



Hubs in Ecofriendly Transport Solutions

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Hubs in Ecofriendly Transport Solutions



- Ecofriendly Transport Solutions
- Intermodal Transport
- Hubs in intermodal industry
- Eco-Hubs



Ecofriendly Transport Solutions

KPIs of a modern Transport Solution:

- At a proper Cost
- In a proper Time
- In a proper Shape
- In a proper Quantity
- With a proper Information Flow
- **With a proper Eco Footprint**

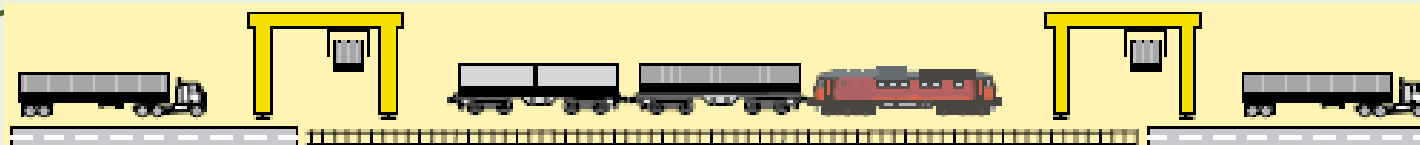
Public Support for Ecofriendly Transport



- MDCR Programme for CT equipment of 2009
- Maximum permitted weights and dimensions on the road
- Incentives (tax, driving bans, financial aid)
- Motorways network and user fee (tolls)
- Marco Polo Programme of the EC (support for non-road transport)
- EC White Paper on Transport

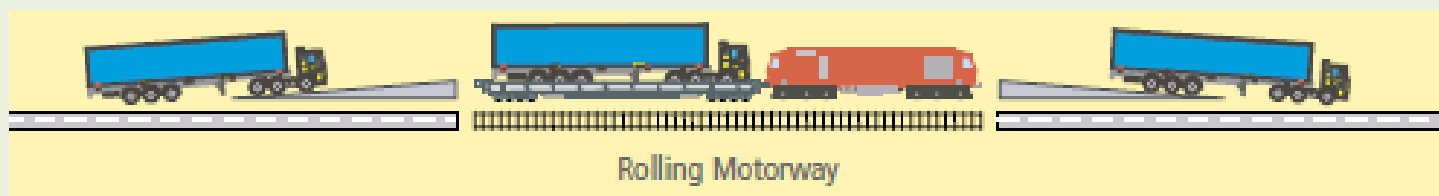


Intermodal Transport



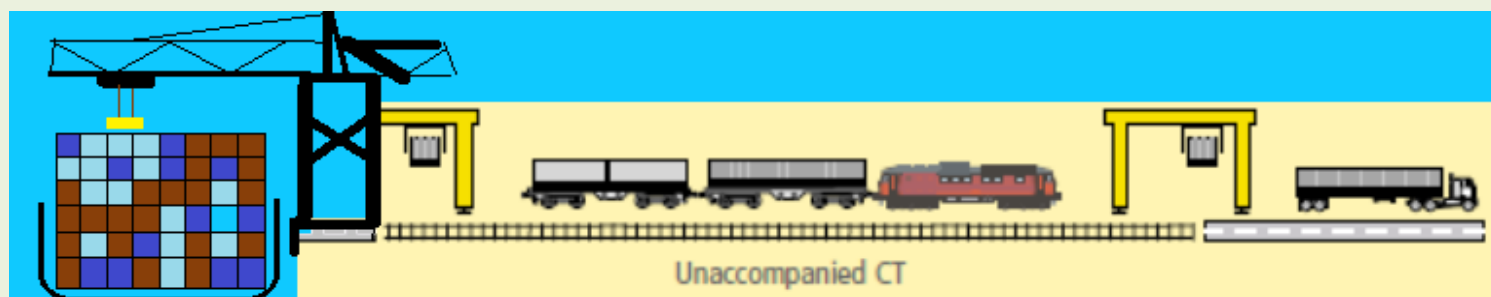
Unaccompanied CT

Intermodal Transport Units on Intermodal Train



Rolling Motorway

Road Vehicules on Rolling Motorway



Unaccompanied CT



Hubs in Intermodal Industry



Port Container Terminals

Yangshan, Shanghai, China



Hubs in Intermodal Industry



Inland Container Terminals

Ljubljana, Slovenia



Hubs in Intermodal Industry



Shunting Yards

Maschen, Germany

EcoHubs



What defines an **EcoHub**?

- **Network** (frequent connections)
- **Information** (information exchange systems with all stakeholders)
- **Terminal Performance** (Service Efficiency, Eco efficiency)

EcoHubs



- How to define an service efficient Hub?
- How to define an eco efficient Hub?
- How to define service and eco efficient hub?

Service Efficiency



- Sufficient Terminal Capacity
- Availability of Resources
- Low Costs
- Zero waiting time
- Maximum flexibility

We are saving time and money!

But, is this Hub Ecoefficient as well?



Eco Efficiency



- Low Energy consumption
- Use of green Energy
- Low GHG Emissions
- No empty moves of the terminal equipment
- No collateral Pollution

} Requires collaborative planning

We save Time and Money and **Environment**

Service and Eco Efficiency



It is essential to merge these two Parameters and plan the operations with both in mind.

Therefore we need an effective and universal measurement System.

And we need the Selection of Recommendations → Measures. For Hubs planned to be built in the future and Improvements for existing ones.

FP7 Project: EcoHubs deliverables



- Recongnition of Hubs and publishing of List of Hub Services in a eCatalogue
 - Dynamic Chains
- Enabling Integration of EcoHubs in efficient Networks
- CO₂ Calculator for Hubs
- Benchmarking & Best Practise
- Stakeholder Training

Thank you for Attention!



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