Synchro-Net

Bordeaux, 6th of October, 2015
INTRODUCTION

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DHL is the global market leader in the logistics industry and “The logistics company for the world”.

DHL commits its expertise in international express, air and ocean freight, road and rail transportation, contract logistics and international mail services to its customers. A global network composed of more than 220 countries and territories and about 285,000 employees worldwide offers customers superior service quality and local knowledge to satisfy their supply chain requirements.

DHL
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• SYNCHRO-NET will demonstrate how a powerful and innovative SYNCHRO-modal supply chain eco-NET can identify and maximize the opportunities for slow steaming, using synchro-modality to ensure that service levels and economic factors are not compromised.

• SYNCHRO-NET will run: 05/2015 → 11/2018

• The topic: MG-6.2-2014, De-stressing the supply chain
SPECIFIC CHALLENGE

Overcome the stress caused due to

- Increasing transportation distances
- Higher complexity
- Vulnerability of supply chains

while enhancing

- Responsiveness and performance
- Quality and reliability
- Knowledge needed to plan seamless transports of goods

Better understanding is needed of the technological and operational opportunities that 'slow steaming' and synchro-modal operations and other relevant concepts provide.
The project will assess the added value and the impact in the Supply chain of:

- **Slow steaming**: development synchro-modal supply chain optimization module that considers smart steaming strategy
- **Advance information systems**: infrastructures, smart coordination, policies, different transport modes

Outputs will include: Specifications of technology, business models and governance structures

Technical, economic, political, social and organizational aspects will be considered

A profound benefit to sustainability is expected
OBJECTIVES

SYNCHRO-NET

25-30% increase in modal shift to rail and 12-15% reduction in truck kms

12-20% reduction in hinterland transport costs

Reduce emissions and costs for logistics operations

5-10% reduction in inventory levels of finished goods

Guarantee cost-effective robust solutions

Increasing reliability and service levels for logistics users

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PROJECT DESCRIPTION (impact)

Reduce operating costs of a company of liner shipping

Enhance logistics environmental performance and service levels, while reducing cost

Benefit to the intermodal freight charge transfer:
- Improved efficiency
- Facilitate switch from road transport to other transportation modes, with less negative externalities effects while improving usage of existing infrastructure
East-West Trade Lane Demonstrator

- **LOCATION:** Involving shipping of goods from the Far East to the ports of Valencia, Algeciras and Barcelona, subsequent movement by rail inland and final short truck movement (when necessary) to position the goods at their final destination or similar routes.

- **MAIN PARTNER:** CSSA

- **MAIN CONTENT:** test to validate and showcase the selected SYNCHRO-NET toolsets/services centered on the Port of Valencia, Algeciras and Barcelona

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Regional Demonstrator

- **LOCATION**: Cork, Ireland

- **MAIN PARTNER**: K+N

- **MAIN CONTENT**: These pilot tests are concerned with validating and showcasing the selected SYNCHRO-NET outputs in Ireland particularly focused on the final European ‘leg’ into the Port of Cork
Pan-European Demonstrator

- **LOCATION**: Athens (the tests will cover movements between several ports in Europe)

- **MAIN PARTNER**: K+N

- **MAIN CONTENT**: These pilot tests are concerned with validating and showcasing the selected demonstration of SYNCHRO-NET toolsets/services including container movements in major European routes.

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Main indicator success

East-West Trade Lane Demonstrator

Regional Demonstrator

Pan-European Demonstrator

IMPROVING LOGISTICS PERFORMANCE WHILE REDUCING CO2

Optimize last-mile operation and reduce logistics cost

Demonstrate reduction in inventory holding cost by using SYNCHRO-NET Eco-Net

Without affecting negatively supply chain stock strategies

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THANK YOU VERY MUCH!!