



Summary

- 1. Historical development of the Navigation of the Rhine
- 2. Types of investments
- 3. The Rhine and IWT in the European transport network
- 4. CCNR its functions for promoting IWT and the WWINN initiative



History, values and missions of the CCNR



The Congress of Vienna



The "Rhine Palace"

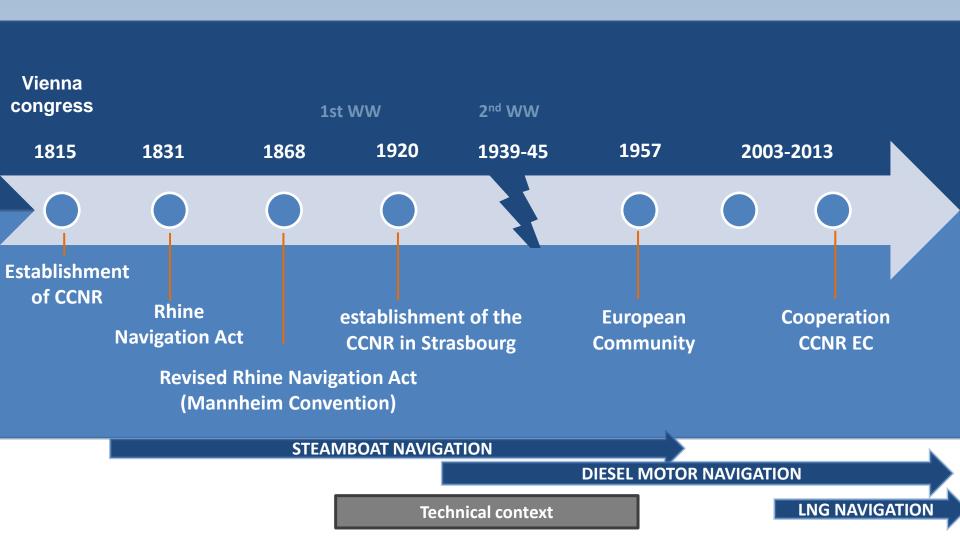
- Created in 1815 at the Congress of Vienna
- Headquarters: "Rhine Palace" in Strasbourg (France)
- 5 member States (BE, NL, CH, FR, DE)
- Missions:
 - ✓ Freedom of navigation on the Rhine
 - ✓ Free market access
 - ✓ Free pricing
 - ✓ No levies or duties
 - ✓ Prosperity of navigation on the Rhine & high level of safety

(Since 1868 and the Mannheim Act)

√ Common safety and environmental standards



Political context in Europe







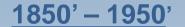


STEAMBOAT NAVIGATION

NAVIGATION UNDER SAIL

Technical context







1920

CCNR actions' focus

- Navigation conditions: regulation of the Rhine
- Framework conditions, level playing field

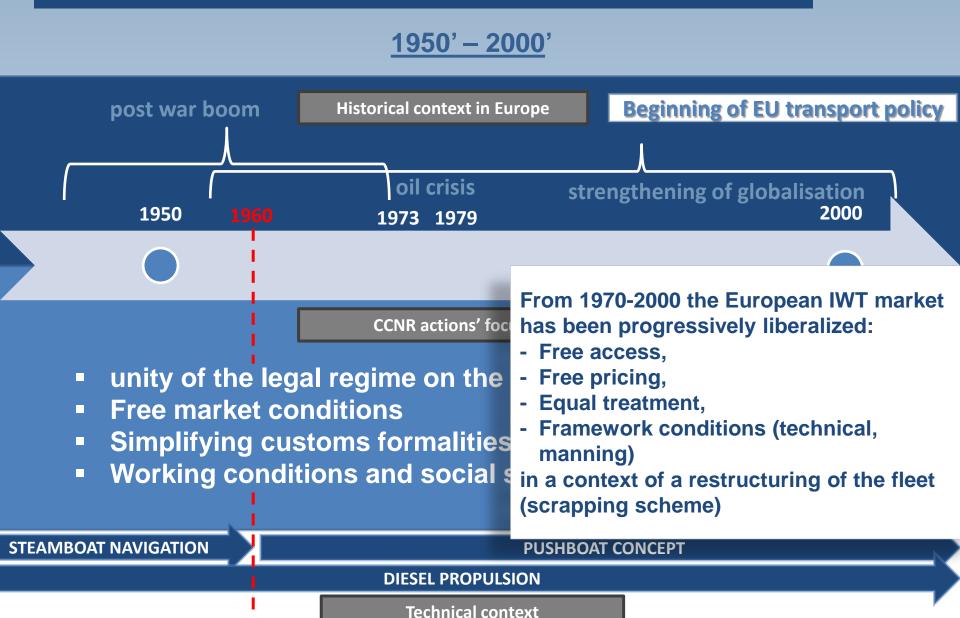
1936 – 1947

CCNR actions are strongly reduced to the war context

STEAMBOAT NAVIGATION / (trains of tugged barges)

DIESEL PROPULSION







LNG NAVIGATION

1. Historical development of the Navigation of the Rhine

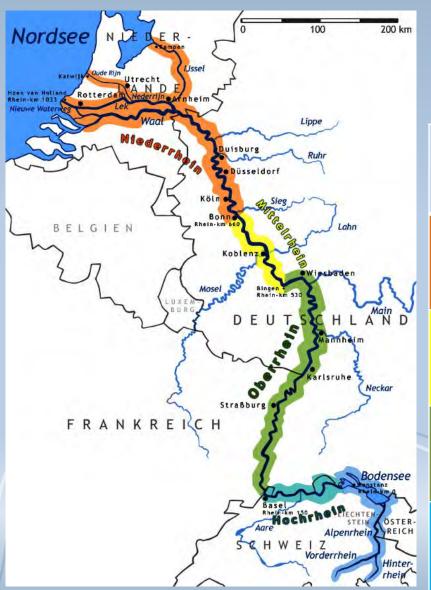
2000 - towards future



Technical context



2. Types of investments





	Regulation of the fairway (through canalization)
Lower Rhine	1850 - 1900
Middle Rhine	1880 - 1970
Upper Rhine	a) 1800 - 1880 b) 1920 - 1970
High Rhine	Not navigable



2. Types of investments

Summary of the main waterway improvements of the Rhine

Germany

1800 : upper Rhine

> Ports of Mannhein, Ludwigshafen, Karlsruhe

1850: lower Rhine - Ruhr area

- STEEL INDUSTRY
- COAL MINING

1890 : upper Rhine - Mannheim/Ludwigshafen area

CHEMICAL INDUSTRY

1910: lower Rhine - Bonn/Cologne

PETROCHEMICAL INDUSTRY

France – Switzerland – Germany

1920: upper Rhine

- HYDROPOWER AND LOGISTICS
- CANALIZATION OF THE UPPER RHINE

Switzerland



2. Types of investments

Summary of the main waterway improvements of the Rhine

France

1890 : upper Rhine

→ Development of the Port of Strasbourg

Netherlands

1850: lower Rhine and Delta

- HINTERLAND CONNECTIONS
 - → Deepening of the Dutch branches of the Rhine (Waal)
 - → Direct access of the Rhine to the North sea (Rotterdam)

1900 -1920 -1950 -1970: delta

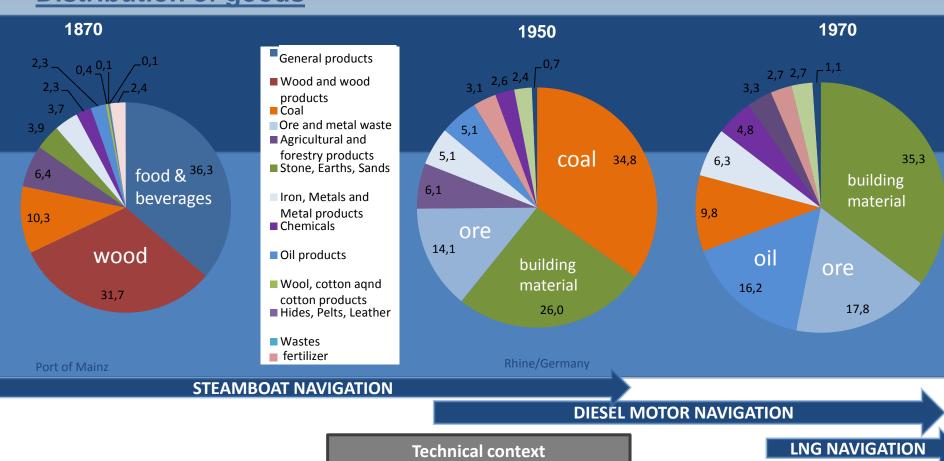
- SEA PORT DEVELOPMENT
 - →Extension of the Port of Rotterdam: Europort, Maasvlakte I and II

1960 : delta region

- SEA PORT DEVELOPMENT
- → Rhine-Scheldt connection (Rotterdam-Antwerp)



Distribution of goods



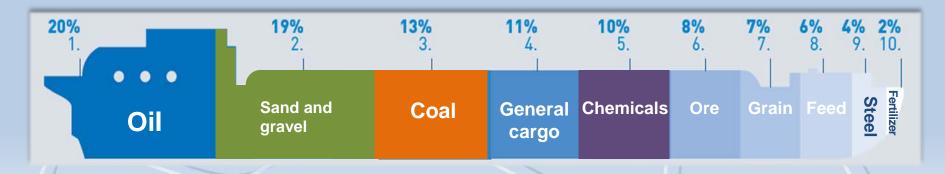


Characteristics and connectivity of the Rhine traffic in Europe

The Rhine constitutes the backbone of inland navigation in Europe – a navigable waterway of vital importance to the European economy

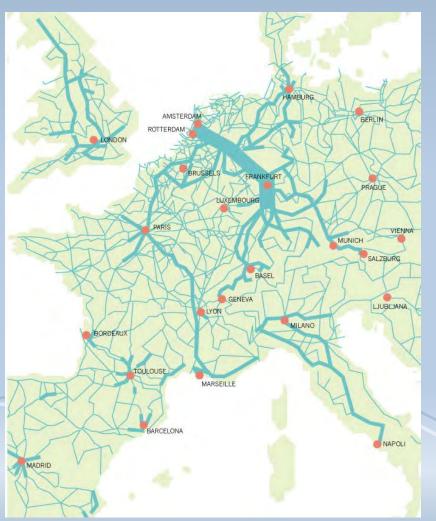
330 Mio. t in transit per year on the Rhine

TYPE OF GOODS CARRIED ON THE RHINE

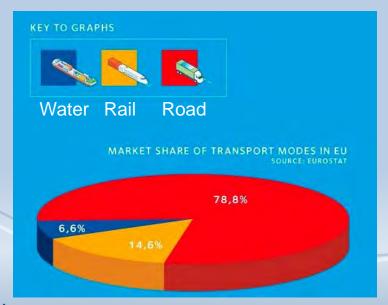




Inter-modality and navigation on the Rhine

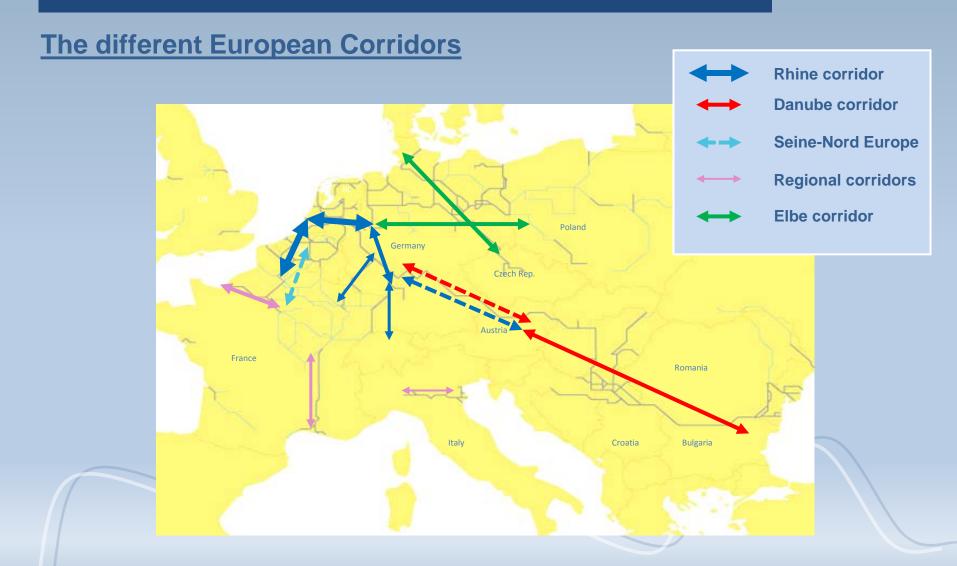


The Rhine is in the hearth of the European transport flows and is well connected to the other transport modes. Inland **Navigation** in Europe **represents 6,6%** of the transport modes market shares.



Freight flows within Europe (road, rail, water and pipelines)







IWT Traffic intensity in Europe

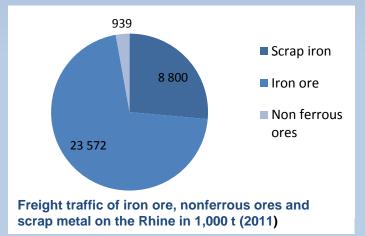




Transport of raw materials for the steel industry

The transportation of iron ore, nonferrous ores and scrap metal reached a total volume of 33.3 million t in 2011.

Quantitatively, the bulk of this market segment is accounted for iron ore (23.5 million t), which is used as the primary product in steel production.





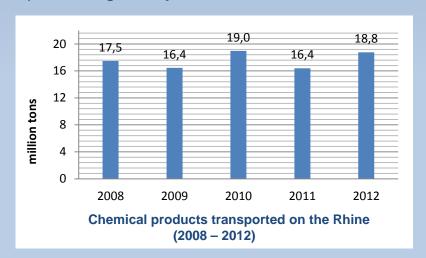
Main ports





Transport of the chemical industry

The German chemical industry largely runs the tanker transport demand on the Rhine with more than 15 million tons transported by year. The transport of fertilizers plays also in important role. Production is anticipated to grow by 2.5% until 2020.





Main ports



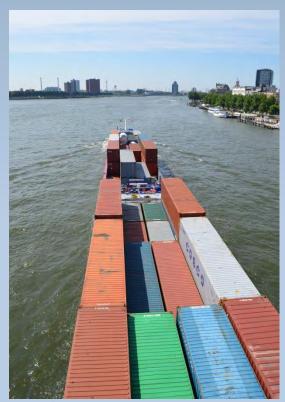


Container transport on the Rhine

The traffic of containers present an important potential for inland navigation and experienced in the last years a significant growth, within 10 years **growth of 90%**.

Container traffic on the Rhine in 2012

Number of container	TEU	Container cargo volume (tons)
1.292.532 Container	1.980.223 TEU	14.709.070 tons

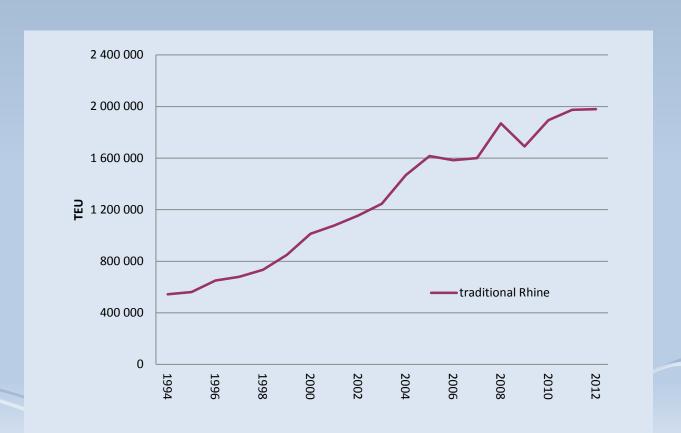


Main ports





Container transport on the Rhine - 1994 - 2012





Passenger transport market

Day trip Shipping		River cruises	
number of		number of	
Ships	Passengers	Ships	Passengers
1.560	30 million/a	260	1,2 million*/a

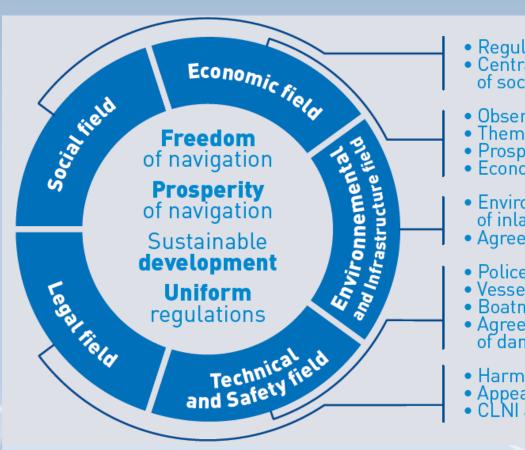
* Estimate

Countries: Western Europe (Germany, France, Netherlands, Belgium, Switzerland)



4. CCNR - its functions for promoting IWT and the WWINN initiative

Current areas of activity of the CCNR

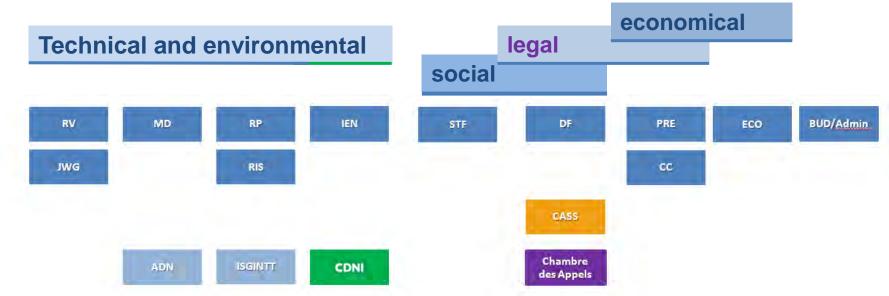


- Regulations on crewsCentral administration of social security for Rhine boatmen
- Observation of the inland navigation market
- Themed studies
- Prospective analytical workEconomic congresses
- Environment-friendly profile of inland navigation
- Agreement of waste disposal (CDNI)
- Police regulationsVessel inspection regulationsBoatmasters' licences
- Agreement on the transport of dangerous goods (ADN)
- Harmonisation of river law
- Appeals chamberCLNI and CMNI conventions



4. CCNR - its functions for promoting IWT and the WWINN initiative

CCNR Committees









Summary

- 1. Wide time horizon necessary
 - 50 years
- 2. Infrastructural development in a policy mix of strategic goals:
 - Industry development and mining
 - large scale and reliable fairways
 - Energy policy
 - hydropower and secure supplies
 - Commerce and intercontinental trade
 - o including: role of the seaports
 - Distribution and supply
 - o density of the agglomerations
 - Competitive modal strategy
 - o in particular: rail and IWT



Summary

- 3. Geo-political context to be made instrumental to the infrastructural development
 - Communities of interest to be identified
 - o diversification and wide spread
 - Strategic alliances to be established
 - political stability
 - Provide for a platform for international consolidation of agreements
 - o sound legal basis
- 4. Public financing to be made the back bone of the infrastructural development
 - No duties and levies on the transport
 - o article 3 of the Mannheim Convention
 - Interdependencies between waterway infrastructure and ports
 - inland and maritime
- 5. Development of highly preforming shipping activities together with the infrastructural development
 - Framework conditions
 - o safety, environment, social security
 - Market oriented



WORLD WIDE INLAND NAVIGATION NETWORK

- Worldwide recognition and promotion of the transport mode
- > Exposure and monitoring of the common values of IWT in the various river basins:
 - Large available capacities
 - Environmentally friendly and ecological
 - Safe and reliable mode of transport



Other inland navigation authorities elsewhere in the world are encouraged to join the initiative!



VVV//V√'s members

WWINN gathers the following authorities:

- The USACE Institute for Water Resources
- The Mekong River Commission
- The Inland Waterways Authority of India (IWAI)
- The Brazilian Ministry of Transport
- Pan-European Transport Corridor VII

- The Danube Commission
- The Moselle Commission
- The Sava Commission
- The Central Commission for the Navigation of the Rhine (CCNR)

Sharing of

- technology of the fleet
- economies of scale for the equipment suppliers
- modal integration methodologies
- experience in developing navigation personal's skills
- strategies for infrastructural development
- platform for exchange on technical and operational matters







Please be most welcome to visite the CCNR in Strasbourg

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