

"Maritime and Port Logistics: Digital Interoperability"



“Interoperability”



E.g. Interoperability

Optimization

Automation

Collaboration

Export Customs Clearance

The shipping process

Import Customs Clearance

Shipper

Origin Warehouse

Origin Port

Destination Port

Destination Warehouse

Consignee



Export Haulage

Origin Handling

Ocean Freight

Destination Handling

Import Haulage

Private & Public

Trade Logistics

Business Processes



Port of Bridgetown, Barbados.



Private company owned by Government

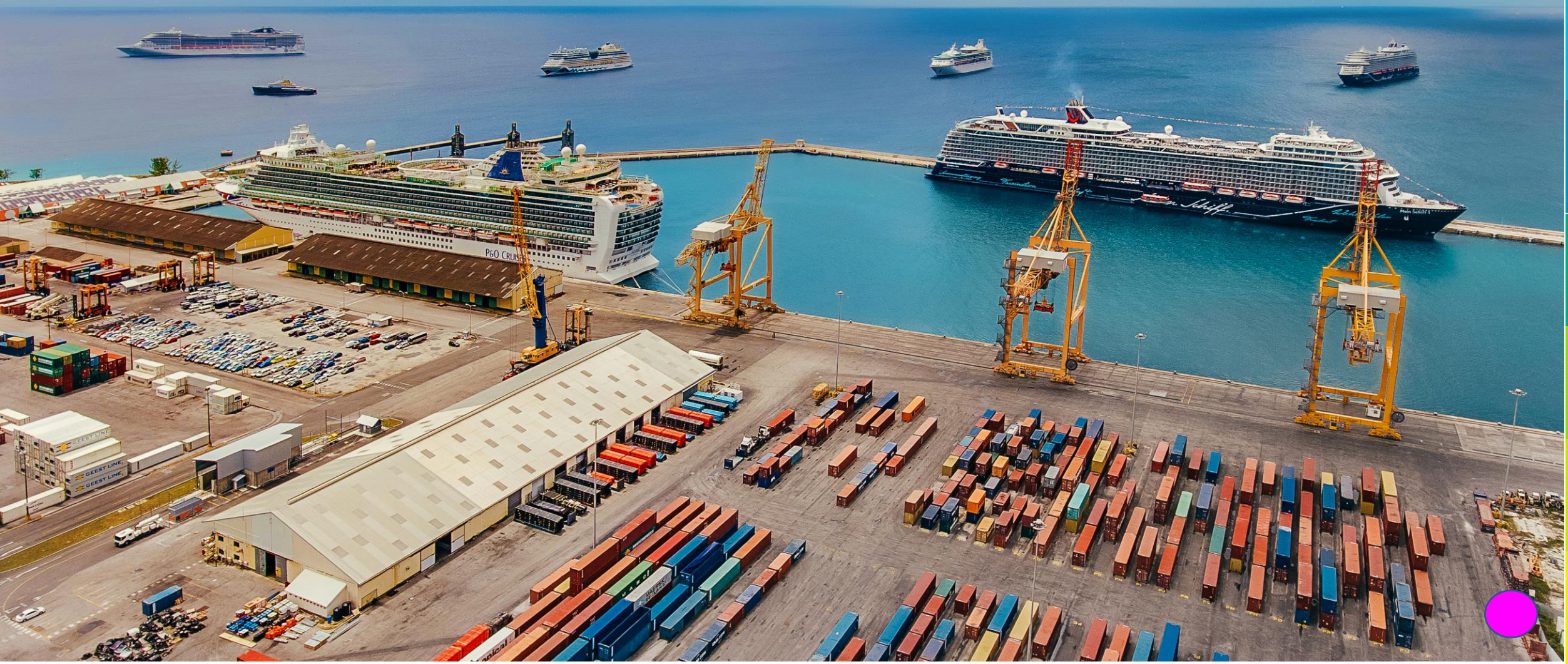
Facilitates imports > 92% of local consumables

Processes 50% of tourists (800K)

Industry supports 60% direct and indirect employment

Operated during COVID shutdown period

Port of Bridgetown, Barbados + OAS CIP = Next Gen PCS



A central graphic with the text 'API' in a large, bold, white font. The text is surrounded by several circular icons connected by lines. The icons include a person, a gear, a lightbulb, a line graph, and a dollar sign. The background is dark blue with a white torn paper effect at the bottom.

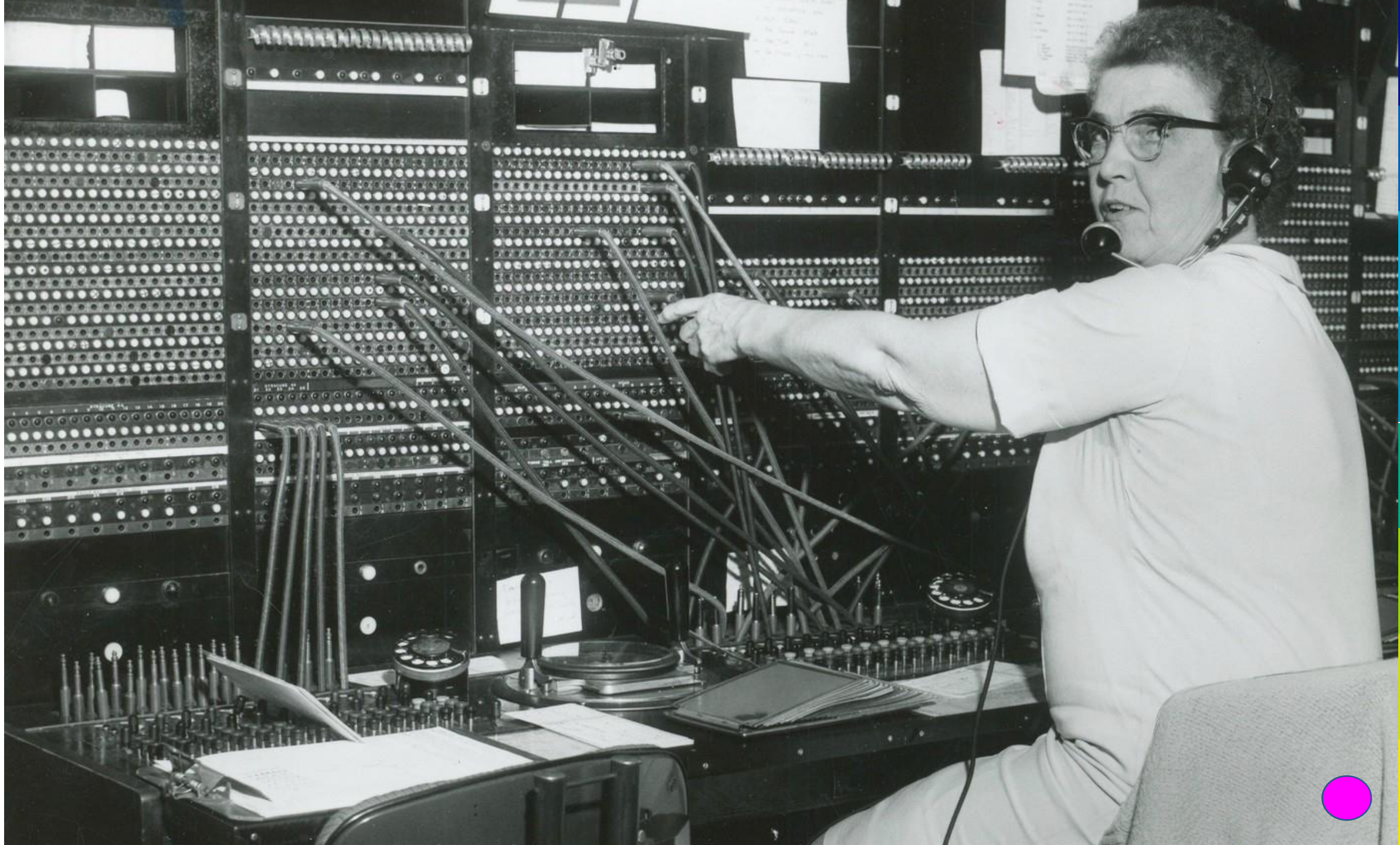
API

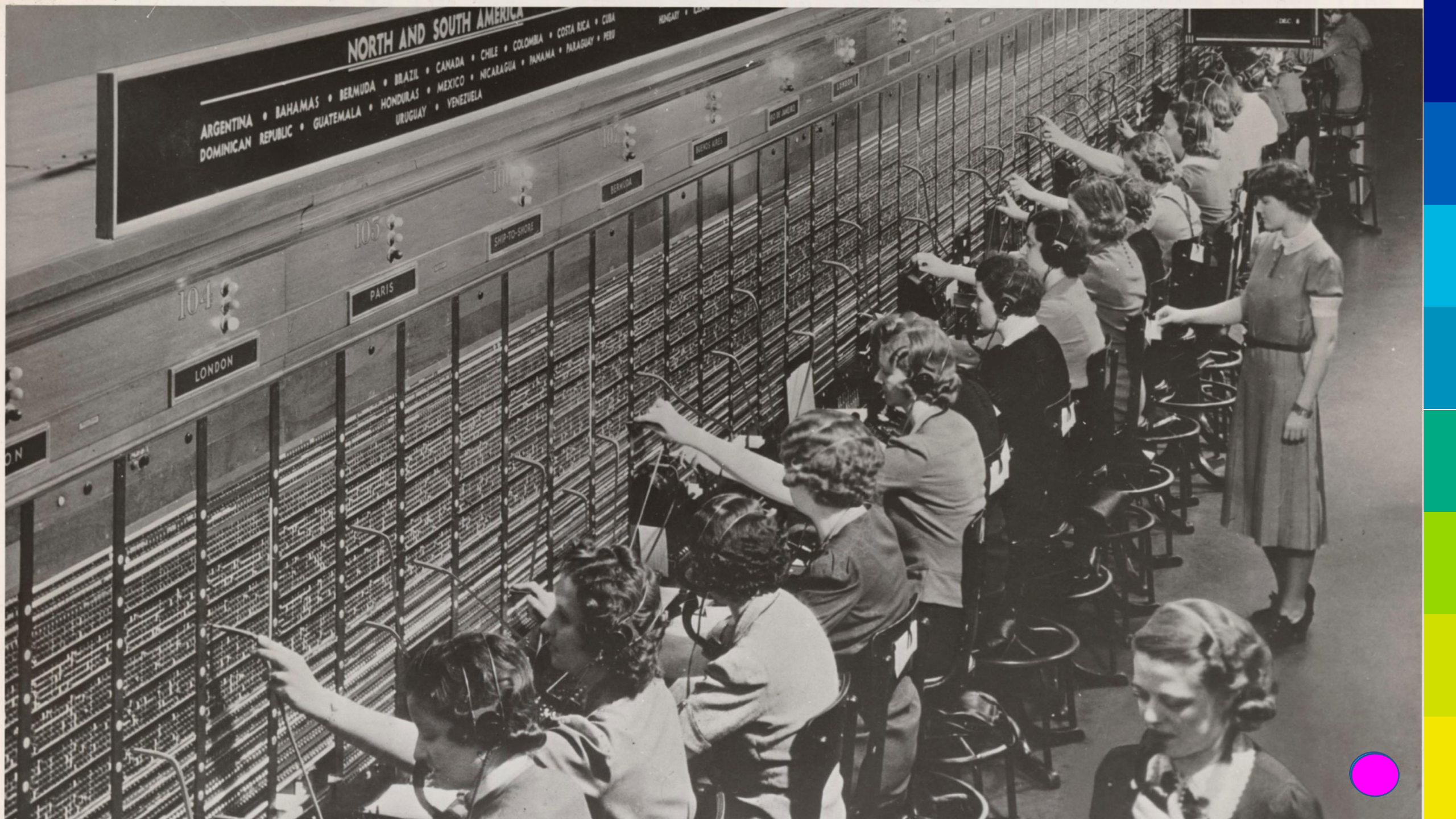
Information Exchange
(application programming interface)



Information Exchange







NORTH AND SOUTH AMERICA

ARGENTINA • BAHAMAS • BERMUDA • BRAZIL • CANADA • CHILE • COLOMBIA • COSTA RICA • CUBA
DOMINICAN REPUBLIC • GUATEMALA • HONDURAS • MEXICO • NICARAGUA • PANAMA • PARAGUAY • PERU
URUGUAY • VENEZUELA

104
LONDON

105
PARIS

SHIP-TO-SHORE

106
BAHAMAS

107
BERMUDA

108
COSTA RICA

109
CUBA

110
GUATEMALA

111
HONDURAS

112
MEXICO

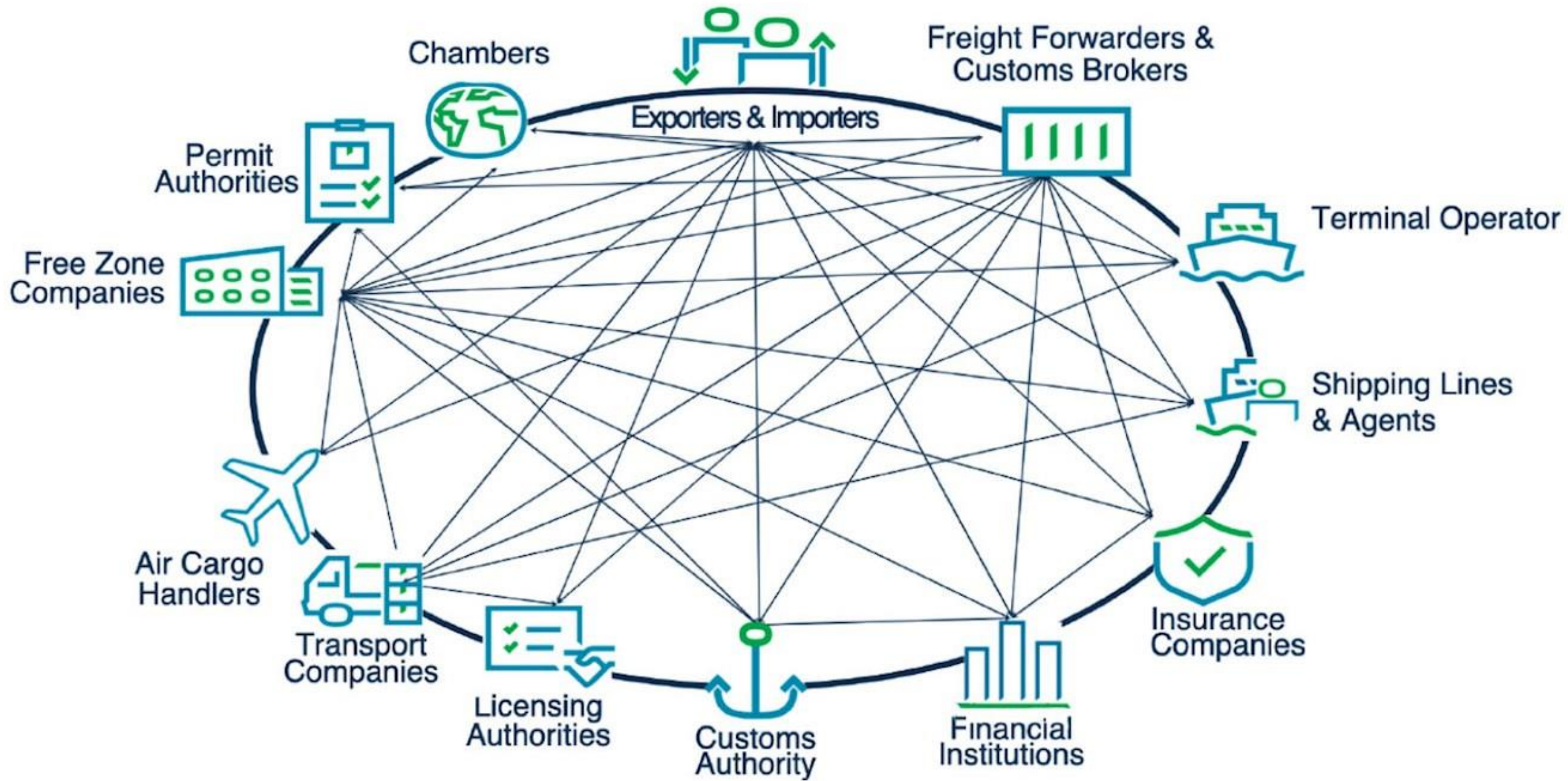
113
NICARAGUA

114
PANAMA

115
PARAGUAY

116
PERU







Senator the Hon. Lisa R. Cummins, B.Sc., M.Sc.
Minister of Tourism and International Transport

Facilitation of International Maritime Traffic Bill, 2021



Addressing dark spots and data gaps that cause friction and inefficiency in the supply chain, Kaleris is creating a global platform to improve execution and visibility across the entire shipment lifecycle. Navis plays an important role by linking the busiest nodes in the global supply chain to the Kaleris platform. Kaleris unlocks operating data to connect and integrate workflows and improve execution and visibility for all supply chain stakeholders.

CONGRATULATIONS

2022 navis[®] Inspire
Award Winners



The 2022 Inspire Award winners are:

Peel Ports Group received the **Digital Transformation Award**. By leveraging Navis SmartAccess, a community access portal to process and optimize gate operations, this now semi-automated terminal created an efficient new portal for truck appointment bookings. The one-stop-shop tool gives truck companies the ability to directly create, manage, and review truck appointments via a mobile app or web portal. In collaboration with Navis, Peel Ports incorporated direct trucker feedback to the tool, demonstrating how listening to their customers and employing technology creates enhanced efficiency and more agile operations.

Barbados Port Inc. won the **Innovation Award**, standing out for how they drove innovation through collaboration. Leveraging an existing API in their cloud-based Navis TOS, the port built their own in-house notification system to keep port users, partners, and customer up to date on key information in a timely, efficient way using information from their TOS. Looking to technology to further enhance communication, they launched an online accessible portal for customer and state agencies to easily connect about cargo processing and clearance. The paperless process creates interoperability across the various systems these organizations use to process shipments at the port, generating greater efficiency, a reduction in operating costs, and a more sustainable approach to manage operations.

Georgia Ports Authority was presented with the **Performance and Capacity Award** for taking utilization to the next level. After recently upgrading their Navis brand N4 TOS, the port set multiple volume records. In August 2022, the port completed more than 70,000 marine lifts in one week, more

..."the (Barbados) port built their own in-house notification system to keep partners and customers up to date ."

..."the paperless process creates interoperability across various systems to generate efficiency and a reduction in costs, a more sustainable approach to operations."

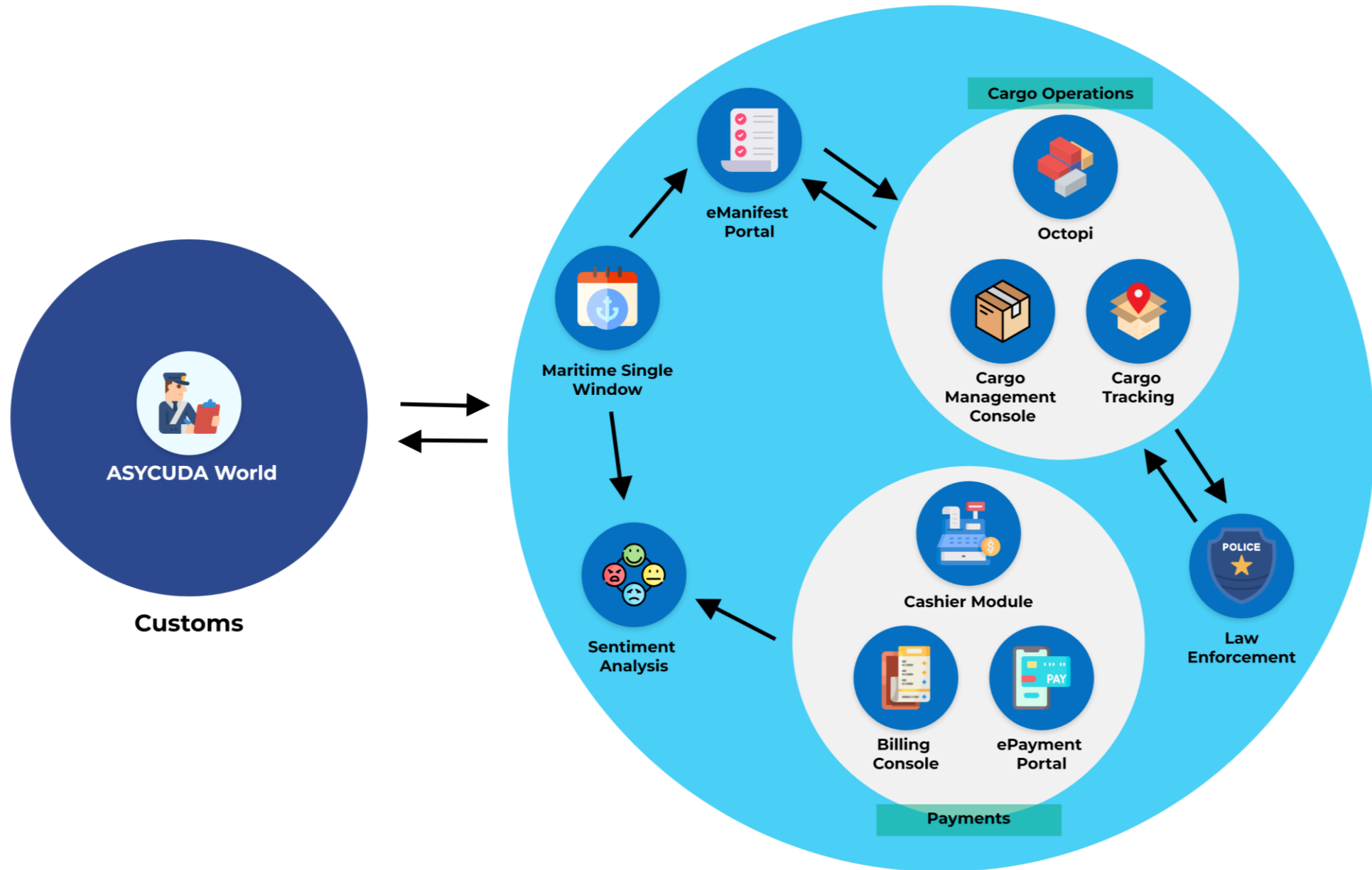
- Excerpt from online award citation : visit - www.kaleris.com

Congratulations again to our Inspire Award winners, and thank you for the opportunity to work with you," said Kaleris.

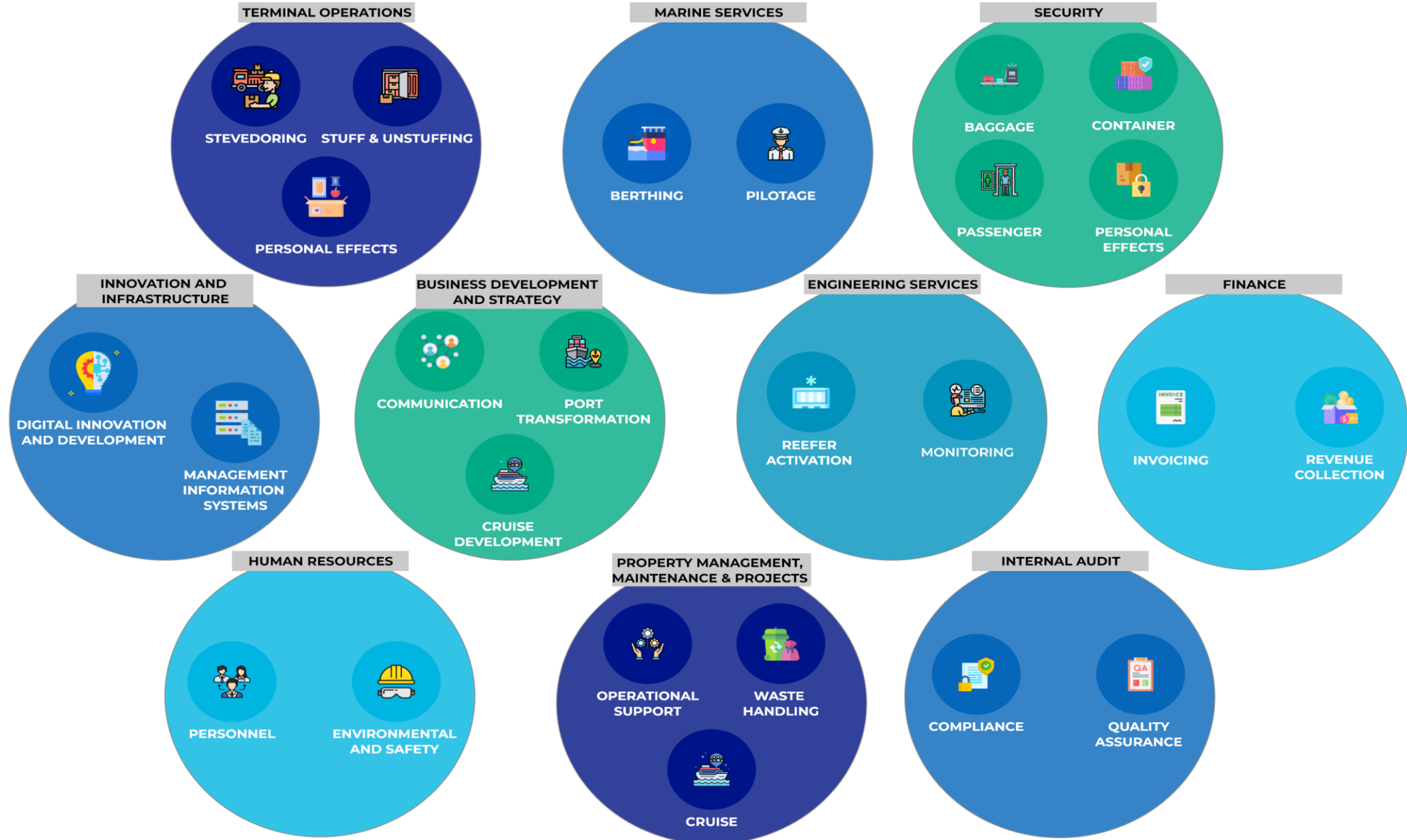
Kaleris is a provider of cloud-based supply chain execution and visibility technology solutions. Kaleris recently announced the merger of Navis with its portfolio of supply chain execution solutions for yard management, transportation management, and maintenance and repair operations. With more than 490 implementations in 80 countries, Navis now joins Kaleris as the premier brand for technology solutions to control and optimize terminal operations at container and general cargo terminals worldwide.



Current Interoperability



Critical Interop Design – Port Community - Internal



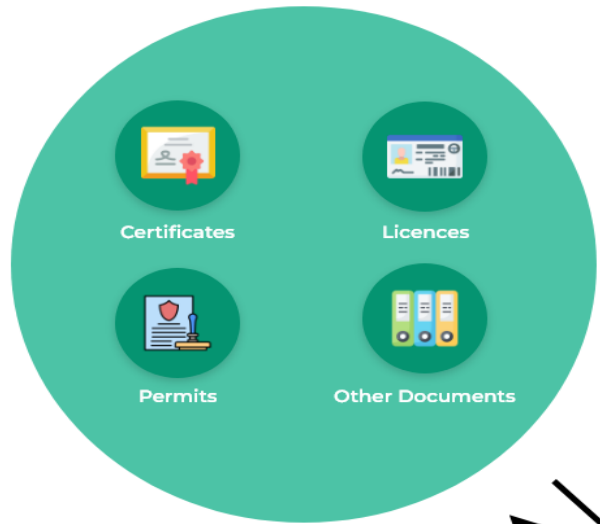
Port Community – External (Broadest stakeholder base)

Barbados Customs and Excise Department	Ministry of Tourism and International Trade	Ministry of Energy and Business Development	Ministry of Agriculture – Veterinary Services
Ministry of Agriculture – Plant Quarantine	Ministry of Health and Wellness	Ministry of Innovation, Science and Smart Technology	Ministry of Finance, Economic Affairs and Investment
Barbados Postal Service	Shipping Association of Barbados	Barbados Customs Brokers and Clerks Association	Transportation Intermediaries of Barbados
Barbados Chamber of Commerce and Industry	Barbados Private Sector Association	Police & Law Enforcement	Barbados Workers' Union

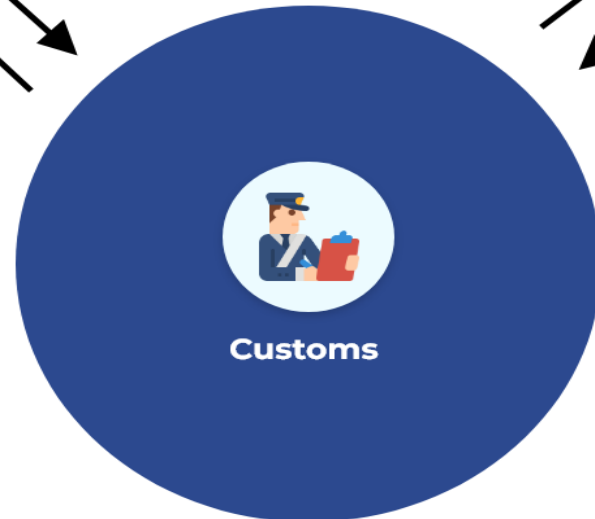
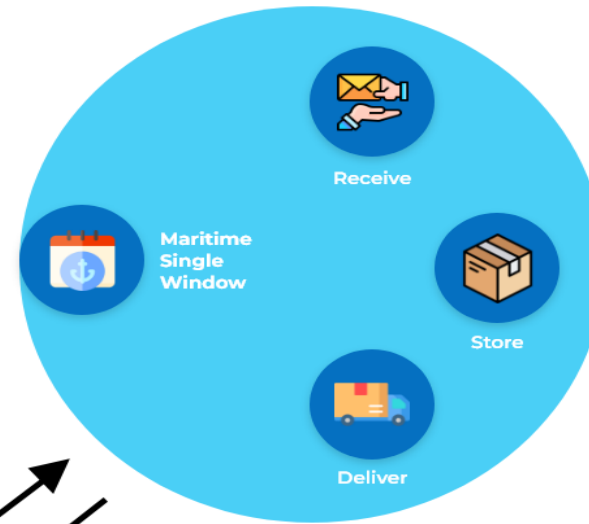


Single Windows Platforms

Barbados Electronic Single Window



Port Community System



Customs

ASYCUDA World



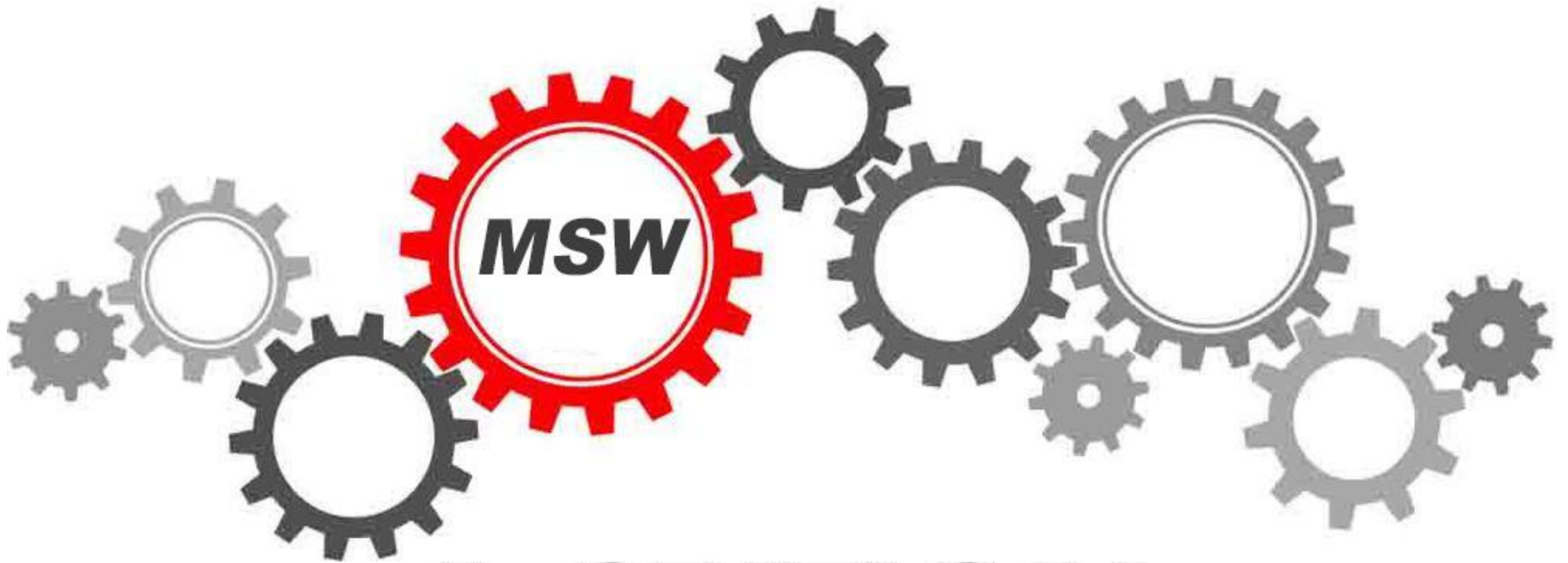
The Barbados PCS

Why does it stand out?

Conventional PCS have a singular focus for large Ports but Barbados ...

- Cargo Tracking
 - Cruise Operations
 - Environmental Controls
 - Law Enforcement & Intelligence
 - Private Business
-
- Applicable for Small Island States but scalable as an online service





A CRITICAL COMPONENT



Two handprints are visible in the background, one on the left and one on the right, both rendered in a dark, textured style. The word "SHOW" is written in large, bold, olive-green capital letters with a white outline, positioned in front of the left handprint.

SHOW


&


A speech bubble with a white outline and a tail pointing towards the bottom left is positioned around the word "TELL". The word "TELL" is written in large, bold, purple capital letters with a white outline.

TELL



Welcome to Barbados Port Inc.'s eServices Portal. Before using any of our services do ensure you are familiar with our [terms and conditions](#) as well as our [privacy policy](#). Please choose the service you wish to use below.




 **e-Payment Portal**
Pay F.A.S., Unstuffing, Storage, Plug, Security Fees and more at your convenience.


[Launch](#)



 **Maritime Single Window**
Submit your documents digitally to facilitate clearances for vessels arriving and departing the Port of Bridgetown.

[Launch](#)



 **Electronic Manifests**
Submit and manage your electronic manifests and distribution lists (degroupages).

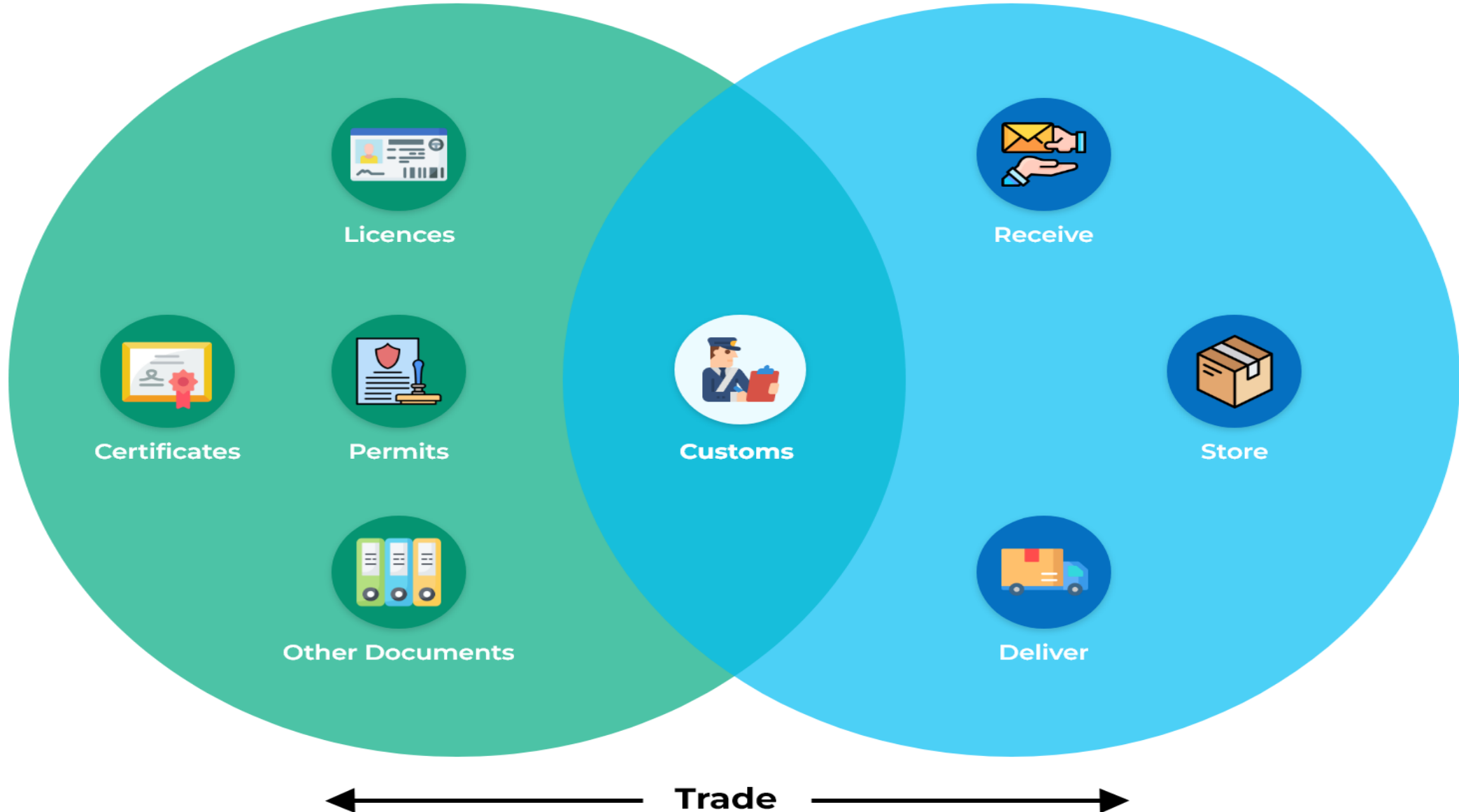
[Launch](#)



Future Environment

Government Ministries and Agencies

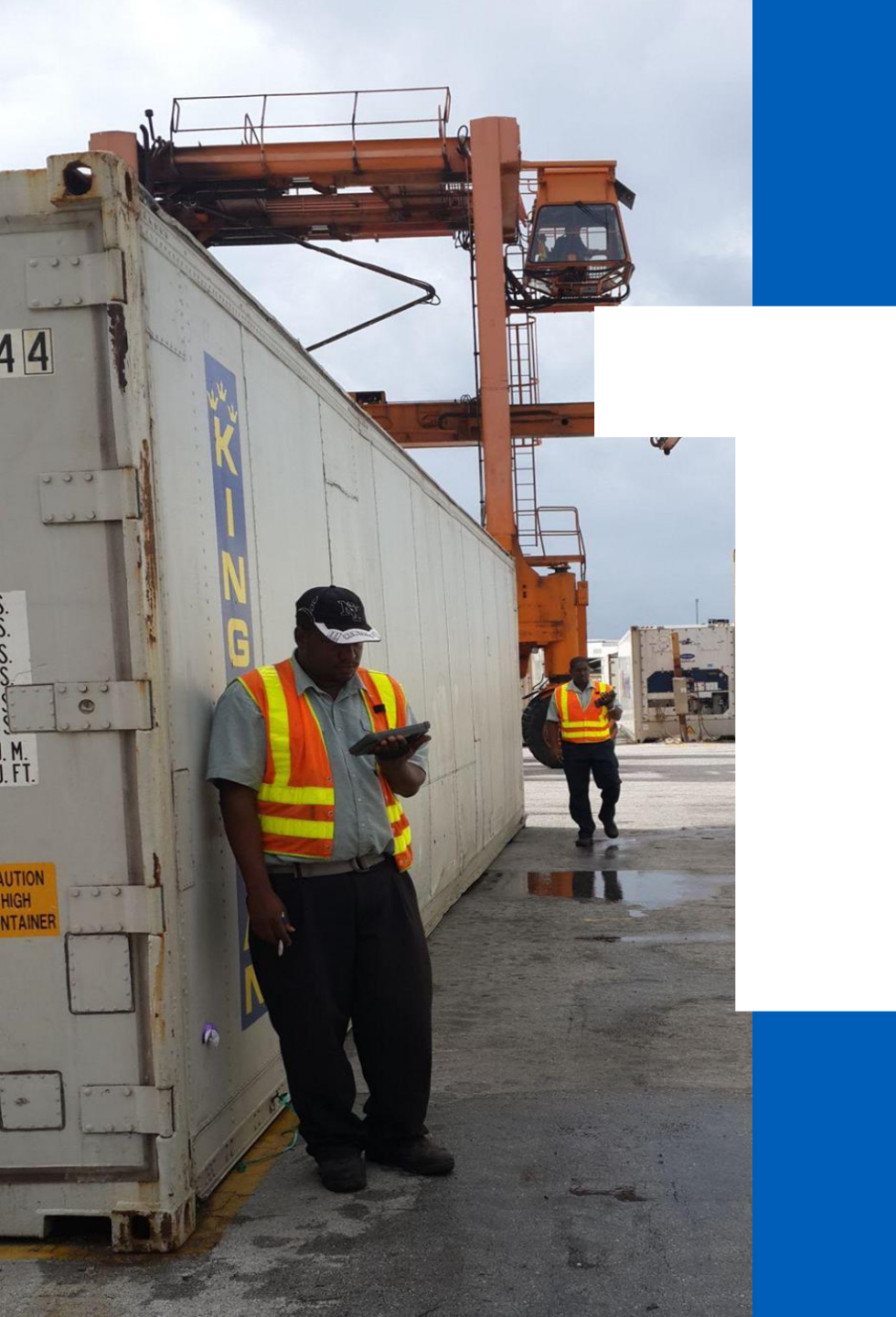
Port Community





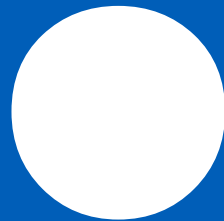
The key aspects to development are grounded in **Five Pillars**

which can shape the successes and challenges faced when establishing interoperability between agencies in a Port Community System.



Single Windows

Port Community System
Maritime Single Window
Trade Single Window





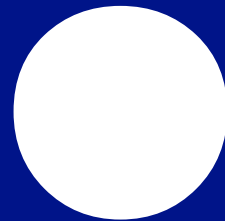
Legislation

Data Protection Act

Electronic Transaction Act

Customs Act

Port Act





Paradigm Shift

Change Management
Inter-agency Collaboration
Responsible Data Sharing





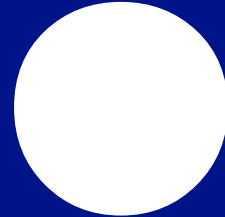
Big Data & Advanced Analytics

Blockchain

Internet of Things

Artificial Intelligence

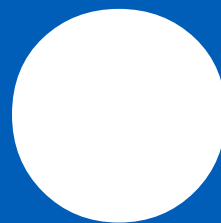
Cloud Computing





Cybersecurity by Design

Awareness & Training
Industry Standards
Reporting





For same day delivery
service island-wide...

When speed matters, choose
Post Express Couriers!

Don't Wait



The Next Step

BUSINESS
NOT AS USUAL



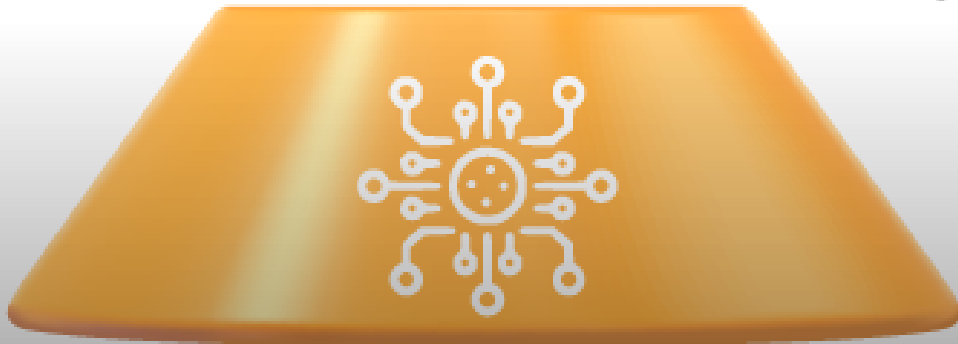
Technology transcends business





• DIGITAL TRANSFORMATION

Leverage emerging technologies to build new business systems, business models, consumer & employee experience



• DIGITALIZATION

Improve business processes by leveraging digital technologies



• DIGITIZATION

Transition from analog to digital



Thank You!


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