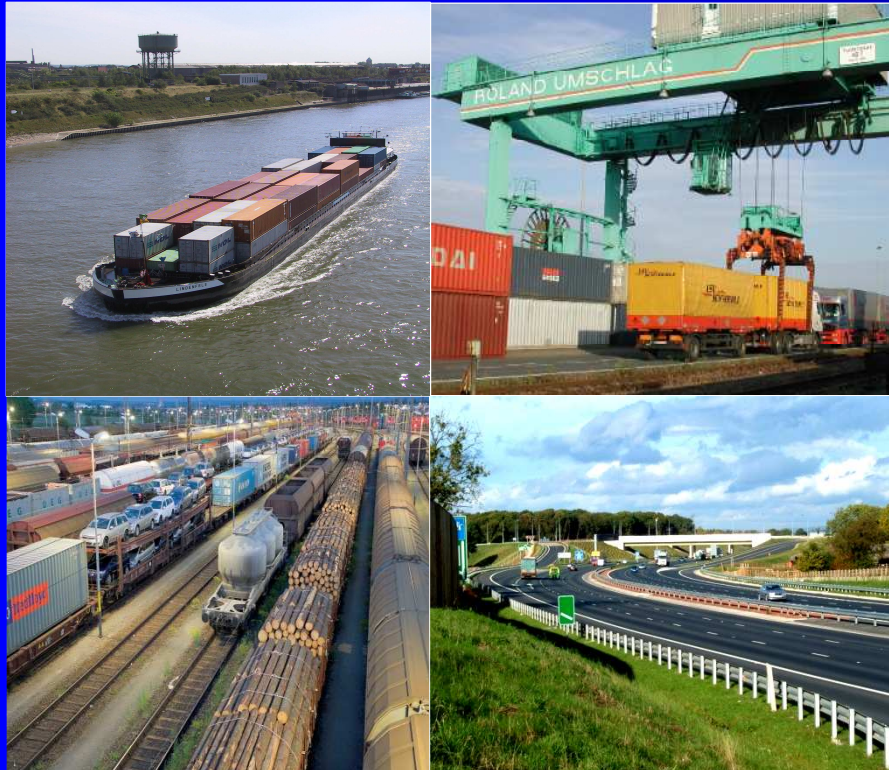




# SUPPLY CHAIN AND LOGISTICS IMPLICATIONS FOR TRANSPORT

Logistics challenges and implications for transport,  
particularly intermodal transport



Inland Transport Committee  
24-26 February 2009

Progress report  
by  
Working Party on Intermodal  
Transport and Logistics  
(WP.24)

# UNECE, WP.24 ...and logistics

## Work programme of WP.24

In 2006 inclusion of new work element from (former) ECMT Working Group on Intermodal Transport:

“Analysis of modern **transport chains** and **logistics**... providing a rational basis for **Governmental decisions** on transport demand [and] **modal choice** ...”

## Implementation ?

(competence, mandate, value-added, client-oriented)

# UNECE, WP.24 ...and logistics

- **Supply chain management and logistics**
  - of growing importance for competitiveness of economies
  - require reliable, flexible, fast and efficient transport
  - impact on transport demand, quality and land use
  - determine modal and inter-modal choices
- **Transport policies must respond**
  - at national level
  - at international level
- **UNECE and WP.24 provide a forum**
  - to exchange of information and best practices
  - to review of concepts and indicators (f.i. to measure logistics)
  - with expertise on regulatory and capacity building policies
  - at inter-governmental, pan-European level

# **“Virtual” Expert Group of WP.24**

- **WP.24 requested Expert Group**
  - to structure the past considerations of WP.24 on supply chain management and logistics
  - Identify measures for inter-governmental action
- **Expert Group prepared a note on**
  - concept of logistics and supply chains
  - impact on freight and intermodal transport
  - role and areas of Governmental action
  - examples of Governmental initiatives
  - proposals for future WP.24 activities

Summary of this note: **ITC Informal document No.11 (EFR)**  
(full report: ECE/TRANS/WP.24/2008/4)

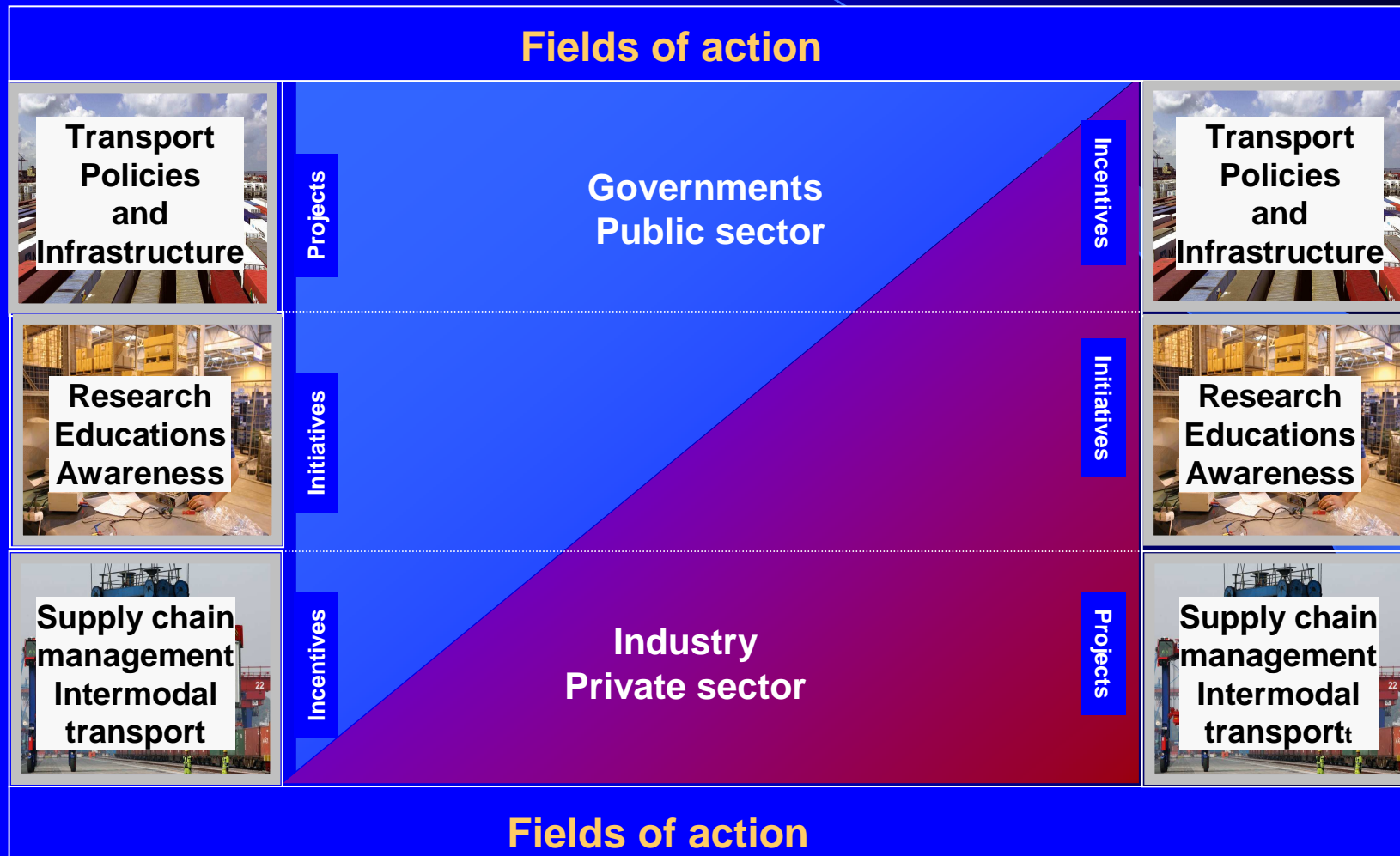
# Logistics and intermodal transport

- **Logistics** (8-14% of GDP and 10-30% of value of consumer goods)
  - Process of designing and managing the supply chain
  - From supply to manufacturing to final distribution
  - Providing goods at least cost at place and time required by customers
- **Inland freight transport** (25-30% of logistics costs)
  - Essential part of logistics and supply chains Decreasing importance (relative to logistics cost)
  - Quality challenge (reliable, flexible, fast, transparent, sustainable,... + cheap)
  - Bottleneck challenge (congestion road/ rail, port hinterland, urban areas)
- **Design and management of freight transport**  
*(Freight transport logistics)*
  - Planning, organization, control and execution of freight transport within (often global) supply chains
  - Intermodal transport provides flexibility for supply chain manager
  - Critical factors: Capacity (consolidation, transshipment)
- **WP.24 focus:**  
**Analysis of transport aspects of supply chains and logistics and its impact on modal choice and intermodal transport**

# Role of Governments in logistics and intermodal transport

- **Primarily a business activity**
  - Supply chain management
  - Organization of freight transport
  - Planning and operation of intermodal transport
  - Construction and operation of terminals (distribution)
- **Governments play a complementary role**
  - **Transport policies**  
(level playing field among actors and modes, safety, land use, sustainability, security, etc.)
  - **Transport infrastructure**  
(networks, terminals, etc.)
  - **Research, education and awareness**  
(ITS, professional training, public perception, etc.)

# Role of Governments in freight and intermodal transport



Source: Adapted from German Masterplan

# Role of Governments in the design and management of intermodal transport

- **Activities at national level**
  - Masterplans on freight transport and logistics
  - Logistics plans, network design, strategic land-use planning
- **Activities at sub-regional level**
  - Freight Logistics Action Plan (European Commission)  
(e-freight, ITS, training, benchmarking/best practices, documentation, liability, dimensions, green and urban transport corridors)
- **Activities at UNECE level**
  - International policy and regulatory measures
  - International transport infrastructure and performance
  - Exchange of policy information and best practices



# Role of UNECE in the design and management of intermodal transport

- **International policy and regulatory measures**
  - **Monitoring and analysis of national measures to promote intermodal transport**
    - Survey of Government policies
    - Policy check-list or tool-box (pros and cons)
  - **Logistics “Model” Action Plans and Partnership Agreements**
    - Review of existing “models”
    - Insertion of logistical requirements and benchmarks
    - Insertion into AGTC and its Protocol on IWT
  - **Civil liability regime for pan-European intermodal transport**
    - Analysis of UNCITRAL convention
    - Review of alternative solutions (focus: European land transport)
  - **Logistics indicators and statistics**
    - Review of public and private intermodal transport statistics
    - Contributions to development of logistics indicators

# Role of UNECE in the design and management of intermodal transport

- **International transport infrastructure and performance measures**
  - **Review of existing AGTC infrastructure and performance standards**
    - Identification of interoperability standards and benchmarks
    - Revision and/or addition of minimum standards into AGTC
  - **Optimization of transshipment and logistical procedures**
    - Procedures for optimum location (land-use planning)
    - Criteria for efficient construction and operation procedures
    - Adequate PPP procedures (best practices) ?
  - **Improvements in port hinterland transport**
    - Identification of capacity challenges (DIOMIS, etc,)
    - Insertion of minimum infrastructure and performance standards into AGTC, AGC and AGR

# Role of UNECE in the design and management of intermodal transport

- **Exchange of information and best practices**  
(research, education, awareness-raising)
  - Concepts, design, weights and dimensions of intermodal loading (transport) units
    - Monitoring by UNECE secretariat
  - Experiences in preparation and implementation of national logistics action or master plans
    - Exchange of best practices
  - Intelligent transport systems (ITS)
    - Monitoring of such systems by secretariat
    - Preparation of compendium of such services

# **Procedure: Adoption of a revised work programme**

- **Review of expert group proposals**  
(March 2009 – WP.24)
- **Adoption of new work programme proposals**  
(October 2009 – WP.24)
- **Approval of revised work programme**  
(February 2010 – Inland Transport Committee)

# **WP.24 and ECMT documentation “Logistics and intermodal transport”**

## **Official documentation:**

**2008:** ECE/TRANS/WP.24/2008/4  
ECE/TRANS/WP.24/2008/1  
**2007:** ECE/TRANS/WP.24/2007/3  
**2004:** CEMT/CS/TIL(2004)9  
**2003:** CEMT/CS/COMB(2003)4  
**1994:** TRANS/WP.24/R.64  
**1993:** TRANS/WP24/R.53

## **Recent reports of WP.24:**

**ECE/TRANS/WP.24/119**  
**ECE/TRANS/WP.24/117**  
**ECE/TRANS/WP.24/115**

...

**and informal notes and documents by UNECE and ECMT**



[www.unece.org/trans/wp24](http://www.unece.org/trans/wp24)

