



Next Generation Port Community Systems



Speaker Introduction



Amar More
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- Domain Co-ordinator for Cross Border Management at United Nations (UN/CEFACT), Geneva
- On the panel of experts for trade facilitation at UN/CEFACT (United Nations Centre for Trade Facilitation and Electronic Business), Geneva
- Chaired Asia Pacific region on the executive committee on the International Port Community Systems Association (IPCSA), UK
- Board member of The International Air Cargo Association (TIACA), Miami
- Member of National Council for Logistics with Chartered Institute of Logistics and Transport, India
- Empaneled with several governments globally on conceptualizing trade facilitation initiatives to usher in "Ease of Doing Business" using digital technology.



Kale Logistics Solutions

Brief Overview



Kale Logistics Solutions – Bird's-eye view



Years of existence



5500+ Customers across 40+ countries



Presence at the United Nations, TIACA, IPCSA, IAPH FIATA, ACI, AAPA etc.



2 Awards from United Nations and Case Study in Kellogg's Business School's publication



Offices in 10 regions: Americas, Europe, ME, Africa, Asia with 400+ employees



Currently working with 150+ Global Airport/Ports



Kale's Global Footprint



Customers in 40+ countries

Team Presence in 14 locations

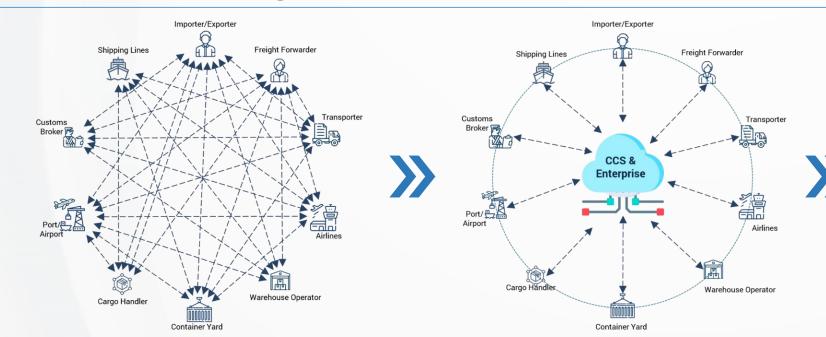
400+ Employees

Norway UK Netherlands Amsterdam 📗 🎏 Hungary Germany Spain Turkey Serbia Portugal Kuwait **Osaka Bahrain** Bangladesh Jordan Traq Trans Dubai ---India Saudi Arabia Thailand **Oman Ivory Coast** Thane Nigeria Mumbai Cambodia Kuala Lumpur Jamnagar Liberia Uganda Kolhapur 🥳 Kenya Malaysia Rajkot Nairobi Gabon Brazzaville Indonesia Tanzania Angola Zambia Mauritius Mozambique Lesotho South Africa

Japan



What are We Aiming to Achieve?







Current scenario

Global Airports & Ports are characterized by

- Congestion Inefficient information exchange – manual documentation
- Higher dwell times for cargo
- Opaqueness in operations

Global Impact	Annual Savings		
	\$50 Bn	10 Bn	625,000
	Air/Ocean movements	Copies of paper	Trees



Transformation through CCS

Transforming cargo handling at Airports & Ports through Cargo community Systems (CCS)

- Elimination of congestion through scheduling tools
- Streamlined documentation elimination of huge number of paper copies
- Faster movement of cargo higher throughput
- Visibility in supply chain real time information
- Creation of large logistics marketplaces at Ports/Airports



Digital Corridors

Creating such Airport/Port CCS globally and linking them through digital corridors

- Global visibility
- Global logistics marketplaces
- Transforming global regulatory and commercial processes through data reusability



The Issues and Improvement Opportunities



Key Issues concerning the Maritime Industry

Operational Inefficiency:

Trucks arrive in bunches, paperwork at ports, no advance visibility.

Sustainability Challenges:

Each shipment needs 200 paper copies, causing delays and duplicate data.

Opaqueness in operations:

Lack of consolidated, real-time shipment updates increases inventory and storage costs.

Security loopholes:

No advance information on trucks, drivers, or cargo for handlers.

Unavailability of reliable Data:

Lack of real-time, reliable cargo data hampers strategic decision-making.

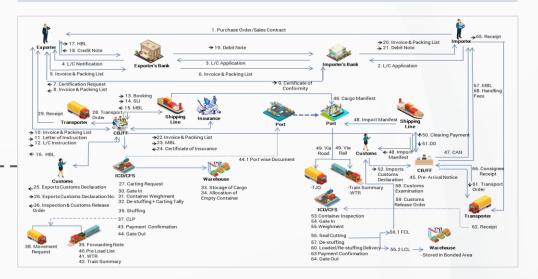
Unattractiveness to cargo customers:

Cargo diverts to other ports due to inefficiencies and visibility issues.

Compliance to global best practices and standards:

IMO FAL UN CEFACT Recommendation 33 best practices are not followed.

The current state of the Maritime industry 65+ distinct disparate processes, 200+copies of paper



7

Maritime Ecosystem - Land and Portside View





The Solution – the port Cargo Community System



The Port Community System (PCS) significantly enhances the Cargo throughput

What is a PCS?

A PCS is a neutral and open electronic platform enabling intelligent and secure exchange of information between public and private stakeholders in order to improve the competitive position of the sea ports' community. It optimises, manages and automates port and logistics processes through a single submission of data and connecting transport and logistics chains.

PCS – addressing the concerns and improvement areas in Maritime cargo – Key Highlights

- 1. A web portal for the maritime cargo stakeholders at that enables
- 2. Paperwork to be completed online before coming to the port
- 3. Booking an appointment for trucks to come to the port
- 4. Exchanging data on the system as opposed to on paper eliminating several paper copies
- 5. Source of visibility for the shipment
- 6. Several other value-added digital services to the community
- 7. Potential e-marketplace for further optimization of maritime cargo
- 8. No duplication of work for stakeholders and customers portal to have backend connectivity with stakeholder systems
- 9. Next-gen Mobile app and AI engine
- 10. Creating infrastructure for multi-modal (Sea-Air, Sea-Road, Sea-Rail) movements



Port Community Systems aligning with the National Maritime Strategy

The DoT 2023 National Strategy includes 25 actions under the following five priority areas:



Strengthen Unity of Effort in the MTS



Enhance the Safety and Security of the MTS



Advance the Health, Welfare, Diversity, and Growth of the MTS Workforce



Strengthen Unity of Effort in the MTS

Action Item 21: Support port operations efforts toward climate change mitigation and adaptation.



Support Optimal Performance of the MTS Supply Chain

Action Item 23: Share interagency MTS expertise in support of the reduction of system congestion and supply chain bottlenecks and provide opportunities to educate and inform on new and emerging issues in a way that ensures safety, security, and sustainability of MTS.

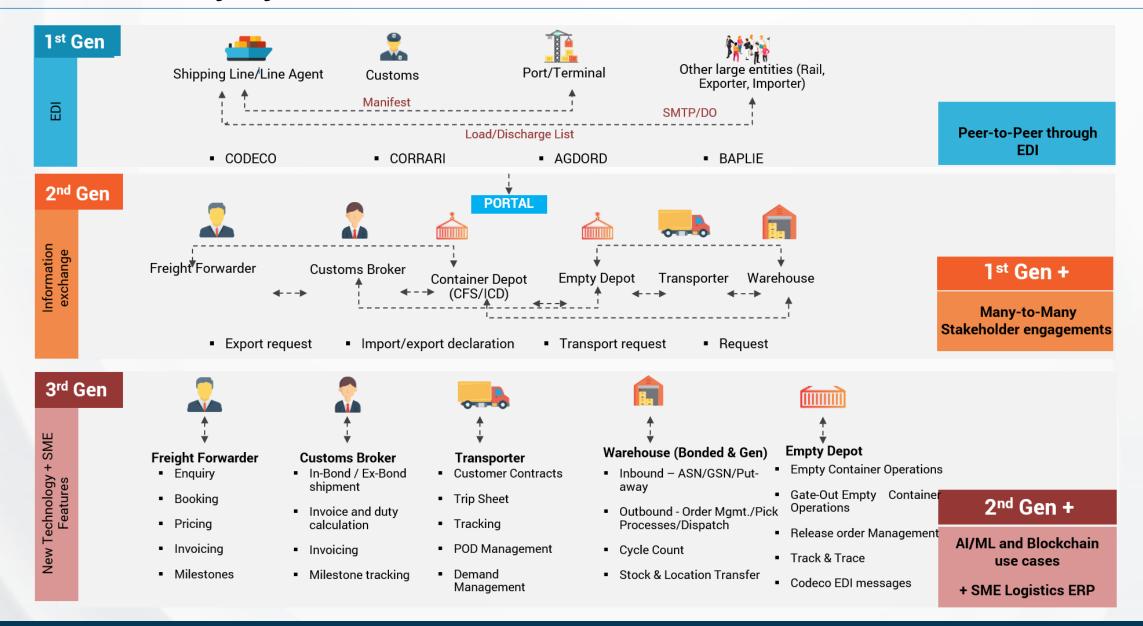
Action Item 24: Increase data access, availability of data services, linkages and integration of authoritative data from agencies and organizations with mission areas related to the maritime industry and the broader intermodal freight flow network.

Action Item 25: Support collaborative, innovative new and emerging technologies and processes, including advancements in automation, information systems (IT) and operational control systems (OT) for a more efficient MTS.

Action Item 26: Continue analytical assessments and understanding of MTS resilience and recovery capabilities in a changing climate, and encourage incorporation into waterway and port design principles to support an efficient and effective maritime transportation supply chain.

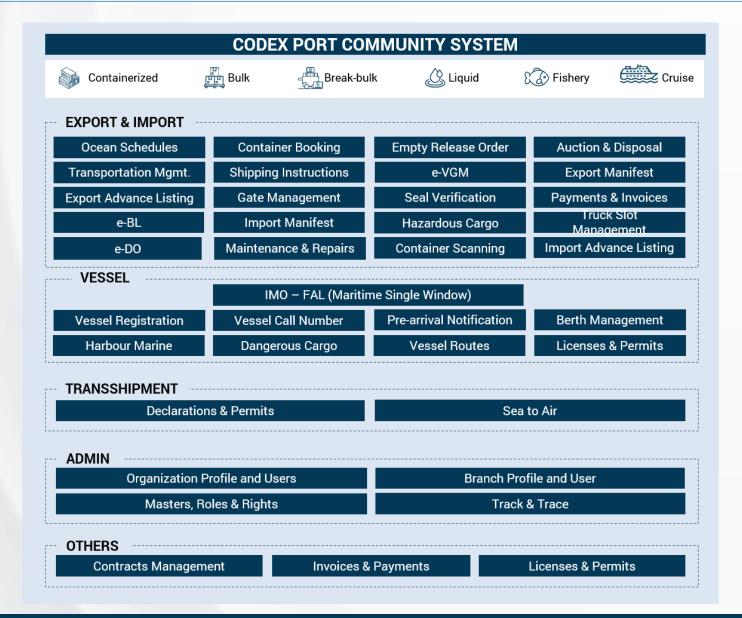


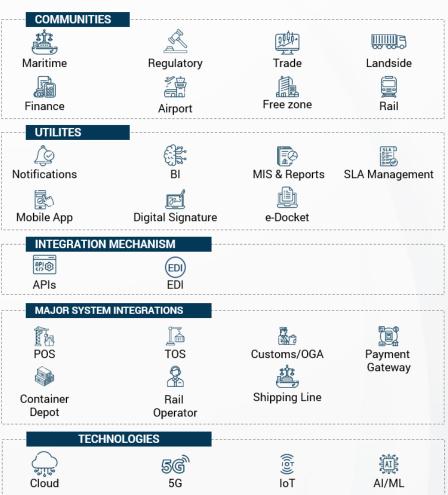
Port Community System - Evolution





Functional Overview





Overall 100+ use cases available for various processes



Stakeholder-wise Features



Port Authority

- Vessel and Voyage Registration
- Allotment of VCN
- Berth Management
- Permits & Licences Management
- Gate Management



Port Health / Port Marine

- Harbour marine operations
- Vessel Inspection
- Vessel Releases & HOLD
- Free Pratique Issuance
- Health Declaration Certificate



Terminal

- Slot Configuration
- Imports / Exports Advance listing
- Imports Delivery Order
- Gate Management
- Track & Trace (Vsl & Shipment)



Shipping Line / Agent / NVOCC

- Vessel and Voyage Management
- Harbour marine operations
- e-Manifest Filing
- Imports Delivery Order
- Shipping Instructions & BOL Management



Freight Forwarder/Customs Broker

- Ocean schedules
- Freight Rates
- Empty Container Booking
- e-Delivery Order and Revalidate e-DO
- IMO compliance e-VGM



Transporter

- Online Transportation Request
- Vehicle Assignment
- Cargo / Container Management
- Slot management
- Track & Trace



Stakeholder-wise Features



Customs

- Seal Verification
- Let Export Order / Allowed for Shipment
- Manifest Management
- Auction and Uncleared Cargo
- Vessel Clearance



Immigration Department

- Documents Management
- Passenger-Crew Management
- Sign on- Sign off Management
- Shore pass Management
- Vessel Track & Trace



Chamber of Commerce

- Document Management
- Online Payment Authentication
- Issuance of Certificate of Origin
- PDA Account management
- Digital Signature Authentication



Empty Depot

- Container Management
- Gate-In / Out Operations
- Release order Management
- Track & Trace with real-time status
- Generation of Codeco files for Various Container movements



Container Depot (CFS/ICD)

- Release Order Management for EXIM
- Gate Pass Management
- Drivers & Trailers Management
- Generation of Codeco files
- Notices, Pre-Bidding, Cargo Valuation, Auction & Cargo Delivery



Importer / Exporter

- RFQ Management
- Freight Rate Request
- Imports Delivery Order
- Container Booking
- Transportation Management
- Track-n-Trace of shipment



PCS – Benefits to port and MTO



Economic Benefits

Digital services rollout can generate revenue without significant costs, impacting \$100 per TEU.



Compliance Benefits

Adhere to best practices from IMO Maritime Single Window, UN Reco. 33, and US CBP Green Trade Initiative.



Sustainability Benefits

Reduce 4,000 grams of CO2 emissions and save 3 trees per thousand tons.



Planning Benefits

Reliable, near real-time cargo data aids infrastructure planning and understanding partners.



Security Benefits

Ensure advance information on truck drivers and cargo is available for compliance.



Marketing benefits

Create an image of a tech-savvy port & provide a better customer satisfaction



Supply Chain Resiliency benefits

Enable remote cargo operations via cloud documentation, reducing paper and managing disruptions.

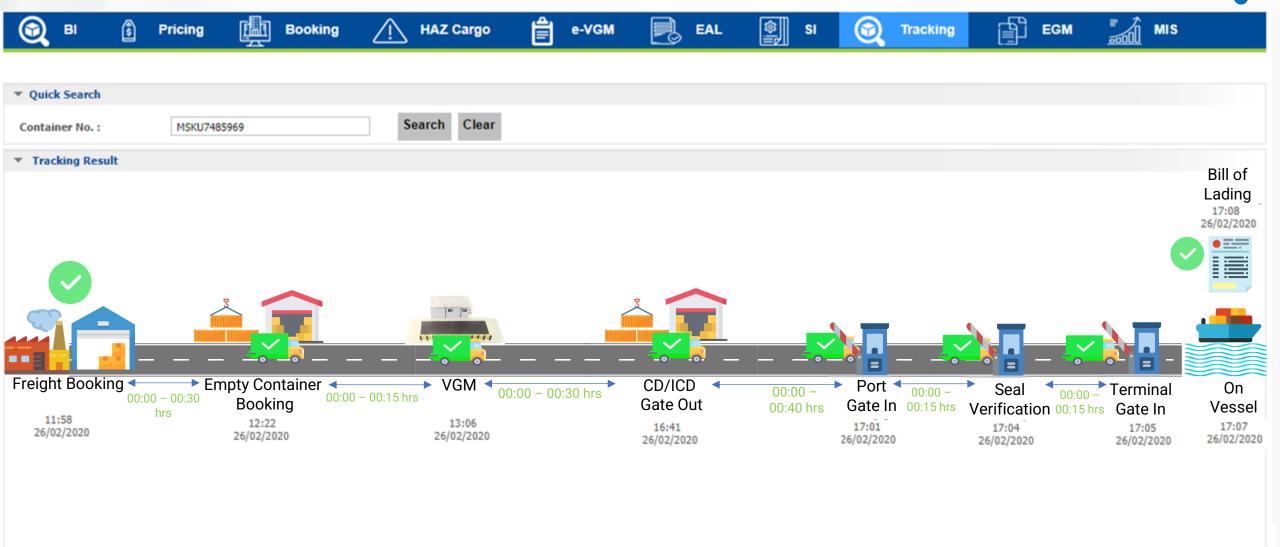


Demand Generation Benefits

Attract more cargo by connecting with the airport and partner ports.

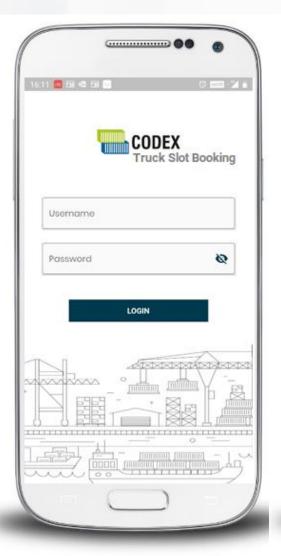


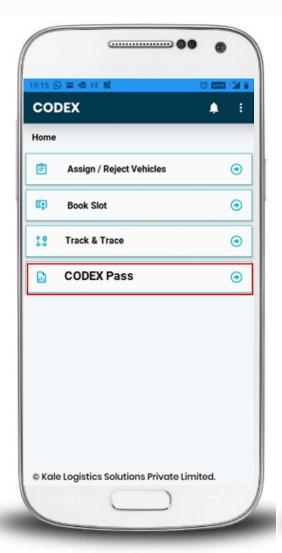
Sample Screens - Tracker



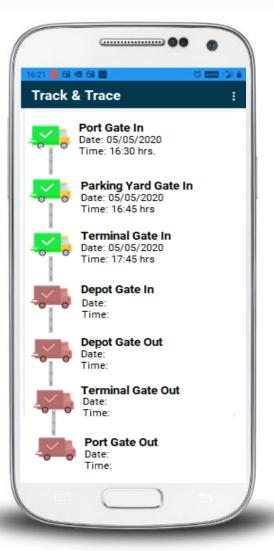


Mobile App: Trucker Slot Booking



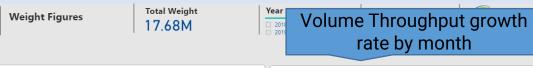


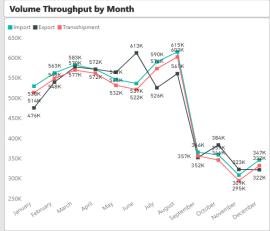


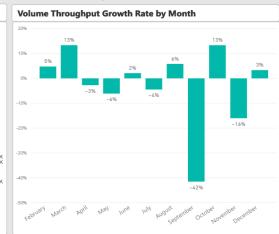




Dashboards & Forecast



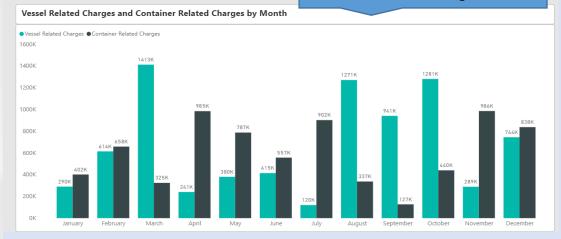


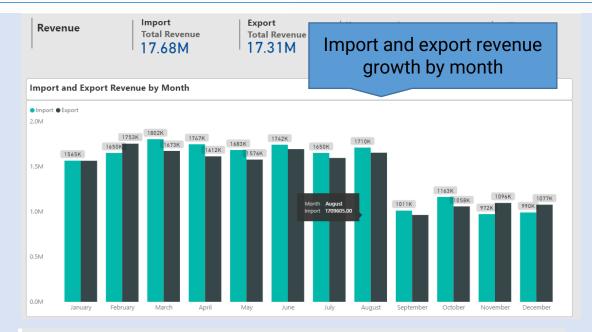


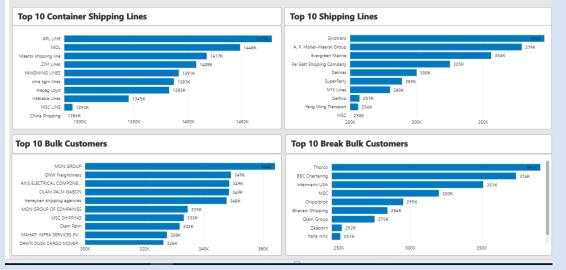
Invoice Details

Total Vessel Related Charges 40 Container Related Charges

Vessel and container related charges









Digitizing 34 ports in Malaysia – Large Maritime Economy

Digitizing, providing seamless information and paperless vessel processing in Malaysia

13 Mn

TEU's + (Container Volume)

10,000+

Vessel Operators

Among Top

15

Container Ports

BUSINESS CHALLENGE

- Manual vessel handling process
- Disparate systems with no information exchange
- Non-standardized processes
- Paper-based regulatory processes
- Delays in clearance process

National level Project in (Port Klang)

Malaysia

KALE'S SOLUTION

- Digitized vessel, crew, passenger& cargo processes
- Seamless information exchange between stakeholders securely
- Standardized national level process and measures implemented
- Quick and paper-free vessel clearance process

50+

berths across 3
Terminal / Port Operators

Connected to

300 +

Ports

500+

weekly vessel services

Vessels & Cargo – Container, Liquid, RoRo, Bulk, Break-bulk, General Cargo, Cruise

Integrated with – 7+ systems including customs, etc.

250+ organizations



Improving Container throughput in Tuticorin Port, Southern India

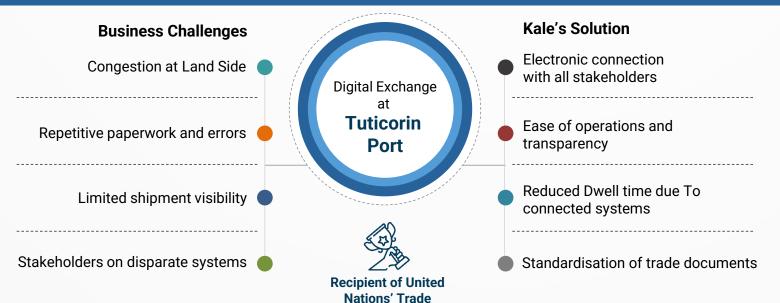
Accelerating throughput at Southeast Asia's key Ocean Port : VOC Tuticorin Port

18 CFS/ICD

Vessel Operators

300+

Transporters



1.1**M**n

TEU/annum

400+

Agents

2500+

Exporter/Importers

Parameter



Document handled (including copies)

Average Dwell Time for Trucks

Average processing time for Tax refunds

Average time per export doc handling

Average time per import doc handling

Availability of advance data for planning

Availability of shipment status

Availability of data to stake holders

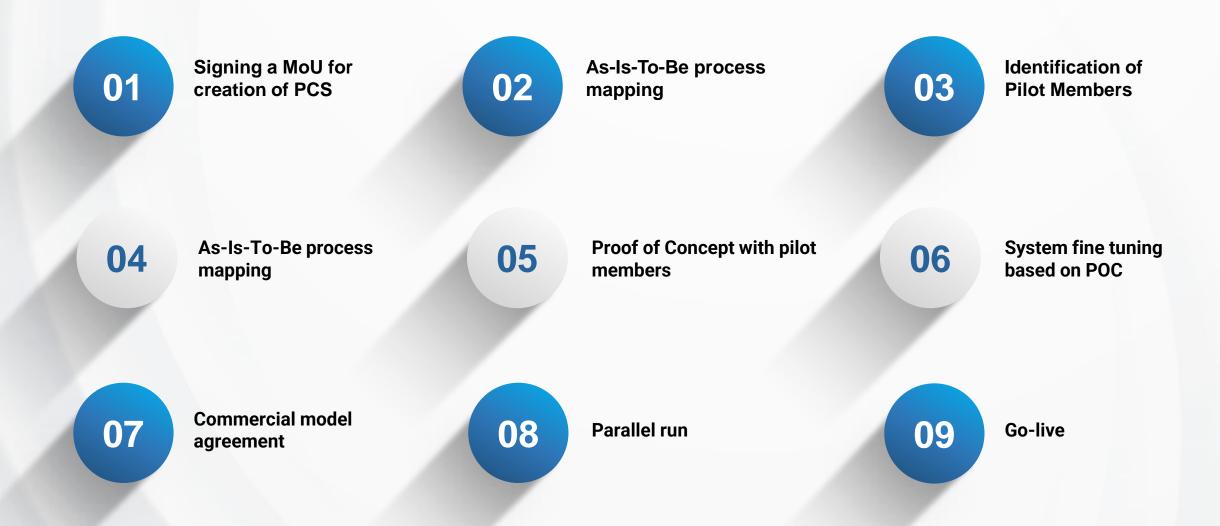
Pre	KXI
16	
6-8 hours	
90-120 days	
145 minutes	
65 minutes	
Limited	
Limited to telephone calls	
Through Mail, calls and in person	_

Facilitation Award

KK



How do ports go about creating a PCS?





Mark Condon



Mark Condon Senior Account Executive mark.condon@kalelogistics.com 843-670-4243

- Executive Director of the South Carolina World Trade Center Charleston and served on the Board of Directors WTC New York 1997-2007
- South Carolina International Trade Conference Board of Directors and former Conference Chairman in 2010
- BDM and Analyst for PIERS/Journal of Commerce and Descartes/Datamyne 2010 - 2020
- Promoting port innovations using digital technology with the global tech firm -**Kale Info Solutions**



Maureen Kam



Maureen Kam
Vice President, Sales

Maureen.kam@kalelogistics.com

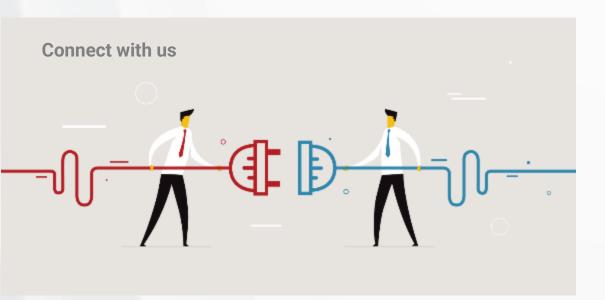
- + 20 Years of aviation experience across 4 carriers (Air Canada, Air New Zealand, Cathay Pacific, Cargojet)
- Led transformation initiatives in Canada and New Zealand across key cargo and passenger projects which included leading the country's largest new cargo terminal warehouse build; both infrastructure and digital solutioning.
- North America's 1st ever e-Commerce solution, RIVO(www.rivolution.com).
- Developed and led the global partnerships team at Air Canada Cargo to reaching over +28% annual growth.
- Increased capacity by +20% at Air New Zealand to drive increased air service;
 improved yield and grew passenger demand by over +35%



Come visit our team at

Booth P207

THANKS



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