

“Port Community Systems - Global Trends”

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“TRADE” Facilitation

Is Trade the forgotten element of Trade Facilitation ?

- Single Window can sometimes be implemented in such a way whereby the simplifications benefit administrations more than trade !!!!
- Standards can be different to those used by trade.
- Trade is Global, SW can be local creating multiple different environments
- Does Single Window create more burdens ?
- Focuses on Administrative processes and operational processes can be forgotten.

“TRADE” Facilitation

However:

- Trade can adapt quicker than administrations to changes in the trade environment.
Technology, Processes, Regulation
- Small and medium sized companies may be less able to adapt and change and use third parties.
- Trade is conservative – doesn’t like change
- Brings together operational and administrative processes.

“Community Systems bring these different environments together”

Global Trends

- Need for greater transparency
 - Port and Airports or border points can be black holes due to a lack of communication and integration
 - Trade
 - Government Agencies
- Regional Considerations
 - EU, EAEU, ASEAN
 - Customs Unions
- Different environments but an increasing trend of Community Systems first steps towards a Trade Single Window.

Maritime SW and PCS - Netherlands

New B2MSW messages
(based on WCO data model v 3.5)

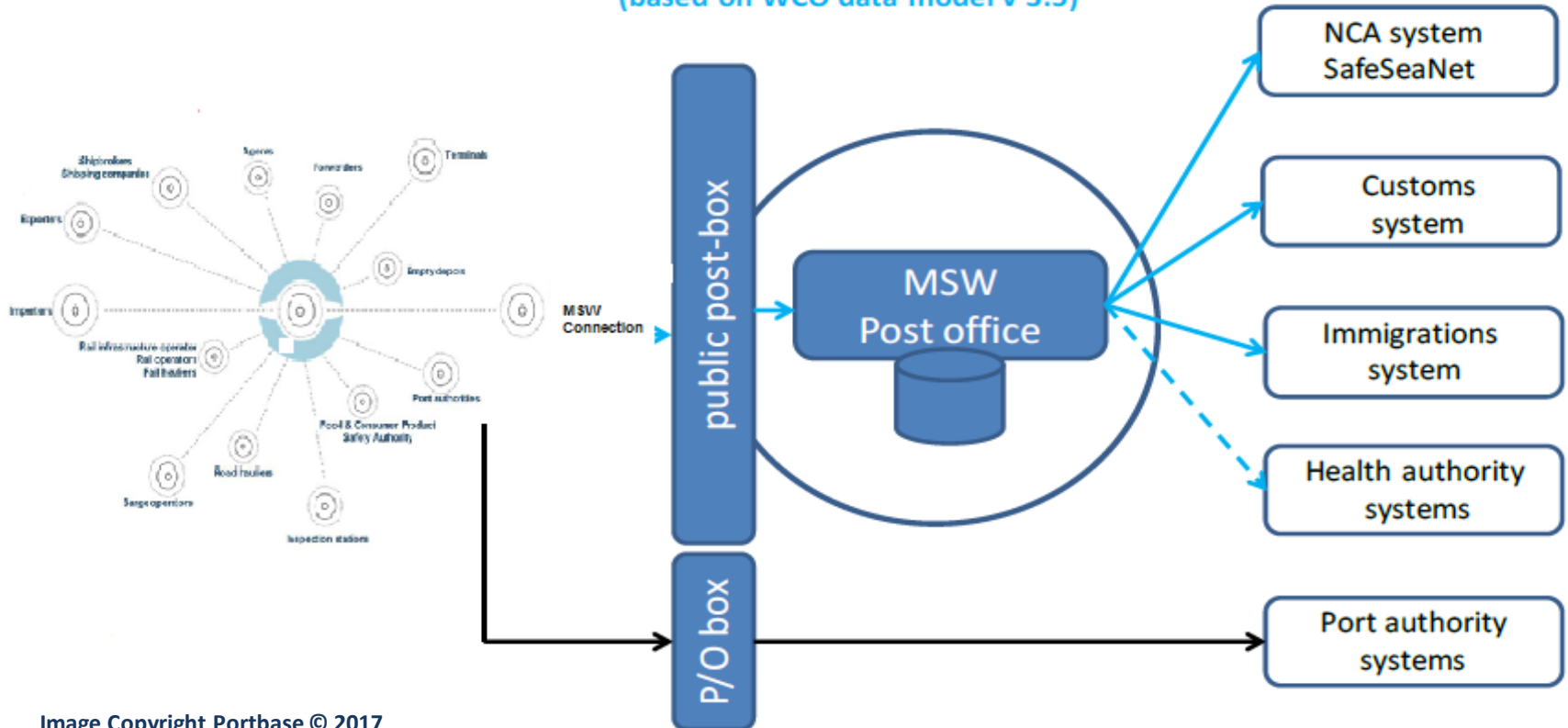


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Airport SW and PCS - Netherlands

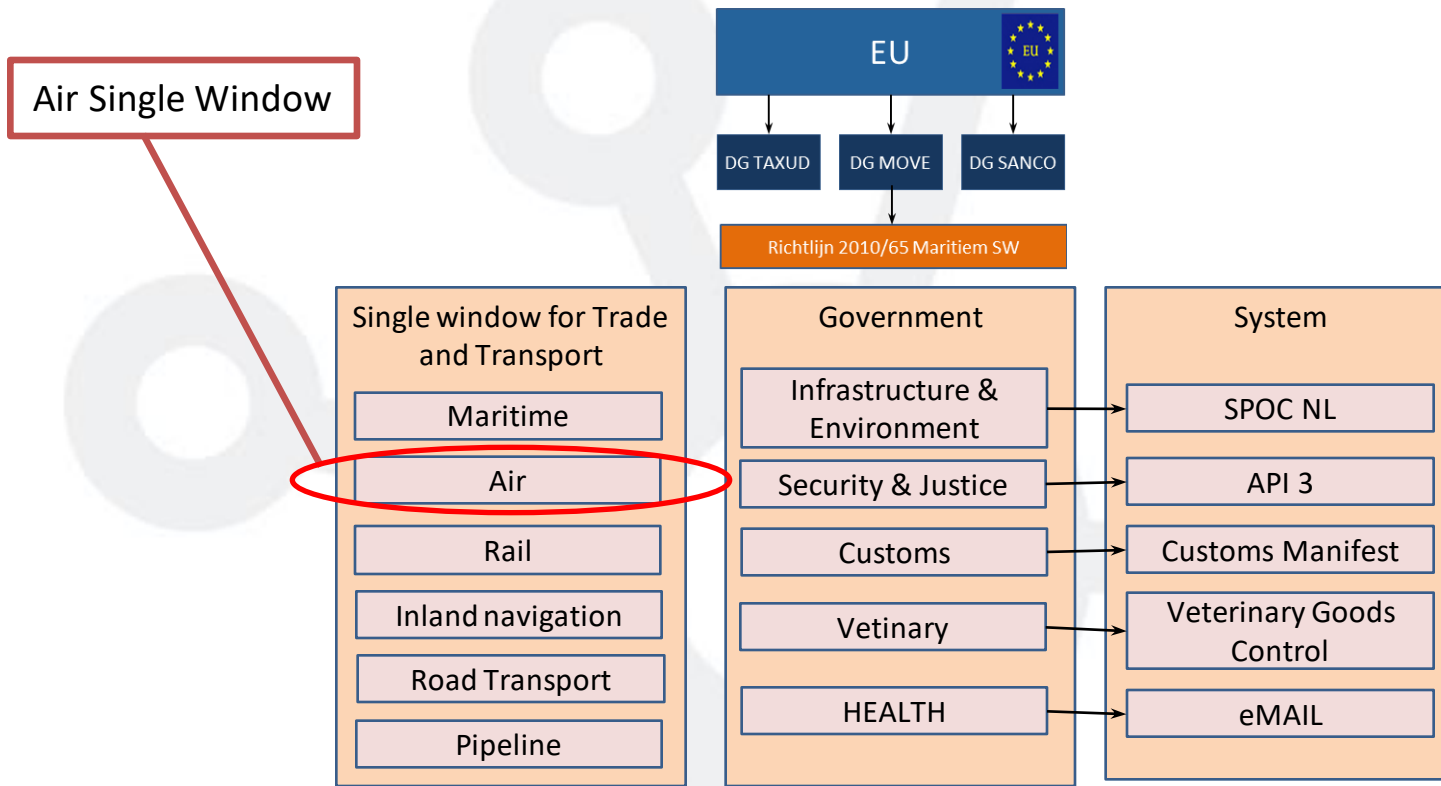
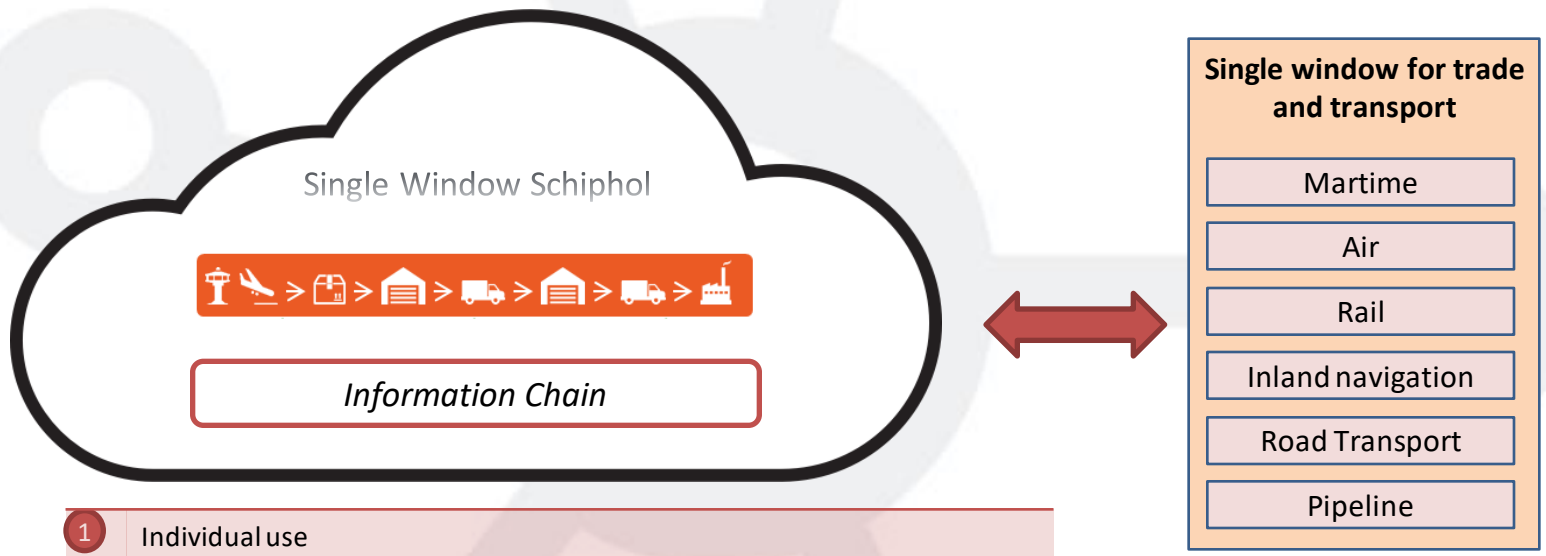


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B2B processes are not included in the Single Window for Trade and Transport

Government, industry and Amsterdam Airport invest in Single Window Schiphol to enable end-to-end hub solutions

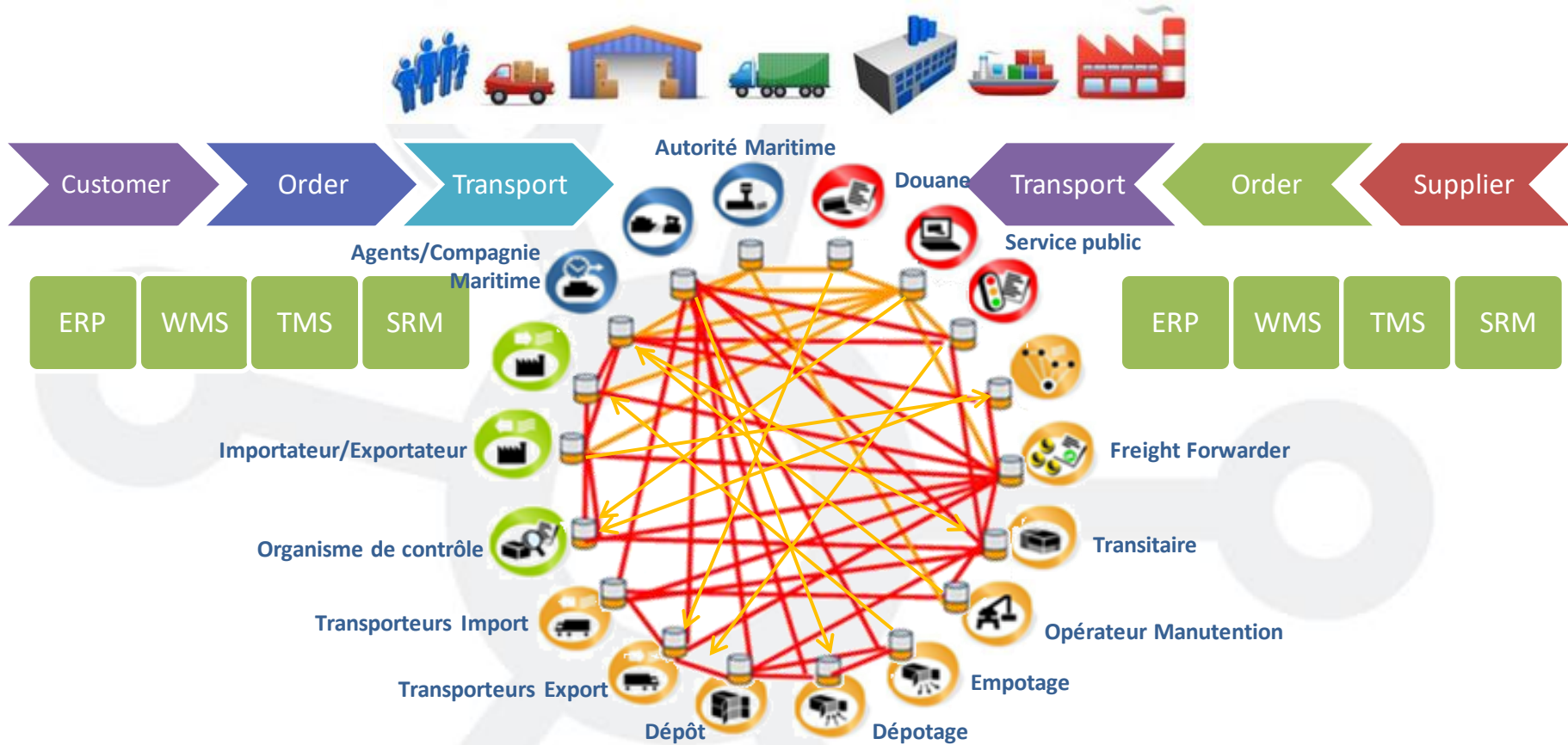


- 1 Individual use
- 2 Community Process Use (e.g tbv RFC, eLink, DGVS)
- 3 Legal Use (e.g ICS, ECS)
- 4 Directives (e.g for Schiphol, customs / government, industry organizations)

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Morocco from PCS to Trade SW

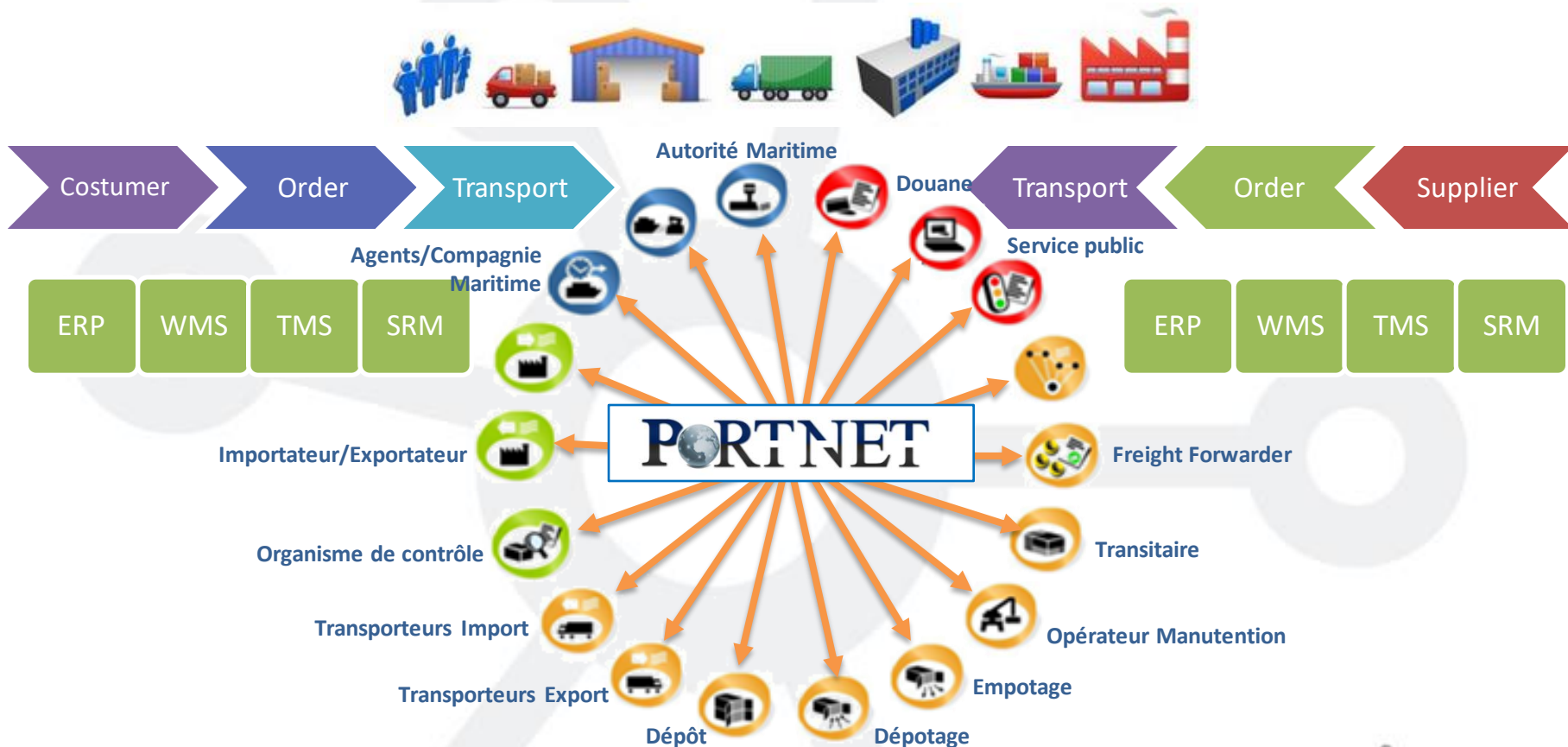
Complexity of integration of international supply chain



In practical terms , it is almost impossible for SME's to achieve the full integration of their supply chain due to the complexity of external environment.

Morocco from PCS to Trade SW

PortNet : A tool to facilitate the complete integration of the foreign trade for importers and exporters



Thanks to PortNet , this integration is gradually becoming reality due to the interconnection of all stakeholders around the electronic national single window.

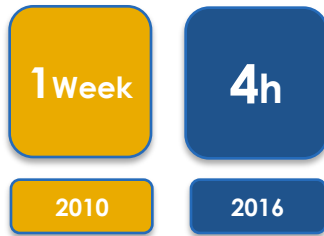
Morocco from PCS to Trade SW

PortNet : SW system oriented around importers and exporters

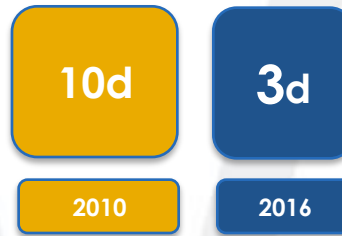
The implementation of PortNet is the fruit of years of hard work of the foreign trade community stakeholders putting the competitiveness of importers and exporters at the center of interest of the administration, public and private service providers.



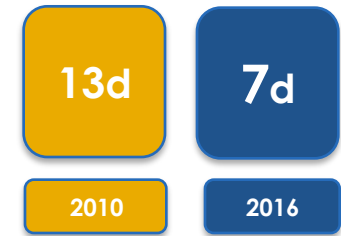
Moroccan Continuous improvement of the performance chain



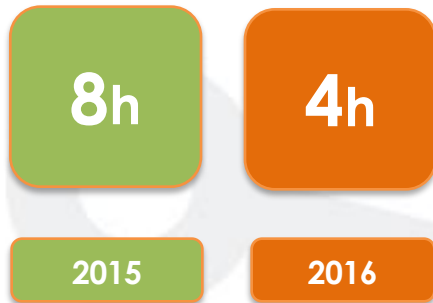
Domiciliation time of an importation licence



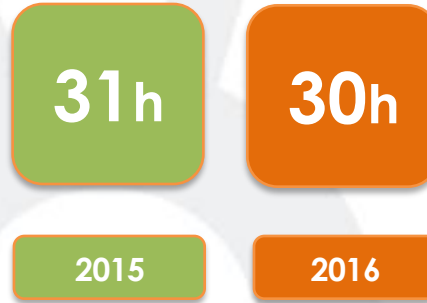
Inspection and goods control



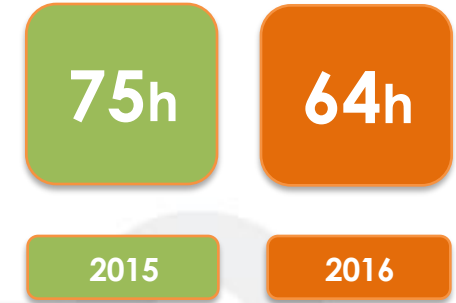
Average dwell time of container



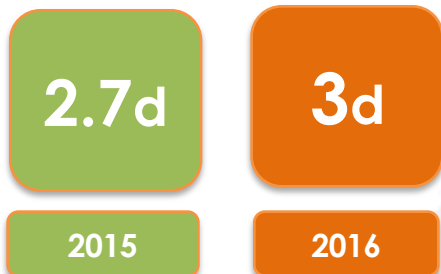
Average Import Title turnaround time



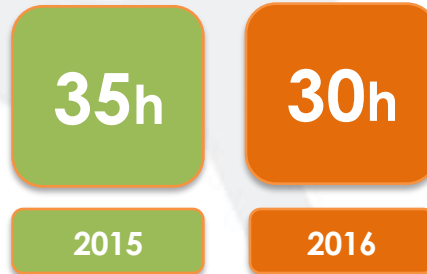
Advanced Manifest deposit



Average time between containers discharge and customs declaration deposit



Coordinated inspection time from customs declaration deposit



Average exit time of port containers after freehand

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Network of Trusted Networks

Globally Connected Logistics

Vision:

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

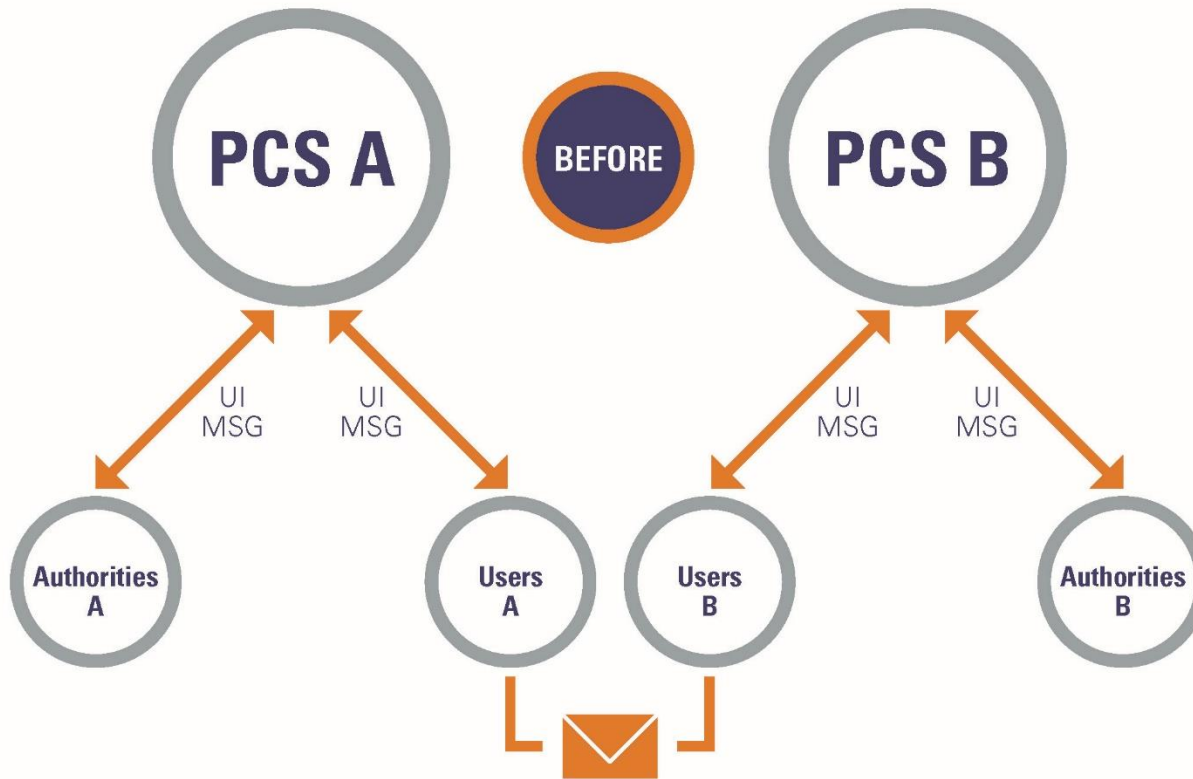
Visibility and lack of it

- Visibility is a critical competitive asset in the supply chain. The information must flow among the actors. However, the quality of the information is a challenge. The information is disseminated and fragmented in several points of the chain. Finding the most suitable and precise source of information is not an easy task in a global supply chain.
- The Ports (sea and air) play an important role in the supply chain acting in the first place as a transportation hub, but also as an information hub. PCS are informed about the physical and documentary events that happen in their area. However, the shippers and the logistics operator need to be aware of the events in other ports to obtain visibility of traffic flows “end-to-end”.
- The PCS interconnectivity can be an instrument to address these challenges in an effective way.

What and How to Exchange

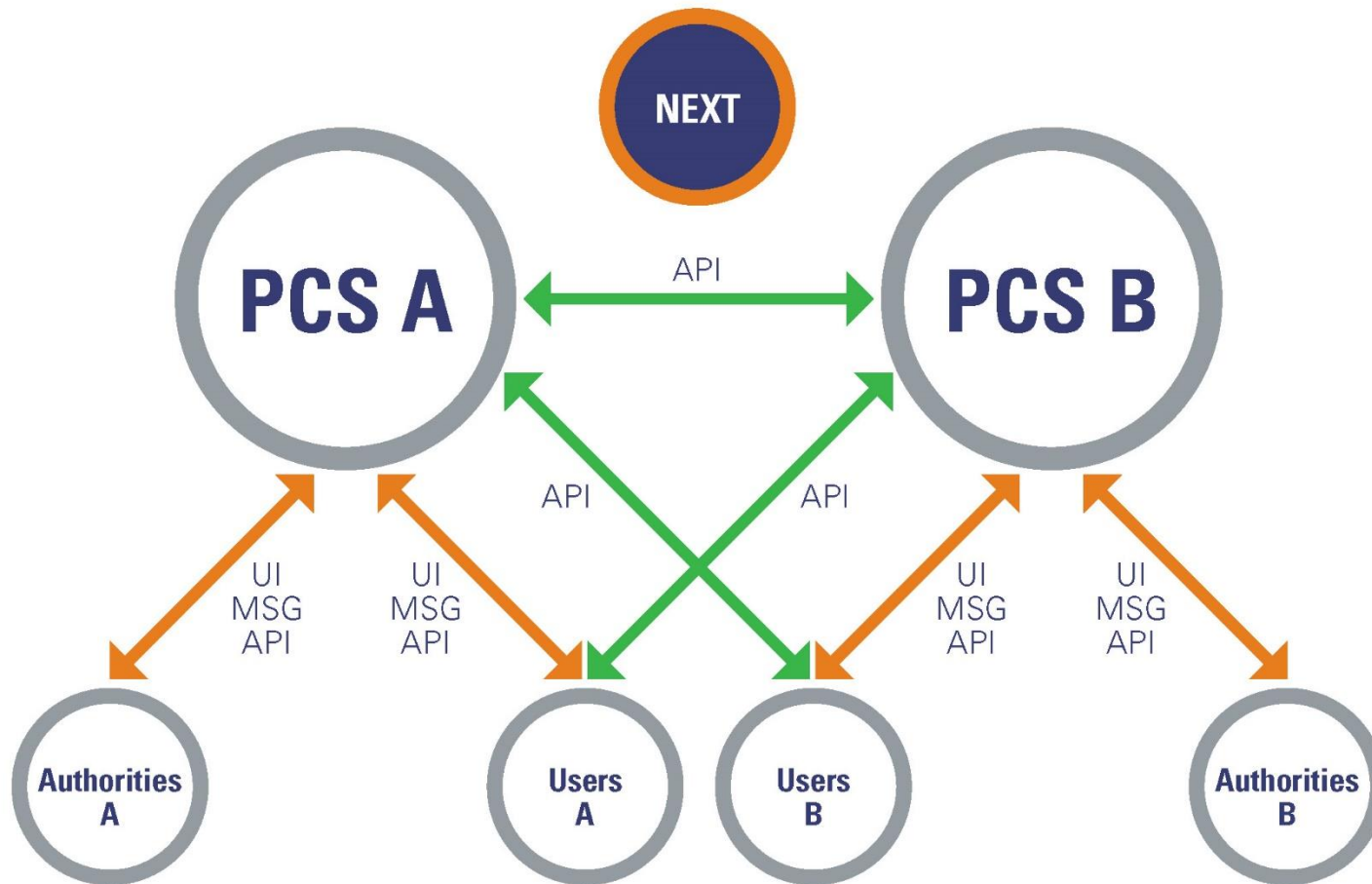
- **Public versus Private Data**
 - Survey or participants
 - Vessel Status
 - Container Status
- **APIs (Application Program Interface)**
 - No current standards for API, IPCSA has developed it's own for exchanging information
 - Relatively easy to implement
- **Standards**
 - Use of international standards

Current Situation



- Hub & Spoke
- Port Centric
- Monolithic
- Central Database
- Message System

VISION: Network of Trusted Networks



- PCS as Service or Cloud Services
- Global Services
- Federation
- Microservices
- Distributed Database
- API

Action Plan – Maritime and Air

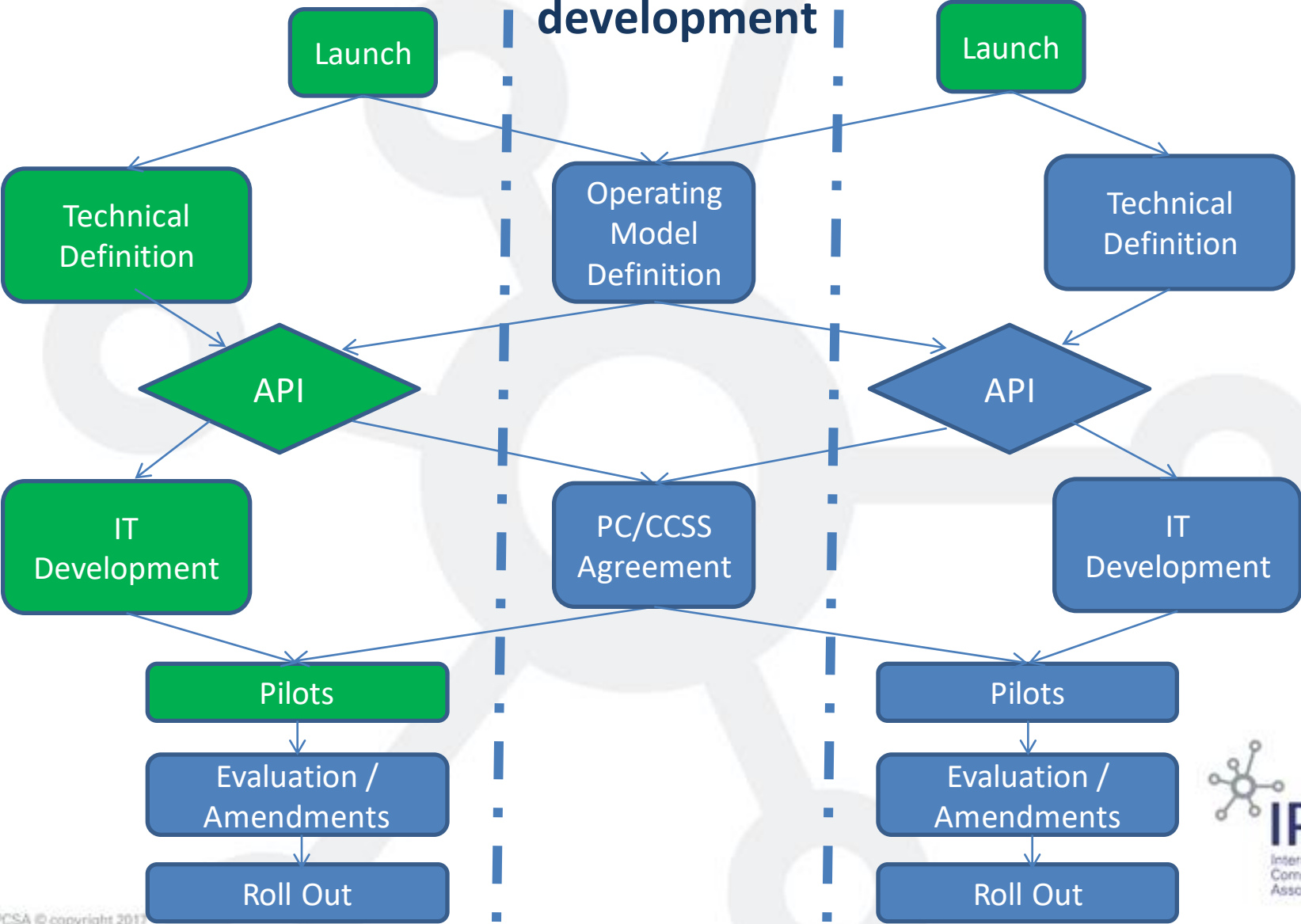
STATUS: completed

STATUS: ongoing

Maritime Network

Mode neutral development

Air Network



Technical Development – Maritime Network

Technical Definition

- Survey data Sets for Public and Trusted Data
- Define Minimum Data Set

API

- Develop API

IT Development

- Define IT Development

Pilots

- Pilot Test.
- Communication and Dissemination.

Objectives

To Do

- Wider piloting
 - ✓ Antwerp, Barcelona, Abu Dhabi, Southampton, China
- Updating and maintenance of API
- Expand to NEAL-NET (North East Asia Logistics Network)

Technical Development – Air Network



Objectives

- Survey data Sets for Public and Trusted Data
- Define Minimum Data Set

- Develop API

- Define IT Development

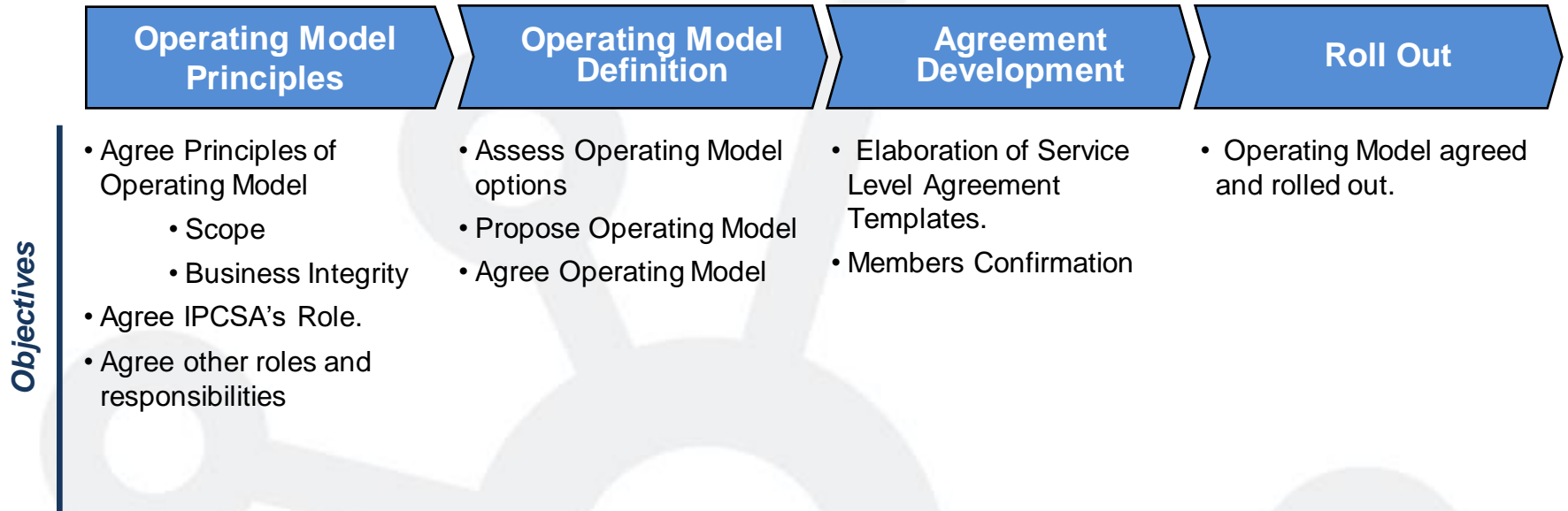
- Pilot Test.
- Communication and Dissemination.

To Do

- Identification for lead for Air – DAKOSY – Frankfurt Airport
- Initial Survey and define Minimum Data Set
- Increase number of Air-PCS/CCS participants
- Develop appropriate API



Operating Model Development



To Do

- Agree Principles of Operating Model Scope
- Business Integrity of Community Systems
- Agree IPCSA's Role.
- Agree other roles and responsibilities

About IPCSA

- 32 members operating in 32 Countries.
- Members currently handle the exchange of information for over 100 air and sea ports, this equates to over 250m TEU and 7bn 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 / Associations
- UN ECOSOC & IMO Consultative Status
- Participate at EU, WCO, WO, IATA, TIACA etc.

DAKOSY

portbase
home of logistics intelligence

PORTIC

MCP plc
Port Community Systems

SOGET
Pursuing for your business

dbh
dbh Logistics IT AG

PORTTEL
SERVICIOS TELEMATICOS

CNS

بوابة المقطع
MAGTA GATEWAY

FREPORT OF RIGA

SEGUCE TOGO

Port of Antwerp | **APCS**
PORT COMMUNITY SYSTEM

ILCS

AUTORITÀ PORTUALE DI RAVENNA

PORTS PLUS

1-stop

Port de Tarragona

portsines

ISRAEL PORTS
Development & Assets Company Ltd.

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LOGISTICS EXPERTS
FOR FASTER AND MORE SECURE FLOWS

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IPCSA 2017 Annual Conference
“Globally Connected Logistics”
23rd November 2017, Brussels, Belgium

IPCSA
International Port Community Systems Association