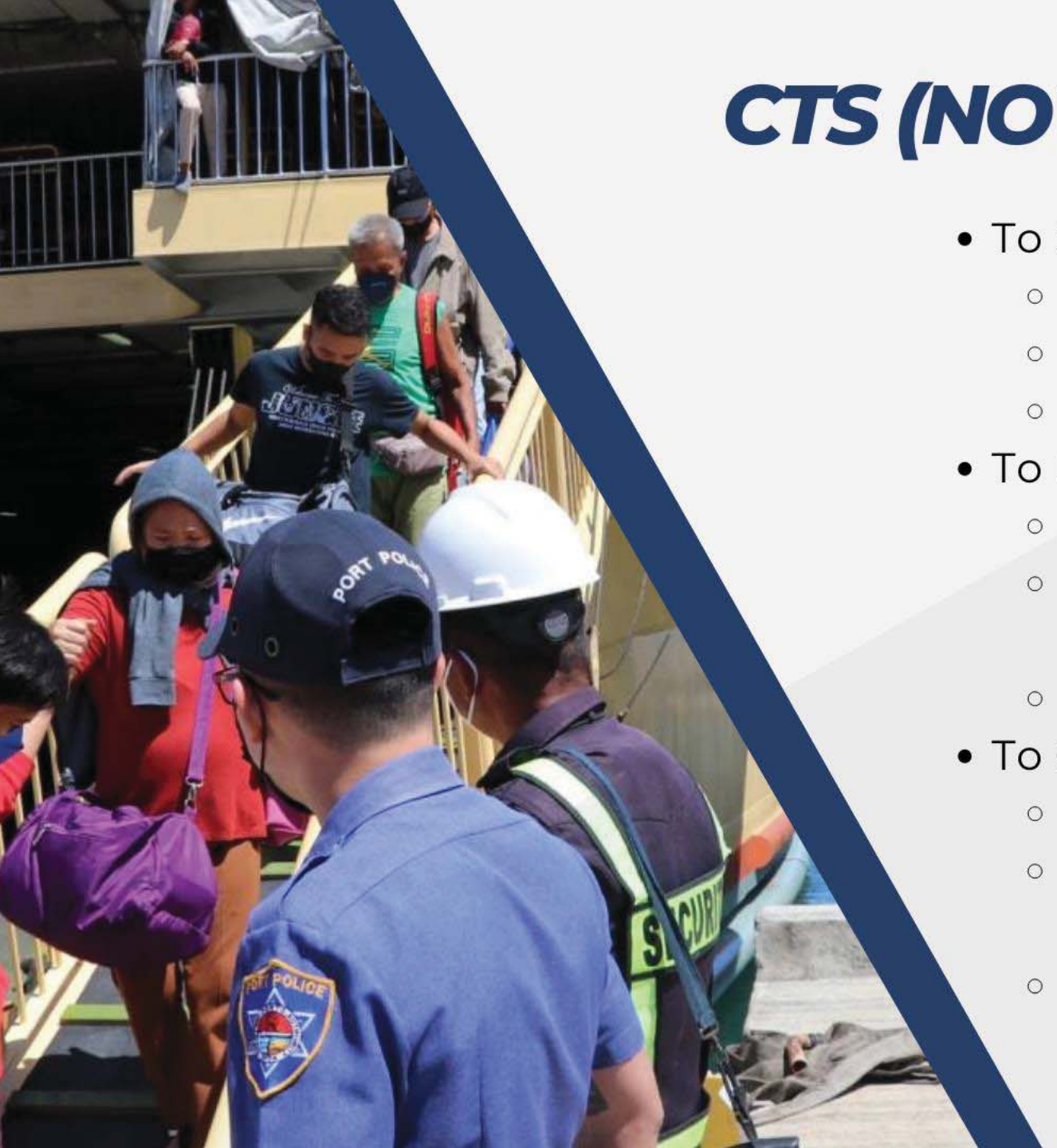
CTS (NOW ETMS)

- Objectives
  - To provide convenience and benefits to the users of the port
  - To get rid of fixers and scalpers
  - To provide online services
  - To provide ease of doing business
  - To institute port process improvement for maritime safety and security



CTS (NOW ETMS)

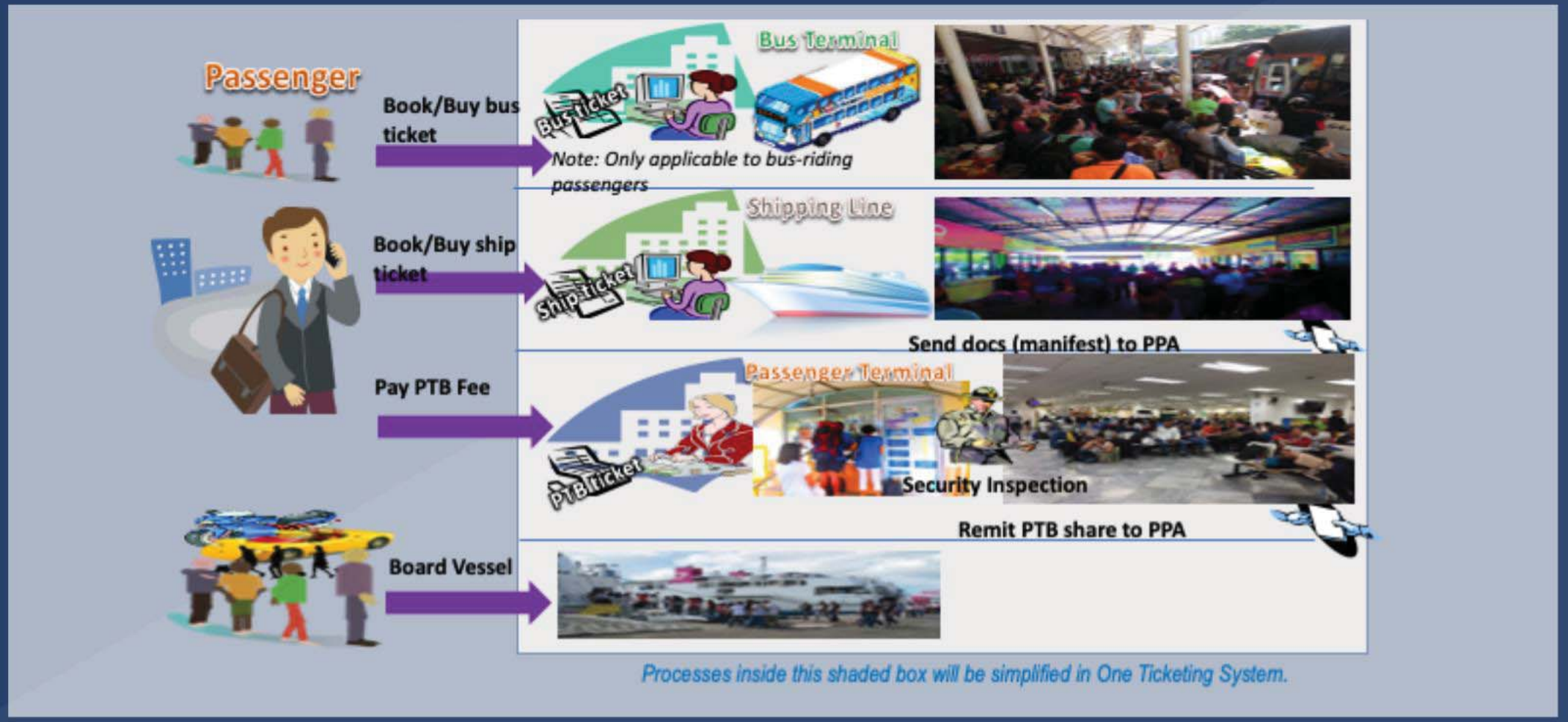
- Scope
  - Passenger taking the bus (bus + vessel fare)
  - Passenger with motor vehicle (motor vehicle + vessel fare)
  - Passenger only (vessel fare only)



CTS (NOW ETMS)

- To Shipping Lines
  - Promotion of safety culture in shipping
  - Savings in terms of administrative cost
  - Business-friendly arrangements
- To Passengers
  - Efficient delivery of ship/port services
  - Convenience from booking to vessel boarding
  - Cost savings (time, effort and money)
- To Government
  - Positive impact to trade/commerce
  - Better government services delivered to citizens
  - Upgraded country image in terms of ease of doing business

EXISTING PROCESS: GENERAL FLOW BUS/ SHIP BOOKING, PTB PAYMENT & ACCESS TO PORT PREMISES



EXISTING PROCESS: GENERAL FLOW BUS/ SHIP BOOKING, PTB PAYMENT & ACCESS TO PORT PREMISES



Simplified Process in One Ticketing System.

ELECTRONIC TICKETING MANAGEMENT SYSTEM (ETMS)

July 7, 2021

The Invitation to Bid for the ETMS Project was posted and advertised in the PPA website.

Sept. 17, 2021

The ETMS Project was re-advertised and another Invitation to Bid was posted in the PPA Website.

Dec. 15, 2021

JV of Nextix and Carus was declared as the Single Calculated and Responsive Bidder

Jan. 21, 2022

The Notice of Award was signed by Next|IX, Inc. and CARUS Ferry AB, Ltd. (“Joint Venture”)

Feb. 10, 2022

The Notice of Proceed (NTP) was issued and duly acknowledged by the authorized representative of the Joint Venture.

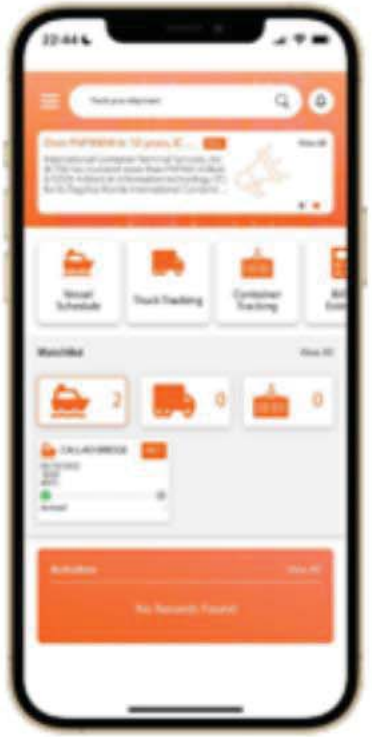
Feb. 23, 2022

The JV conducted the ETMS Project Kickoff

MICT-INTERNATIONAL CONTAINER TERMINAL SERVICES, INC. (ICTSI)

1. E-Gatepass
2. Online Banking
3. Advance Deposit Receipt
4. E-ORs
5. E-EWTs
6. E-Invoicing
7. PPA Online Wharfage Exemption
8. Online BOC Hold Lifting Facility
9. Change Management

ICTSI Mobile App



SSO Across Multiple Terminals

Bills Payment

Truck/Vessel/Container Tracking

Geofenced Gate-in

Yard locations for drivers

Push Notifications

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MICT- ICTSI

Automated Gates

Eliminate face-to- face transactions

Man-less gates, equipped with OCR, LPR technology, RFID sensors, and soon, facial recognition for drivers

Truck Manifesting

By capturing container data and plate number during booking, drivers will not need to input anything at the kiosks upon arrival.

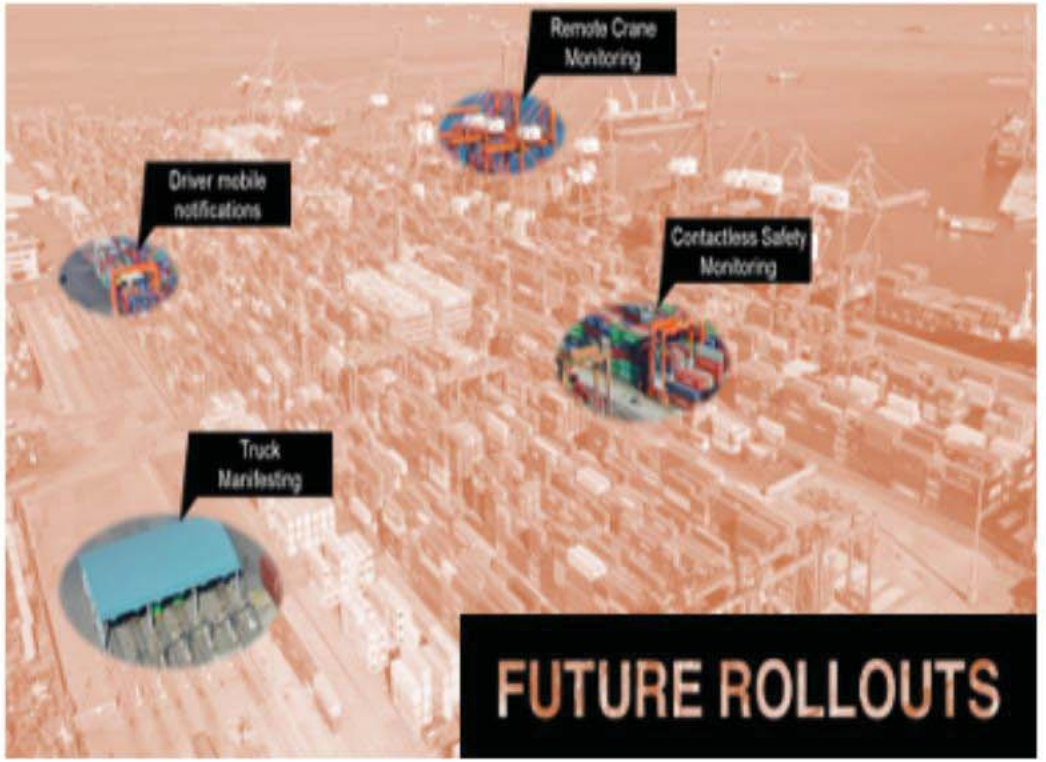
RTG Weighing

Shorten the stay as much as possible

Drivers will no longer need to queue in the weigh bridges as we have deployed automatic weight detection using spreader load cells together with 5G technology.

Driver SMS Messaging

Drivers can wait in their trucks for the x-ray holds to be cleared rather than congregate around the BOC X-ray office waiting for the results.



SOUTH HARBOR -ASIAN TERMINALS INC. (ATI)

ESG: GOVERNANCE

ATI ePortals

Transactions made faster, easy & convenient

Innovations & Technologies

- **WebTrack** — Cargo Information
- **ATIePay** — Online Payments
- **GPass** — eGatepass Printing
- **TABS** — Booking System
- **CSpace** — SL Mty Slots
- **MPort** — MobileApp
- **RoadViz** — Traffic Monitoring







Metrobank BDO UnionBank LANDBANK

PPA PARTNERSHIPS & COLLABORATION

NATIONAL

Concerted Efforts of Government Entities | Advocacy on Crucial Reforms

INTERNATIONAL

Providing Support, Assistance and Guidance in Framing Harmonized and Collaborative Actions | Keeping Connectivity Intact

TOP-CRMS STATUS



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