T-Scale Intermodal

Intermodal communication environment
Leading Container Terminal in Poland

- Operations since 1979.
- Since 2003 ITCSI Group Company (100%)
- Present capacity: **750 000 TEU yearly** (4Q 2015: 1,2 mln TEU)
- Berth length: **800 m**
- 6 Shore gantries
- Depth: **13,2 m.** (2016: 15.5 m.)
- 288 employees
Baltic Container Terminal, Gdynia

Intermodal Leader

- 1979 first Intermodal train served
- 7-8 train pairs served daily (weekly 50, monthly 200, yearly 170 000 TEU)
- 15 Intermodal operators
- 20 Intermodal land destinations
- Transshipment of all kinds of containers, trailers and swap bodies
- 40% of Intermodal transshipment share

Dynamic volume increase of intermodal transshipment

LogiCon Lean Secure and Reliable Logistic Connectivity for SMEs
Complicated communication process

- **Freight forwarder**
- **Intermodal Operator**
- **Container Terminal**
- **Rail Carrier**

Service request/notification

Notification request

Load/dispatch list

Readiness status 1

Readiness status 2...

Delivery coordination
Challenge & Stakeholders

Environment:
- Chaotic communication
- Lack of modern tools for information exchange

Stakeholders:
- **Terminal** - unable to plan operations well
- **Intermodal Operator** – unable to control the service offered
- **Railway Carrier** – unable to manage the fleet
Goal and Ambition

**Goal**: create IT platform (integrated collection of data) for communication and management of Intermodal deliveries to container terminal.

**Ambition:**
- **Short run** - coverage of all BCT Intermodal traffic
- **Medium term** - coverage of all Intermodal Operations in the region (ports of Gdynia & Gdańsk)
- **Long run** - become national standard in Intermodal traffic management (involvement of other sea and inland terminals) and further in Baltic-Adriatic Corridor (TEN-T 1)
Lean Secure and Reliable Logistics Connectivity for SME’s:
An European research project aimed at enabling logistics companies to take part in international trade and commerce flows by developing simple and pragmatic targeted solutions for data exchange that improve communication through digitization of documents exchange.

The project activities are carried out in four national living labs each one with specific objectives, dealing with three main challenges.

- **Italy**
- **Netherlands**
- **Poland**
- **Spain**

The Polish Living Lab implemented an innovative communication platform for intermodal transport collaboration. It enables information sharing for the hinterland planning processes by all parties involved – Logistics Operators, Rail Carriers & Container Terminal.
Solution - a communication platform

Ordering and standardization

Freight Forwarder

Container Terminal

Rail carrier

Intermodal Operator

GPS

GSM

Track & trace

Platforma komunikacyjna
Easy, flexible and user friendly data input

- **simple** to understand - time table layout, clearly defined roles,
- **accessible** - via web page with ID and password,
- **easy** to use - user friendly, intuitional,
- **open** - all stakeholders can participate,
- **useful** - providing useful information, ex. weekly arrival & departure plans, personalized dashboards and reports.

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<th>Operator intermodalny</th>
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<th>ATA port</th>
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Benefits for whole industry

- **costs & time reduction** in Intermodal delivery arrangements,
- **accuracy of data** exchanged,
- **digitalization** of a whole process among all stakeholders,
- easy and fast **access to information** on-line,
- **standardization of operations** performed,
- increase of competitiveness of intermodal transport.
Benefits for Stakeholders

For Terminals:
- Better planning and resource management - cost savings,
- Container flow control and management, congestion and idle time reductions,
- Speeding up rail operations,
- Automation of rail processes, invoicing, reporting.

For Railway Carriers:
- Better control of last mile operations,
- Better fleet management,
- Process standardization and automation – ordering, reporting & monitoring

For Intermodal Operators:
- Own system integration with platform only,
- Better Intermodal delivery planning, better management of resources (human, equipment),
- On-line monitoring of last mile operations,
- Increased competitiveness,
- Reporting.
Impact of the solution in bigger world

T-Scale Intermodal creates digital environment for Intermodal Industry offering:

lower costs & better efficiency for all the players

more opportunity to do the business

Increase of competiveness of whole Intermodal industry in Poland
not only for Gdynia Port but also nation wide
Information exchange

Freight forwarder

Intermodal Operator

Service request/notification

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Service request

Rail Carrier

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Ordering and standardization

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Platforma komunikacyjna

Partially standardized
The e-Freight Framework has been designed for the paperless exchange of freight information. It was designed from the ground up to provide a “connect once, collaborate infinitely” infrastructure to enable any company engaging in multimodal freight, transport and logistics to easily and seamlessly connect with any of the other parties involved.

GS1 and eFreight consortium collaborated closely to deliver interoperability between GS1 standards and the e-Freight framework in order to combine the power of GS1 XML and the innovative eFreight Access Point concepts.
Next step – deployment of e-Freight Framework

e-Freight applications

e-Freight Framework

e-Freight connectivity infrastructure

Lean Secure and Reliable Logistic Connectivity for SMEs
Next step – deployment of e-Freight Framework
Pilots of eFreight within eImpact

Atlantic
Mediterranean
Baltic-Adriatic

Leixoes
Lisboa
Trieste
Szczecin and Świnoujście
Gdansk and Gdynia

LogiCon
Lean Secure and Reliable Logistic Connectivity for SMEs
Thank You!

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