



Federal Waterways and Shipping Administration



WSV.de

Wasser- und
Schiffahrtsverwaltung
des Bundes

Waterways and Shipping in Germany

Reinhard Klingen
Federal Ministry of Transport
Head of Directorate Waterways and Shipping



German waterways

1. The federal waterways network
 1. Free flowing rivers
 2. Flood controlled rivers
 3. Canals
2. Organisation of the waterways and shipping administration
3. Tasks of the waterways and shipping administration
4. Infrastructure investment



Federal waterways

➤ 23 000 km² maritime waterways

➤ 7 300 km inland waterways

➡ Rhine river and tributaries
(Mosel, Main, Neckar, Saar)

➡ West - east – axis
(West German canal network,
Mittelland-Canal, Elbe-Havel-
Canal, Oder-Havel-Canal)

➡ Danube, Main-Danube Canal

➡ Access to seaports and
connection to hinterland
(Ems, Weser, Elbe)



Federal waterways

- 23 000 km² sea waterways
- 7 300 km inland waterways



2 540 km free flowing rivers



3 030 km rivers with flood control



1 730 km canals



Federal waterways

➡ 2 540 km free flowing rivers



Rhine river



Elbe river

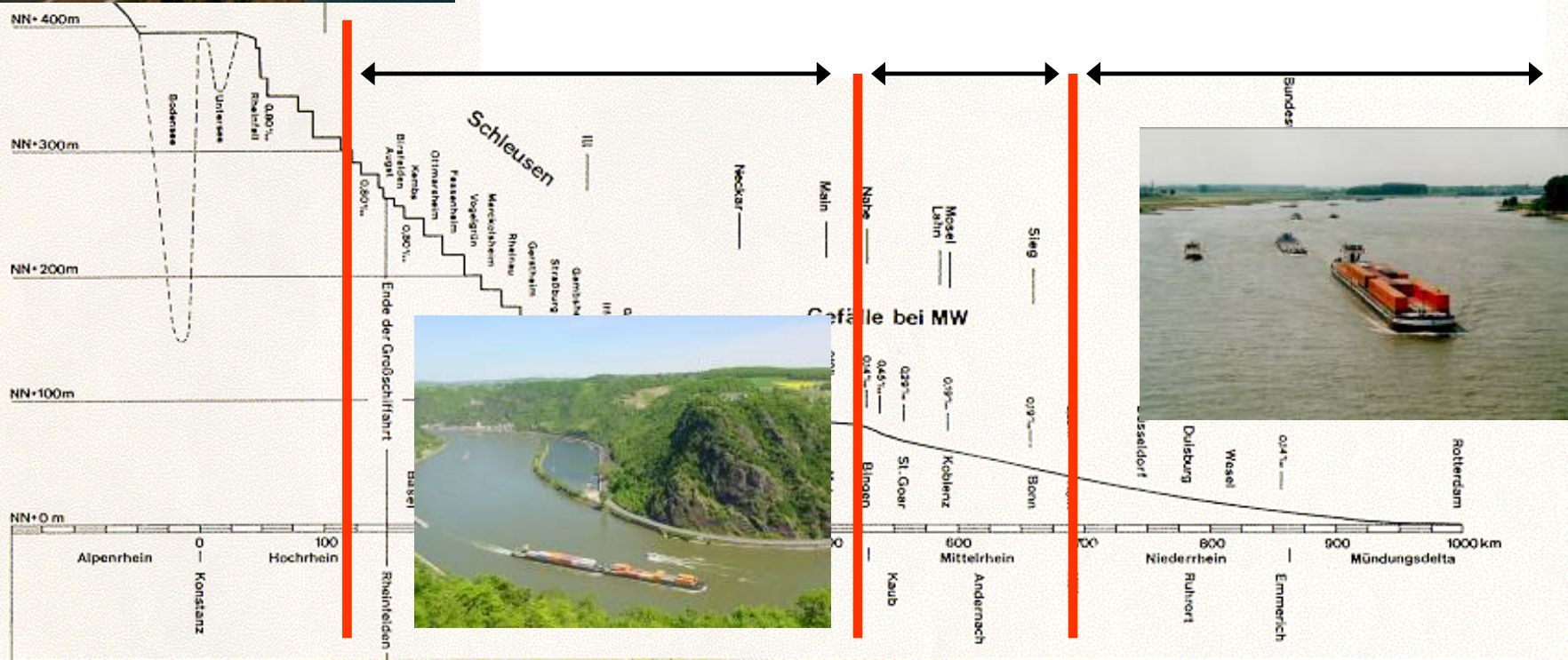


Loreley



Rhine - Longitudinal Profile

- 10 barrages between Basel and Iffezheim (upper Rhine)
- middle Rhine (free floating, narrow valley)
- lower Rhine (lowland)





Federal waterways

➔ 3 030 km rivers with flood control e.g.

- Upper Rhein: 10 barrages (1928 – 1977)*
- Mosel: 12 barrages (1958 – 1964)
- Saar: 7 barrages (1969 - 1999)
- Neckar: 27 barrages (1921 – 1968)
- Main: 34 barrages (1901 – 1962)
- Weser: 7 barrages (1912 - 1999)

* French – German borderline



Federal waterways

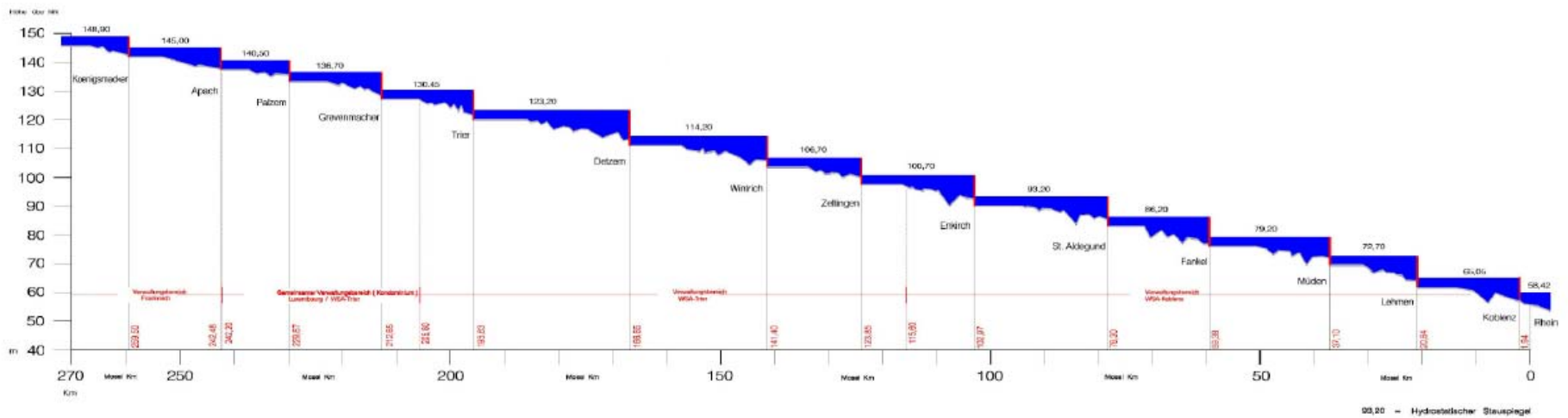
➡ 3 030 km rivers with barrages



Mosel
river



Longitudinal section of the Mosel river





Federal waterways

➔ 1 730 km canals e.g.:

Dortmund-Ems-Canal: 265 Km (1892 – 1899)

Rein-Herne-Canal: 45 km (1906 -1914)

Dattel-Hamm-Canal: 50 km (1908 – 1933)

Wesel-Datteln-Canal: 60 km (1915 -1930)

Main-Danube-Canal: 170 km (1960 – 1992)

Elbeseiten-Canal: 115 km (1968 – 1976)

Mittelland-Canal: 325 km (1906 -1942)

Kiel-Canal: 100 km (1887 – 1895)*

* maritime waterway





Federal waterways

➡ 1 730 km canals



Main-Danube Canal



Federal waterways

➡ 1 730 km canals



Mittelland Canal



Federal waterways

➔ 1 730 km canals



Kiel Canal



European classification of inland waterways

Waterway network in Germany:

- 70% waterways of international importance
- 17% waterways of national importance
- 13% waterways not classified or not serving general traffic functions



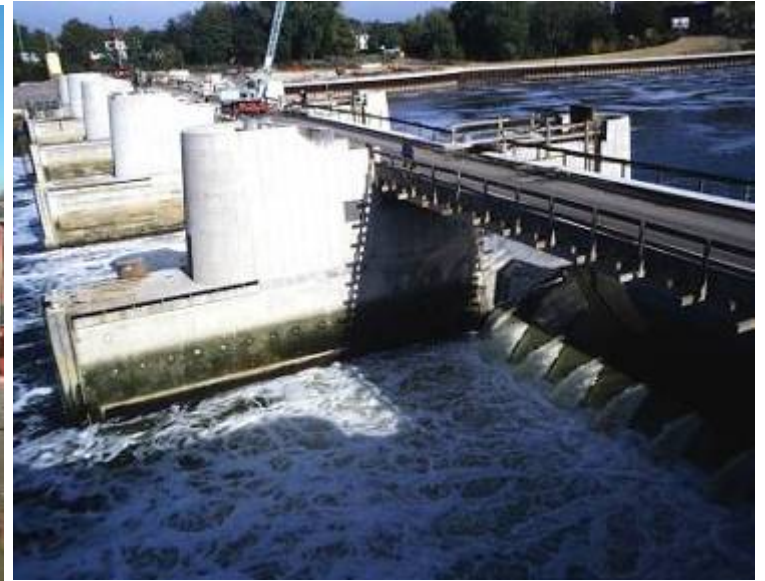
IV : Motor vessels 85 m x 9.5 m x 2.5 m
Pushed convoys 85 m x 9.5 m x 2.5...2.8 m

Va : Motor vessels 110 m x 11.4 m x 2.5...2.8 m
Pushed convoys 110 m x 11.4 m x 2.5...4.5 m

Vb : Motor vessels 110 m x 11.4 m x 2.5...2.8 m
Pushed convoys 185 m x 11.4 m x 2.5...4.5 m



➔ approx. 450 lock chambers, 300 weirs, 4 ship lifts, 8 barrages, 1600 bridges ...

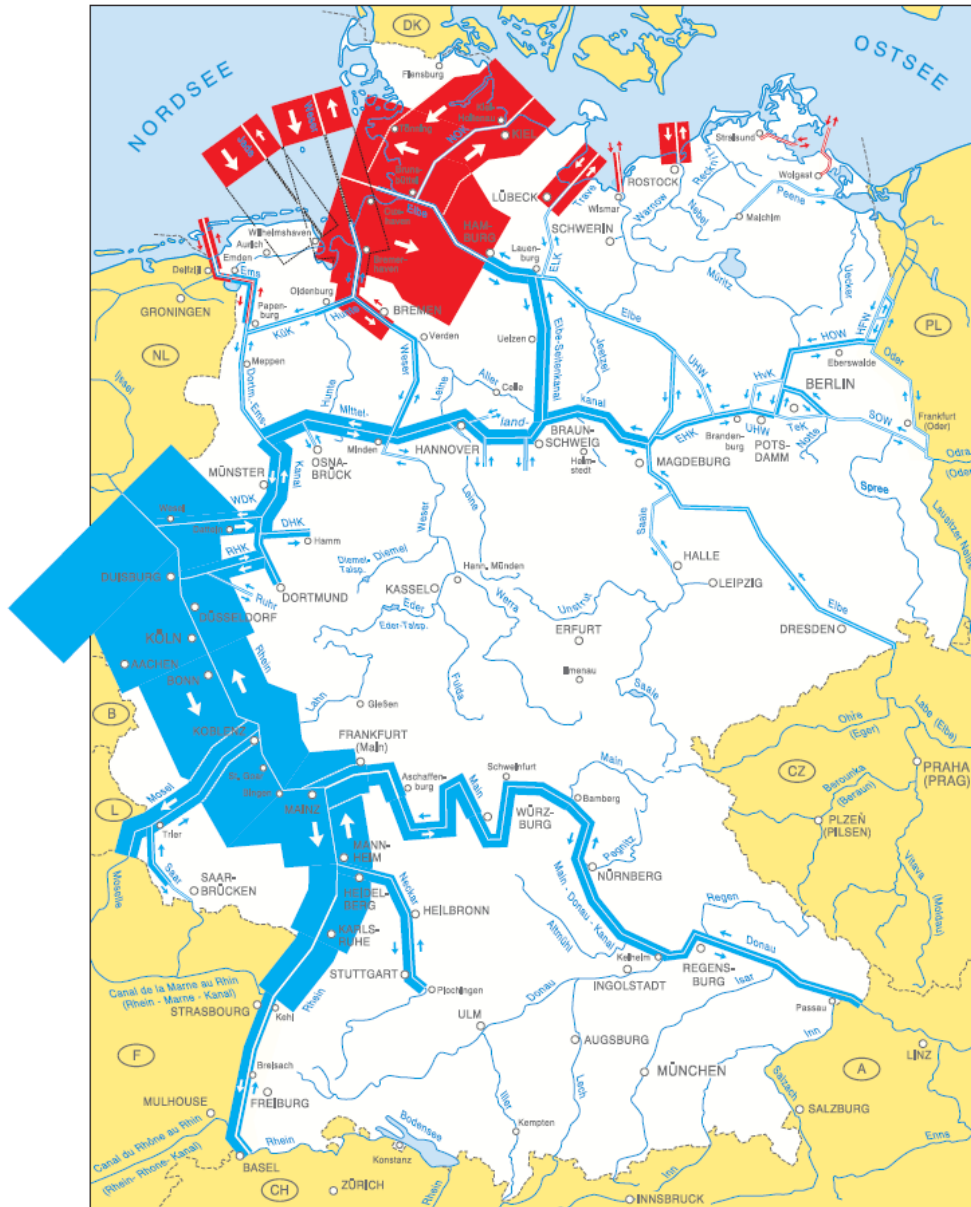


Total property, plant and
equipment: approx. 40,000 m €



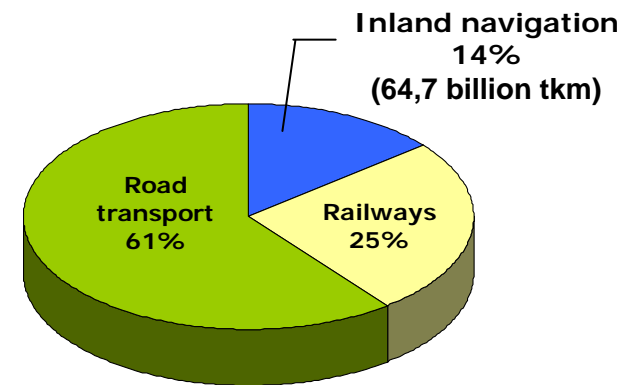


Problematic age structure:
e.g. 50% of lock chambers older than 65 years
high demand for reinvestment



Density of goods traffic of inland and maritime navigation on the main waterways network (million t)

Volume of freight traffic on inland waterways (2007) : 249,0 million t



Modal split - traffic performance 2007 (tonne-kilometres)



Important waterway projects

Kiel Canal: new locks, deepening of the whole canal

Elbe, Weser: deepening of the fairway

VDE 17: Expansion of the fairway for large vessels

Neckar: Extension of Lock chambers (135 m)

Mosel: Second Lock chambers

HOW: New ship lift

DEK: Expansion of the southern part for large vessels

**Weser :
(Middle part)** Expansion of the fairway,
2 new locks





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Article 89 of the German Constitution

... the Federation is the owner of the Waterways which are administered by its own authorities (**Waterways and Shipping Administration** of the Federal Government).

The jurisdiction of the Federal Government for the administration of the federal waterways and for the regulation of shipping traffic is laid down in detail by the following federal laws:

The **Federal Waterways Act**

The Inland Navigation (Federal Competences) Act

The Maritime Shipping (Federal Competences) Act

The Act on the Assets of the Federal Waterways for Fiscal Administration



**Federal Minister of Transport,
Building and Urban Development
Dr. Peter Ramsauer**

The Federal Waterways and Shipping Administration (WSV) is directly subordinate to the **Federal Ministry of Transport, Building and Urban Development** (BMVBS, Berlin and Bonn)



**State Secretary
Prof. Klaus-
Dieter Scheurle**



**Parliamentary
State Secretary
Enak Ferlemann**



**Parliamentary
State Secretary
Jan Mücke**



**Parliamentary
State Secretary
Dr. Andreas
Scheuer**



**State Secretary
Rainer Bomba**

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L
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Z
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LR
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WS
Water-
ways,
Ship-
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LA
Land-
verkehr

UI
Umwelt-
politik
und Infra-
struktur,
Grund-
satzfragen
des
Ressorts

B
Bauwe-
sen,
Bauwirt-
schaft,
Bundes-
bauten

SW
Raumord-
nung,
Stadtent-
wicklung,
Wohnen,
öffent-
liches
Baurecht

StB
Straßen-
bau



Federal Ministry of Transport, Building and Urban Development

4 higher federal authorities

BAW

Federal Waterways Engineering
and Research Institute
(Karlsruhe, Hamburg, Ilmenau)

BfG

Federal Institute of Hydrology
Koblenz

BSH

Federal Maritime and Hydrographic
Agency Hamburg und Rostock

BSU

Federal Bureau of Maritime
Casualty Investigation
Hamburg

Middle-level federal authorities – 7 Waterways and Shipping Directorates

North
Kiel

Northwest
Aurich

Centre
Hannover

West
Münster

Southwest
Mainz

South
Würzburg

East
Magdeburg

Low-level federal authorities - 39 Waterways and Shipping Offices (WSÄ) and 7 Offices for the New Construction of Waterways

WSA
Lübeck

WSA
Tönning

WSA
Brunsbüttel

WSA
Kiel-Holtenau

WSA
Stralsund

WSA
Hamburg

WSA
Cuxhaven

WSA
Bremen

WSA
Bremerhaven

WSA
Wilhelmshaven

WSA
Emden

WSA
Hann. Münden

WSA
Verden

WSA
Minden

WSA
Braunschweig

WSA
Uelzen

NBA MLK
Hannover

WNA
Helmstedt

WSA
Köln

WSA
Duisburg-Rhein

WSA
Duisburg-Meiderich

WSA
Rheine

WSA
Meppen

WNA
Datteln

WSA
Freiburg

WSA
Mannheim

WSA
Bingen

WSA
Heidelberg

WSA
Stuttgart

WSA
Koblenz

WSA
WSA Trier

WSA
Saarbrücken

AN
Heidelberg

WSA
Aschaffenburg

WSA
Schweinfurt

WSA
Nürnberg

WSA
Regensburg

WNA
Aschaffenburg

WSA
Dresden

WSA
Magdeburg

WSA
Lauenburg

WSA
Brandenburg

WSA
Berlin

WSA
Eberswalde

WNA
Berlin

WNA
Magdeburg



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Middle-level federal authorities

7 Waterways and Shipping Directorates

- | | |
|------------------|-----------------|
| North | Kiel |
| Northwest | Aurich |
| Centre | Hannover |
| West | Münster |
| Southwest | Mainz |
| South | Würzburg |
| East | Berlin |

Low-level federal authorities

39 Waterways and Shipping Offices

7 Offices for the New Construction of Waterways

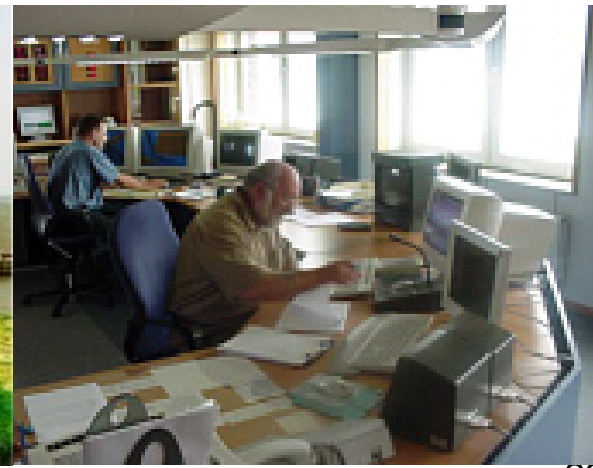
At regional level - 143 branch offices with operating centres such as locks, lift stations as well as construction depots.



Tasks of the Waterways and Shipping Administration

relating to shipping:

- shipping police authority (Safety for man and the environment)
- operation of waterways (e.g. locks, weirs etc.)
- vessel traffic service centres (maritime waterways)
- traffic control centres (inland waterways)
- operating of oil spill recovery ships (maritime waterways)





Tasks of the Waterways and Shipping Administration



relating to infrastructure:

- maintenance of waterway infrastructure
- replacement investment in waterway infrastructure
- development of waterway infrastructure





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Tasks waterway infrastructure





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Tasks waterway infrastructure





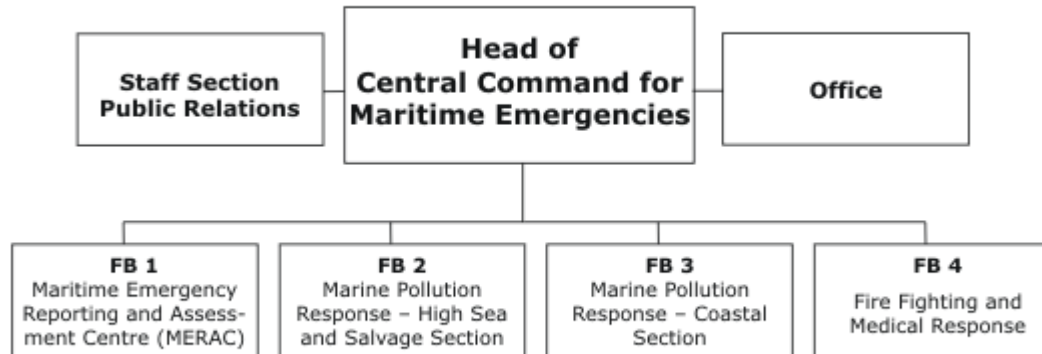
Tasks inland and maritime navigation

Central Command for Maritime Emergencies - Cuxhaven

- Joint Institution of the Federal Government and the Coastal States -



It was established to set up and carry out a mutual maritime emergency management in the North Sea and in the Baltic Sea.

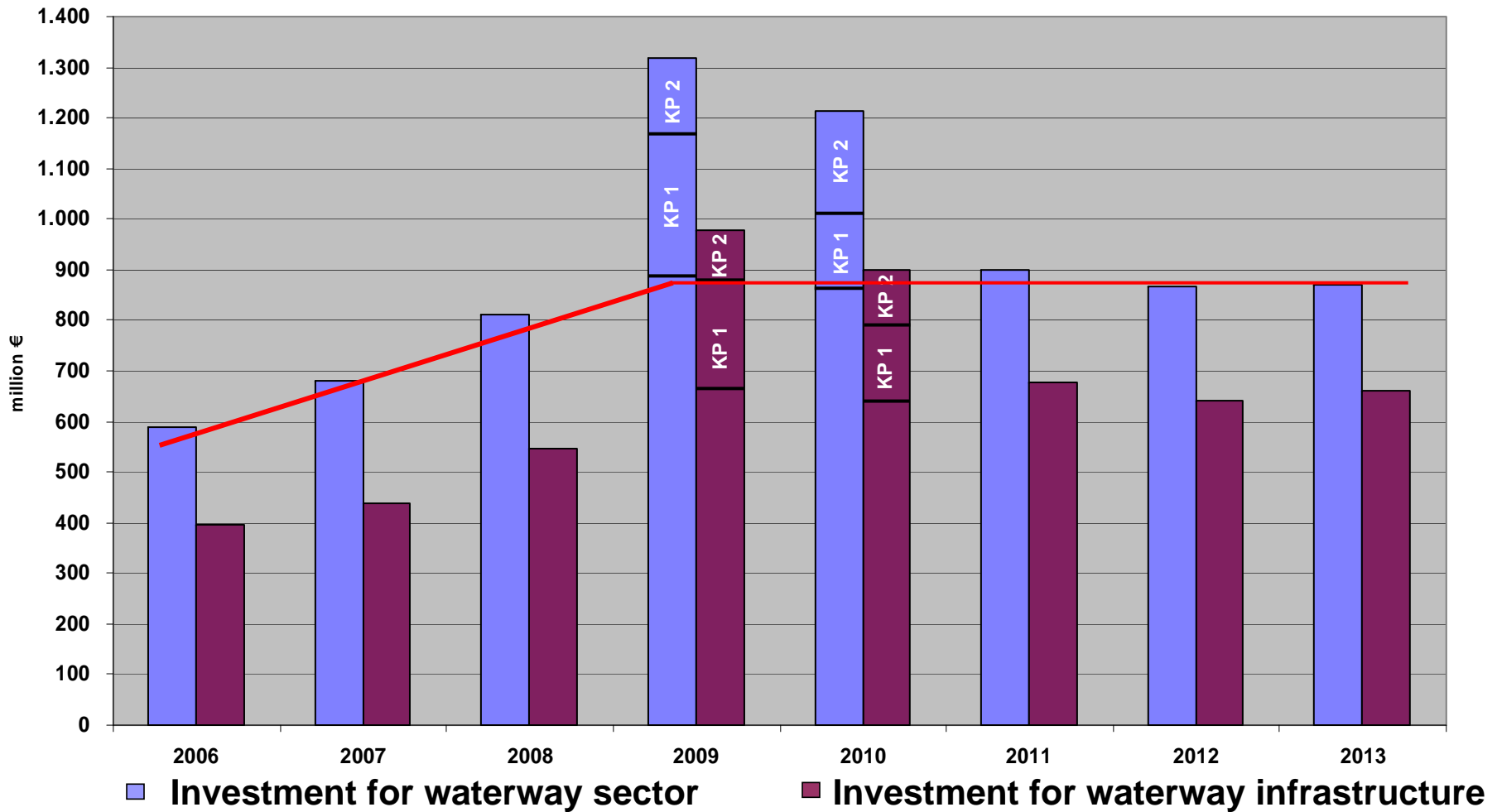


4 Multi-purpose vessels





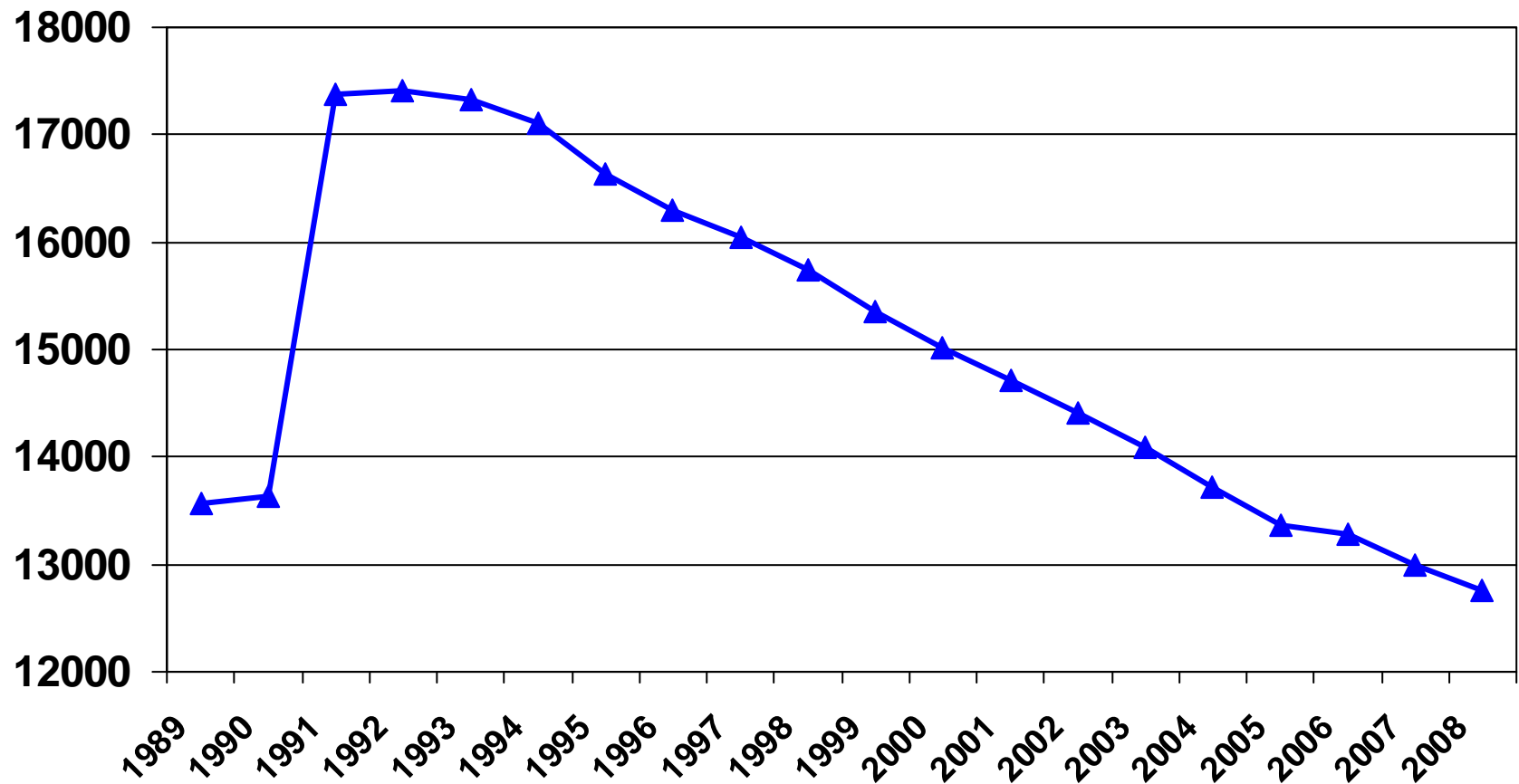
Waterway budget incl. economic stimulus packages





Federal Waterways and Shipping Administration

number of persons employed





for further information see „<http://www.wsv.de/>“



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Sie sind hier: Startseite der WSV

- Aktuelles
- Wir über uns
- Wasserstraßen
- Schifffahrt
- Service
- Archiv

Dienststellen - Direktauswahl... →



Saale-Schleuse bei Aisleben





Thank you for your attention

