UNCTAD Multiyear Expert Meeting on Transport, Trade Logistics and Trade Facilitation

21-23 November 2018, Geneva

"Sustainable freight transport in support of the 2030 Agenda for Sustainable Development"

IPCSA International Port Community Systems Association

by Richard Morton IPCSA

This expert paper is reproduced by the UNCTAD secretariat in the form and language in which it has been received. The views expressed are those of the author and do not necessarily reflect the views of the United Nations.

IPCSA

International Port Community Systems Association

Richard Morton, Hans Rook,

Secretary General, IPCSA Chairman, IPCSA

Uwe Liebschner Jalal Benhayoun **Dbh / IPCSA Customs Expert CEO, PortNet**

23rd November 2018, **UNCTAD, Mutli Year Expert Meeting UN Palais de Nations Geneva**



Content

- Who is IPCSA?
- PCS Concept
- Examples of PCS
- Intergration into Single Window
- How to develop a PCS
- Globally Connected Logistics
- Conclusion

 Logistics and Customs Flows Details

Example - Portnet, Morocco

So who is IPCSA?

- 39 members operating in over
 40 Countries.
- 1 million + users many small and medium sized organisations



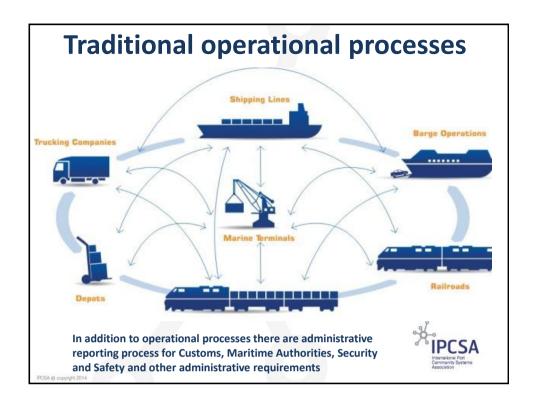
- Estimated 30m plus electronic messages per day
- Members currently handle the exchange of information for over 100 air and sea ports, this equates to over 400m TEU and 8bn tonnes of cargo
- IPCSA membership is open to:
 - ✓ Air and Sea Port Community System Operators
 - ✓ Air and Sea Port Authorities
 - ✓ Single Window Operators
 - ✓ International and Regional Organisations

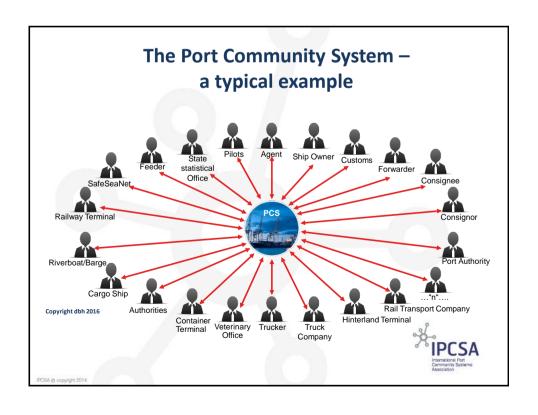


So what is a Port Community System?

"A Community System is not an IT project, but a change management project."

- Provides for the electronic exchange of information in the supply chain for B2B, B2G and G2B.
- An exchange platform interfacing with existing IT systems within a Port Environment
- Trusted Third party
- Use international data model standards (UN/EDIFACT, WCO, ISO) and message formats (EDIFACT, CARGOXML, WCOXML etc.)
- First Community Systems in late 1970's





Typical PCS Services Stakeholders **EDI Services** Port E-Commerce Container cargo Vessel Authority logistics Operations Rail/Road Transport Cargo manifest Booking Shipping Shipment instr. Order • Cargo List • Web BL Delivery pickup Dangerous cargo Agents prealert • Port call and berth • Status events • Gate In/Out requests Invoicing Freight notifications Payment Communication Forwarders with trucks Train Loading / Customs Unloading Agents Vehicles Cargo Inspection **Equipment** control Stevedores Vehicle Loading / Inspection request Container Unloading List release order Inspection instruction Vehicle Loading / Inspection result Container acceptance order Unloading **Road Holders** Container Confirmation Shippers Information Services Reporting

Useful Definitions

A Port Community System 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 and air ports' communities.
- optimises, manages and automates port and logistics efficient processes through a single submission of data and connecting transport and logistics chains.

A Port Community System Operator:

- is an organisation that is either public, private or public/private that operates and maintains a Port Community System and where the Port Community System represents the core of that organisations business.
- has a board, or some form of steering committee, made up of representatives from different internal and external groups within the Port and Logistics community
- has "service level agreements" with PCS users to manage the electronic exchange of information between different parties on their behalf.

IPCSA
International Port
Community Systems
Association

POSA @ copyright 201

Useful Definitions

A Single Window Operator is:

 The organisation that has the legal responsibility for implementation and operation of a Single Window within a country or region and which operates the Single Window within that remit, whereby the Single Window allows parties involved in trade and transport to lodge standardised information and documents.

A Cargo Community System (CCS) is:

- a neutral and open electronic platform linked to the cargo flows of any kind of freight passing through an identified port, airport, or multimodal site(s) to improve the competitive position of sea, air, inland and dry port communities for the benefit of public and private stakeholders.
- which enables the renewal, optimisation, automation and management of logistics, ports and administrative processes through a single submission of data, connecting transport and logistics chains.

IPCSA
International Port
Community Systems
Association

IPCSA @ copyright 2014

Differences

In general we can see some of the differences

PCS

 Focuses on Cargo and matching logistics flows with administrational flowsand B2B, B2G and G2B processes

Port Single Window

 Focus is on Port Regulatory requirements for entry and exit of vessels

Single Window

Collaborative environment bringing together public administrations to ensure traders only have to submit information only once for cross border trade (simplified view – see Rec 33, 34, 35,36 and also the associated technical documents of UNCEFACT)

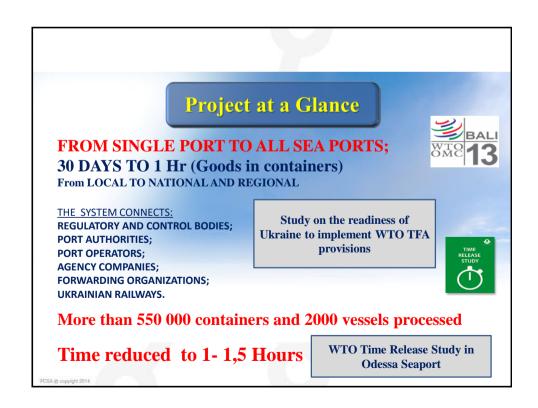
POSA @ copyright 201

Single Window Integration

PCS can:

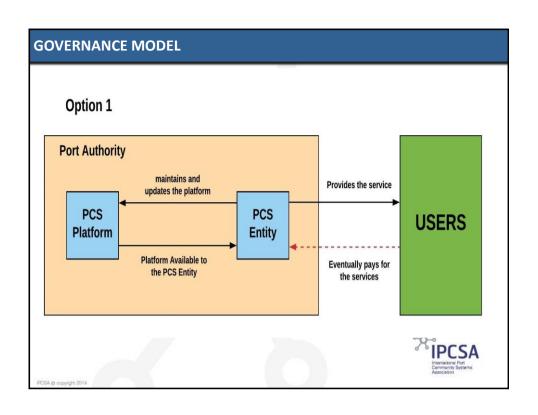
- Act as gateways to Single Window
 - e.g Maritime Single Window
- Be an integral part of a Single Window
 - e.g Trade Single Window (Benin, Togo, DRC Congo)
- Simplify interfaces for Administration
 - Translate from different message formats
- Provide paperless logistics flows in Sea and Air
 Ports and border crossings linked to
 administrative flows

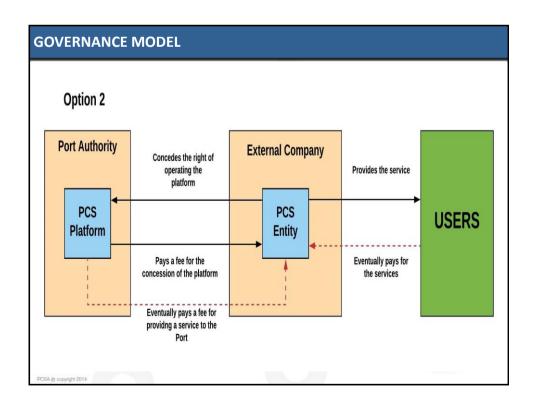
PCSA @ copyright 2014

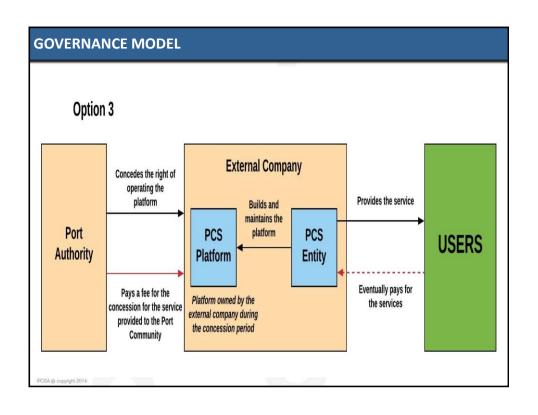


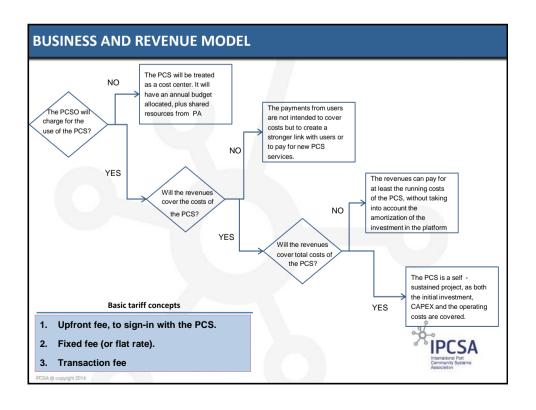
Before and After PCS implementation SEGUB, Benin, West Africa Custom Revenue: Dwell time: TEU (Twenty-foot Equivalent Unit): - 2011 - Euros 410 million - 2012 - 36 days - 2012 - 155 337 - 2012 - Euros 490 million - 2013 - 251 053 - 2014 - less than 8 days **GAIN OF MONEY, GAIN OF TIME** for private and public sectors: Gains of productivity Gains in efficiency 25 Gains in autonomy / flexibility 20 15 Rapid information exchange, coupled with accurate performance indicators has reduced dwell time from 5 weeks to less than 8 days as shown below. Container Dwell Time (in days)











Network of Trusted Networks

Globally Connected Logistics

Value Proposition of Community Systems

- Existing global network of Systems with over 1 million users
- Trusted and Neutral
- Using and developing international open standards

Vision:

- A neutral and trusted network
- Globally Connecting Logistics
- Use of existing IT Infrastructures not new ones
- APIs to connect Community Systems
- Simplified User Authorization

IPCSA

What and How to Exchange

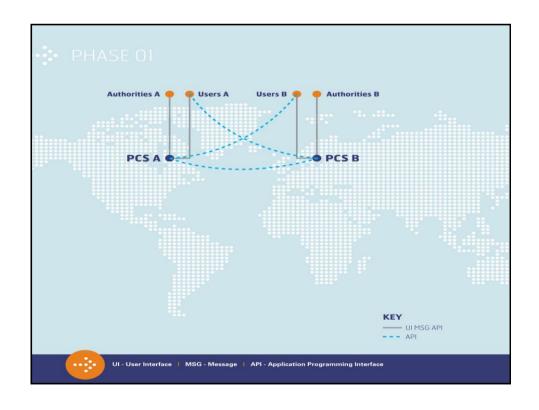
Problem: Visibility and the lack of it

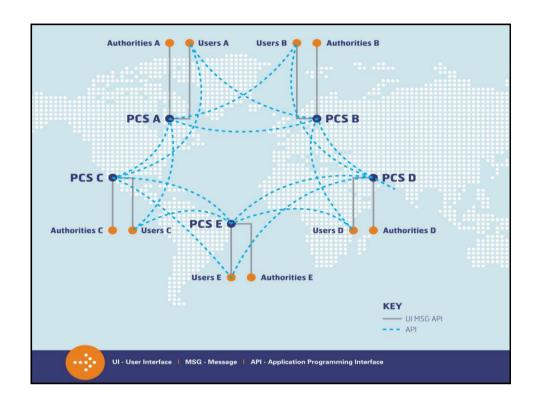
- Public versus Private Data
 - Survey or participants
 - Vessel Status
 - Container Status
- APIs (Application Program Interface)
 - No current standards for API, IPCSA has developed it's own for exchanging information
 - Relatively easy to implement
- Standards

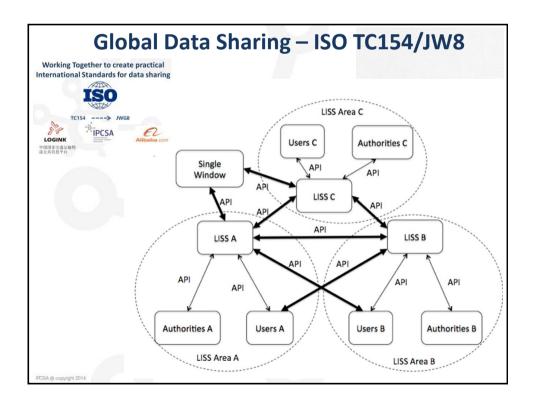
POSA & COPYRIDADE Use of international standards.











The Reality: Network of Trusted Networks **IPCSA and NEAL-NET Cooperation** (North East Asia Logistics Network) Korea: IPCSA: China: **Busan Port** PORTIC, Spain Ningbo Port Tokyo-Yokohama Port Kwangyang Port Antwerp Port, Belgium Qinqdao Port Kawasaki Port Dalian Port Incheon Port Osaka Port Trieste Port Italy **Ulsan Port Zhoushan Port** Kobe Port Odessa Port, Ukraine Pyeongtaek Port Wenzhou Port Portbase, Netherlands Yokkaichi Port Maqta Gateway, Abu Dhabi Jiaxing Port Niigata Port 1-STOP, Australia Qinzhou Port Fangcheng Port DBH, Germany Beihai Port DAKOSY, Germany Zhuhai Port ValenciaportPCS, Spain LOGINK Bilbao Port, Spain 通运输物流公共信息平 PORTEL, Spain "Soon to Come MCP, UK SEAL-NET" (South Israel Ports **East Asia Logistics** Network)

