Towards an integrated transport system in the Baltic Sea Region

TransBaltic Seminar – Poznań, 10.06.2010
„Supporting Co-modal Transport Solutions for the Baltic Sea Region"

Intermodal deliveries planning application demonstration basing on Hamburg – Poland transport corridor

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Baltic Sea Region
Programme 2007-2013

G-Logistics

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Agenda

- ✓ Challenges

- ✓ Solution

- ✓ Standards

- ✓ Systems and Services

- ✓ Implementations
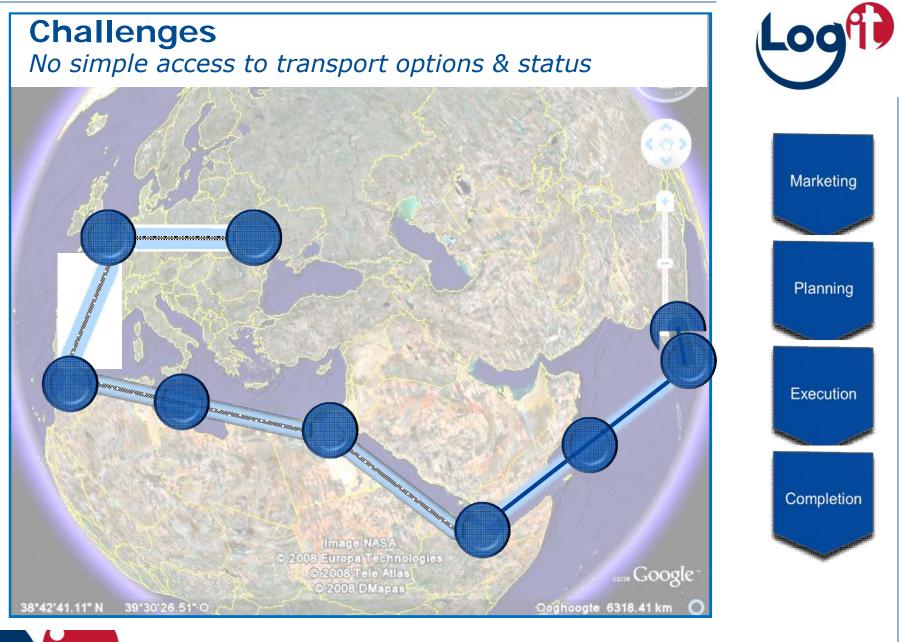
- ✓ Summary

- ✓ **Demo**

- ✓ How to use G-Logistics?

Challen

Challenges
General

1. Lack of **information sharing and ease-of-use** of multi-leg (co-modal) logistics chains

2. Lack of **transparency** on what is happening within the transport chain and how problems can be mitigated

3. Support **collaboration** within communities and companies with multiple existing systems and processes

4. Speed up sea terminal **throughput** and turnaround capacity

5. Need for **agile** and **decentralized** implementations to avoid lengthy and costly implementation projects

6. Support true **interoperability** with other standards and external systems, also enabling SMEs to be included

7. Create **leverage** for existing investments (AEO, ICT)

Challenges
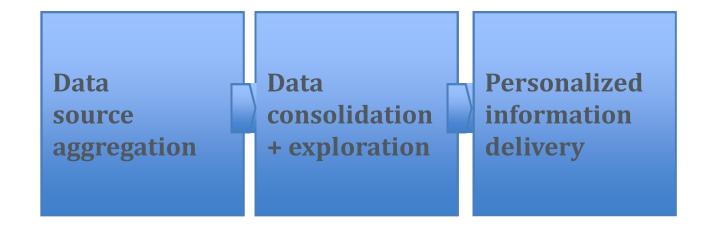*Ease-of-use in planning and executing logistics chains*

Solutions

Solution
What is G-Logistics?

G-Logistics delivers a global, proactive and multi-modal **freight planning & visibility service** that offers full visibility and supply chain event management, using web based applications that are extremely simple to use, whatever the complexity of your logistics process.
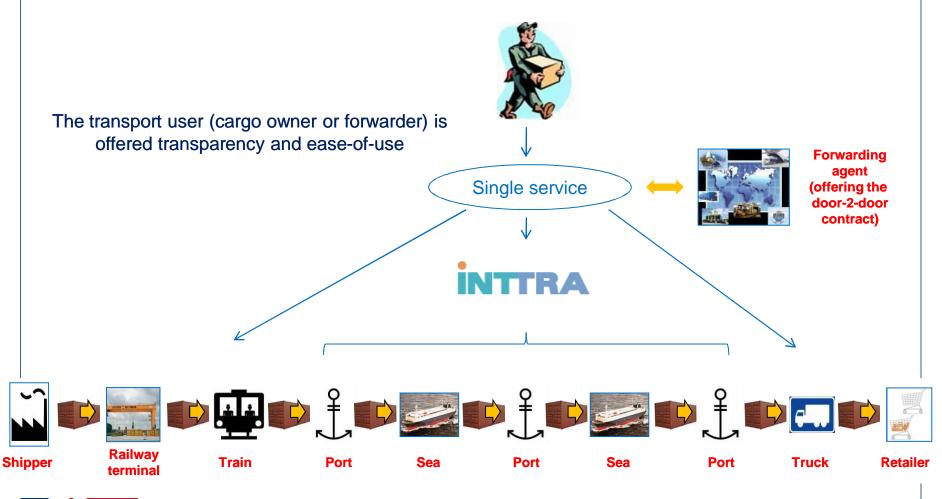
Data source aggregation	Data consolidation + exploration	Personalized information delivery

End-to-End Transport Options & Status
As if it were a Single Service

Å you would be empowered to make the best choice possible Å

The transport user (cargo owner or forwarder) is offered transparency and ease-of-use

Single service

Forwarding agent (offering the door-2-door contract)

INTTRA

| Shipper | Railway terminal | Train | Port | Sea | Port | Sea | Port | Truck | Retailer |

End-to-End Transport Options & Status
Classic supply chain

Single mode asset based systems

| SCM | TMS | WMS Terminal | TMS | WMS Terminal | Customs | TMS | SCM |

Physical chain

| Shipper | Railway terminal | Train | Port | Sea | Port | Sea | Port | Truck | Retailer |

End-to-End Transport Options & Status
Integrating, not replacing existing systems

G-Logistics Collaboration & Visibility Services

Sao Bernardo do Campo   Santos   Antwerpen   Opglabbeek

Single mode asset based systems

SCM   TMS   WMS Terminal   TMS   WMS Terminal   Customs   TMS   SCM

Physical chain

| Shipper | Railway terminal | Train | Port | Sea | Port | Sea | Port | Truck | Retailer |

Solution
Customer: Providing more end-to-end control

- Main customers are any **shipper**, **beneficial cargo owner**, or **forwarder/integrator**. Focus on global logistics (inter- and intra-continental) with sea, rail or barge as main leg combined with road.

- Also **transport service providers** can make their service offering and status information available through G-Logistics. Free applications will be provided.

Solution
Services

Added value

Service 1:

VISUALIZATION:

Technology:

Data aggregation & Mining

1

Service 2:

SINGLE SERVICE:

Technology:

Planning & E-commerce

2

Service 3:

EXECUTION:

Technology:

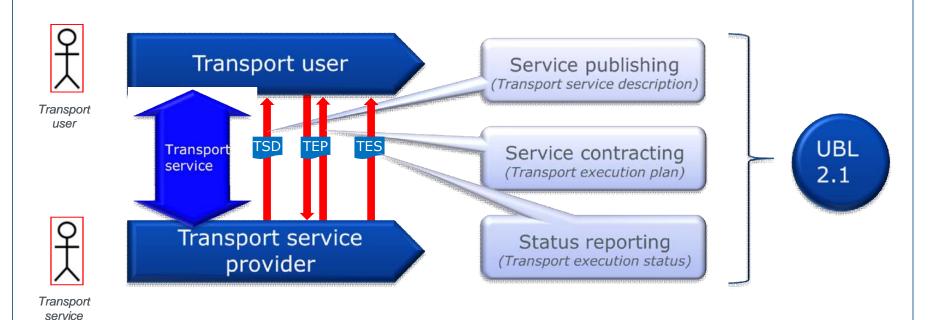Process automation

3

Standards

Standards

Freightwise transport service concept

From a standard container - To a standard service
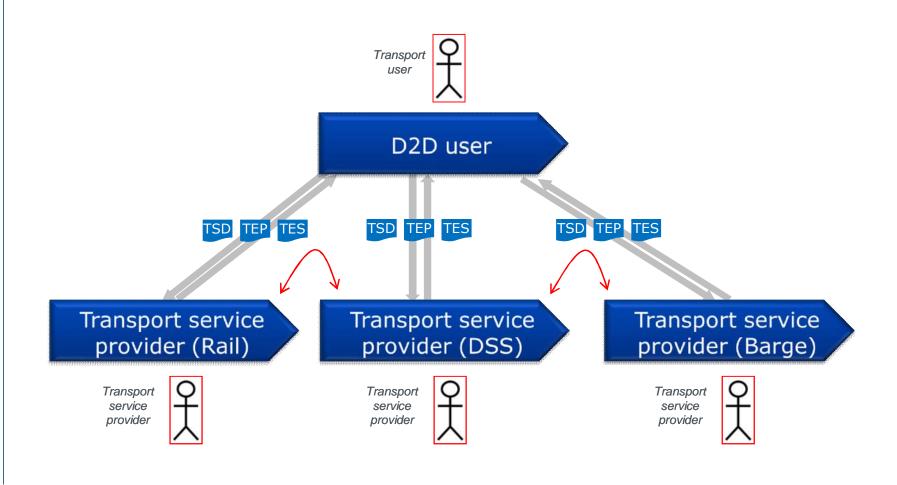

Separate between service and operational aspects

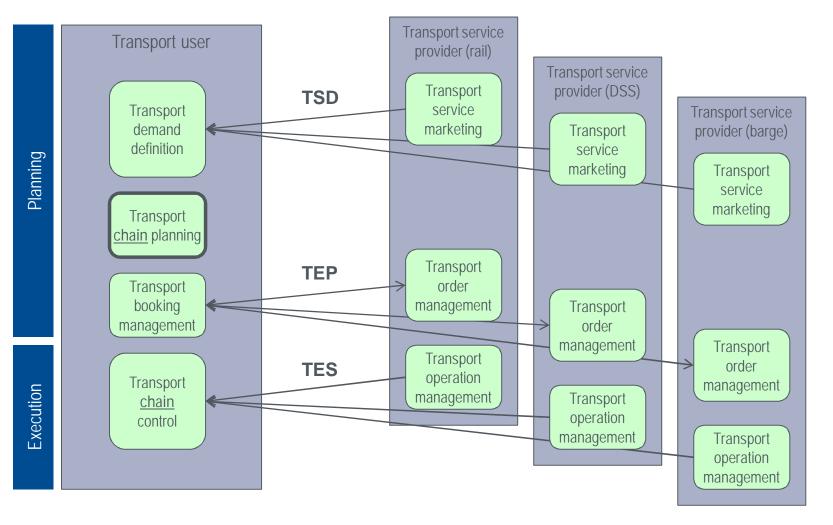# How we use standards
Freightwise services versus D2D workflow

Logit Systems

How we use standards
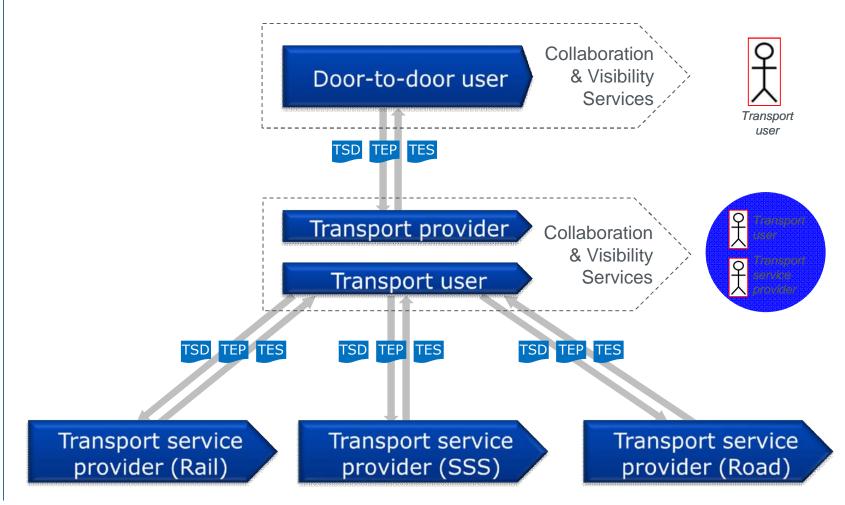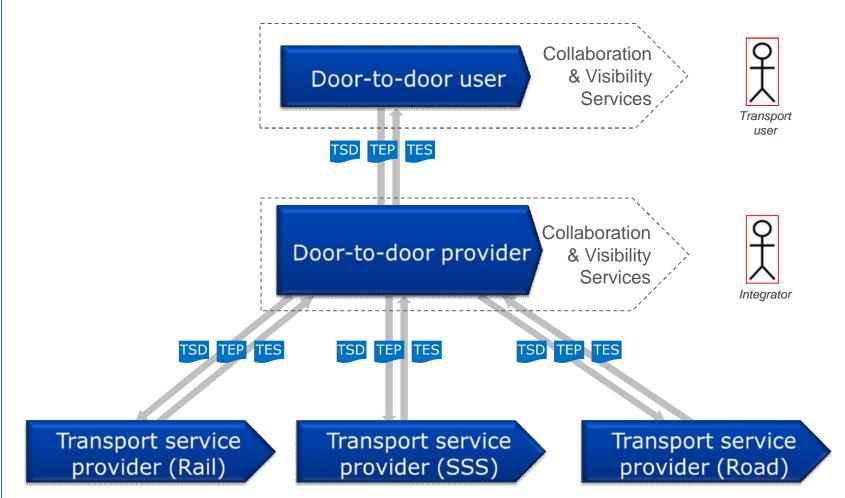*Freightwise roles & processes: Multiple providers*

System
& servi
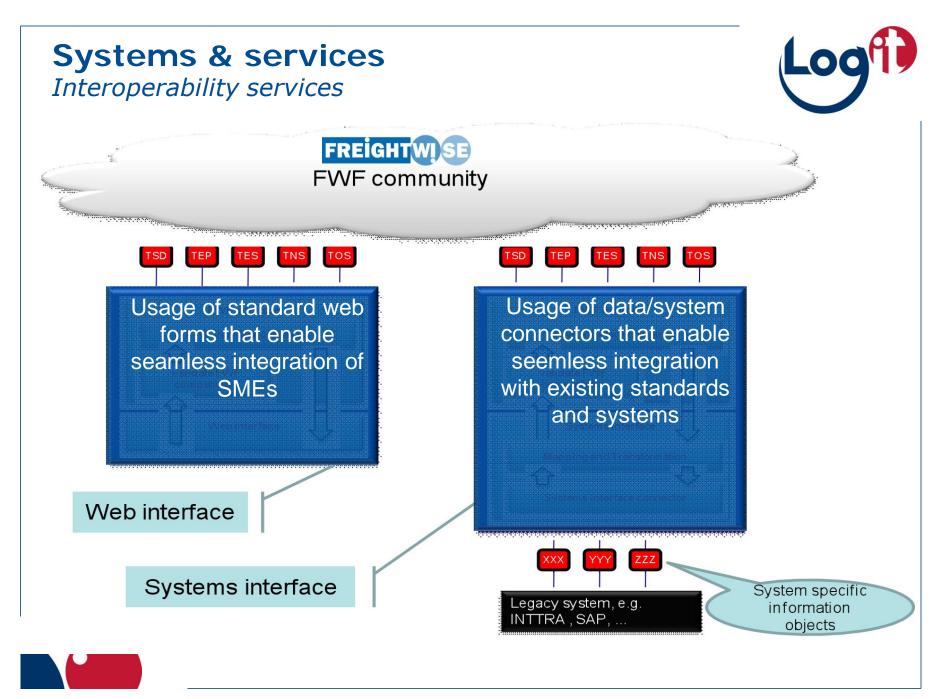
Systems & services
Single access point to end-to-end transport options & status

Systems & services
Single access point to end-to-end transport options & status

Systems & services
Interoperability services

FREIGHTWISE
FWF community

| TSD | TEP | TES | TNS | TOS |

Usage of standard web forms that enable seamless integration of SMEs

| TSD | TEP | TES | TNS | TOS |

Usage of data/system connectors that enable seemless integration with existing standards and systems

Web interface

Systems interface

| XXX | YYY | ZZZ |

Legacy system, e.g. INTTRA , SAP, ...

System specific information objects
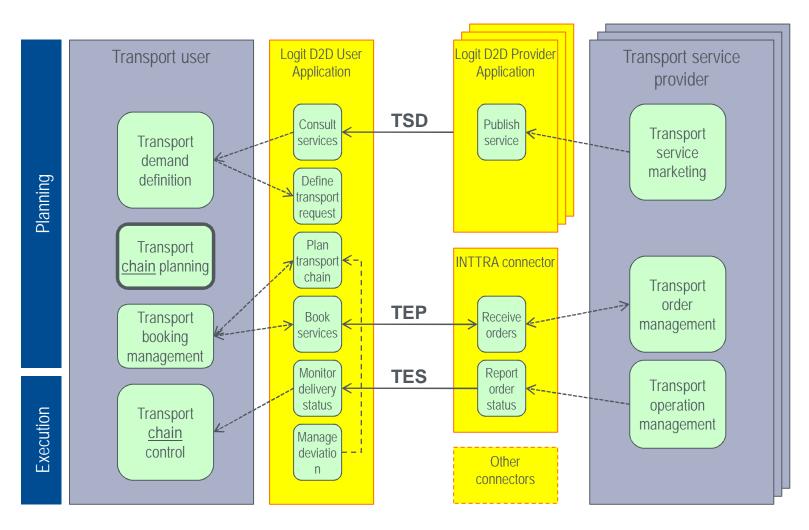
Systems & services
Interoperability services: Utilizing web forms

Systems & services
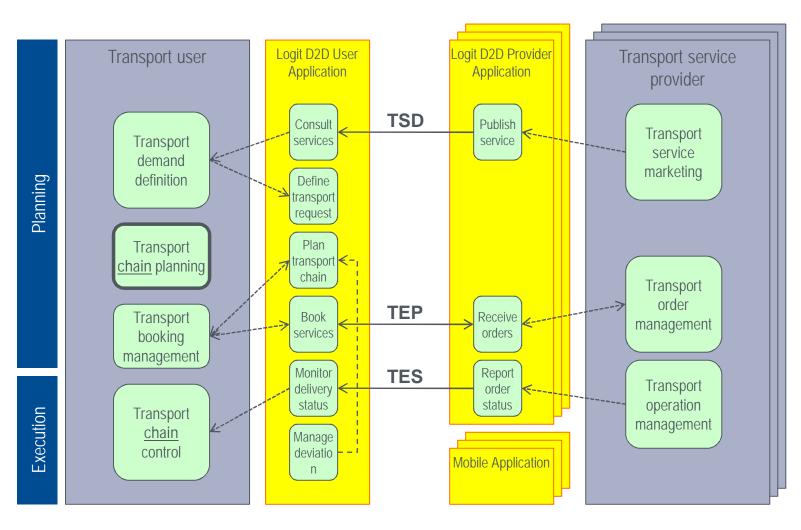*Interoperability services: Utilizing data/system connectors*

Systems & services
Single window leveraging existing systems & platforms

D2D user

TSD TEP TES

Neutral container platform

SDMF Unit status

D2D provider

Collaboration & Visibility Services

Transport user

Provider data versus autonomous unit data

TSD TEP TES   TSD TEP TES   TSD TEP TES

DSS transport service provider

Customs release/inspection

Hinterland transport service provider

Container shipping portal, e.g. INTTRA

Customs platform, e.g. Belgian Customs

Port community system
Road carrier platform
Inland terminal or WMS system

Implementation

Scenario 1: Planning

Implementation
Single Access Point to End-to-End Transport Options

Data source aggregation

Data consolidation + exploration

Personalized information delivery

Transport user

Service publishing
(**T**ransport **S**ervice **D**escription)

Transport service provider

Decentralized publishing and maintenance of service information

Implementation
Transport service definition

Implementation
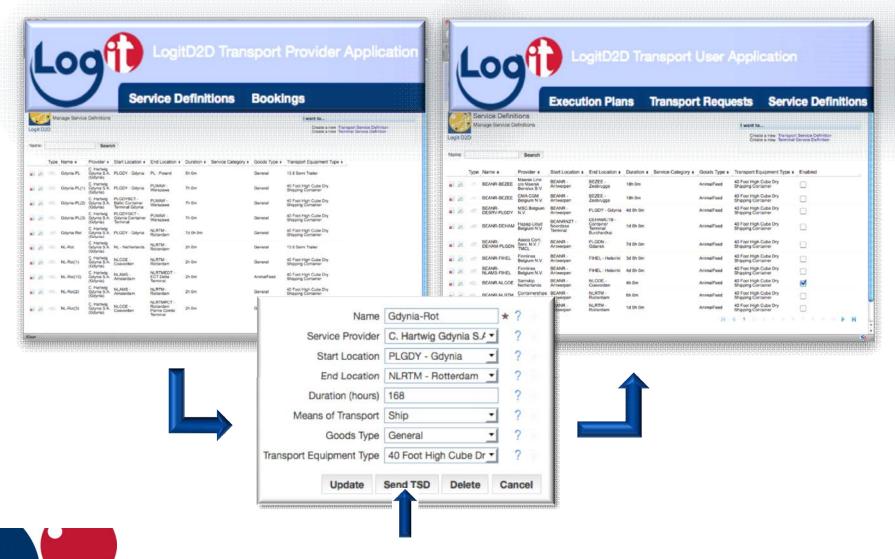*Transport service definition: Price information*

- How are prices presented:

    1. Standard price independent of volume.

    2. Price as agreed in long-term contract between user and provider of the service.

    3. Spot price based on time, volume, other conditions as established in quotation procedure (see 'booking').

    4. In cases (2) and (3) the price is only exchanged between user and provider of the service.

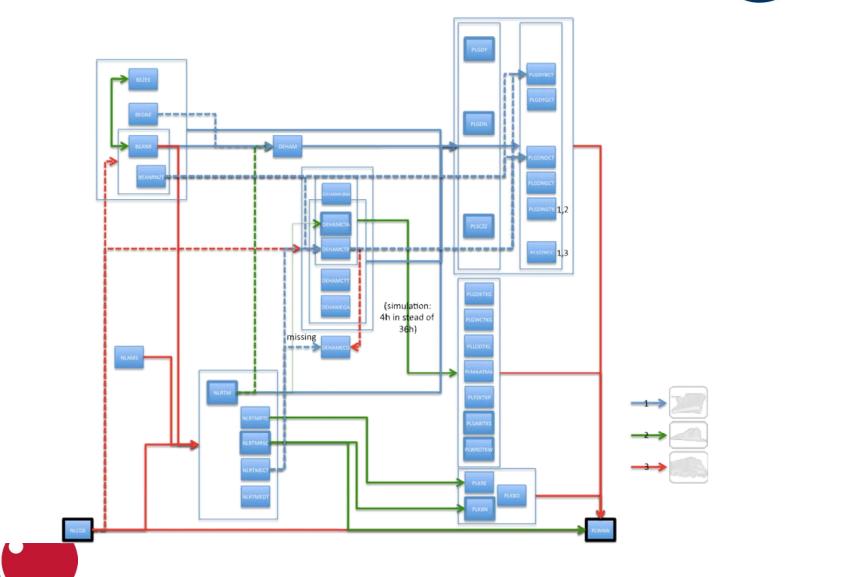# Implementation
Transport service publishing

Resulting transport network

Implementation
Single Access Point to End-to-End Transport Options

Data source aggregation → Data consolidation + exploration → Personalized information delivery

Implementation
Single Access Point to End-to-End Transport Options

Data source aggregation → **Data consolidation + exploration** → **Personalized information delivery**

Start Time : Thu May 13 12:00:00 CEST 2010

End Time : Sun May 16 21:00:00 CEST 2010

Name	Type	Provider
NL-Rot(1)		C. Hartwig Gdynia S.A. (Gdynia)
NLRTM-PLGDY		Team Lines Benelux N.V
Gdynia-PL(1)		C. Hartwig Gdynia S.A. (Gdynia)

Criteria:
Lead time
Costs
Carbon footprint

Implementation
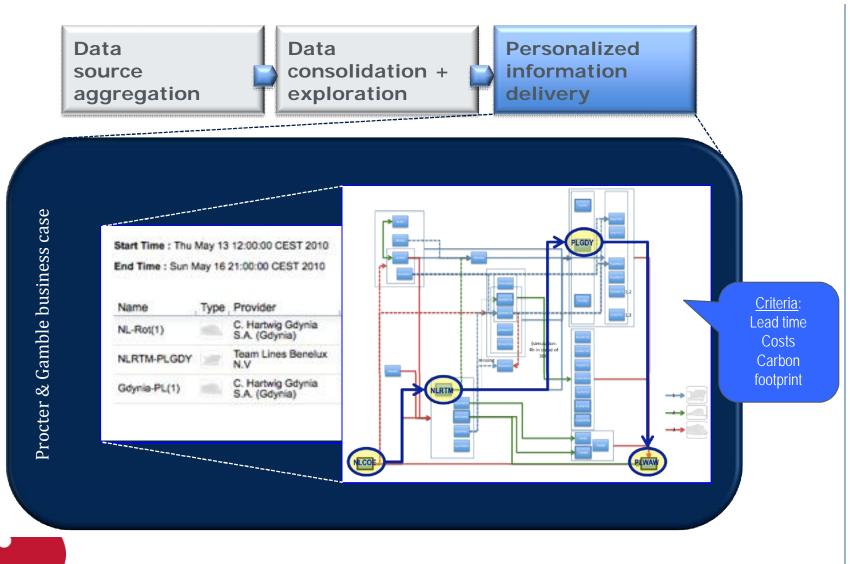## *Define transport request / Consolidated transport demand*

Implementation
Planning optimal chains: Lead time, costs, CO2 footprint

Logit Systems

Implementation
Planning optimal chains: Lead time, costs, CO2 footprint
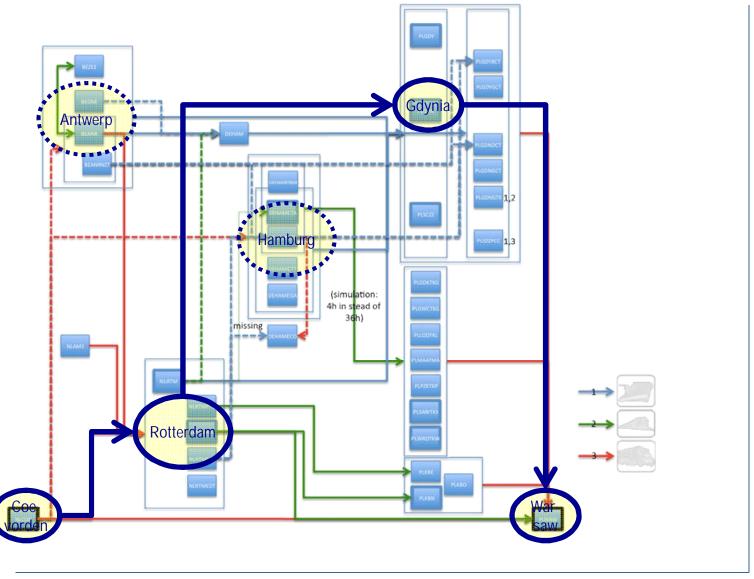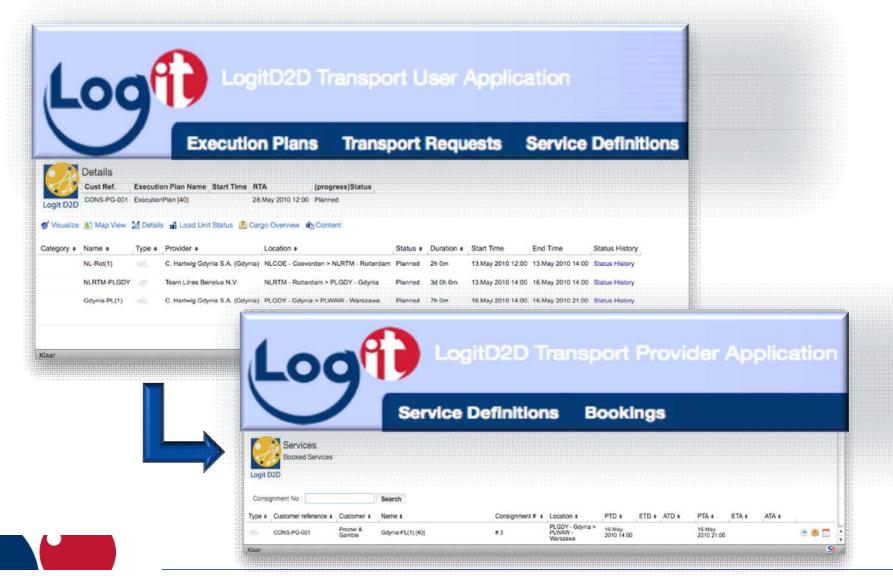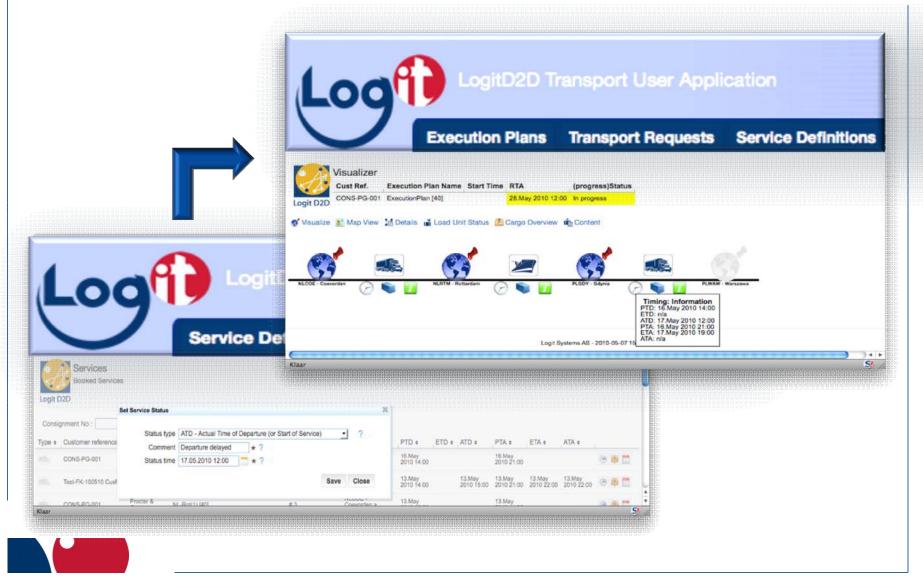
Implementation
Procter & Gamble: Booking

Implementation
Procter & Gamble: Execution

Implementation

Scenar

Implementation
Single Access Point to End-to-End Transport Status

Data source aggregation	→	Data consolidation + exploration	→	Personalized information delivery

High cost

↑

Load unit position

> Can be container security device (CSD) or container tracking device

Carrier information (INTTRA)

> Load unit ID + loading information + vessel ETA update gives full visibility

INTTRA

Web based reporting

Logit — LogitD2D Transport Provider
Services   Bookings

Mobile reporting

↓

Low cost

Implementation
Single Access Point to End-to-End Transport Status

| Data source aggregation | → | Data consolidation + exploration | → | Personalized information delivery |

Mobile reporting

Implementation
Single Access Point to End-to-End Transport Status

| Data source aggregation | Data consolidation + exploration | Personalized information delivery |

Can include customs inspection services

Can include breach and customs release status

Implementation
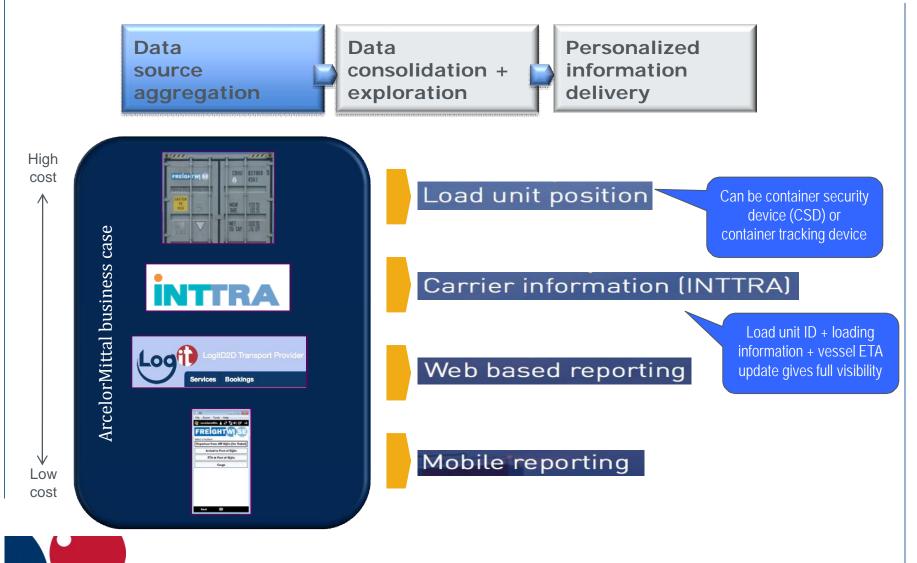*Single Access Point to End-to-End Transport Status*

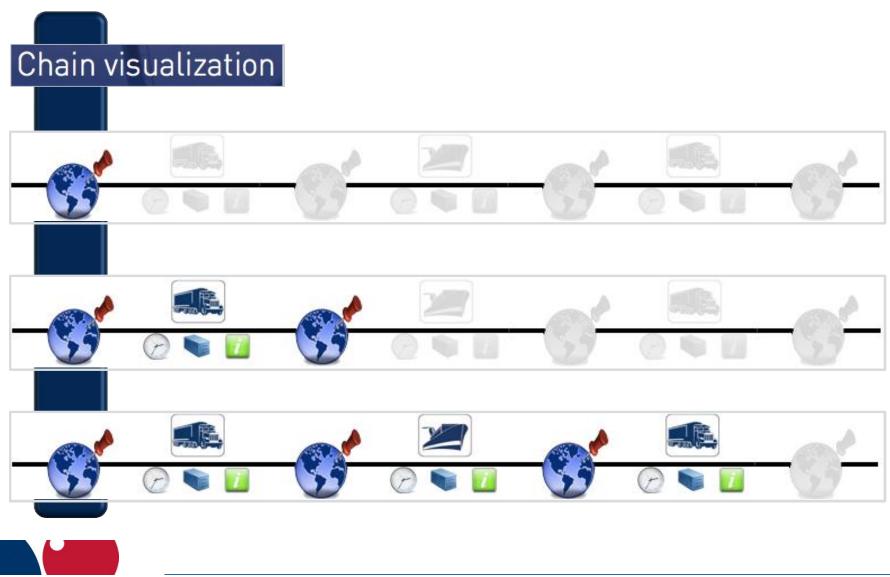| Data source aggregation | Data consolidation + exploration | Personalized information delivery |

Execution Plans   Transport Requests   Service Definitions   Execution Plan Templates   Administration   Logout: "frank-ua"   ? Help   ⓘ About

Chain visualization

Subscribers

Name	Email	ATD	ATA	Missing	Changed	Delay on single service	Delay on RTA
Eivind Madsen	eivind@logit-systems.com	☑	☑	☑	☑	☑	

Implementation
Single Access Point to End-to-End Transport Status

Implementation
Single Access Point to End-to-End Transport Status

Chain visualization

Implementation
Single Access Point to End-to-End Transport Status

Event subscription

Yellow alert

Red alert

Alert information:

Alert type:	Delayed departure
Event occurred:	13 sep 2009 18:00 GMT
Project:	LAS BRISAS VENEZUELA
Shipment No:	SN SIE02-10
Provider:	Züst & Bachmeier
Service:	Truck Transport
Location:	Prerov/Czech Republic

Alert information:

Alert type:	Transport Unit missing
Event occurred:	13 sep 2009 18:00 GMT
Project:	LAS BRISAS VENEZUELA
Shipment No:	SN SIE02-10
Provider:	Züst & Bachmeier
Service:	Truck Transport
Location:	Prerov/Czech Republic

Alert information:

Alert type:	Forecasted violation of RTA due to delayed arrival
Event occurred:	13 sep 2009 18:00 GMT
Project:	LAS BRISAS VENEZUELA
Shipment No:	SN SIE02-10
Provider:	Züst & Bachmeier
Service:	Truck Transport
Location:	Inland Port Melnik

Summary

Summary
Unique selling points (USPs)

1) **True visibility**, including a <u>proactive</u> approach to forecast end-to-end delivery time and reducing impact by dynamic rescheduling/rerouting.

2) **Aggregation of data** to try to cover as much as possible blind sports in the chain, and to improve the reliability of data. Making a chain of transport services usable as if it were <u>one single service</u>.

3) **Agile platform** that enables <u>fast implementation</u> (including training), reducing barriers and enabling a customer to start 'tomorrow'.

Demonstration

Demo setup and data analysis

Demonstration

Demonstration of the intermodal supply chains
management ICT tool functionalities

How

Conditions of use
Generic model

Basic subscription

< 100 units/month:
13.047,03 Euro/yr for bronze edition
Discounts for multi-annual subscriptions

Variable fee

100-250 units/month: 4,13 Euro/unit
250-500: 3,70 Euro/unit
500-1250: 2,84 Euro/unit
1250-5000: 1,97 Euro/unit
5000+: On request

Includes

SLA (basic service levels)
Messaging (5 messages/unit)

Excludes:

Customization
Integration (Logit ESB)
Set-up costs (configuration)
Training

Implementation by DiSCwise

Introduce Freightwise solutions to the market

DiSCWISE

Digital **S**upply **C**hains based on the Freight**wise** Framework

Funded through
EU DG Enterprise

Basic subscription

< 100 units/month:
13.047,03 Euro/yr for bronze edition
Discounts for multi-annual subscriptions
Money back guarantee after pilot (months not used)

Variable fee

100-250 units/month: 4,13 Euro/unit
250-500: 3,70 Euro/unit
500-1250: 2,84 Euro/unit
1250-5000: 1,97 Euro/unit
5000+: On request

Includes

SLA (basic service levels)
Messaging (5 messages/unit)
Customization (adapt to vertical market)
Integration (Logit ESB)
Set-up costs (configuration)
Training