

Empowering Trade

The Role of Single Window Systems in Creating
Sustainable, Efficient and Attractive Port Ecosystems

Rani Wehbe

Senior Vice President, EMEA, Webb Fontaine

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Welcome!



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Senior Vice President, EMEA

Webb Fontaine

About Webb Fontaine

Webb Fontaine is a world-leading technology company powered by AI transforming the future of Trade.

Trusted by governments globally, Webb Fontaine provides industry wide solutions to accelerate Trade development and modernisation.

Founding
Year

2002

Staff
dedicated
to R&D

200+

Entities
Globally

25

Nationalities

41

Continents

4

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Ports: The backbone of Global Trade

Ports are the lifelines of international trade, serving as pivotal nodes in the global supply chain.

- ✓ Cornerstone for the supply across the world
- ✓ Connect Producers to Consumers
- ✓ Drive Economic Growth



Port of Valencia

An aerial photograph of the Port of Valencia, showing a large, modern port facility with multiple piers and a large container yard. The port is situated on a peninsula, with the city of Valencia visible in the background.

Major logistics hub handling 5.6 Million TEUs in 2023



Port of Piraeus

An aerial photograph of the Port of Piraeus, showing a large, modern port facility with multiple piers and a large container yard. The port is situated on a peninsula, with the city of Piraeus visible in the background.

Major transshipment hub between Europe and Asia



Port of Barcelona

An aerial photograph of the Port of Barcelona, showing a large, modern port facility with multiple piers and a large container yard. The port is situated on a peninsula, with the city of Barcelona visible in the background.

Key entry point for Mediterranean trade

Ports: The Backbone of Global Trade

As global trade continues to expand, the efficiency and sustainability of port operations become ever more critical. A delay at any major port can ripple through the supply chain, causing disruptions and economic losses.

- Lack of proper digital infrastructure
- Lack of adequate systems and technology
- Security threats and weak QHSE can lead to adverse consequences



The explosion of Port of Beirut, August 2020

Disruption of trade flows
Infrastructure damage
Socio-economic impact
Logistical challenges
Environmental Impact

Challenges in Modern Port Operations

Despite their crucial role, ports face significant challenges that hinder their efficiency and sustainability:

Complex Regulatory Requirements

Inefficient Paper-Based Processes

Lack of transparency

Logistical Bottlenecks

The Need for Single Window Systems

“A single window is defined as a facility that allows parties involved in trade and transport to lodge standardized information and documents with a single-entry point to fulfill all import, export, and transit related-related regulatory requirements.”

THE SINGLE WINDOW CONCEPT –
WCO PERSPECTIVE

Evolution of Port Community Systems

- **1980s:** PCS were primarily designed to improve communication and information exchange among port stakeholders.
 - **1990s:** Focus shifted towards enhancing efficiency and streamlining port operations, leading to the emergence of second-generation PCS.
 - **2000s:** With the advancement of technology, third generation PCS have evolved into sophisticated digital and cloud-based platforms that enable real-time information sharing, integrated logistics, and supply chain visibility, among other capabilities. This technological evolution was driven by the pressing need for the industry to use data to further reduce costs and time of international trade channeled via ports.
 - **Next-Gen:** Using the power of AI and computing power, continuous evolution and remarkable innovative advancements are underway for PCS.
- **PCS** will continue to transform the landscape of port and maritime logistics. This evolution will be marked by the further integration of cutting-edge technologies such as artificial intelligence, blockchain, and the Internet of Things (IoT).

Single Window Systems

For Maritime and Multimodal Trade

Streamlined Processes

Improved Compliance

Enhanced Transparency

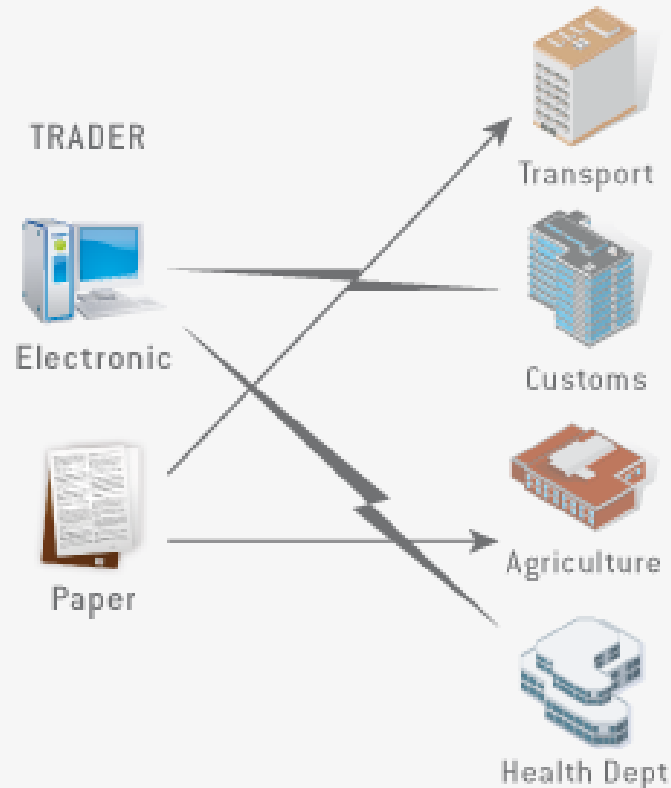
Cost Savings

Facilitated Multimodal
Coordination

Enhanced Data Accuracy
and Security

FROM

Current situation for Government and Traders



TO

A "Single Window" environment



Benefits of Single Window Systems

Enhanced Coordination

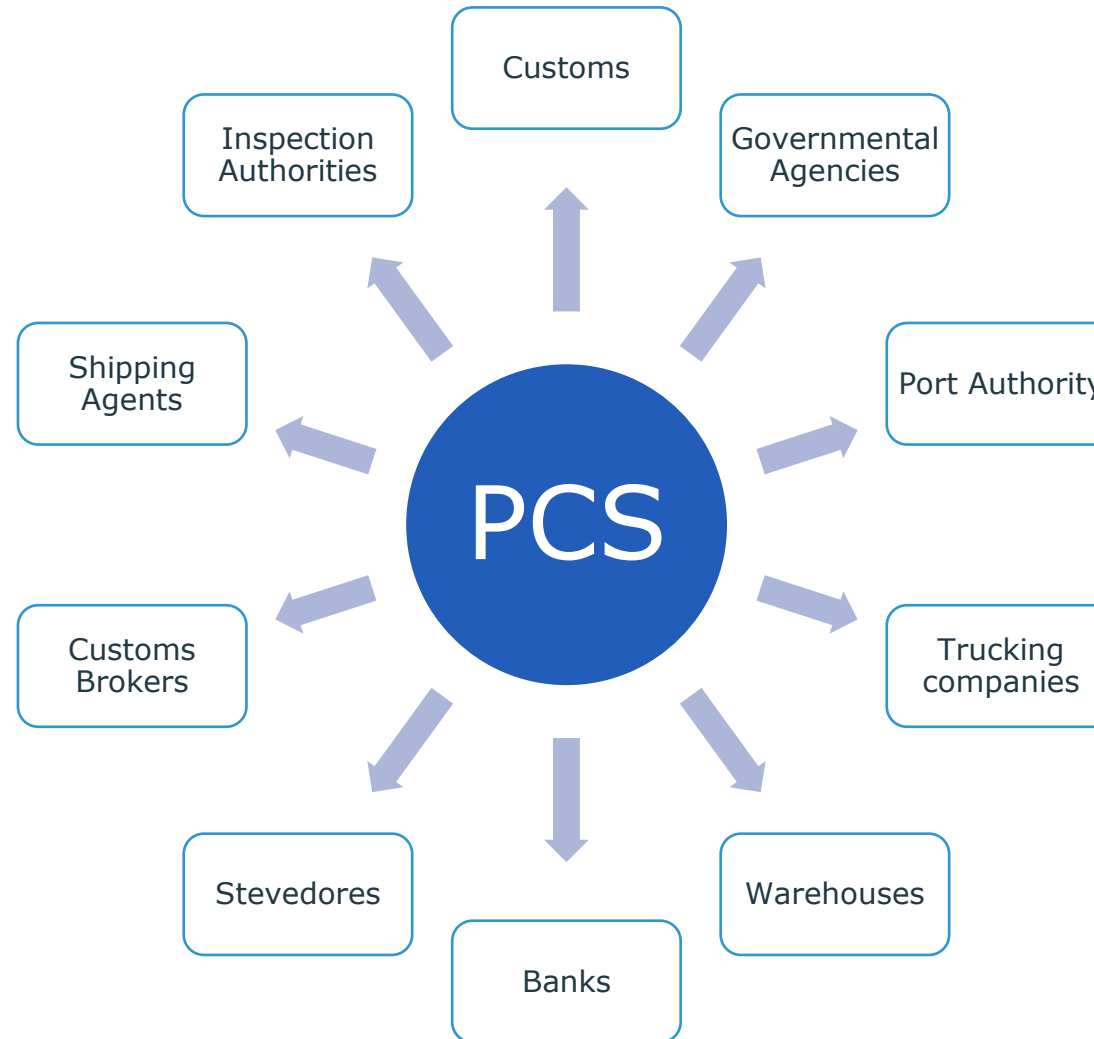
Improved Efficiency

Greater Transparency

Environmental Benefits

Data Analytics

Competitive Advantage



Functionalities

- ✓ Vessels call management & berth planning
- ✓ Manifest Management
- ✓ Cargo movements management
- ✓ Booking Management
- ✓ Cargo Exit Authorization
- ✓ Electronic invoicing and payments

Case Study:

Tanger Med Port Community System



Tanger Med Port Community System (TMPCS) is a digital platform designed to streamline port and logistics operations for both public and private stakeholders.



Case Study: *Tanger Med Port Community System*

FUNCTIONALITIES

- Maritime Module
- Import and Export Modules
- Financial Services Module
- Hinterland Module

ADVANTAGES

- Improved operational efficiency and resource optimization.
- Automation of processes
- Time savings for stakeholders
- Reducing CO2 emissions

88

Interconnected
systems

40,696

Daily electronic
messages

3,240

Daily import
operations

4,055

Daily export
operations

Conclusion

- Maritime / multi-modal Single Window Systems are vital to streamline processes and ever changing complex regulatory environments, enhance efficiency, promote sustainability through reduced paper usage and emissions, and contribute to an overall attractive port ecosystem by fostering collaboration and data-sharing among stakeholders.
- PCS adoption is synonymous with competitiveness and results in cost savings, improved operational efficiency, and better compliance with regulations.
- Embracing innovative solutions and latest technologies in Single Window Systems are key to drive port development and meet the evolving demands of the trade and supply chain industry.



We're building something big