“Sustainable freight transport in support of the 2030 Agenda for Sustainable Development”

Logistics Information Flow

by

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It looks so easy

• SELLER

• BUYER
Logistic flow of information
Seafreight

Airfreight
In trade, paper and messaging (sequential)

37 data items sent 70 times
Traditional operational processes

In addition to the administrative reporting process for B2B, B2G, Security and Safety and other administrative requirements

Situation without PCS
• From international reports it appeared that for each container discharged from an ocean vessel there were **150 contact moments**
• As an average per port 2000 / 3000 TEUS are discharged per vessel call.

> Abt. 300K track & trace contact moments

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**The Port Community System – One-stop shop**

- PCS
- SafeSeaNet
- Sea statistical Office
- Port Authority
- Port
- Rail Transport Company
- Authority
- Consignee
- Forwarder
- Customs
- Customs
- Truck Company
- Truck
- Fedex
- Advice
- Authority
- Authorities
- Riverboat Barge
- Cargo Ship
Some figures

- Port of Rotterdam & Amsterdam
  - Added value amounting to Euro 1 million/day
- Dwelltime reduction Rotterdam
  - 4 hours – 23 minutes
- Dwelltime reduction Ukraine:
  - From 30 days to 1 hour
- Dwelltime reduction Benin
  - From 36 days to 8 days

Main actors

- Organizers
  - Carriers
  - Agencies
  - Forwarders
  - Shippers
  - Consignee
- Facilitators
  - Terminals
  - Depots
  - Road
  - Rail
  - Barge
- Supporting
  - Pilots
  - Tugboats
  - Boatmen
  - Banks
  - Insurance companies
  - Government agencies

In total about 40 players per port are active in the port related processes
Main Logistics Areas

• 3 main areas
  • Port related
  • Cargo related
  • Hinterland related

Port related
Maritime Single Window processes

• Vessel operations (IMO-FAL 1)
  • ETA, ATA, ETD, ATD procedures
• Provisions on board (IMO-FAL 3)
• Passenger / Crew data (IMO-FAL 5, 6)
• Dangerous goods reporting (IMO-FAL 7)
• Waste disposal
Cargo related

- Seaside operations
  - Incoming cargo
    - Discharge reporting
    - Storage reporting
    - Release reporting
  - Export cargo
    - Booking reporting
    - Arrival at terminal reporting
    - Load reporting
    - Export reporting

Hinterland reporting

- **Mode** of transport
  - Road, Rail, Barge

- **Planning** data
  - Expected pickup / delivery
    - Terminals, empty depots, place of acceptance, place of delivery

- Track & Trace

- **Actual** delivery data
Data sources

• Owners of the data
  • Organizers are in most of the cases the owner of the data.
  • Need their confirmation for
    • Re-use
    • Distribution
The Port Community System – One-stop shop / tomorrow

- GPS/AIS
- External systems
- Feeder
- Pilot
- Agent
- Ship Owner
- Customs
- Forwarder
- Consignor
- Port Authority
- SalesSeaNet
- Railway Terminal
- Riverboat/Barge
- Cargo Ship
- Authorities
- Container Terminal
- Veterinary Office
- Truck Company
- Hinterland Terminal
- Rail Transport Company

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Imagine plug & play

Co-creation

Innovation

New business markets

New business and fresh revenue streams

Relevant data flows back to PCS

Data flows back to companies

The innovation loop

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Evolution in Port Community
From data exchange platforms to business intelligence systems

- Data exchange platforms
- Network of PCS platforms
- Intelligence systems

- Data standards
- Neutrality & Trust
- Global implementation
- Authentication & authorization
- Data integrity
- Business intelligence
- Artificial intelligence

Thank you for your attention.