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# Perspectives of chemical logistics cooperation in Central and Eastern Europe

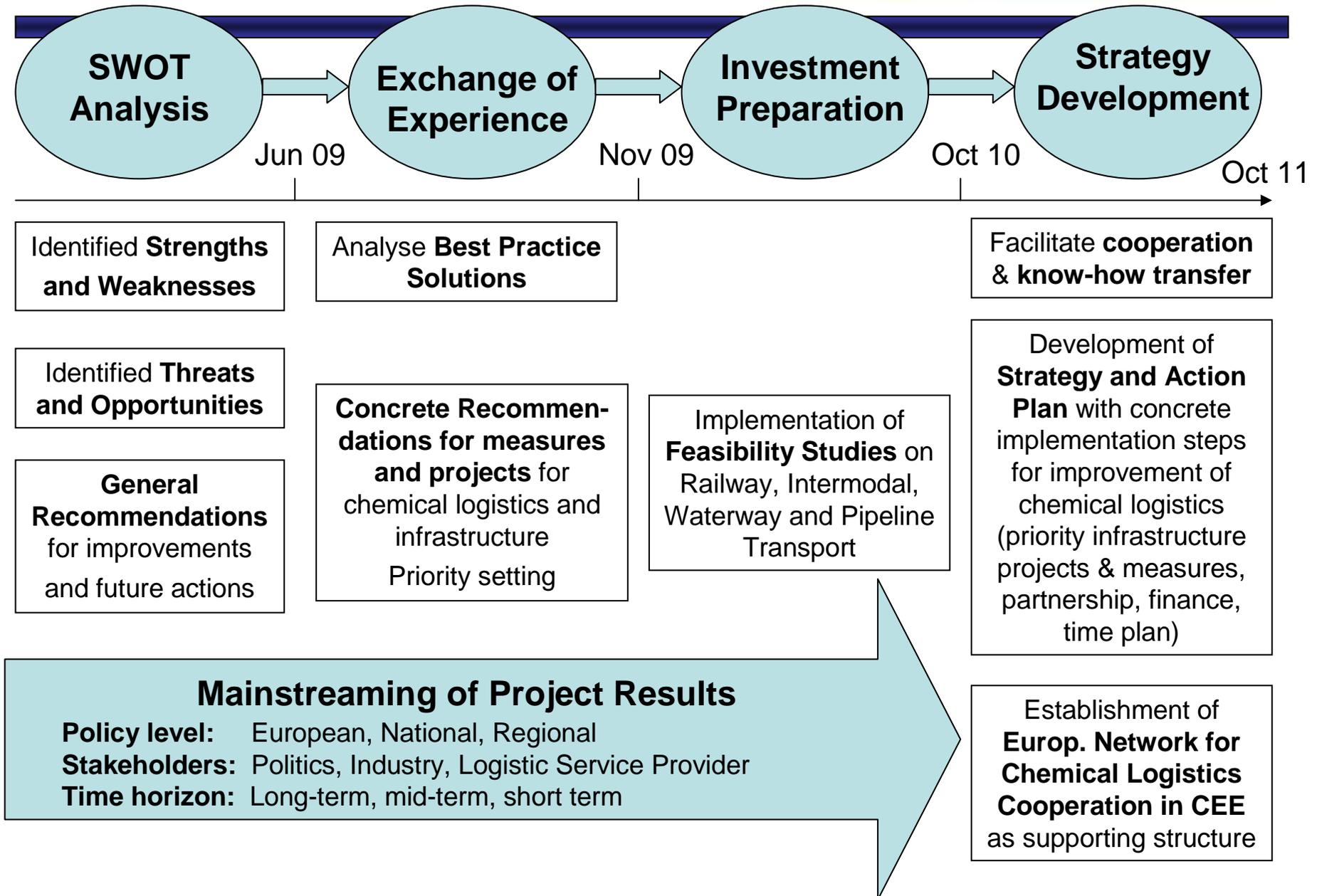
**Mainstreaming of project results to  
European Policy Process –  
ChemLog Strategy and Action Plan**

31 August 2011, Decin

[www.chemlog.info](http://www.chemlog.info)

## ChemLog and the High Level Group

- Idea for ChemLog Cooperation was born during HLG discussion
- Need for improvement of logistics in CEE was recognised by HLG
- Successful development of Interreg project with broad partnership from Central and Eastern Europe from 2008-2011
- Regional Contribution to implementation of HLG recommendations
  - improvement of transport policies,
  - development of priority infrastructure,
  - removal of bottlenecks,
  - improvement of framework conditions
- Integration of results into HLG Follow up process and EU policies (e.g. White Paper Transport, EU2020, EU-Russia)
- Ensure sustainable cooperation of involved stakeholders from industry, science and politics in the future



## Mainstreaming and Strategy Development

- Mainstreaming Strategy Paper – Identify relevant policies and ChemLog Contribution (TEN-T, Pan-European Corridors, Logistic Action Plan)
- Contacts to national Ministries, other relevant stakeholders (European Institutions, Interest Representation, Regions)
- First Meeting of Policy Advisory Group in Brussels 5 November 2009
- ChemLog Policy Advisory Group in Moscow 21 June 2010
- Position Paper ChemLog – Russia – Follow up Meeting in Dobra (Slovakia/Ukraine/Hungary) 22-24 June 2011
- Policy Advisory Group Brussels 20 May 2011

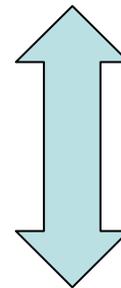
## Joint Strategy

- General Objectives / Joint Positions
- Improvement of policies and framework conditions
- Involvement of decision makers



## CEE ChemLog Network

- Sustainable European cooperation
- Development of joint positions articulate joint interest
- Coordinate regional networks and implementation of action plans



## Regional Action Plan

- Concrete implementation of projects and measures (Follow up from Feasibility Studies)
- Responsibilities, Funding, Timeline
- Create new infrastructure, establish new cooperation



## Regional ChemLog Networks

- Sustainable regional cooperation
- Involvement of relevant stakeholders
- Development and implementation of action plan

## ChemLog Joint Strategy

- Improvement of intermodal transport
- Development of Terminals for Inter-Modal Transport
- Improvement of transport infrastructure alongside PEC
- Improvement of inland waterway transport
- Development of a pan-European Pipeline network
- Improving chemical logistics from EU to Russia
- Better coordination of Pan-European infrastructure projects
- Development of innovative financing models, better and coordinated use of SF
- Better organisation of subsequent transport
- Harmonization of standards
- Improving safety and reliability of chemical transport
- Implementation of Emergency Response and Crisis Mgmt Systems for the Chemical Industry
- Initiating Know How and technology transfer
- Strengthen cooperation of stakeholders at regional and European level

# HIGH LEVEL GROUP Northern and Central Axis



**Multimodal axes \***

- Trans-national axis
- - - Axes towards other countries
- Inland waterway axis
- Motorways of the sea
- ★ Motorways of the sea ports

**TEN-T network**

- TEN-T Road
- TEN-T Railway
- TEN-T Inland waterway

**TEN-T priority axes**

- Road priority axis
- Railway priority axis
- Inland waterway priority axis

**Priority project numbers**

- Road project
- Railway project
- Logistic centre project
- Inland waterway project

**ChemLog**

- main target market
- transport corridor
- short sea
- ○ important location

\* To be reviewed and updated in 2010  
Cartography DG TREN 01/12/2006

## **WP4 Feasibility Studies**

**Germany:** Intermodal Transport from Central Germany to CEE – Central Axis PEC2 Berlin - Moscow

**Poland** - Cross-border gas pipeline for improving logistics in CEE

**CZ:** Intermodal Transport in Central and Eastern Europe

**Usti:** Waterway Transport Elbe River

**Slovakia:** Transnational Railway Transport from Slovakia to Central Europe

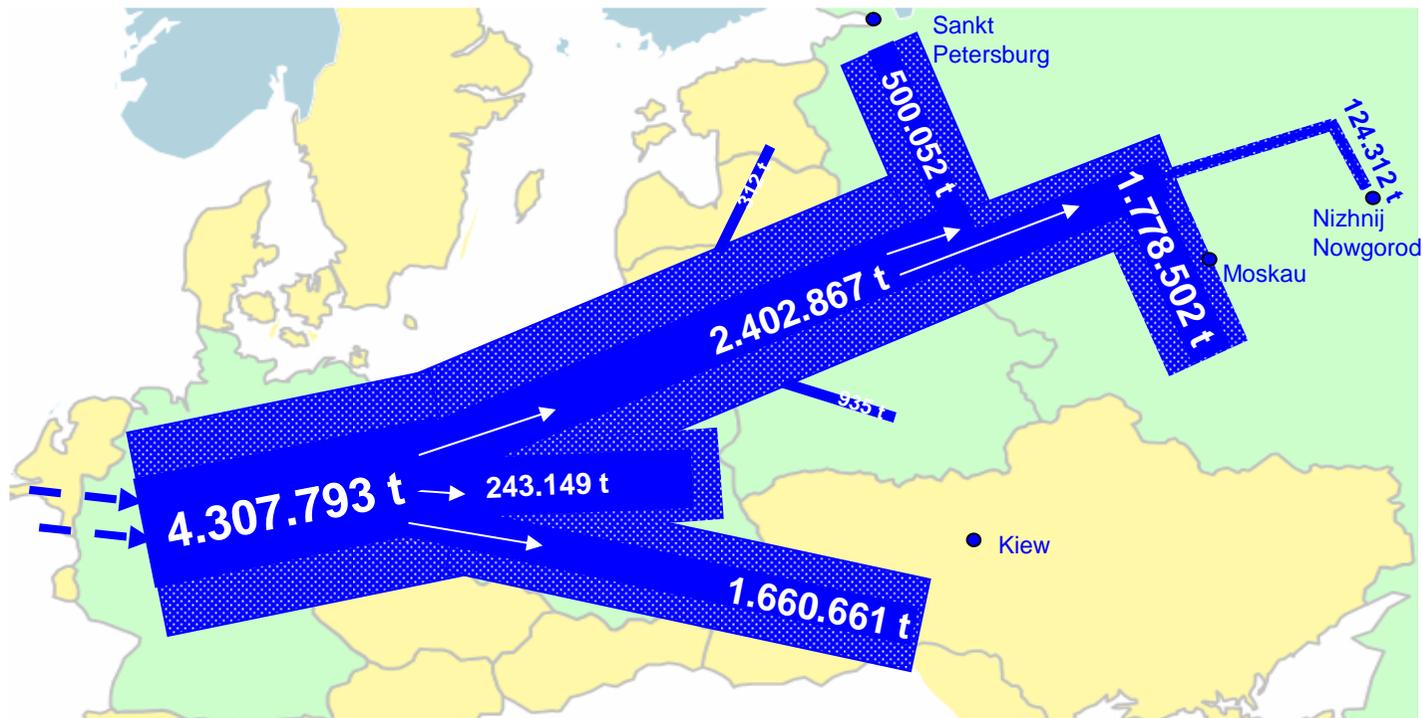
**Italy:** Intermodal Centers in Novara with connection to Eastern Europe – Corridor 5

**Hungary:** Transnational Railway Transport - Focus on Connection Hungary to Russia – Corridor 5

**Austria:** Evaluation of the Danube Axis as multimodal transportation corridor for chemical industry

## Definition of freight flows from Feasibility Study on PEC II

Evaluation of the der long-term shifting potential from road to rail according to interviews (in t, 2025)



Expected increase of potentials in export (long-term perspective)

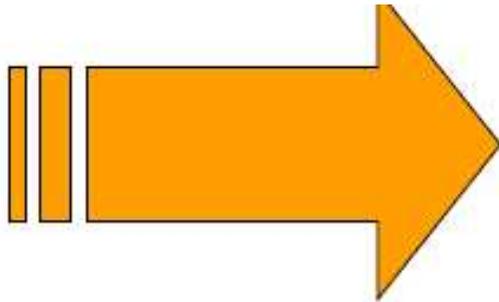
- To Russia/Ukraine up to 350%
- To Poland and Belorus up to 150%

total 330%

## Development of European Network of Cleaning Stations alongside PEC V



## Development cross – border gas pipeline connections



Solution to identified problems is construction of new cross-border pipeline connection (interconnector) between Poland and one of neighbouring countries.

Preferable solutions for interconnector realization:

- for connection with Germany:
  - pipeline Bernau/Bornicke–Włodowo (L=130 km),
  - pipeline Angermunde (Opal)–Włodowo (L=90 km),
- for connection with Czech Republic:
  - pipeline Breclav – Obrowiec (L=240 km),
- for connection with Slovakia:
  - pipeline Velke Kapusany–Strachocina (L=170 km).



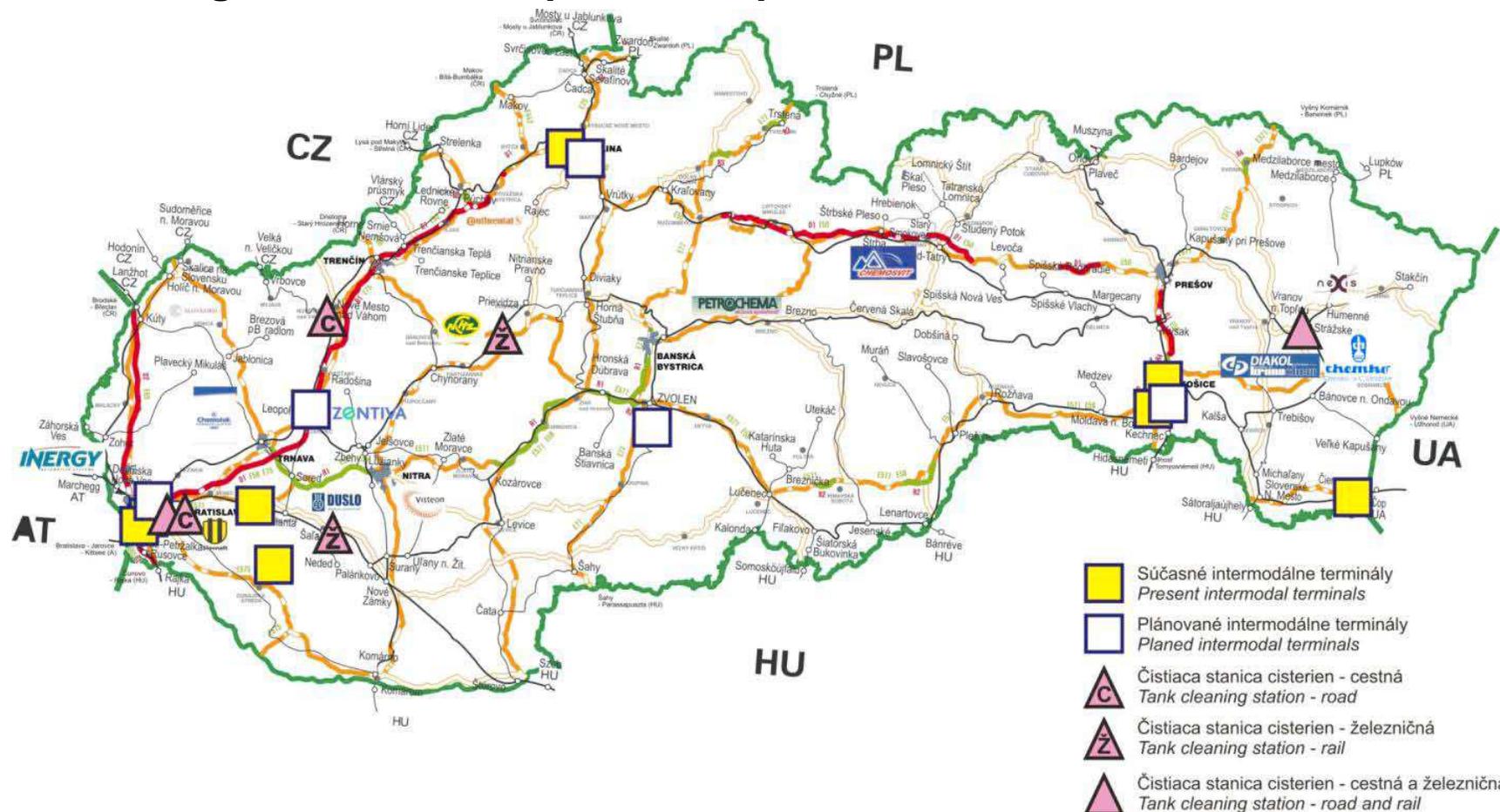
(Map source: <http://www.entsog.eu/>)

Estimated investments between 97 – 252 mio. Euro

# Road – Rail network

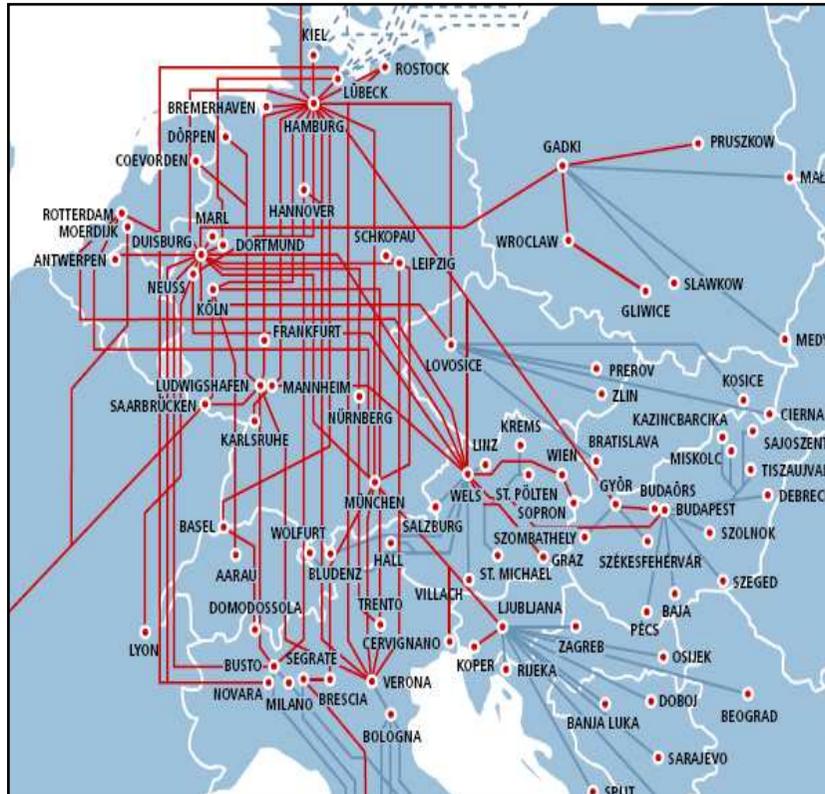
## Development of intermodal terminals in Slovakia

### Better integration into European transport network



## Outputs from Czech feasibility study

It is necessary to develop the combined transport, especially the network, services, equipment of the terminals and subsequent transports of the chemical goods



- **Combined transport network**  
Differences - continental transports versus transports from the ports, western versus eastern Europe
- **Combined transport terminals**  
**Equipment/services** – vessels in case of leakage, containers for warming up, equipment for recuperation of chemicals, container cleaning etc  
Personnel– has to be well educated for handling with chemicals
- **Subsequent transport**  
ADR/RID legislation – training  
Personnel – has to be well educated for handling with chemicals

# Děčín water dam

- improvement of navigability conditions on Elbe
- EIA documentation was presented to the Ministry of Environment on 24/8/2010
- estimated overall construction costs – approx. 191 mil. EUR
- Discuss environmental impact with Saxony



Fig. Current situation and visualization of Děčín water dam

## Improvement of Danube waterway and intermodal transport

### Inland Waterway – Existing Infrastructure

- ▶ Length of Danube Waterway in Austria : ca. 350 (total: 3500 km)
- ▶ Fluctuation of water level: 7 m (range), 10 watergates
- ▶ Share of transport volume of CI: 1% - 100,000 t
- ▶ Improve infrastructure and capacities of terminals for handling of dangerous goods



## Cooperation with Russia and Ukraine

- Workshop in Moscow with Russian Stakeholders on 21/22 June to initiate discussion and exchange of experience on topics:
- **Russian Chemist Union:** Responsible Care, Emergency Response Systems
- **LSP:** Subsequent Transport, Bundling Transport, Terminal Development, SQAS, rail tariffs, Custom Union
- **Russian Logistics Association:** Training and Qualification, policy development for infrastructure, dissemination information
- **Moscow Region:** Infrastructure Development, Restrictions for dangerous goods in Moscow
- Organisation of Expert Meeting in Dobra 22-24 June at boarder SK/UKR/HUN
- Further discussion of concrete topics and forms of cooperation

## Network for Chemical Logistics Cooperation in CEE

- Ensure continuation of cooperation after project end
- Development and articulation of joint strategy and joint positions in European decision making process
- Coordinate implementation of regional action plans
- Facilitate communication between Regional ChemLog Networks
- Building on existing structures and creation of synergies
- Involvement of ECRN (chemical regions)
- Involvement of Cefic (companies)
- Proposal for activities: Meetings, Progress Report on Action Plan, Joint Positions, Studies
- Development of Follow up Projects (Marco Polo, Interreg, etc.)

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## Upcoming Meetings 2011

31 Aug	Workshop Elbe Transport, Usti
22-24 June	WG Meeting Dobra Slovakia
30 August	GER-POL Workshop Intermodal, Berlin
13 Sept	Workshop Cleaning Stations, Novara
Sept	Workshop Danube Transport, Linz
6 October	Final Dissemination Conference in Warsaw