



**Organization for Security and Co-operation in Europe
Secretariat**

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Conference Services

The 16th Meeting of the OSCE Economic and Environmental Forum

**“Maritime and inland waterways co-operation in the OSCE area:
Increasing security and protecting the environment”**

Part 2 / Prague, 19 – 21 May 2008

**Plenary Session V
Enhancing good governance and promoting maritime and inland
waterways co-operation**

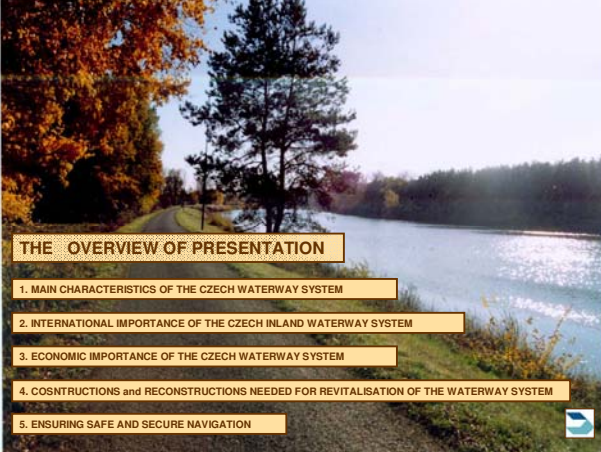
Please find attached the presentation “Revitalisation of the Navigation on the Czech Waterways” by Mr. Pavel Ježek, Ministerial Counsellor, Ministry of Transportation, Czech Republic.

Ministry of Transport of the Czech Republic



REVITALISATION OF THE NAVIGATION ON THE CZECH WATERWAYS

The 16th OSCE Economic and Environmental Forum - part two
 "Maritime and Inland Waterways Co-operation in the OSCE area:
 Increasing Security and Protecting the Environment"
 held in Prague, 19 - 21 May 2008



THE OVERVIEW OF PRESENTATION

1. MAIN CHARACTERISTICS OF THE CZECH WATERWAY SYSTEM
2. INTERNATIONAL IMPORTANCE OF THE CZECH INLAND WATERWAY SYSTEM
3. ECONOMIC IMPORTANCE OF THE CZECH WATERWAY SYSTEM
4. CONSTRUCTIONS and RECONSTRUCTIONS NEEDED FOR REVITALISATION OF THE WATERWAY SYSTEM
5. ENSURING SAFE AND SECURE NAVIGATION

1. MAIN CHARACTERISTICS OF THE CZECH WATERWAY SYSTEM

DOMESTIC IMPORTANCE OF THE CZECH WATERWAY SYSTEM

- a) Freight transport
- b) Regular passenger transport
- c) Recreational services

INTERNATIONAL IMPORTANCE

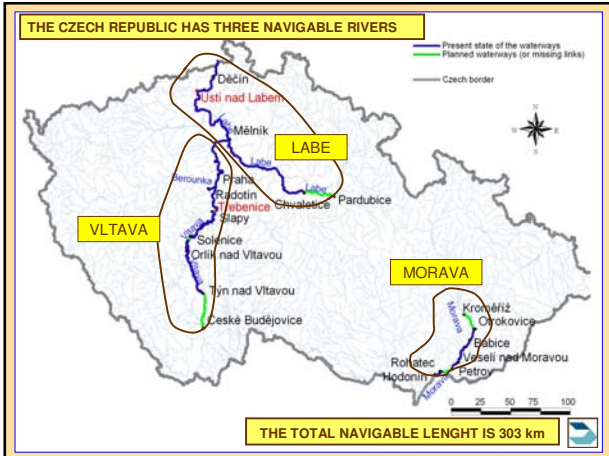
- a) Freight transport
- b) Passenger transport

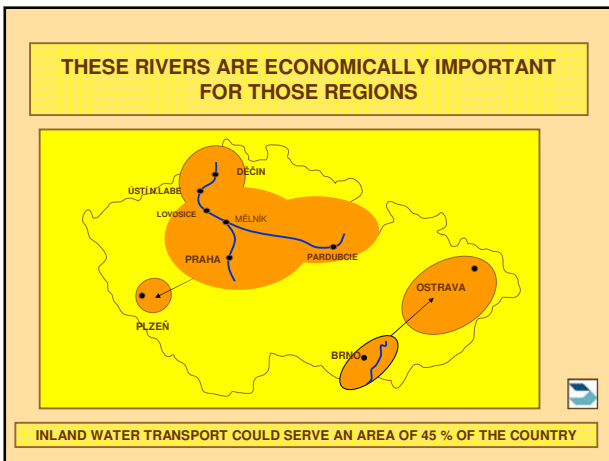
ENVIRONMENTAL IMPORTANCE

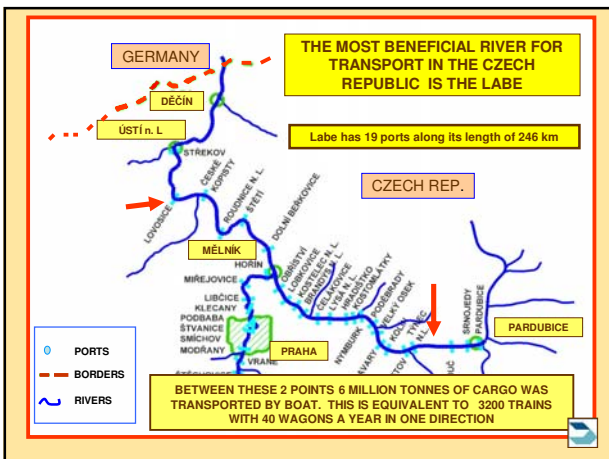
- a) Draining of the rain and terrestrial water
- b) Source of the drinking water for 2,1 million people
- c) Water for agricultural land

IMPORTANCE FOR SECURITY and SAFETY

- a) Water reservoir for fire-fighting
- b) Alternative transport in case of repair of other modes
- c) Extraordinary transport in the case of emergency





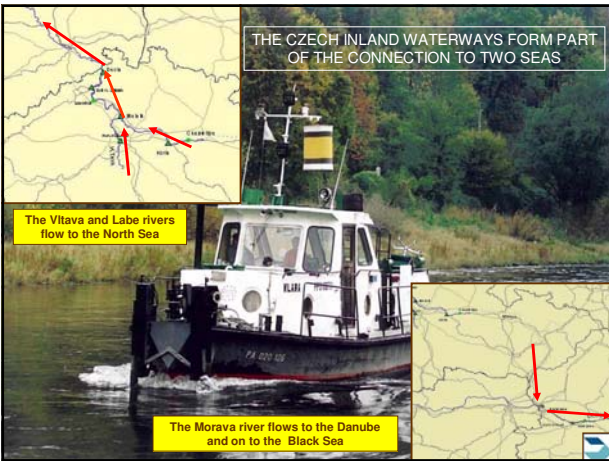


2. INTERNATIONAL IMPORTANCE OF THE CZECH INLAND WATERWAY SYSTEM



THE CZECH INLAND WATERWAYS ARE A PART OF THE TEN-T NETWORK

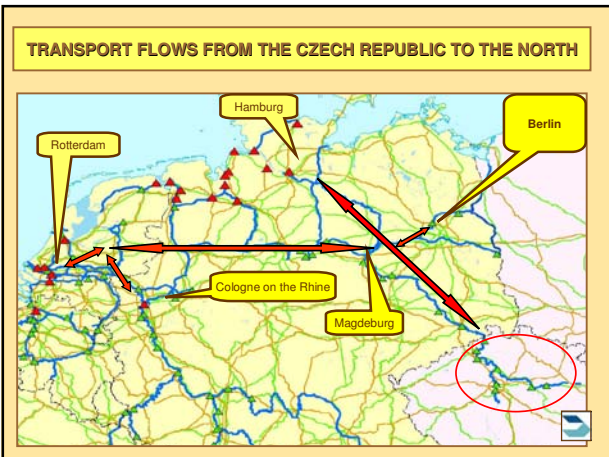




The Vltava and Labe rivers flow to the North Sea

The Morava river flows to the Danube and on to the Black Sea

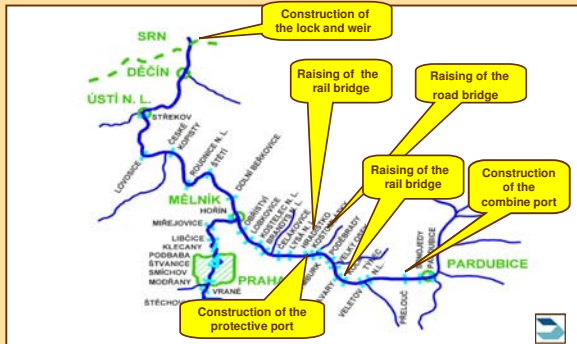




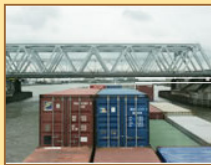
TRANSPORT FLOWS FROM THE CZECH REPUBLIC TO THE NORTH



PART OF THE PLANNED CONSTRUCTIONS & RECONSTRUCTIONS



BIGGEST PROBLEMS FOR THE CURRENT SYSTEM ARE THE EXCESSIVE LOAD and THE HEIGHT OF DOUBLE-CONTAINER LAYERS BEING OVER BRIDGE CLEARANCE LEVELS



5,25 M

THE MOST CRITICAL POINT OF SYSTEM IS

← THE HEIGHT OF THE BRIGES OVER THE RIVER LEVEL

RAISING THE ROAD BRIDGE UP A HEIGHT OF 7 METRES OVER THE RIVER LEVEL

VIEW AT THE OLD BRIDGE



INCREASE IN THE CLEARANCE LEVEL BY 3.1 METRES

THE PROJECTION OF THE NEW BRIDGE



LIFT UP 3,1 M

3,9 M

ENLARGEMENT OF THE RIVERBED and STRENGTHENING OF THE RIVER BANKS



RIVERBED

- WIDENING
- DEEPING
- REINFORCING

RIVER BANKS

- STRENGTHENING OF RIVER BANK EDGES
- ELEVATION OF RIVER BANK SIDES



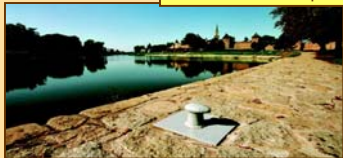


THE PROJECTION OF CONSTRUCTION OF THE NEW LOCK and STEP

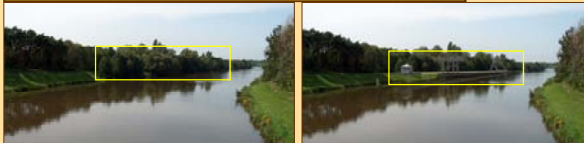


CONSTRUCTION and RECONSTRUCTION OF THE RIVER PORTS

The reconstruction of the protective winter port



The combine port for passenger and freight transport near the town Pardubice



5. ENSURING SAFE and SECURE NAVIGATION



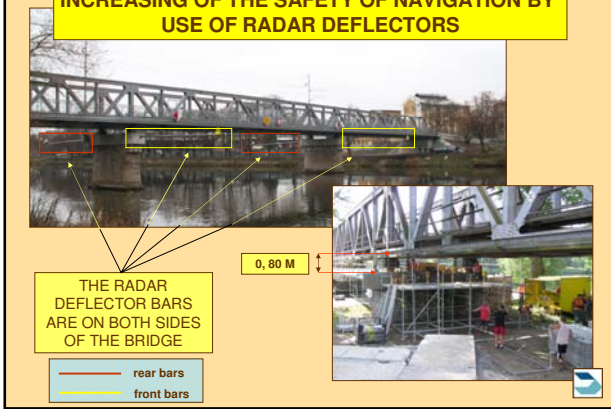
INCREASING OF THE SAFETY AND EFFICIENCY

- INSTALLATION OF A RIVER INFORMATION SYSTEM („RIS“)
- BUILDING OF THE RESERVE PORTS
- BUILDING OF THE FLOOD BARRIERS
- BUILDING OF THE ACCESS ROUTES TO MEADOW

INCREASING OF THE SECURITY OF THE NAVIGATION

- STRENGTHENING OF THE UPPER BRIDGE BARRIERS
- AMELIORATION OF THE VESSELS
- INSTALLATION OF THE RADAR DEFLECTORS

INCREASING OF THE SAFETY OF NAVIGATION BY USE OF RADAR DEFLECTORS

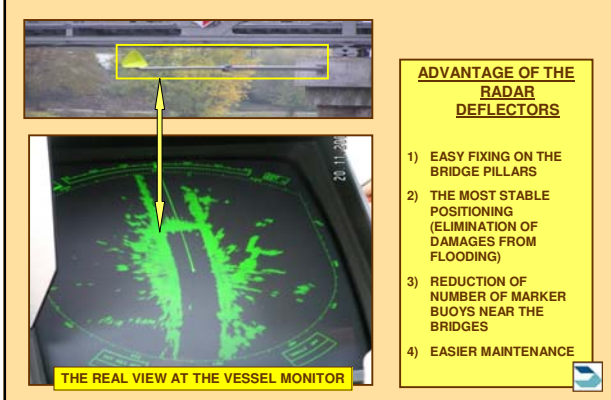


THE RADAR DEFLECTOR BARS ARE ON BOTH SIDES OF THE BRIDGE

0, 80 M

rear bars
front bars

SHIPPING AT NIGHT and IN FOGGY CONDITIONS



ADVANTAGE OF THE RADAR DEFLECTORS

- 1) EASY FIXING ON THE BRIDGE PILLARS
- 2) THE MOST STABLE POSITIONING (ELIMINATION OF DAMAGES FROM FLOODING)
- 3) REDUCTION OF NUMBER OF MARKER BUOYS NEAR THE BRIDGES
- 4) EASIER MAINTENANCE

THE REAL VIEW AT THE VESSEL MONITOR