



Technology, Automation and Innovation for Safe and Secure Operations

MPS Terminal 3, in Tema.

PRESENTATION BY

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Executive Chairman, Scanport Limited, Ghana.



01

Digital Transformation





ScanPort Company



HCVP-Z60 X-Ray Scanners



Screening and Post Scanning Processes



Challenges and Successes



Future Plans



Video Clip

02

The ScanPort Company



ABOUT US

ScanPort is a Ghanaian owned technology-driven business founded in 2018 and specialized in the provision of comprehensive security services and solutions for key national and critical infrastructure sites.



People

84

ScanPort employees

140

staff from our Local and Technical Partners



Key Partners



Current Project

24/7 container screening and post scanning services at Terminal 3

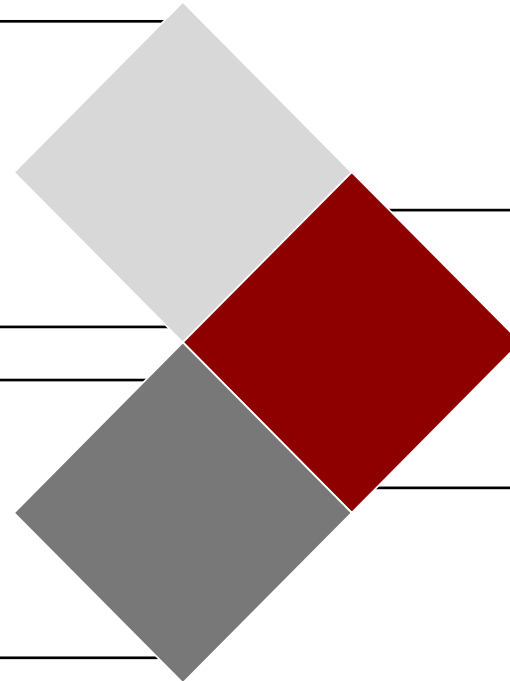


Stakeholders

- Ghana Revenue Authority (Customs Division)
- National Security
- Joint Port Control Unit (JPCU)
- Food and Drugs Authority (FDA)
- Ghana Standard Board
- Energy Commission
- Forestry Commission

**Operating and Maintaining
Six (6) Installed HCVP-Z60
Scanners**

**Delivering 24/7 Container
Screening and Post
Scanning Services**



The availability of the X-ray scanner equipment and associated system is at the heart of the 24/7 operations at the MPS, Terminal 3, Tema.

Objective of the Container Screening Operation



Provide the required Audit Trail Information on all delivery transactions such as:

- Customs compliance
- Verification of Customs compliance
- Revenue collection



Secure the Port Facility with comprehensive revenue mobilization and data collection services at the port



The 100% Screening of all Export and Import Containers:

- Ensures security of maritime trade through the Tema Port
- Combats any transnational crime such as drug trafficking and smuggling of contraband goods and illegal arms
- Prevents revenue leakage

The deployed technology is in alignment with the digitization agenda of government to promote efficiency.



Ghana Government's Digital Agenda



“

With digitization, we are introducing new and more efficient ways of doing things. We are changing the way things are done in the affected institutions for the benefit of ordinary Ghanaians. From the onset of his government, President Nana Addo Dankwa Akufo-Addo has concerned himself with building a new, **efficient Ghana under the Ghana Beyond Aid vision, which is firmly anchored in leveraging technology for accelerated development.**

”

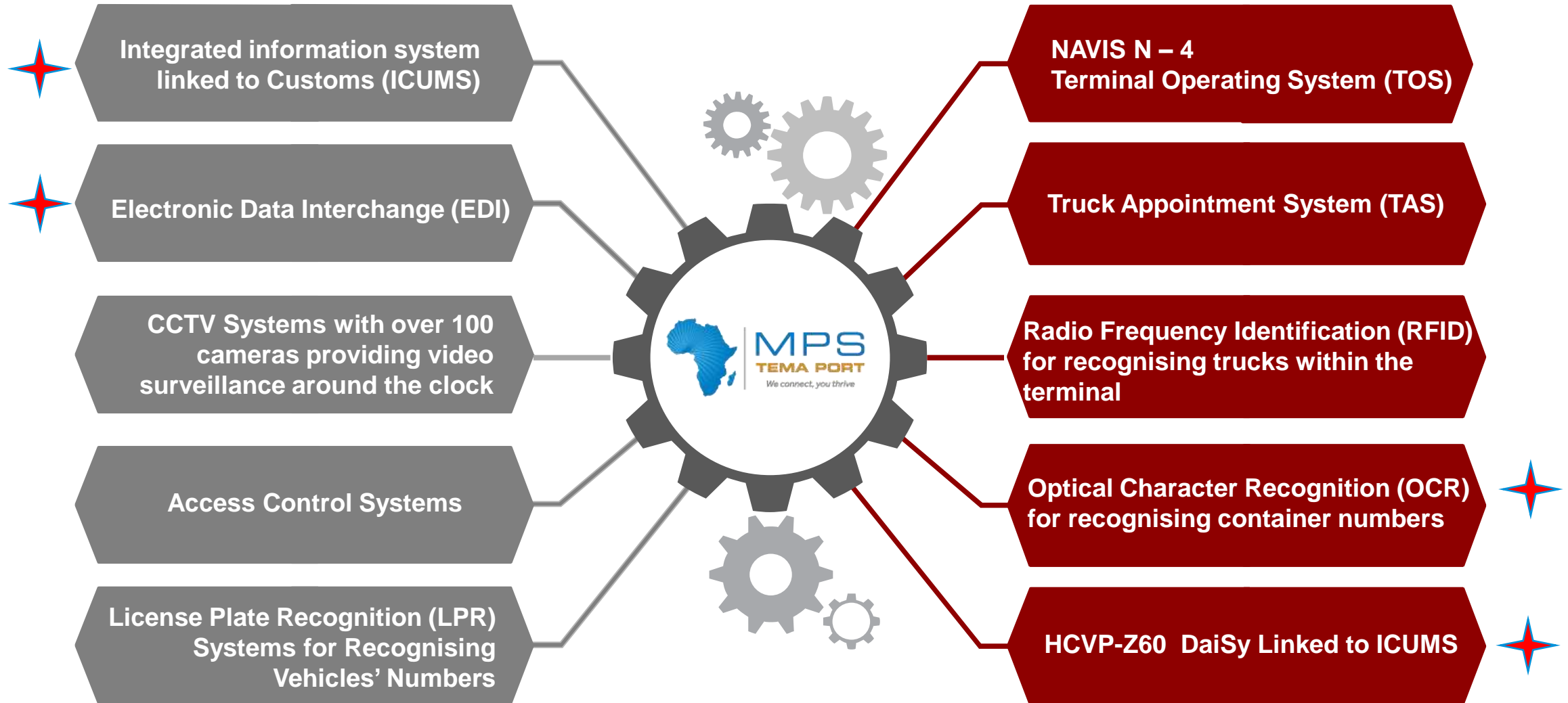
HE Alhaji Dr. Mahamudu Bawumia

Vice-President of Ghana

Digitisation and Technology Deployed at MPS



Full Compliance with the International Ship and Port Facility Security Code (ISPS)



03

HCVP-Z60 X-ray Scanners



HCVP- Z60 X-ray Scanners



A new step ahead in the inspection process

Main features

 High throughputs – 120 vehicles per hour

 Small footprint / Integration on customer's site

 Quick and reliable search result

 Several options available

OCR – Optical Character Recognition

ATR ARD – Automatic Radioactive Detection

ATR Cigarettes – Automatic cigarettes detection

ATR Container – Automatic non-empty container

TIP – Threat Image Projection

EDI – Electronic of Data Interface

04

Screening and Post Scanning Processes



Export Process

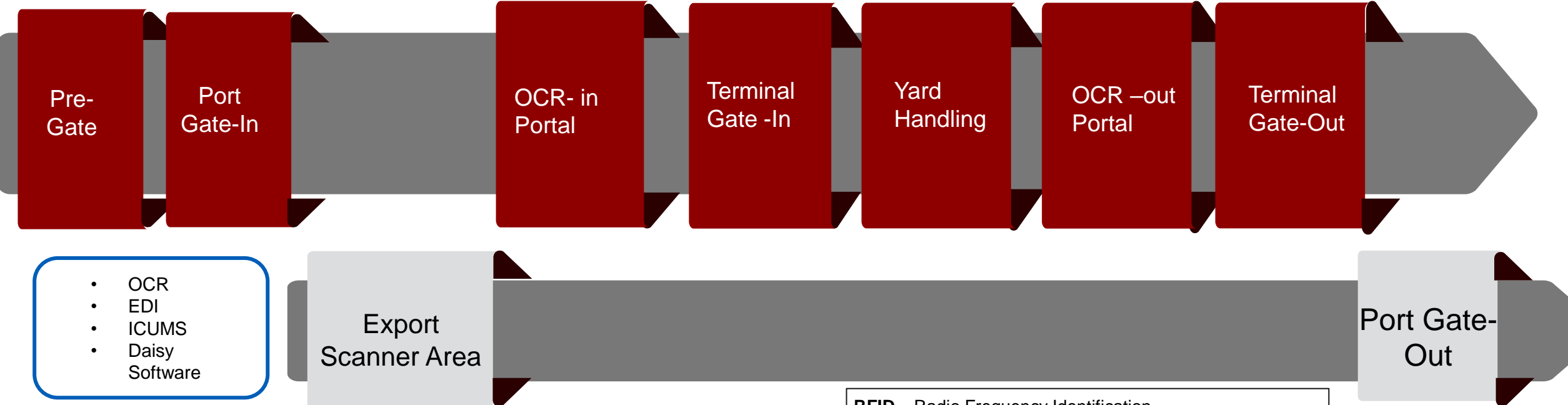


- RFID
- Biometric details of the driver

- RFID
- OCR
- LPR

- Waybill printed

- RFID
- OCR
- LPR



- OCR
- EDI
- ICUMS
- Daisy Software

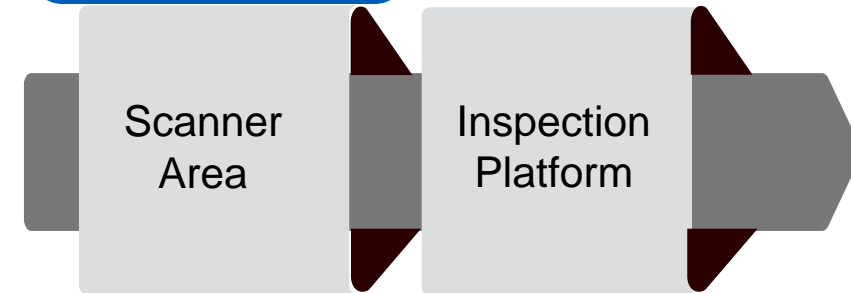
RFID – Radio Frequency Identification
OCR – Optical Character Recognition
LPR – License Plate Recognition
ICUMS - Integrated Information System to Customs
EDI – Electronic Data Interface

Import Process



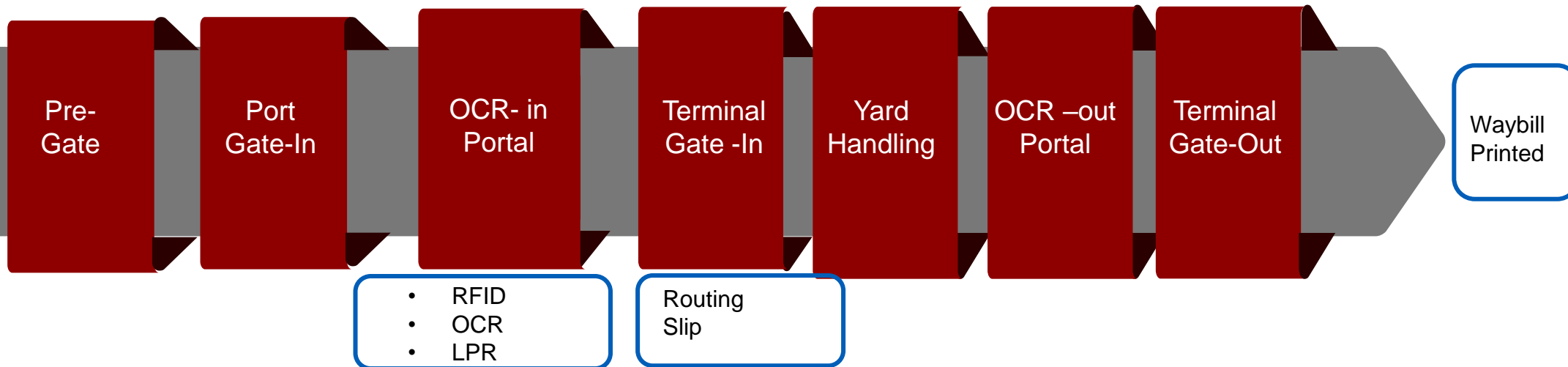
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- OCR
- EDI
- ICUMS
- Daisy Software



- RFID
- Biometric details of the driver

- RFID
- OCR
- LPR



GREEN

- Truck proceeds to the port gate-out after scanned image is archived

YELLOW

- Non-suspect: Release message sent. Allowed to proceed to port gate-out
- Suspect: “Inspection required” message sent. Truck and container move to parking area before Intrusive platform

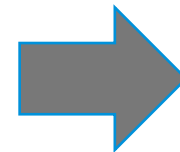
RED

- Truck and container move to parking area before Intrusive platform

Bay Allocation / Intrusive Platform



- Display Screen: Assigned bays
- CCTV coverage for each bay



Port Gate-Out

Customs Release

- DaiSy confirmation of scanned image(s)
- ICUMS: Allocation of bays on the platform
- Queuing System: Queue management
- CCTV: confirmation of empty bays

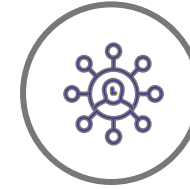
05

Challenges, Successes and Future Plans



1

Technical Glitches



Network Connectivity



Power Fluctuations



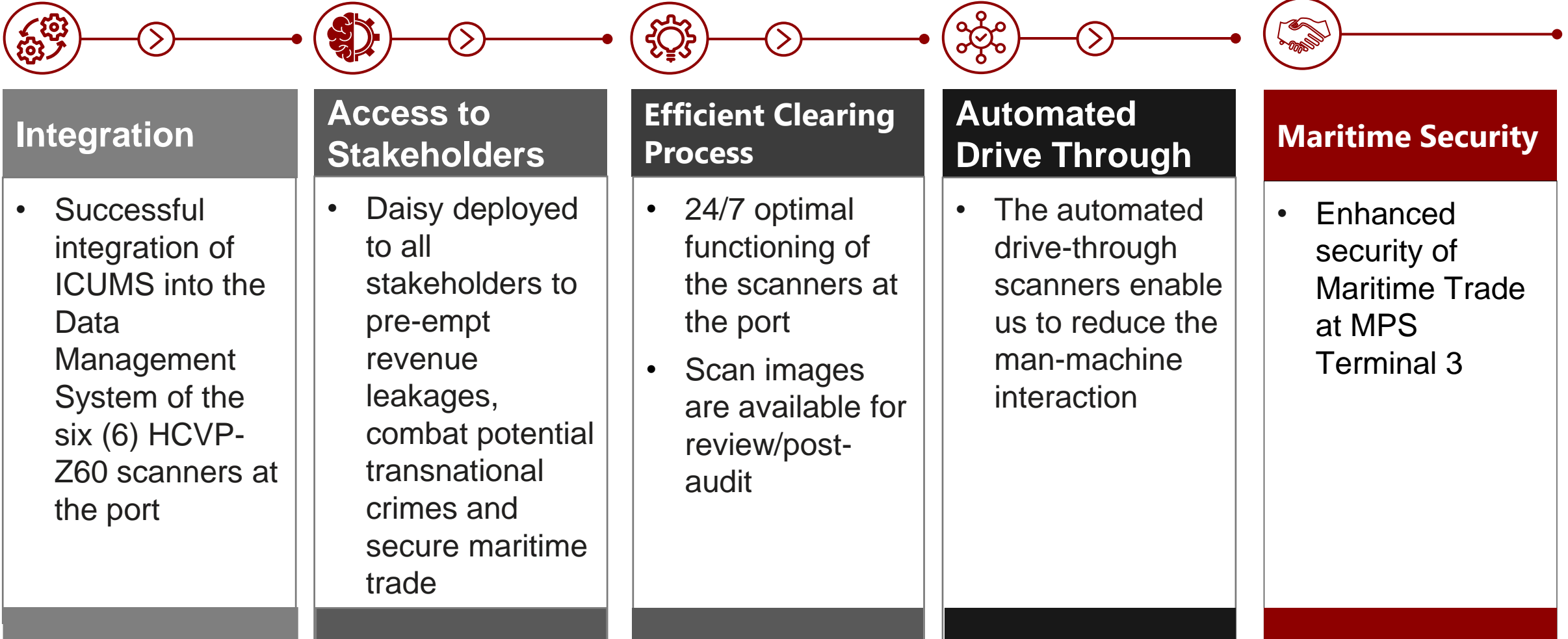
Bad Weather

2

Technology



High Cost of Technology



Initiatives

Technical

Deployment of Access Control Technology

Provision of High-Tech Infrastructure

Integration with the MPS and Customs Systems

Installation of Electrical and Fibre Optic Cables

Provision/Installation of RFID readers, Height Sensors and Traffic lights

Automatic threat/target recognition (ATR) capabilities

Non-Technical

Construction Projects to Improve the Intrusive Examination Platform Area



Thank You



ScanPort

