



Clusters 2.0

Clusters 2.0 towards a more cooperative logistics in Europe and beyond



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The current issues of inland transportation

SOCIAL RESPONSIBILITY

ECONOMIC EFFICIENCY

SUSTAINABILITY

CONGESTION

SERVICE

COST



HGV driver shortage is 'a ticking time bomb' for UK logistics sector, say MPs

13/01/2015

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The problems of recruiting younger people into the haulage industry, as a way of solving the driver shortage crisis, was revealed by a new report released by a UK Parliamentary group yesterday.

The all-party Parliamentary group for freight transport yesterday published Barriers to Youth

Employment in the Freight Transport Sector, its final report before the country votes in a general election in May, after which the group could comprise different personnel.



ROAD TRANSPORTATION HAS 3X MORE CO2 EMISSIONS THAN RAIL

THE COST OF CONGESTION IS ESTIMATED AT 1.0% OF THE GDP OR €170 BILLION

420.000 TRUCK DRIVERS ARE NEEDED IN THE EU 28 BY 2020

ROAD IS 15% MORE EXPENSIVE THAN RAIL / 57% INEFFICIENCY / 15% EASILY SOLVABLE VIA COLLABORATION.

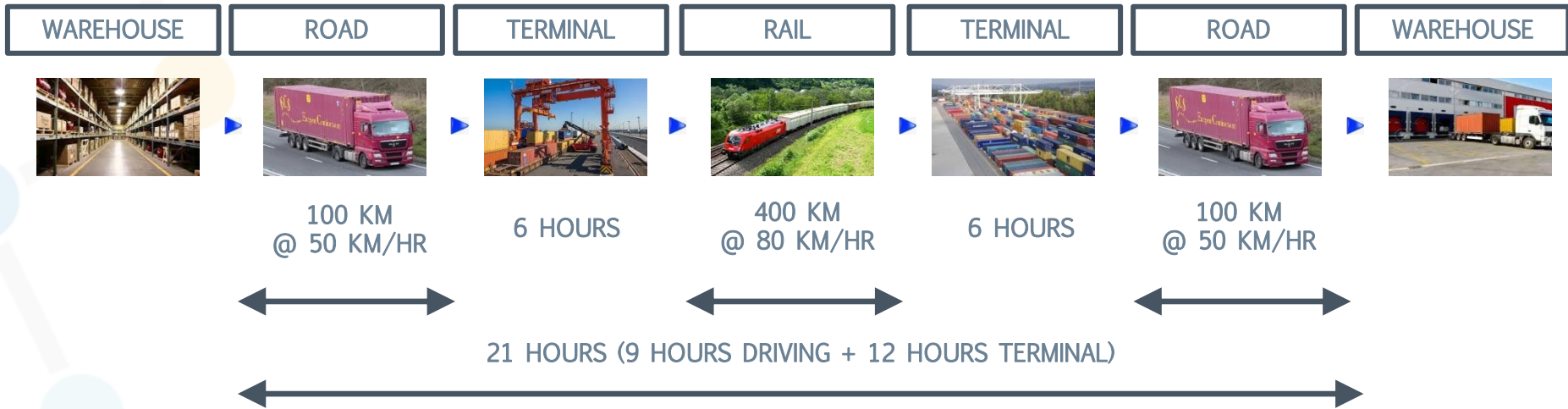
COMPANIES WILL TAKE SOCIAL RESPONSIBILITY IF SUPPORTED BY ECONOMICALLY EFFICIENT MEASURES

Intermodality as a solution

FROM ROAD TRANSPORTATION



TO INTERMODAL TRANSPORTATION



ROAD IS 15 % MORE EXPENSIVE

3X LESS CO2 EMISSIONS

SOLUTION FOR TRUCK DRIVER SHORTAGE

Why does intermodality not take off?

NOT ENOUGH
CONNECTIVITY



NOT ENOUGH
VOLUME



NOT ENOUGH
FREQUENCY



HIGH COSTS



LONG LEAD TIMES



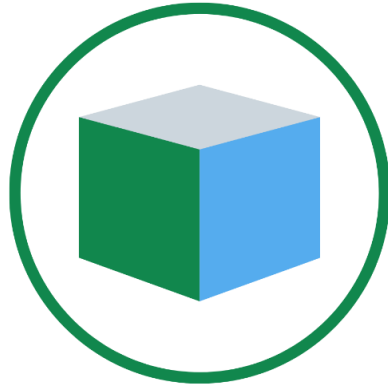


Clusters 2.0

Clusters 2.0. Vision is to leverage the full potential of **European Logistics Clusters** for a sustainable, efficient and fully integrated **transport** system:

- making optimal use of an **Open Network of Logistics Clusters**;
 - enhance and advance towards a **better co-ordination between logistics actors in clusters**;
 - and to **improve co-ordination and connectivity between European logistics clusters**.
- Vídeo: https://www.youtube.com/watch?v=0_FmKfWGmXI

Clusters 2.0 main solutions



NMLU



SlotBooking



Massification



CLuCS

CluCS - Cluster Community System

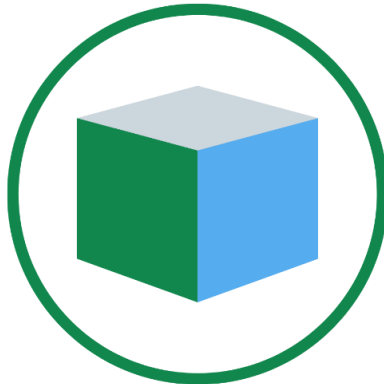


CLuCS

CLuCS - Cluster Logistics Community System is an IT platform supporting the governance of the **Proximity Terminal Network (PTN)**. It manages the information related to cargo flows and assets within the nodes of the PTN and the surrounding supraregional Cluster. It **coordinates the management of multiple hubs**, thus linking the Cluster to different TEN-T corridors.



CLUSTERS 2.0 main solutions: NMLU



NMLU

New Modular Loading Units (NMLU) is the Clusters 2.0 solution providing a new Modular Load Unit at sub-container level with automated handling equipment. It addresses global handling inefficiencies and poor utilization of storage space in warehouses and terminals.

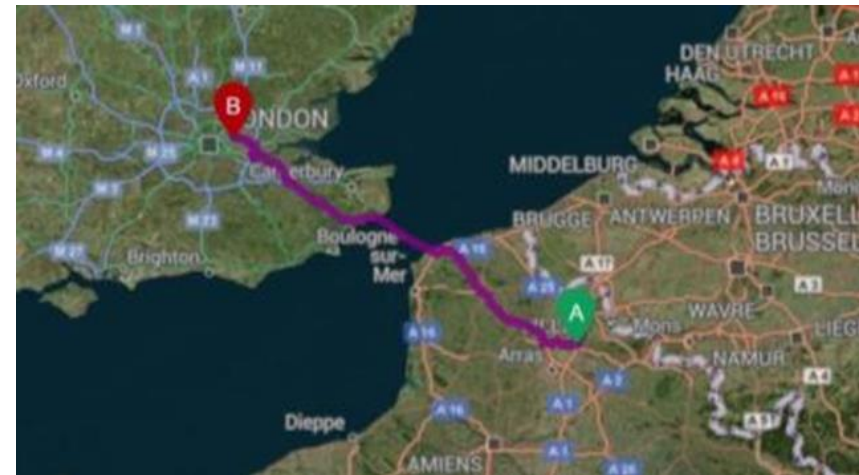
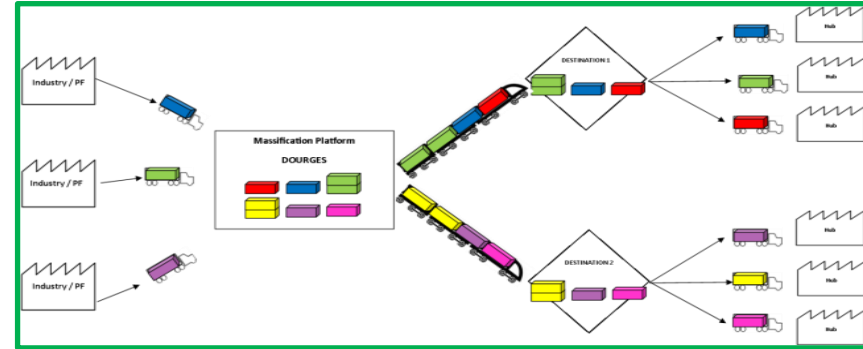


Massification project



Massification

It develops a new collaborative methodology supporting a group of shippers to bundle their goods on a same train towards one destination. The “massification” concept into a logistics organization aims to bundle goods on the same transport mode with a capacity. It is relevant to trial the concept on the railway as the “massified transport mode”.



The initial pilot was the Dourges (France) – UK corridor as initial pilot.

Slot Booking App



SlotBooking

SlotBooking App is an IT solution facilitating the process of freight delivery and pick up in an airport. It reduces waiting times, costs and CO2 emissions of logistics operations.



Smoothen the process of freight delivery at the GHA's facilities



Eliminate waiting times (peaks) and idle times



Optimize personnel planning



Central community approach



Transparency

Summary

- › **IT can be an enabler to establish and facilitate collaboration**
- › **New approach on D2D/Network level rather than geographically centred**
 - **Adding horizontal collaboration to the clustering concept**
 - **Addressing collaboration on local level (within clusters) linked with network wide community approach**
- › **Include technological developments such as NMLU and related transshipment technology towards automatization of transshipment processes**

CLUSTERS 2.0 a toolbox for future logistics!

Fact sheet

Overall project budget: 6,329,618.75 €

Maximum grant: 5,998,743.75 €

Running: May 1, 2017 - April 30, 2020





Thank you for your attention!

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