Inter-organization Information Systems in Cross Border Trade:

- Towards an open Single Window Environment -
In this presentation...

- Evolution of the Single Window concept
- Inter-Organization Information Systems (IOS)
- Common Single Window Environment
- Framework for collaboration for IOS and Single Window
“Single Windows (SWs) are important drivers for the simplification, harmonization and automation of trade procedures”

Different systems evolve towards a Single Window

Each country has different parameters and objectives

SW is different in each country

How can we achieve collaboration and information exchange in cross border supply chains in the future?
Collaboration in international supply chains: IOS and Single Window

- In Europe: Emergence of Inter-Organization Information Systems (IOS)

  IOS: A system for collaboration and information exchange among independent stakeholders in international trade

- Example: Port Community Systems, eCustoms, electronic transit systems, eFreight,..

- Trade in advanced economies now uses many, highly specialised collaborative systems

- IOS have become crucial for efficient cross border trade
Layers of IOS in advanced economies

1. International Supply Chain
   - Buy
   - Ship
   - Pay
   - e-Commerce (e.g. Amazon, Apple,..)
   - e-Freight (e.g. IATA e-Freight), Track & Trace Systems

2. Transport Supply Chain
   - Prepare for Export
   - Export
   - Transport
   - Prepare for Import
   - Import
   - Port Community System (PCS), Free Zone Information Systems
   - Maritime SW, e-Navigation, SafeSeaNet

3. Transport Infrastructure Management
   - Load/Unload
   - Warehouse Operations
   - Port Operations
   - Trade Single Window, eCustoms, eCITES

4. Transport Regulations
   - Permit & Certificates for Vessels
   - Traffic Control
   - Vessel Piloting

5. Trade Regulations
   - Customs Clearance
   - Agriculture Control
   - Other regulatory agencies’ control
Towards collaboration in the supply chain

Characteristics of IOS:

++ focussed, limited number of stakeholders, fast implementation, dynamic, ..

-- bottom-up, limited service offer, lack of synergies and collaboration with other IOS, little recognition on the Government level, ..

IOS evolution:

- Emergence of collaboration and networks among the IOS
- The combined services of the IOS in this network can deliver high value added services for the trade community
- A network of IOS can deliver a *Single Window Environment* for trade
Future:
A Network of IOS for efficient cross-border trade

Networking of IOS in cross border trade
Single Window Environment

Buyers/Importers
Sellers/Exporters
Importer’s Banks
Exporter’s Banks
Freight Forwarders
Hauler Operators
Warehouses
Terminal Operators
Regulatory Agents
Marine Department
Ship Piloting
Vessel Traffic Safety
Port Community System (PCS)
Port-equipment Operators
Ship Agents
Port Authority
Terminal Operators
Regulatory Agents
Port Community System (PCS)
Port-equipment Operators
Ship Agents
Port Authority
Terminal Operators
Regulatory Agents
Marine Department
Ship Piloting
Vessel Traffic Safety
Port Community System (PCS)
Port-equipment Operators
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Vessel Traffic Safety
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Port Community System (PCS)
Port-equipment Operators
Ship Agents
Port Authority
Terminal Operators
Regulatory Agents
Marine Department
Ship Piloting
Vessel Traffic Safety
What could be a suitable framework to encourage IOS collaboration?

Lacking: a Framework for collaboration between IOSs and Single Windows:

Proposed:
- Develop a best practice framework for agreements between IOS
- Two IOS could use this framework to negotiate the specific agreements for their collaboration
- Initial draft for such a Framework in the background paper “Principles of engagement and best practice for trading in an Open Single Window Environment”
Summary and Recommendations

- Governments should **continue** to simplify and automate trade procedures under a national Trade Facilitation & Single Window Strategy.

- Governments should **assess possible gaps** in the development of IOS systems in their countries, in particular with regard to transport infrastructure management and transport regulations.

- Governments should encourage **collaboration of IOS and Single Window systems** with the objective to

  - **create a Open Single Window environment** that delivers integrated and high value added services to trade.

- To this end, Governments should **develop a framework agreement** for IOS collaboration in international trade.
Thank You

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