

Advancing Economic Resilience for Caribbean Developing States
Innovating the 'Port Community System'



DISCLAIMER





**BARBADOS
PORT INC.**





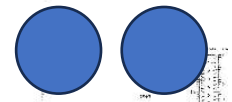
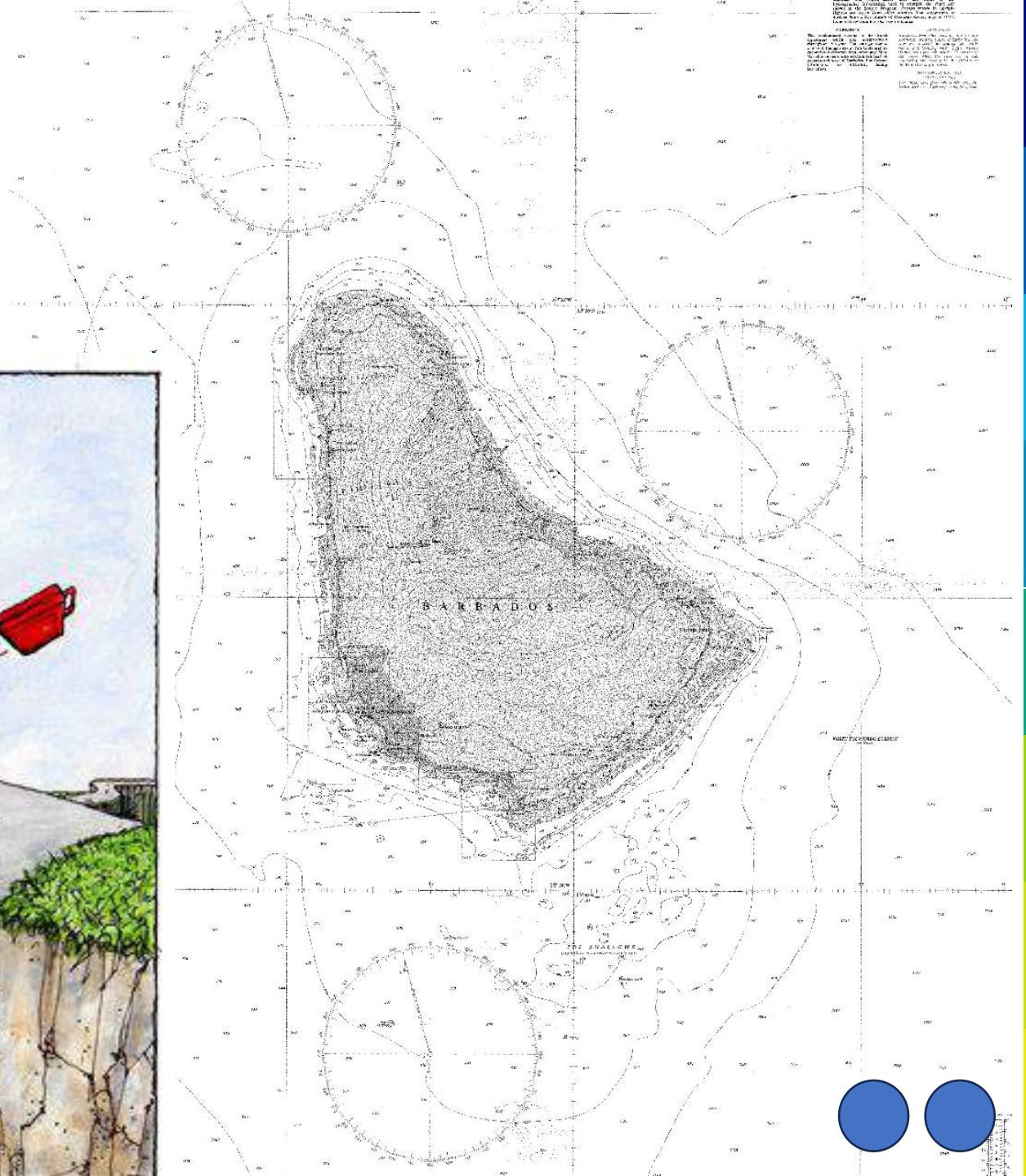
Home of



Food & rum



How does the Port support Barbados Economic Drivers?



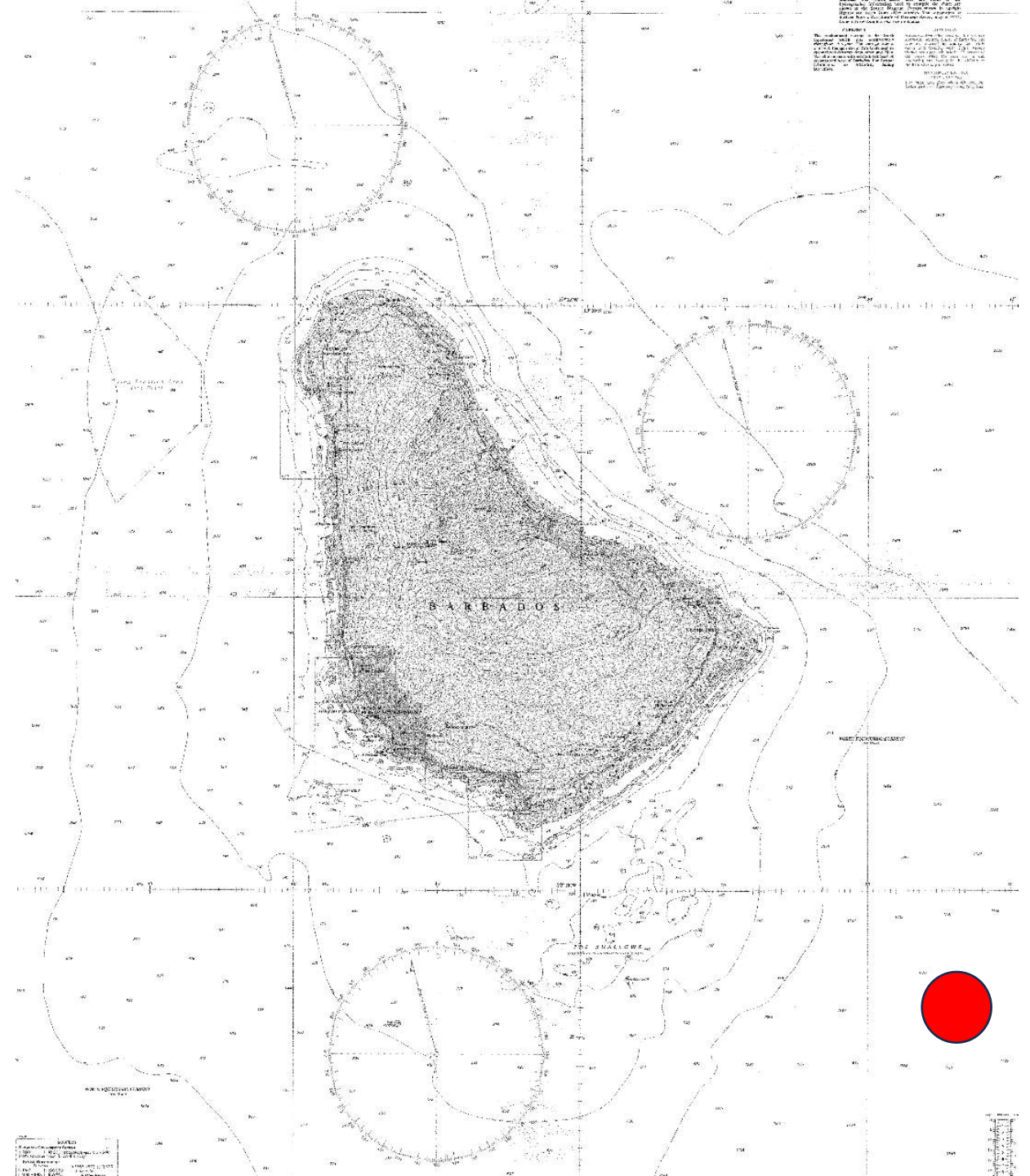
- **Small, multipurpose port handling 90% of imports.**
- **Approx 1,100 vessel calls yearly ,**
- **Over 1.1 million tonnes annually, 800K cruise pax**



PCS PROJECT OVERVIEW

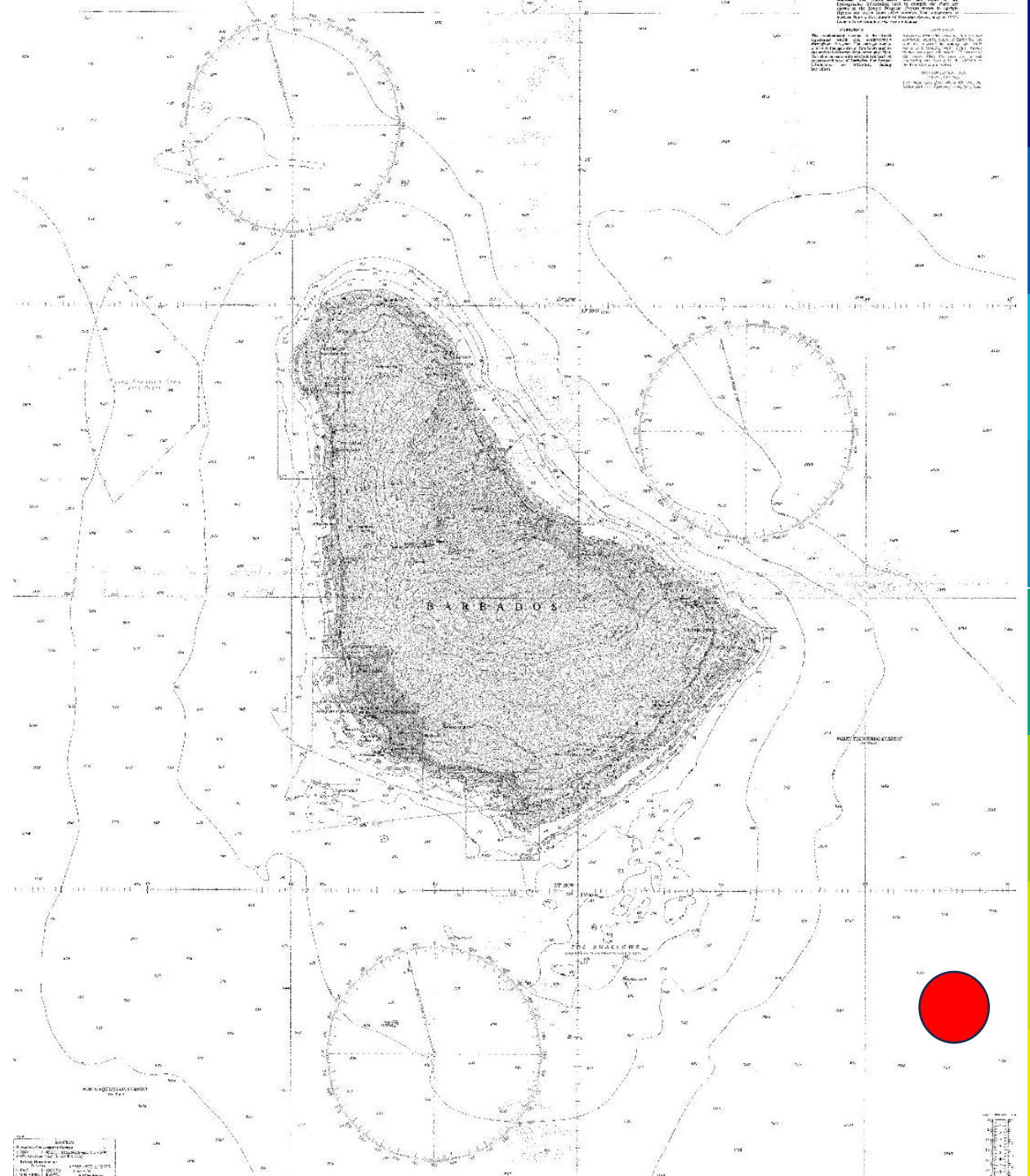
Our pathway towards development include:

- Port Efficiency Sub-committee
- Developmental Agencies (CDB, OAS, Commonwealth, IPCSA)
- PCS Steering Committee
- International Study Tour in Europe and Caribbean



The Barbados Port Community System

is a unique concept that has placed Barbados on the World Map



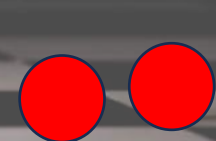
The Barbados PCS

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



Interoperability across logistics chain

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





UNCTAD Prosperidad para todos

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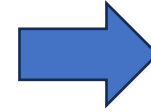
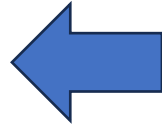
Barbados to host first global supply chain forum in May 2024

Digitalization



Food security
Transport
Climate change





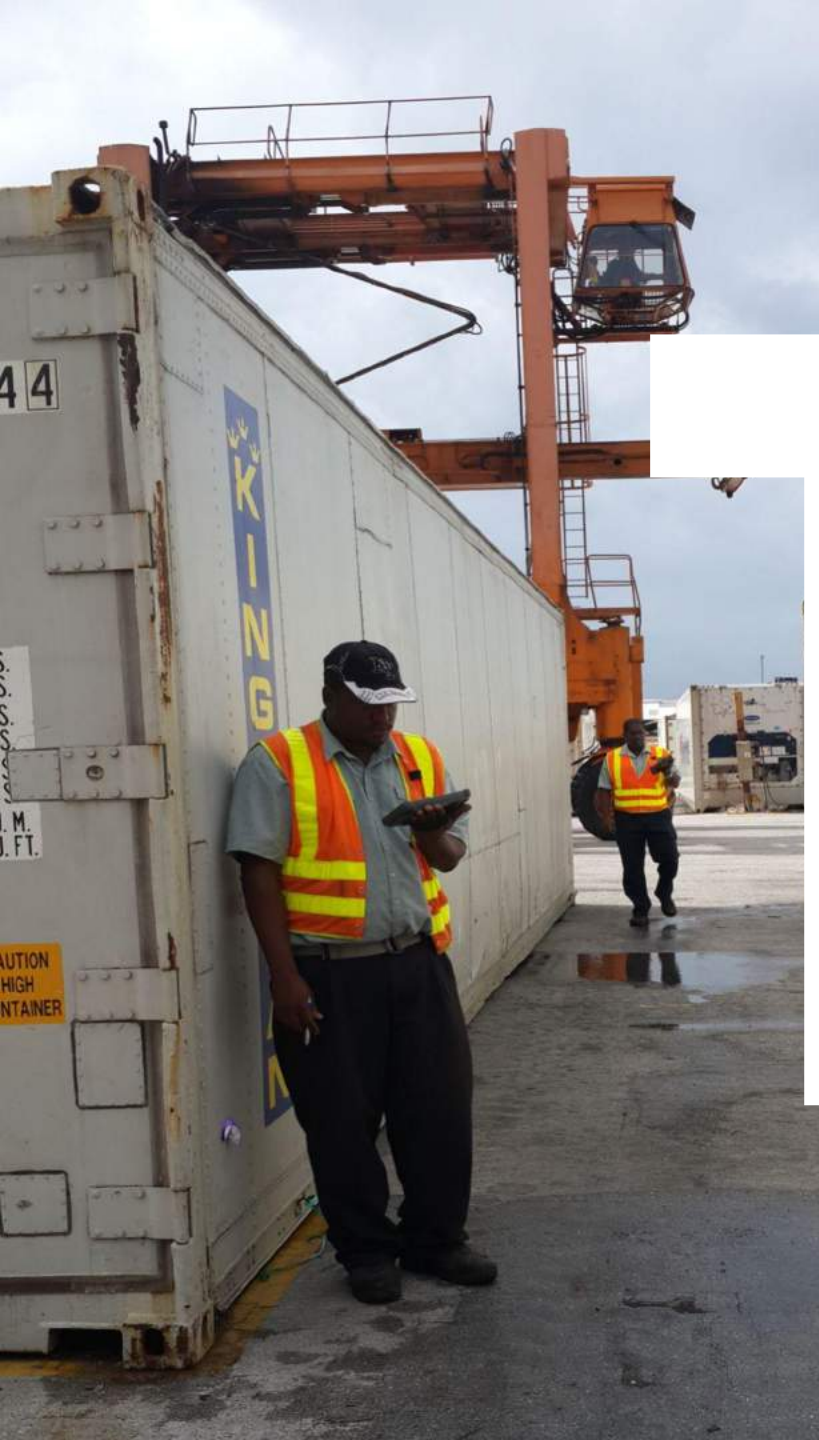
Our Experience:

Change management to a nationally deployed digital supply chain platform is grounded in

Five Pillars

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



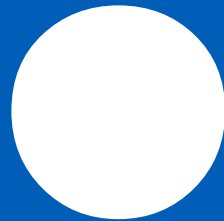


Single Windows

Port Community System

Maritime Single Window

Trade Single Window





2

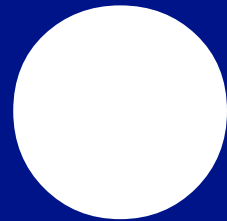
Legislation

Data Protection Act

Electronic Transaction Act

Customs Act

Port Act

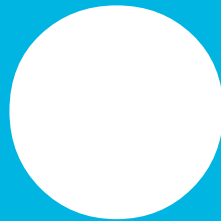




3

Paradigm Shift

Change Management
Inter-agency Collaboration
Responsible Data Sharing





4+

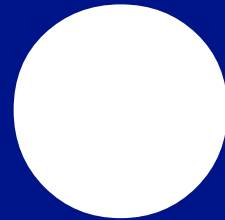
Big Data & Advanced Analytics

Blockchain

Internet of Things

Artificial Intelligence

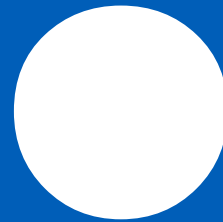
Cloud Computing



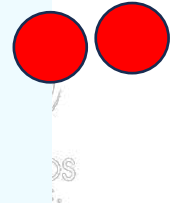
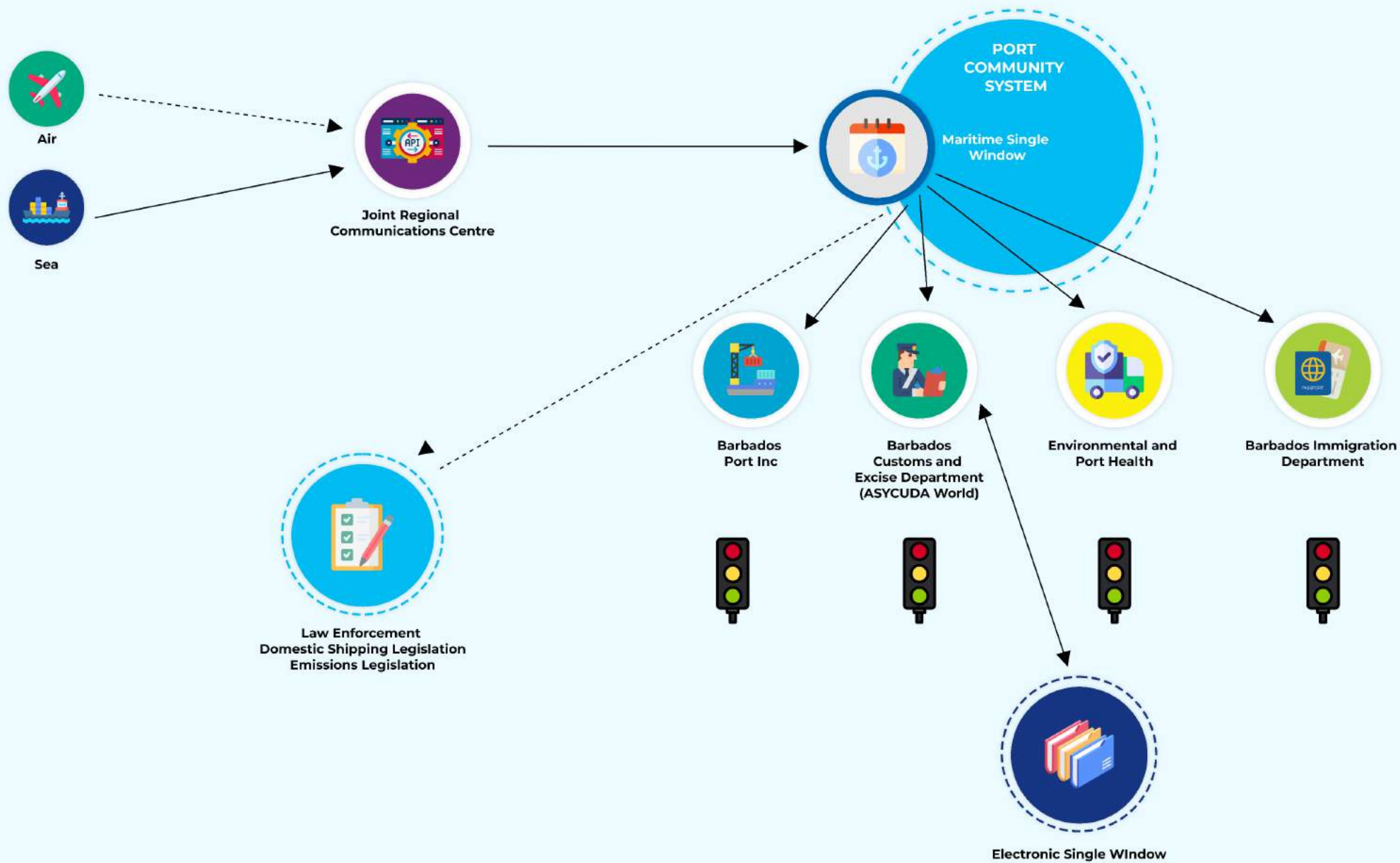


Cybersecurity by Design

Awareness & Training
Industry Standards
Reporting



Proposed Information Flow



Organization of largest stakeholder base (alignment of multiple mandates)



STAKEHOLDERS





Board of Directors - Strategy Advisory Council - Services Operational Team – Devl & cybersec

PCS governance framework be composed of three levels:



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



U.K.



U.S.A



Hong Kong



Malaysia

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







Challenges

- Change Management
- Labour
- Cybersecurity
- Legislation

Benefits

- Reduced Costs
- Shorter Turnaround Times
- Collaboration & Information Sharing
- Environmental





SHOW &



TELL



www.pcs.barbadosport.com



Welcome to the Barbados Port Community System

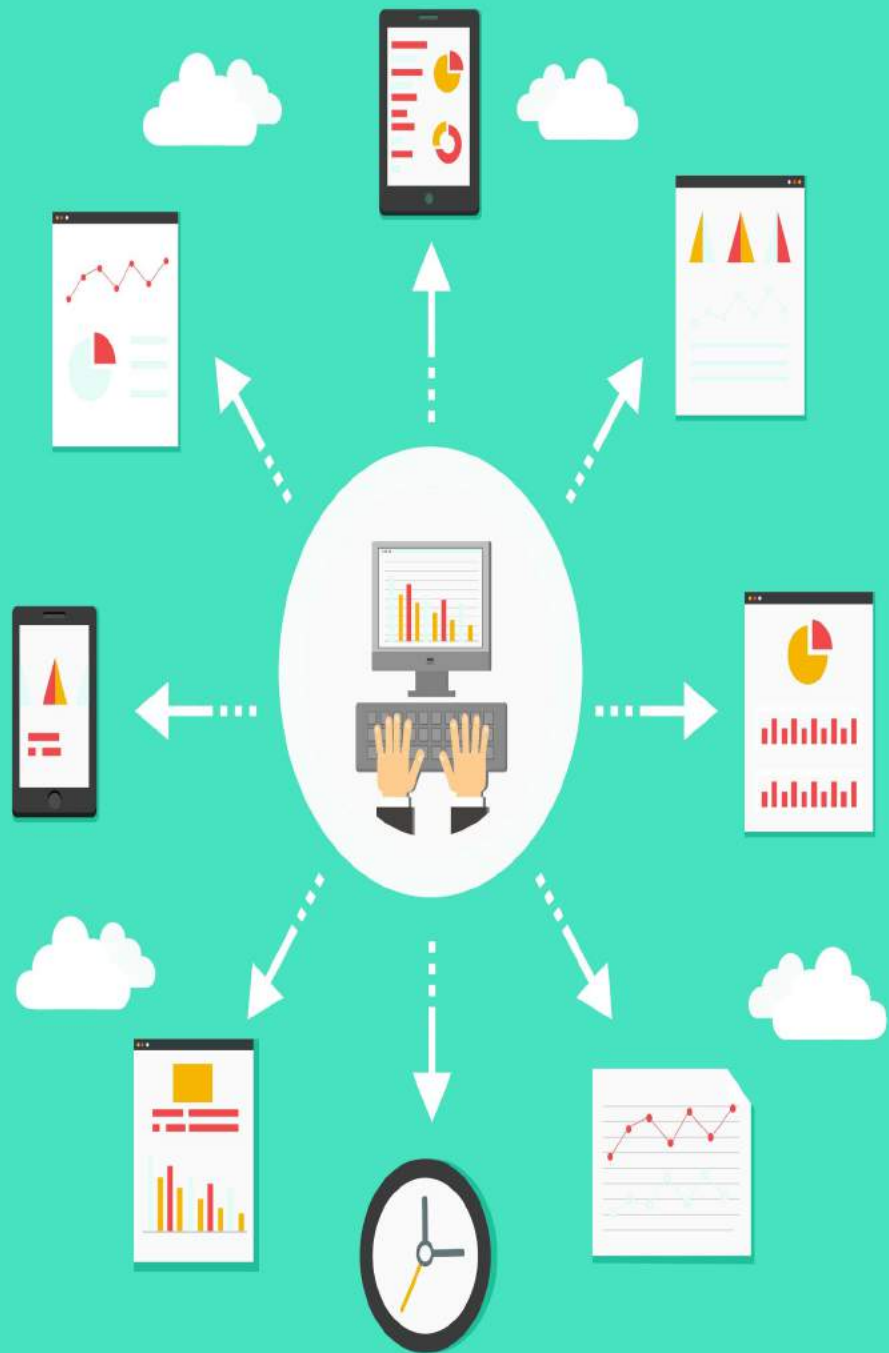
The Barbados Port Community System (PCS) offers a single smart information gateway through which all agents in the logistics chain can work together to move cargo more efficiently. It brings standardisation and harmonization to agency processes, procedures and documentation connecting you through a smoother, more streamlined, real-time experience while reducing cargo clearance and trade related transactions time and costs.

Please select a service ▾

Our Services

With multiple services now merged into a single platform, it has become so much easier to navigate trade and logistics flows. Discover the full suite of services accessible anytime, anywhere.





What is a Maritime Single Window (MSW)?

- Single point of submission
- Centralized hub
- Eliminates duplicity
- Specific to maritime traffic



Why did we build the MSW?

- Need to streamline
- Eliminate paper
- Reduce vessel turnaround
- Address IMO mandates



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



BPI's MSW Factsheet

- Fit for Purpose Digital Solution
- Integrates with Lloyd's List Intelligence
- Leverages Blockchain Technology
- Analytics
- Dashboards and KPI Monitoring
- Real-time Communication
- Sentiment Analysis Facility
- Automatic Identification System (AIS)
- Facilitate Just In Time (JIT) Arrivals



Data is the new Oil



RAW
SURVEY
DATA

LOG
FILES

CUSTOMER
INFO

CONTRACTS

PREVIOUS
EMPLOYEE
DATA

NOTES

EMAILS

BILLS OF
LADING



BARBADOS
PORT INC.



Analytics is not Statistics

Hidden Patterns

Important
Insights

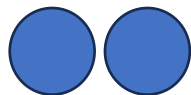
Unknown
Correlations



A few benefits of

Analytics

- Simulations – Berth Optimization
- Time Series Analysis – Resource Utilization
- Sentiment Analysis – Customer Sentiment Portal
- Artificial Intelligence – Computer Vision and OCR
- Visualizations – MSW Dashboard



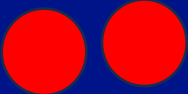
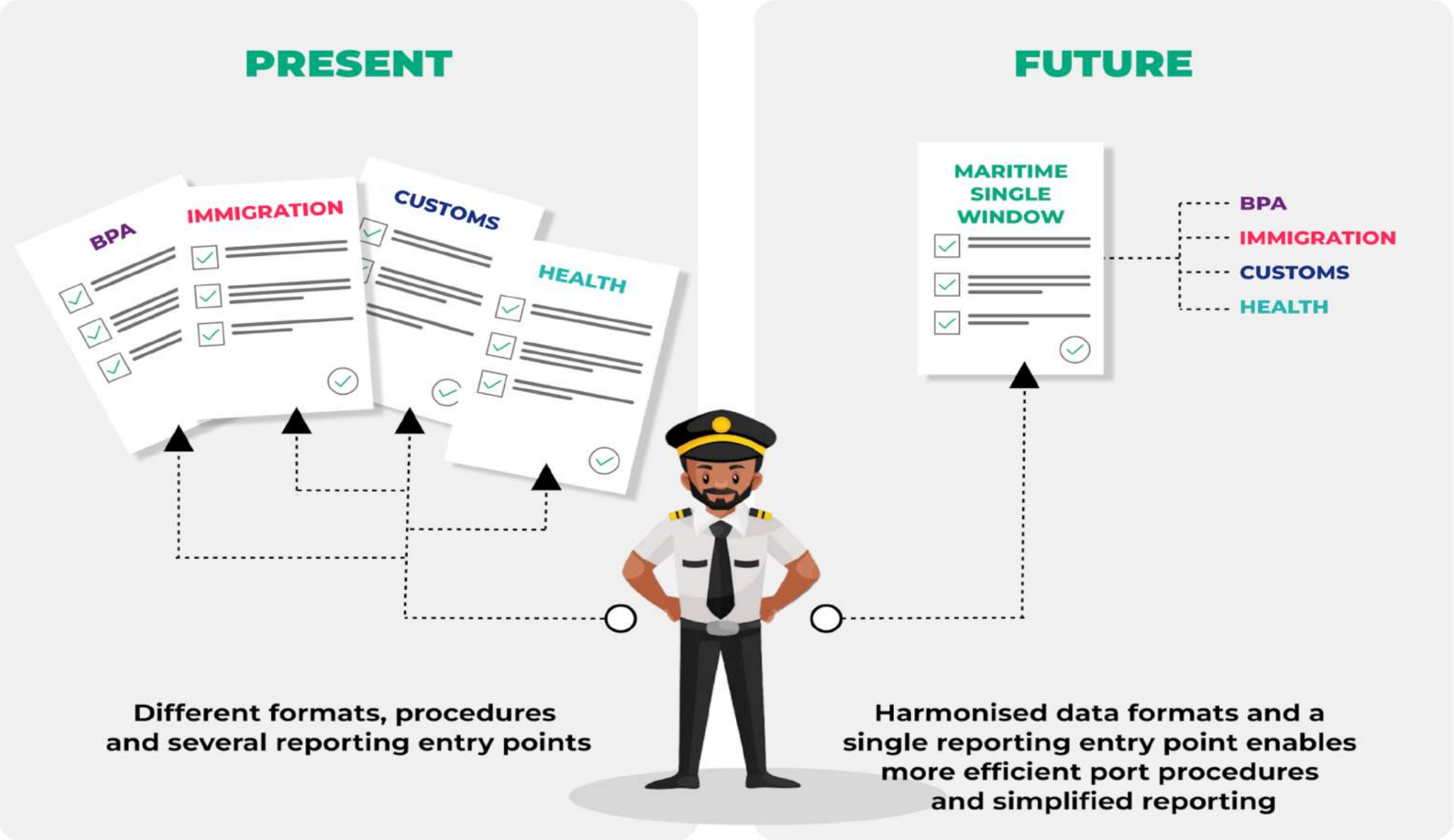
Limitless potential for

Digital Transformation

- Improves operational efficiency & competitive advantage
- Creation of new products & services
- Increases the speed of response to changes in demand
- Drives a culture of innovation
- Empowers decision-making



Transformation of Clearance Process



The Next Step

BUSINESS
NOT AS USUAL



BCEN raises hand to monitor port charge cuts

Published on
January 9, 2024



Article by
Emmanuel Joseph

A consumer advocacy body has declared it wants to work with the Bridgetown Port to act as a watchdog on price changes, after Prime Minister Mia Mottley said that recent reductions in the cost of container-related port charges ought to be passed onto consumers.



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**THANK YOU FOR
YOUR ATTENTION**

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