



Go Green – New Services - DHL Solutions

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Hellenic Telecommunication & Post Commission Forum, Athens, April 21, 2010



DP DHL Group's Climate Protection program







Transport Sector, 14% or Global CO2 emissions



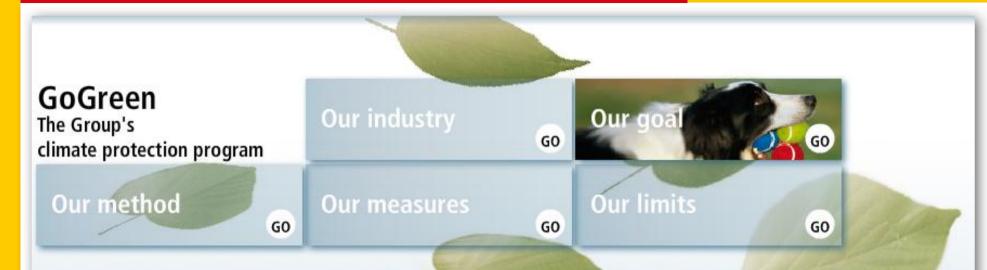


economic growth and the increase in world trade. However, growth in industries and services comes at the cost of rising greenhouse gas emissions, which are seen as the prime cause for global warming. With a share of 14 percent in global carbon emissions, the transport sector – and thus the logistics industry – has a special responsibility in the global battle against climate change.



2010: -30 % CO2 emission, 2012: -10 %





With annual revenue of more than 54 billion euros and over 500,000 employees in more than 220 countries and territories, Deutsche Post DHL is the No. 1 player in the logistics industry. As the leading logistics company we are prepared to be at the forefront in the global effort to cut greenhouse gas emissions. We therefore aim to improve efficiency in regard to the carbon emissions of our own as well as our subcontractors' operations by 30 percent by 2020. That means we will reduce the carbon footprint of every letter or parcel we ship and every square meter we use by almost one-third. As a first step, we are striving to improve carbon efficiency of our own operations by 10 percent by 2012.

> More information



Assessing, reducing and offsetting



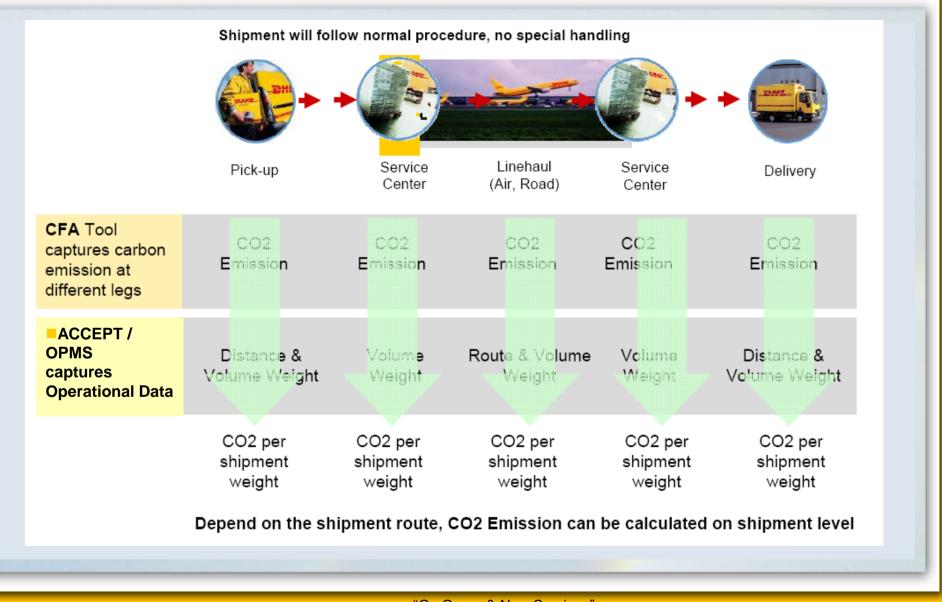


At the core of our GoGreen Program is a three-pronged method of assessing, reducing and offsetting. In order to reach our own targets we will assess the carbon emissions throughout our operations on a regular basis and introduce a variety of measures to reduce them. In addition, we are offering our customers the option to offset the carbon emissions caused by the transportation of their goods. To ensure transparency and credibility we will report on the progress we make toward reaching our targets on a regular basis.

> More information



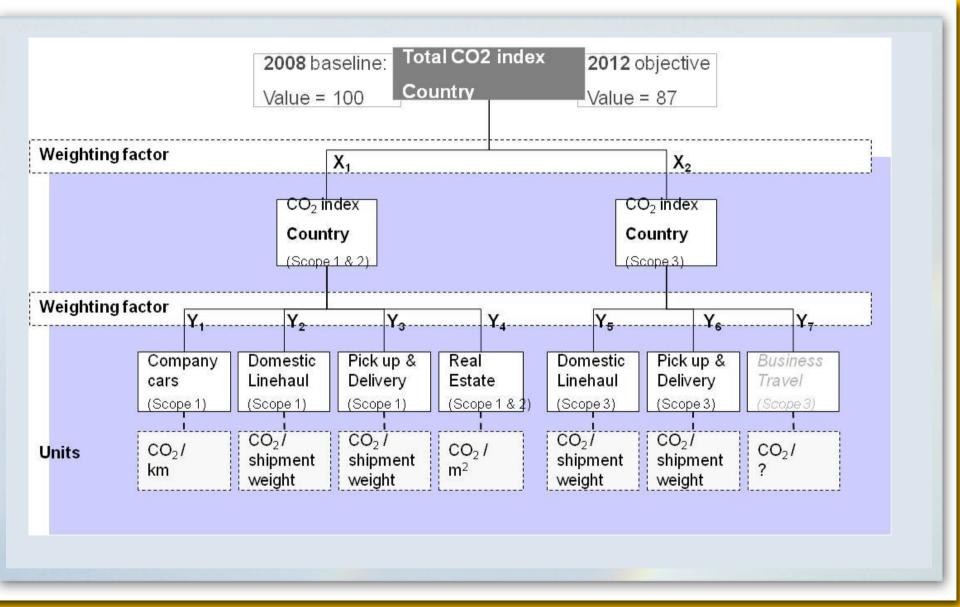






KPI's





Deutsche Post **World Net**

Sharing Responsibility





Since the Group's long-term carbon efficiency target includes subcontractors, Deutsche Post DHL will develop methods to assess those emissions and identify measures to reduce carbon emissions. As part of the GoGreen Program, the Group will also expand its GoGreen product and services range. Deutsche Post DHL was the first logistics company to offer customers the option to send their shipments in a carbon-neutral way.

> More information



Fleet Optimization





Deutsche Post DHL relies on using measures of transportation such as airplanes, trucks and ships, which use fossil fuels and are responsible for the lion's share of the Group's carbon dioxide emissions. To help reduce those emissions, Deutsche Post DHL will gradually replace its air and ground fleets. The Group also counts on a partial shift of transportation from air to ocean, road and rail to help lower carbon emissions.

> More information

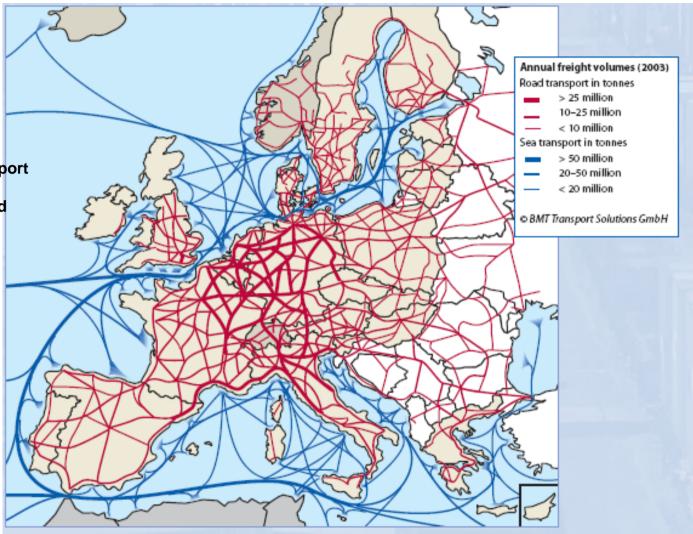


New Highways



- Better use of Tr. Resources
- Short-sea shipping 41% tn-km moved in EU
- Road Transport 45%
- Short-sea has not seen a rise in congestion similar to road transport
- Longer trips within EU rail, inland waterway short-sea shipping are more effective alternatives
 - More fuel-efficient
 - Less labor-intensive
 - Congestion free
- Parallel sea lanes to motorways

■ Short-sea shipping service → frequent, high-quality, door2door transport services





Transportation System, Characteristics & Trends



Models to be used trying to Re Shape the Supply chain from linear to Dynamic

- Trip Generation, Trip distribution,
- route choice, Link performance analysis,
- revenue and cost model.

Advanced information Technology systems

The Fast and secure movement of goods and the continuously change of their status could be managed only

.... by exploiting theirs information for each moments (metadata)

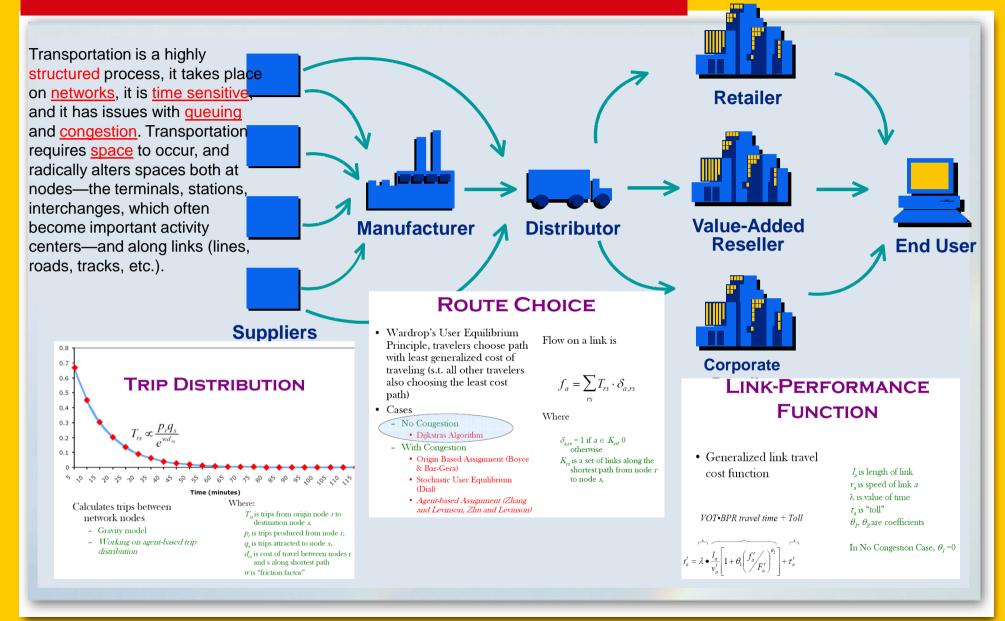
The management of this logical model could be realized only by a set of dynamic and advanced information systems and Telecoms

The Value of information is the same as the value of the transportation itself



Transition from Linear Supply Chain...

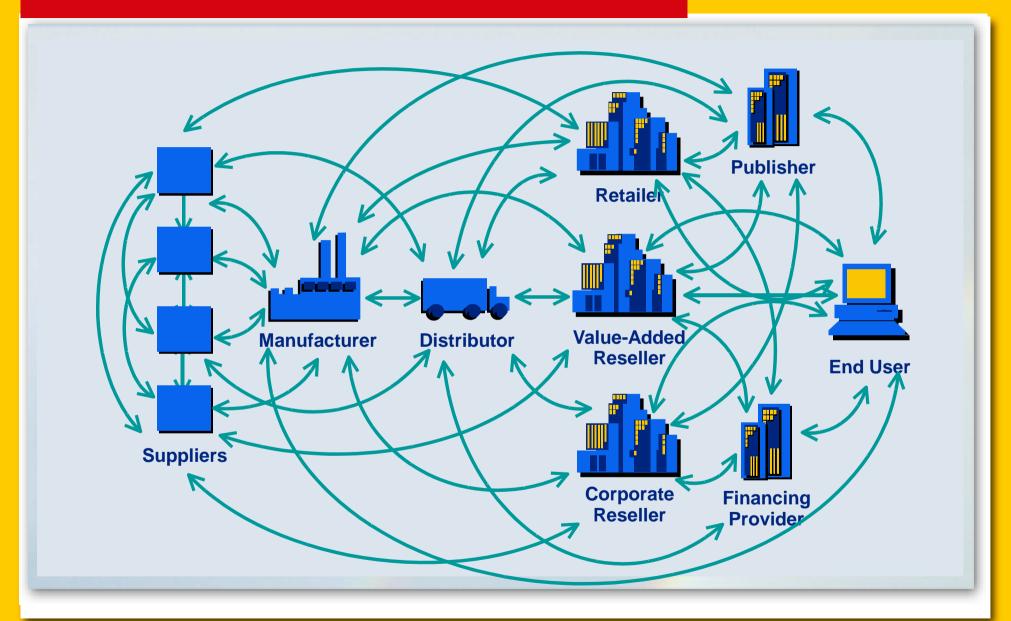






Dynamic Supply Chain Networks







Energy Efficiency





As part of its carbon footprint assessment, Deutsche Post DHL will thoroughly examine the energy efficiency of real estate assets from warehouses and sorting centers to hubs and retail outlets. The Group will reduce the impact of its buildings by installing more efficient lighting and optimizing the heating and cooling systems of its existing buildings. In new buildings Deutsche Post DHL uses technical innovations to increase energy efficiency.

> More information

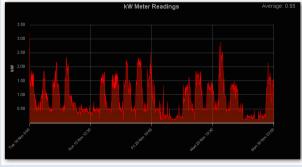




Measuring Energy

Carbon Consumption





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MAIL EXPRESS LOGISTICS FINANCE

Innovative Technology





Deutsche Post DHL is the only company in the logistics industry that has bundled its innovation activities in a research center aimed at developing highly innovative products based on logistics trends of the future. With its thorough route planning and telematic solutions, the DHL Innovation Center will help raise the efficiency of the Group's fleet and offer resource-saving solutions to customers.



Technology



Dynamic Routing

- Trip Generation, Trip distribution,
- route choice, Link performance analysis
- **RFID (Radio Frequency Identification)**
 - Smart Sensor
 - Bulk Reading,

Telematic

- e signature
- e billing
- e trading



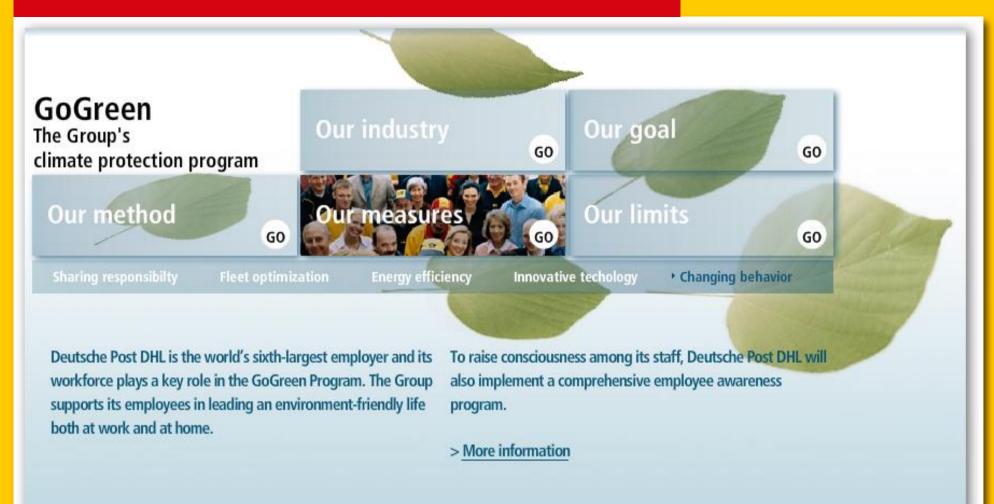
RFID gates in the DHL Freight Distribution Center in Cologne





Changing Behavior







Our Limits





to fight global warming and thus depend on governments, the companies we do business with and technological progress to meet our goals.







... Thank you !

