

## DGF OCEAN SECURE

Improving reliability on global supply chains Saragossa, October, 25<sup>th</sup>





## DHL Global Forwarding – Ocean Freight



#### **GLOBAL FORWARDING / FREIGHT**

Europe-wide Transportation

#### **SUPPLY CHAIN**

Contract Logistics & Industry Solutions

#### **EXPRESS**

Time-definite International Shipments

Air Freight

Intercontinental

**Transportation** 

#### **OCEAN FREIGHT**

Multimodal

**International SCM** 

**Industrial Projects** 

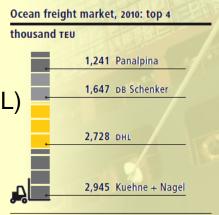
**Customs Brokerage** 

**Lead Logistics Provider** 

## **DHL OCEAN FREIGHT key facts**

- over 4,000 professionals
- over 330 sites worldwide
- over 2.7 Mio TEU per year (FCL)
- over 45,000 weekly point pairs (LCL)





Source: DPDHL annual report 2011

## What is Ocean Secure?

## Enabling of enhanced ocean freight services to create more transparency for increased customer satisfaction





Container securtiy devices acquire data at the container



**External sources** 

Receive data through suppliers



Communication networks
transmit data to remote users





Online portals

manage situations & shipments

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Container Security Devices (CSD)

Physical data monitoring

#### **Online Portal**

Generate visibility combined with external sources in one tool

AIS, Terminal provider, trucker, port authorities, carrier, etc)

#### In-transit visibility

Monitoring of mission critical parameters and notification of remote users in case of exception

#### In-transit intervention

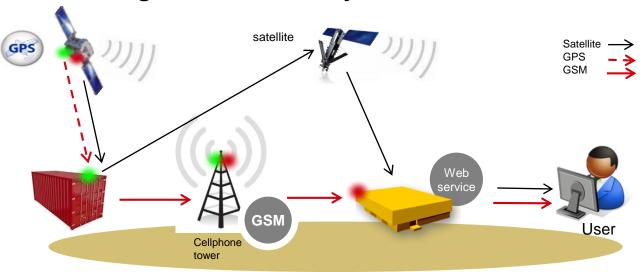
Execution of corrective or remedial action protocols prompted by in-transit alarms

#### **Standard operations**

Setup of improved processes through insights into door-to-door container conditions

## Information transfer

## Transmitting container data by satellite and/or GSM



	Satellite	GSM-GPS	GSM
Communication transfer by	Satellite	Mobile communications network (GSM)	Mobile communications network (GSM)
Navigation	Position obtained by signals of GPS	Position obtained by signals of GPS	From location of one or several cell phone towers

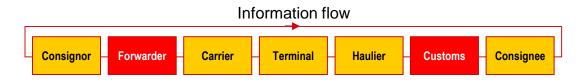
GPS= Global Positioning System; requires a direct line of sight from the container to several satellites for cross-referencing. GSM= Global System for Mobil Communications; less accurate than GPS but orientation on the approximate whereabouts of a container.

## DGF view on Cassandra

# Forwarders orchestrate the many actors and processes along door-to-door supply chains.

Utmost importance to collect shipment information from original source to avoid dublications of work

Increasing importance of good functional information flow between business and authorities to improve efficiency



Consolidation of existing business information and releasing it in good quality at the right time to the right person in charge is the key to satisfy our customers

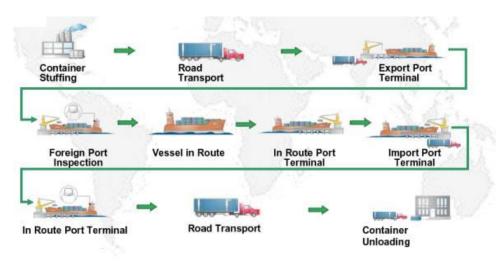
Continous development of supply chain processes, especially in terms of customs regulations is absolutely essential to decrease vulnerability and improve reliability



## Goals

# Conclusive and controlled flow of original data is leading to faster and more reliable clearance of containerized ocean freight.

Continuously harmonized processes guarantee an improved performance of all involved parties



Aim is a reduction of

Port congestions Transittime Costs

and improvement of

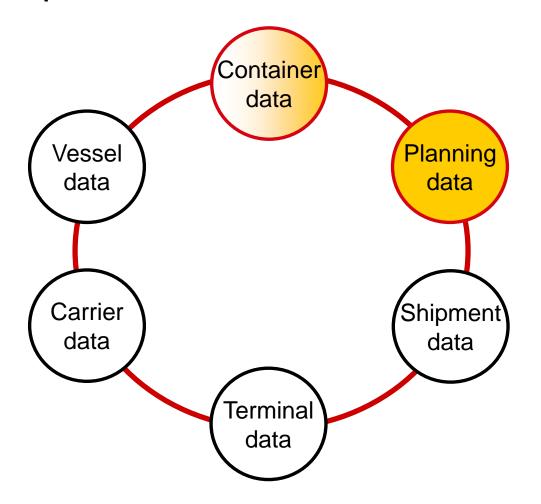
Reliability Performance Visibility

With nearly 3 million shipped containers in all kind of verticals and all trades globally, there's lots of valuable expertise to share with authorties to enhance processes



## From Business Data to Business Intelligence

Information from container devices and other sources need to be bundled and processed to translate raw information into situational awareness.





Life Sciences and Health



Technology and Electronics



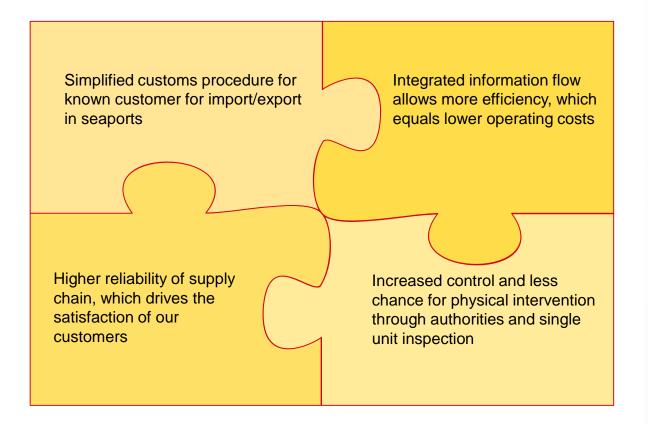
Automotive



Government and Defense



Optimized digital data flow will reduce transaction costs and increase quality for shipper, freight forwarder and authorities









## Experiences during this project

- Freight forwarder have the data sets available but not consolidated nor analyzed
- Data sharing is a critical topic and makes it difficult to find trial customers
- Very interesting to cross the silos and learn the different intersts of involved parties
- It will take more time to enroll a full scale product based on data sharing – but we are making good progress
- Data consolidation concepts, process maps & data standardization guidelines are the easy part – the devil is in the details

