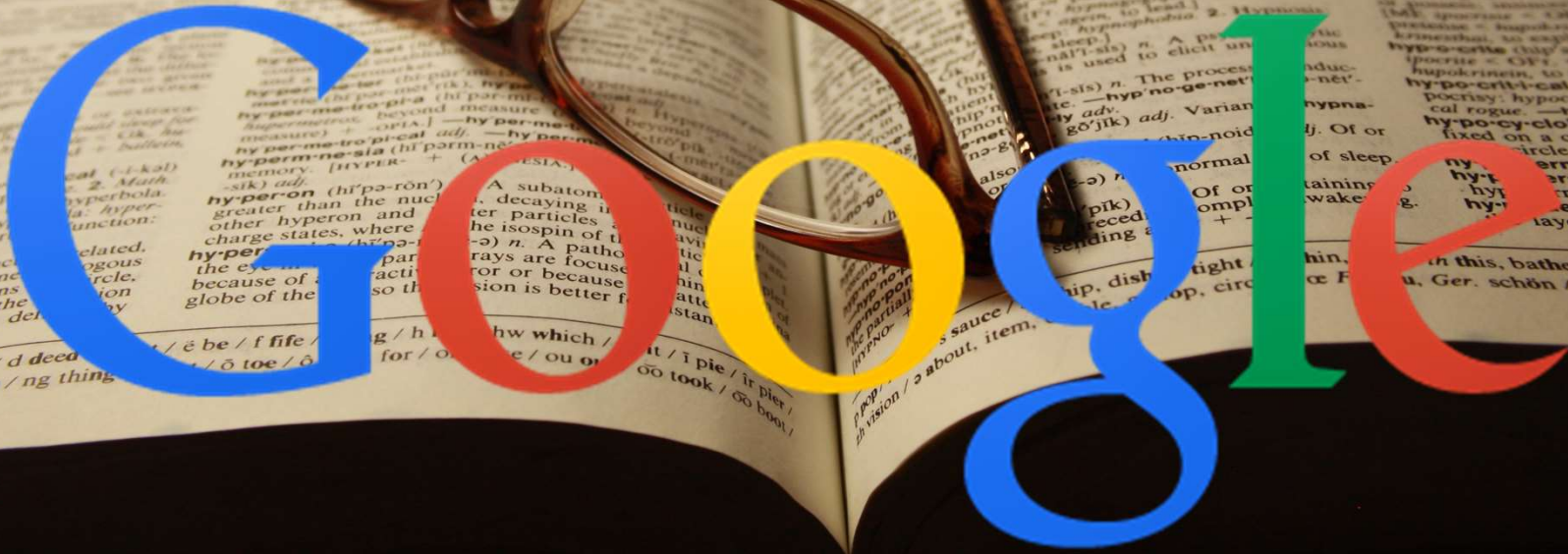


# Maritime Logistics: Digital Interoperability



# Interoperability







# Interoperability

Optimization

Collaboration

Automation

**Export Customs Clearance**

**The shipping process**

**Import Customs Clearance**



Private & Public

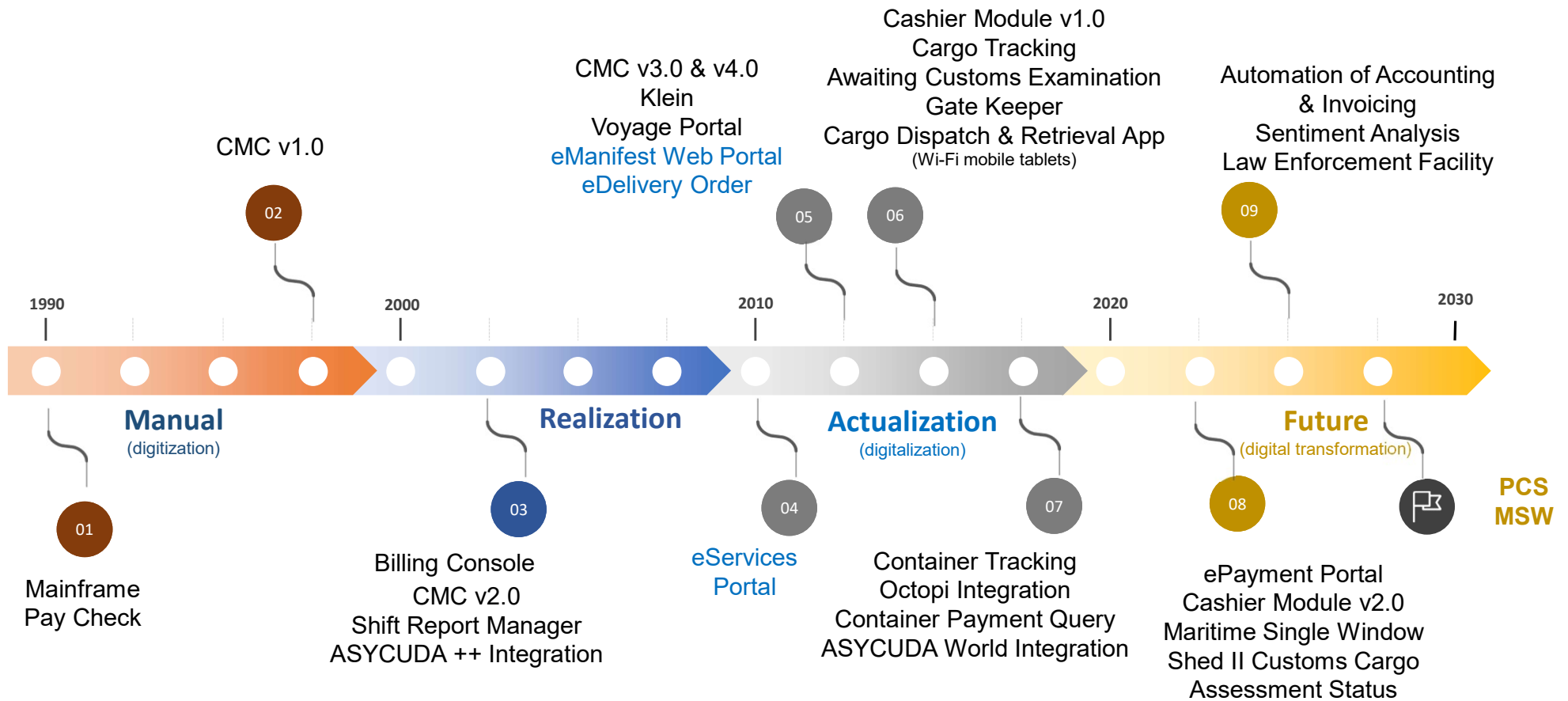


**Senator the Hon. Lisa R. Cummins, B.Sc., M.Sc.**  
**Minister of Tourism and International Transport**

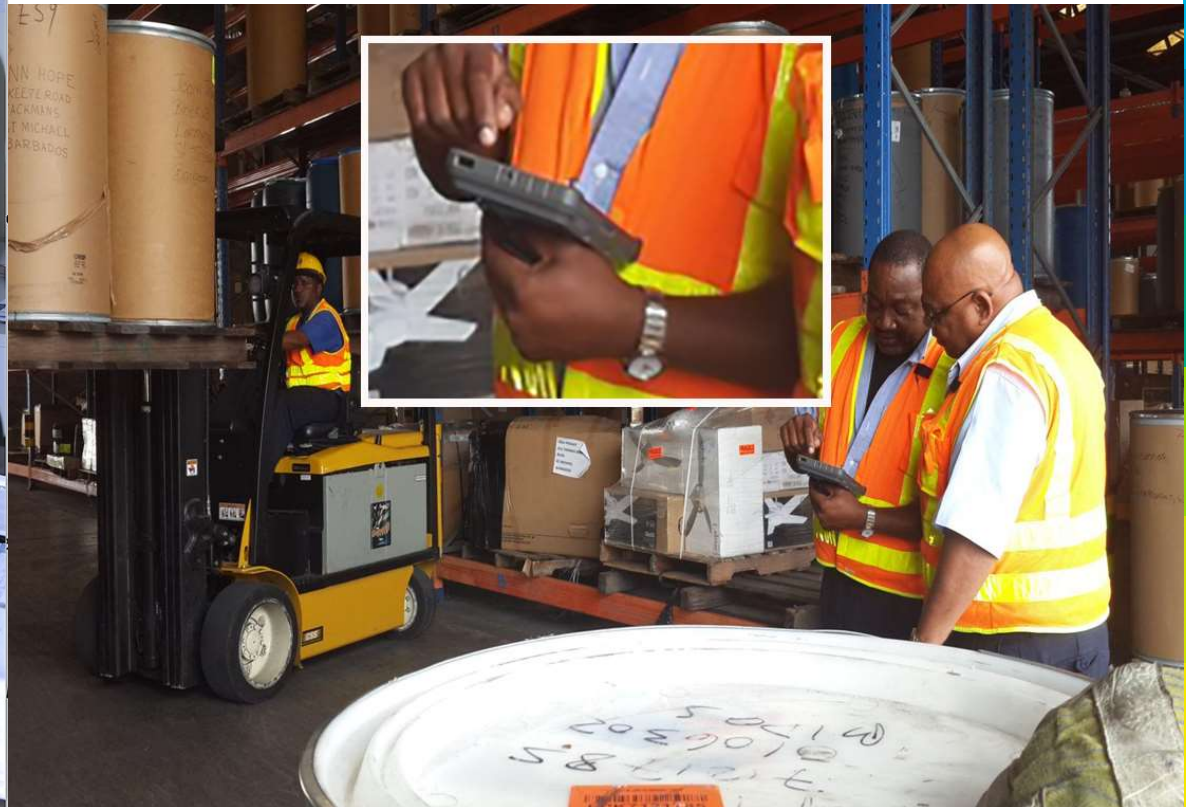
Facilitation of International Maritime Traffic Bill, 2021



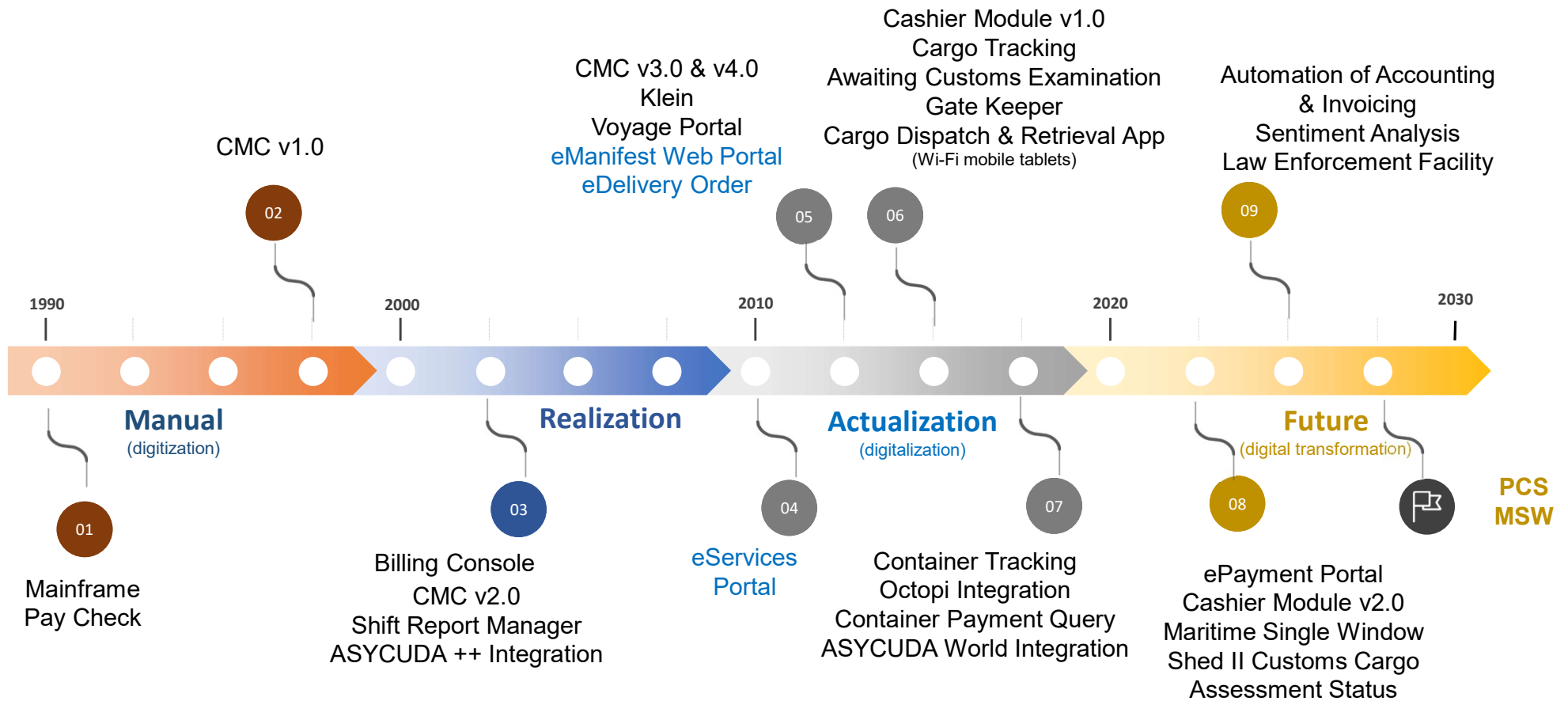
# Our Journey



# THEN versus NOW



# Our Journey







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<sup>®</sup> 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."

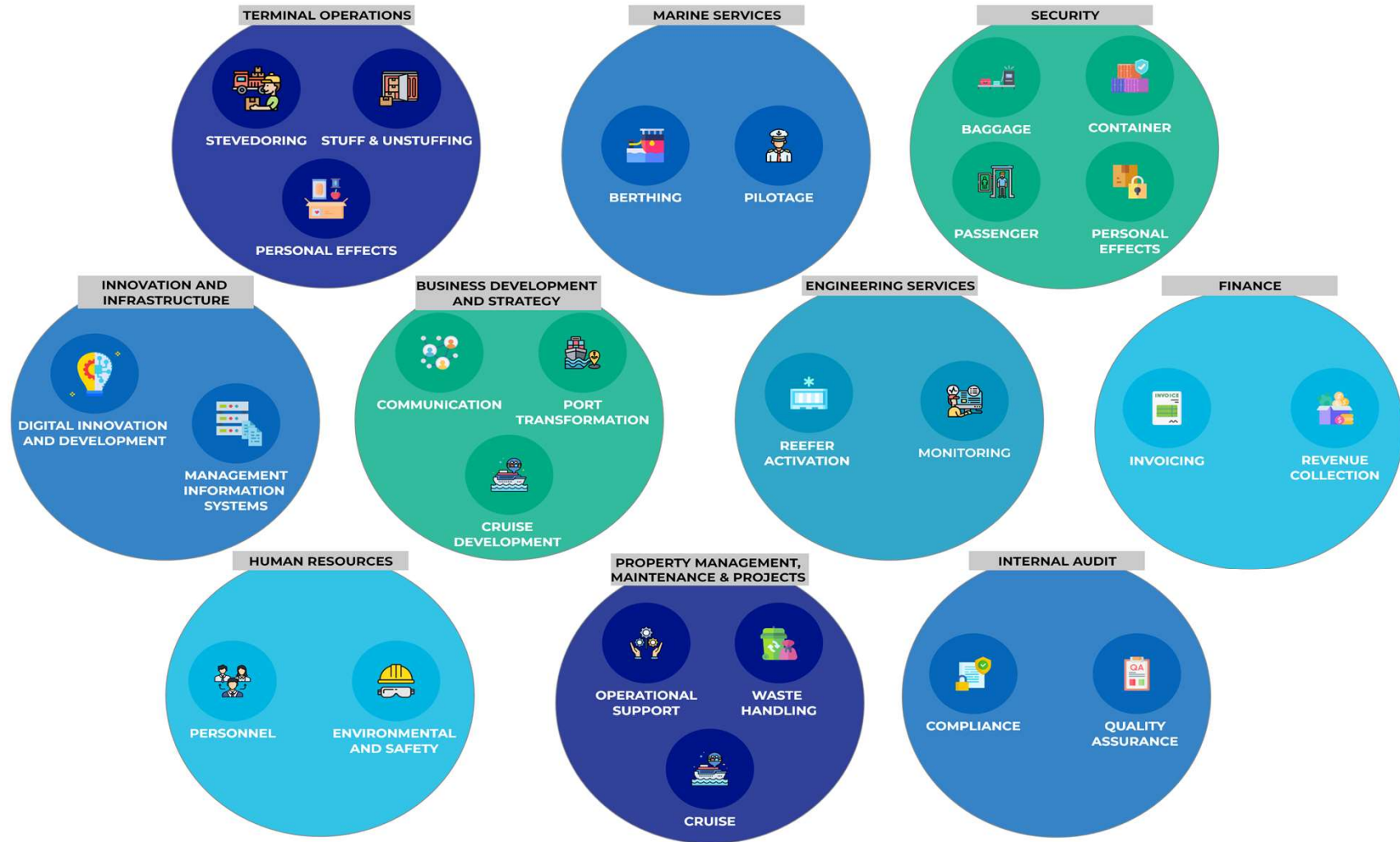
- Excerpt from online award citation

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



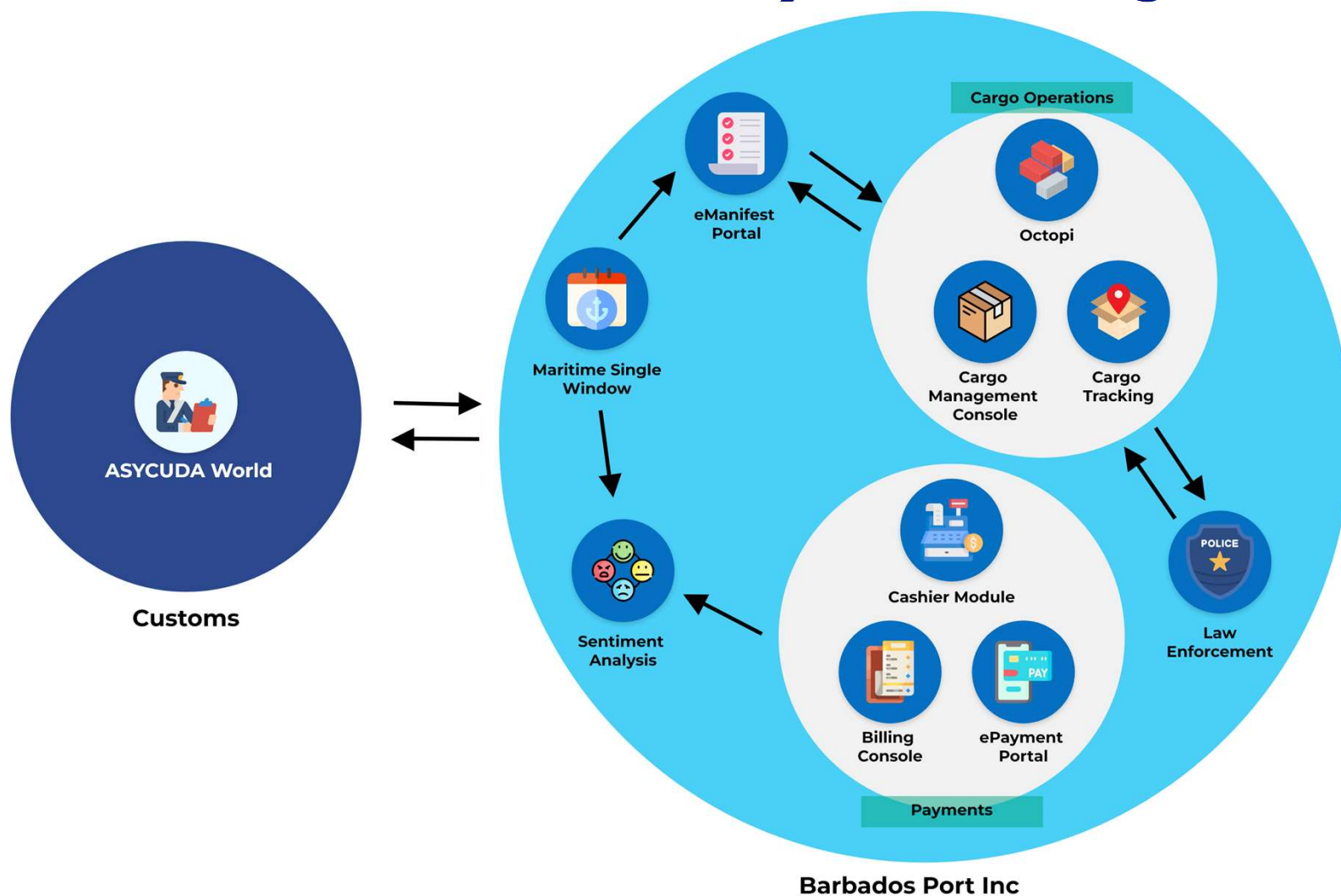
# Critical Interop Design – Port Community - Internal



## 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

# Current Interoperability





# Information Exchange



**EDI**

**VS**



**API**

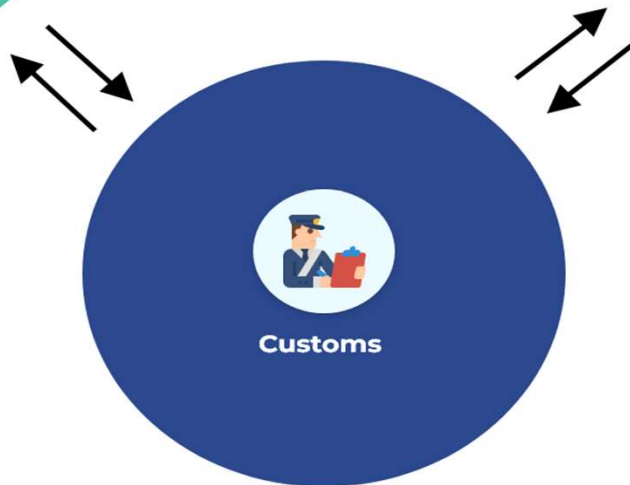
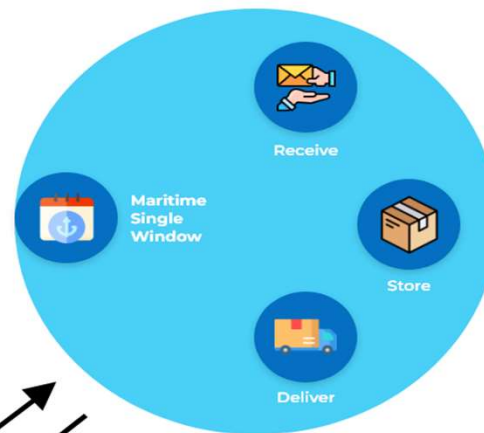


# Single Windows Platforms

Barbados Electronic Single Window



Port Community System



ASYCUDA World

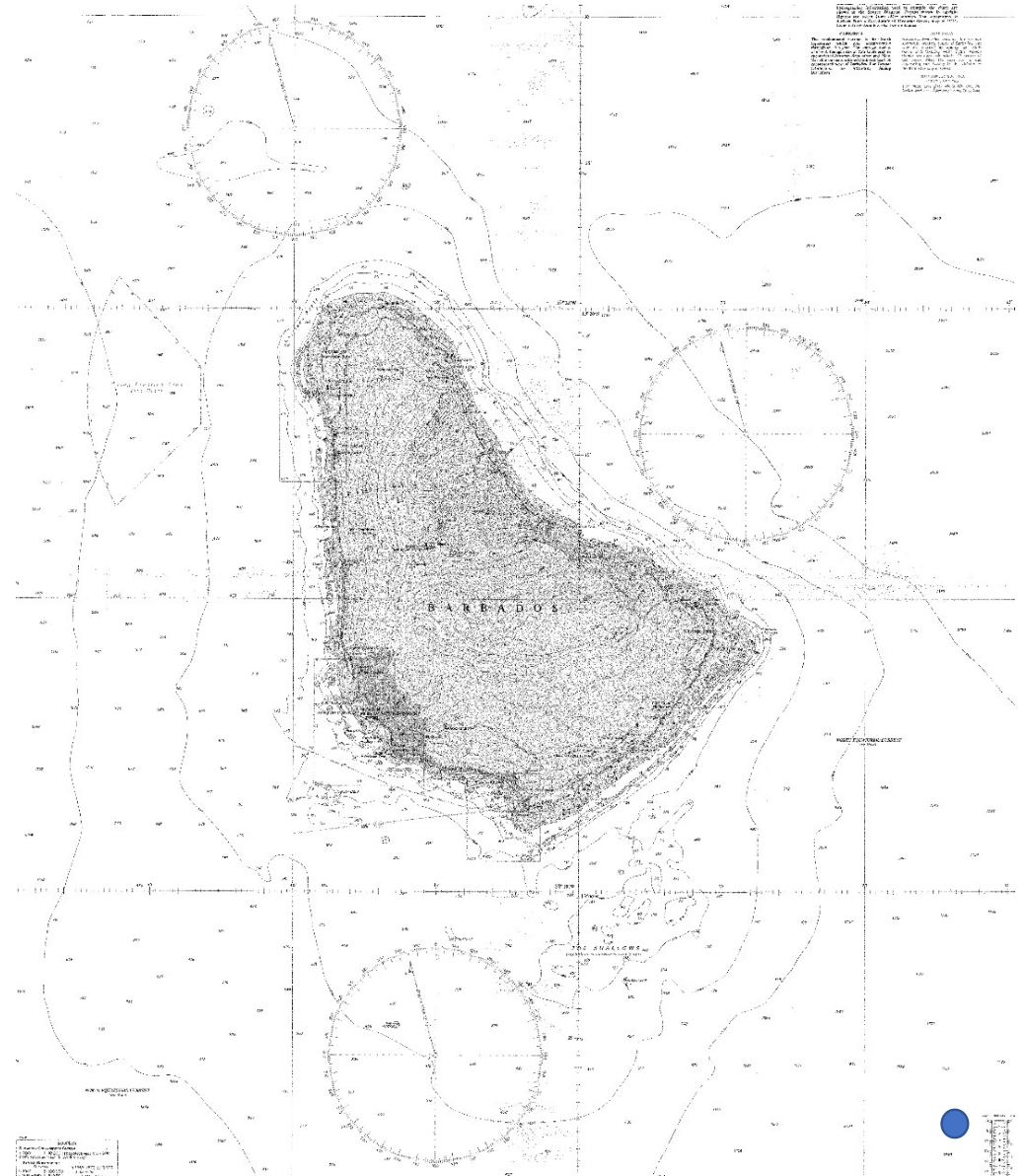
# **Interoperability in the Logistics Chain**



# The Port Community System

is a unique concept has placed  
Barbados on World Map

2022



# 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



# Maritime Single Window





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

Facilitation of International Maritime Traffic Bill, 2021

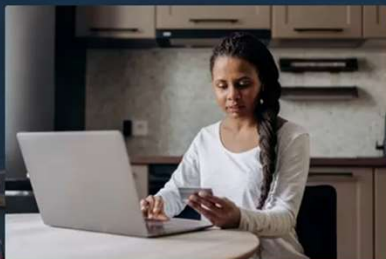
**LET US  
SHOW  
YOU ...**







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

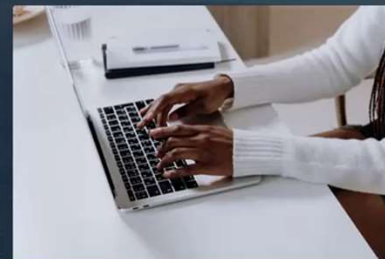


### Maritime Single Window

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 Development



**Mr. David Jean-Marie**

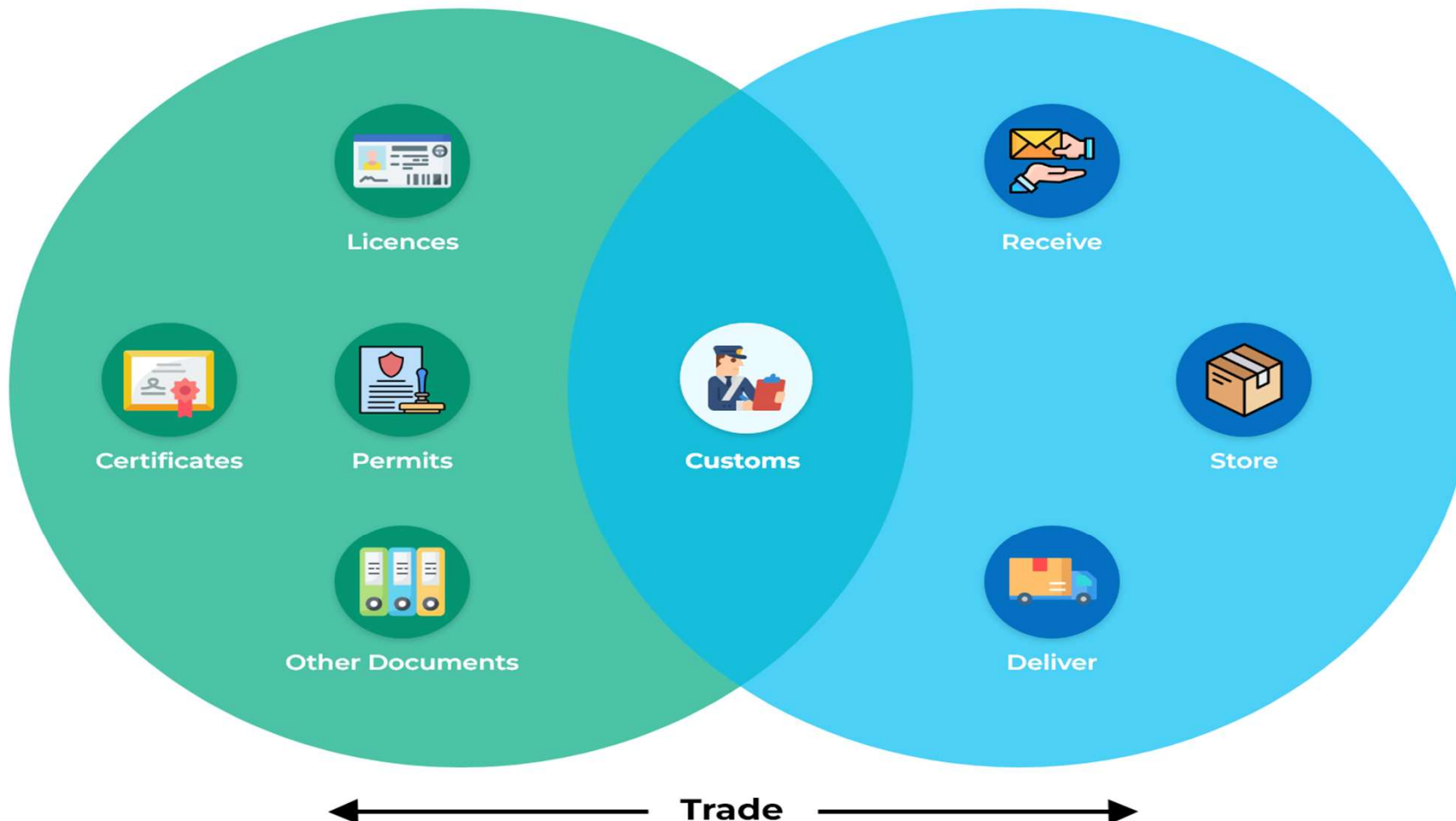
**CEO - Barbados Port Inc**

Standing Finance Committee - Appropriation Bill, 2023 - Min. Tourism and International Transport - \$26,513,151

# Future Environment

Government Ministries and Agencies

Port Community

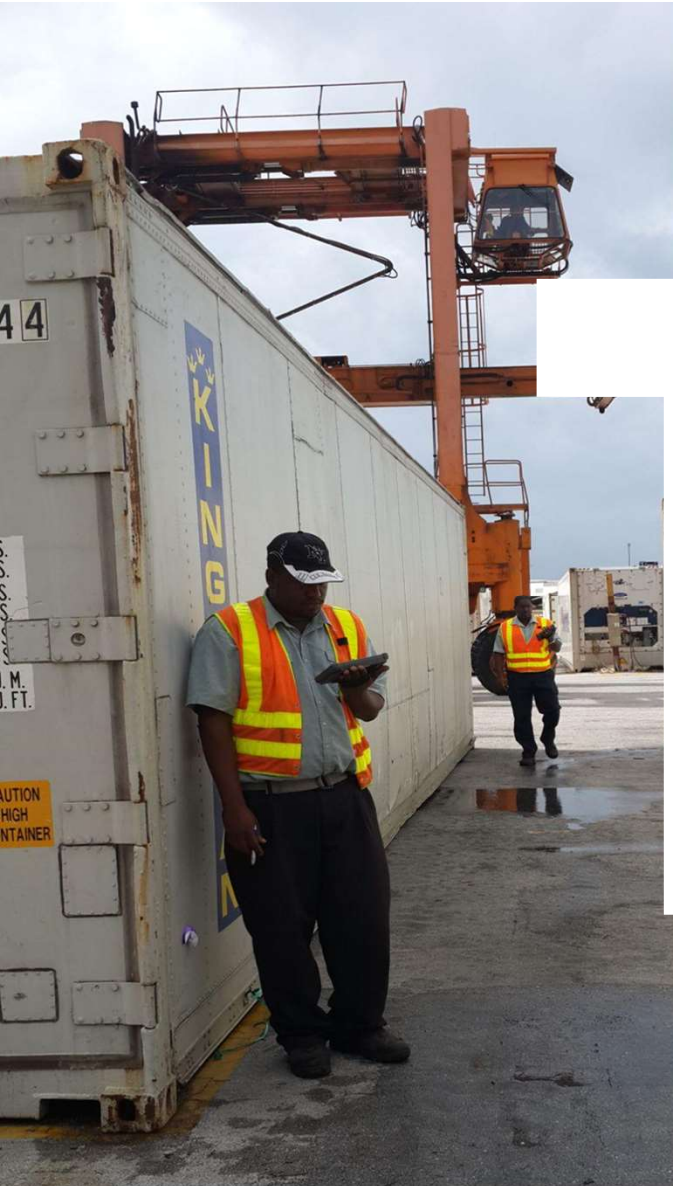






The key aspects are grounded in  
**Five Pillars**

which can shape the successes and challenges faced when fostering interoperability between agencies.



# Single Windows

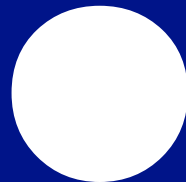
Port Community System  
Maritime Single Window  
Trade Single Window



# 2

## Legislation

Data Protection Act  
Electronic Transaction Act  
Customs Act  
Port Act







# 3

## Paradigm Shift

Change Management  
Inter-agency Collaboration  
Responsible Data Sharing





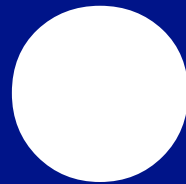
# Big Data & Advanced Analytics

Blockchain

Internet of Things

Artificial Intelligence

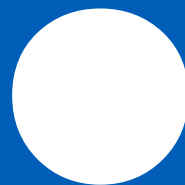
Cloud Computing





# Cybersecurity by Design

Awareness & Training  
Industry Standards  
Reporting





# The Next Step

BUSINESS  
**NOT** AS USUAL





# Thank You!

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