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AEBR

Governance and Social Cohesion in the Uruguay River Basin

Exchanges of experience

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- **History and Functioning of the CCNR**
- **The CCNR Committee on Infrastructure and Environment (IEN)**
- **Infrastructure management and navigability in an international context**

01

The RHINE Facts and Figures



LEGEND

Rhine ————

Principal European waterways ————

THE RHINE AT THE HEART OF THE EUROPEAN WATERWAYS NETWORK



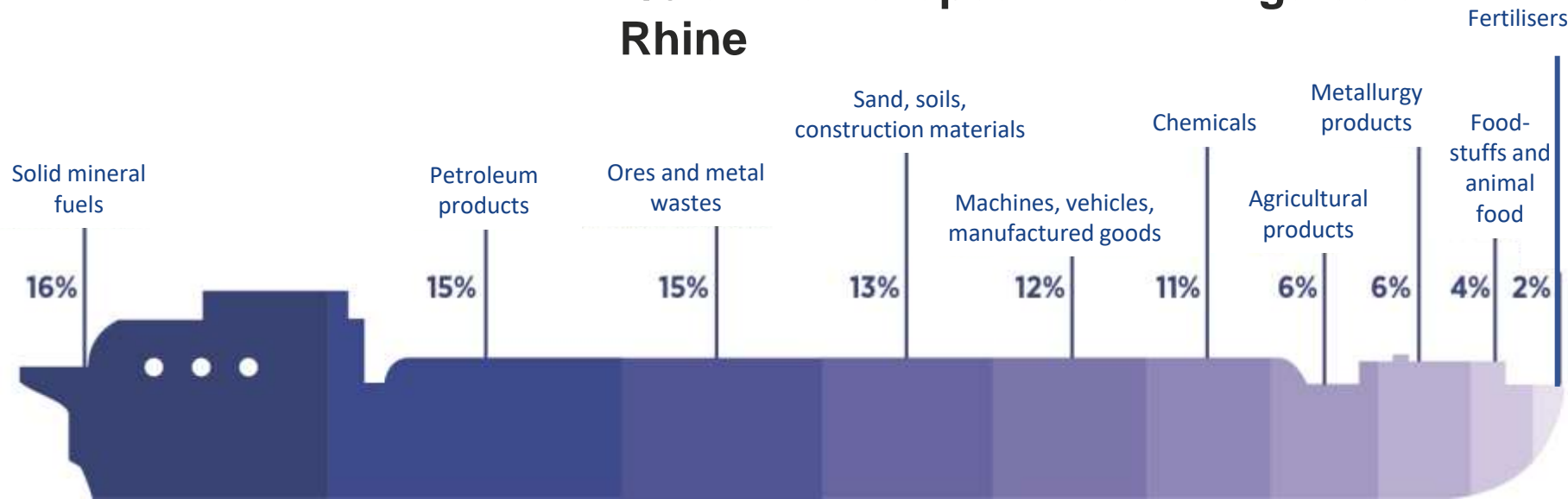
THE RHINE TODAY

Navigable Rhine: **884 km**

330,000,000 t/year = 2/3 goods transported by river in Europe
(the most important and most modern inland navigation waterway in Europe)

Fleet capacity: **10,000,000 t**

2/3 of the European fleet navigates on the Rhine



02

**The CCNR:
200 years of
history**



THE OLDEST INTERNATIONAL ORGANISATION STILL IN OPERATION

Created in **1815** by the Final Act of the Congress of Vienna

Headquarters: **Strasbourg**/Palais du Rhin since 1919/1920

Today **5 member States: Germany, Belgium, France, the Netherlands, Switzerland**

MAJOR PRINCIPLES OF THE RHINE REGIME

- **Freedom of navigation**, involving the dismantling of physical, fiscal and legal obstacles
- Equal treatment
- A prosperous navigation sector based on coordination of member States' waterways
- Single legal regime



CURRENT RHINE AND EUROPEAN MISSIONS



Regulatory authority

Police regulations
Inspection regulations
Navigation personnel regulations
European standards via CESNI
International Carriage of Dangerous Goods by Inland Waterway (ADN)



Court of appeal (independant)

Judgement in cases of appeal brought before the Commission against the judgements of Rhine navigation tribunals of first instance



Analysis and generating momentum

Market observation and economic studies
Harmonisation of the law
Infrastructure and environment (IEN)
Organisation of conferences/workshops/round tables
Technical assistance



Social assistance frame of reference

Administrative centre for boatmasters' social security (CASS)



CDNI

Convention on the collection, deposit and reception of waste generated during navigation on the Rhine and other inland waterways



INTERNATIONAL PARTNERS

11 observer States



8 observer organisations



19 organisations affiliated with the CCNR



03

THE IEN COMITTEE



A
27-strong
Secretariat
in Strasbourg

Organises
& prepares

FUNCTIONING

PLENARY SESSIONS
(2 times/year)
Resolutions

Ten or so committees

IEN

Twenty or so working groups



5 member States each appoint
4 commissioners and 2 deputy commissioners + experts



Top 10 topics of IEN

- **Coordination of construction works along the Rhine (above, under and alongside the Rhine) – consensual consent required**
- **Coordination of navigation interruptions (24/7 in general guaranteed)**
- **Scrutiny of water level development in the Rhine**
- **Climate change adaptation and mitigation (Roadmap)**
- **Low water adaptation**
- **Sustainable development of inland navigation**
- **Good Navigation Status, a EU concept to improve navigability**
- **Alternative fuels bunkering stations and landside electricity**
- **Quantity and quality of berths**
- **Smart Infrastructure**





CCNR Roadmap for reducing inland navigation emissions

Mannheim Declaration sets objectives to reduce air pollutants and greenhouse gases by 2035 and 2050.

Ministers of the Member States entrusted the CCNR with developing an emission reduction roadmap.

Roadmap as main energy transition public policy tool.

Determine how to reduce inland navigation emissions, including intermediate goals and milestones.

No silver bullet identified, energy transition needs time, energy mix depending on the vessel type/sailing profile

Inland waterway infrastructure needs to be adapted

Definition of infrastructure requirements needed for alternative fuels and electricity for propulsion

Scrutiny and where appropriate amendment of safety and statutory requirements for bunkering of alternative fuels

reduce



GHG

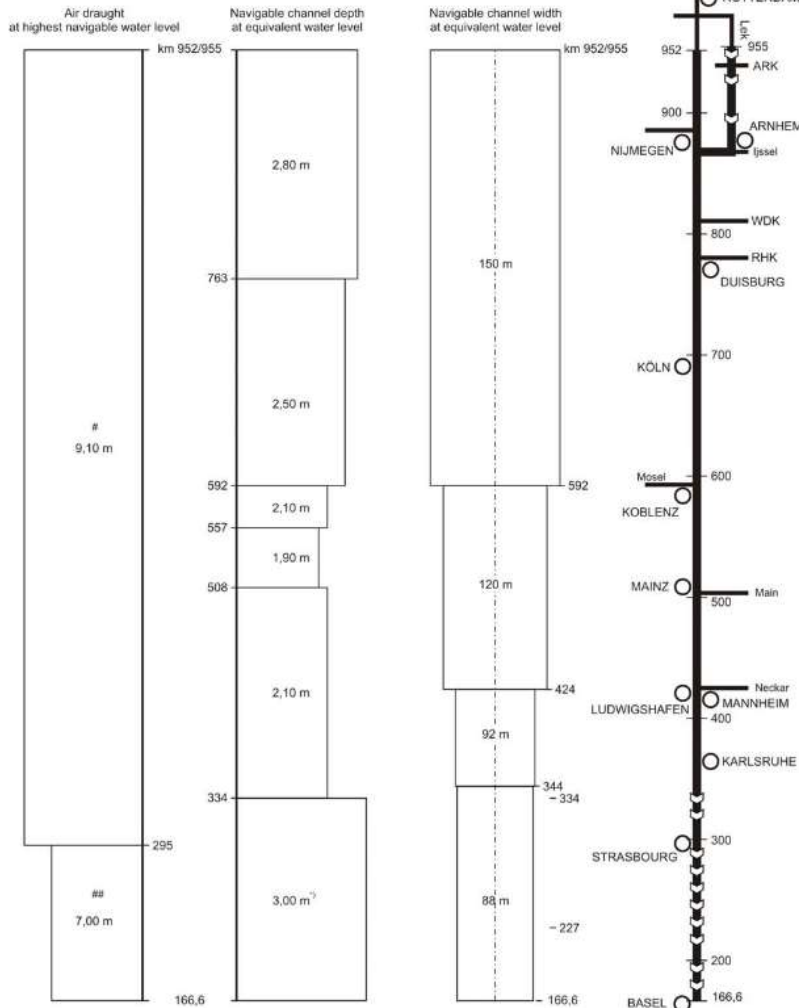
Air pollutants





WATERWAY PROFILE OF THE RHINE

WATERWAY PROFILE OF THE RHINE



km	Vessels		Pushed convoys		Formation ¹⁾
	Length [m]	Width [m]	Length [m]	Width [m]	
867,5	135	22,8	Waal 269,5 Lak ²⁾ 110,0	22,90 17,70	B
	135	17,7	Waal 193,0 Lak ²⁾ 186,5	34,35 11,45	T
	135	22,8	269,5	22,90	B
			193,0	34,35	T
564,3					
540,2	135 ³⁾	22,8	B 186,5 T 116,5	22,90	
	135	22,8	193,0 153,0	22,90 34,35	
359,8					
334,0	135	22,8	193,0	22,90	
	135	22,8	270,0	22,90	
287,4	135	22,8 ⁴⁾	183,0	22,80 ⁴⁾	

04

INFRASTRUCTURE MANAGEMENT



Infrastructure management and navigability

Grand Canal d'Alsace – Ship Canal





Infrastructure management and navigability

Iffezheim: Gravel pit, ship lock, power plant, weir





Infrastructure management and navigability

Berthing places



Infrastructure management and navigability

Bedload feeding



Begin



During ...



End



Infrastructure management and navigability

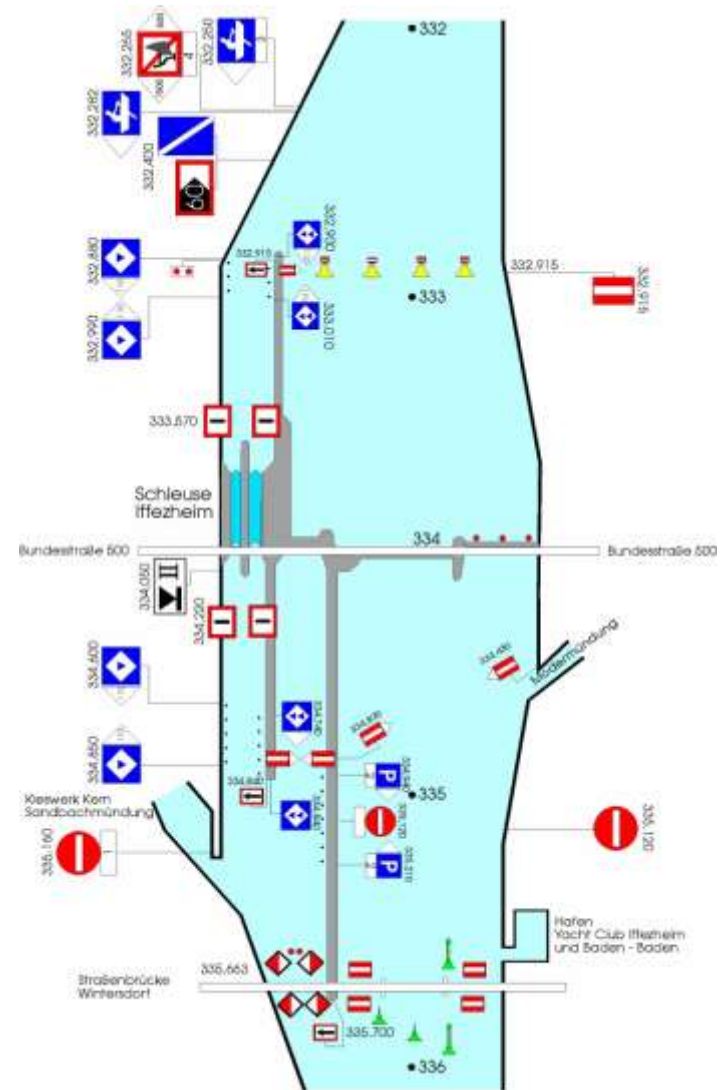
Maintenance and fairway dredging





Infrastructure management and navigability

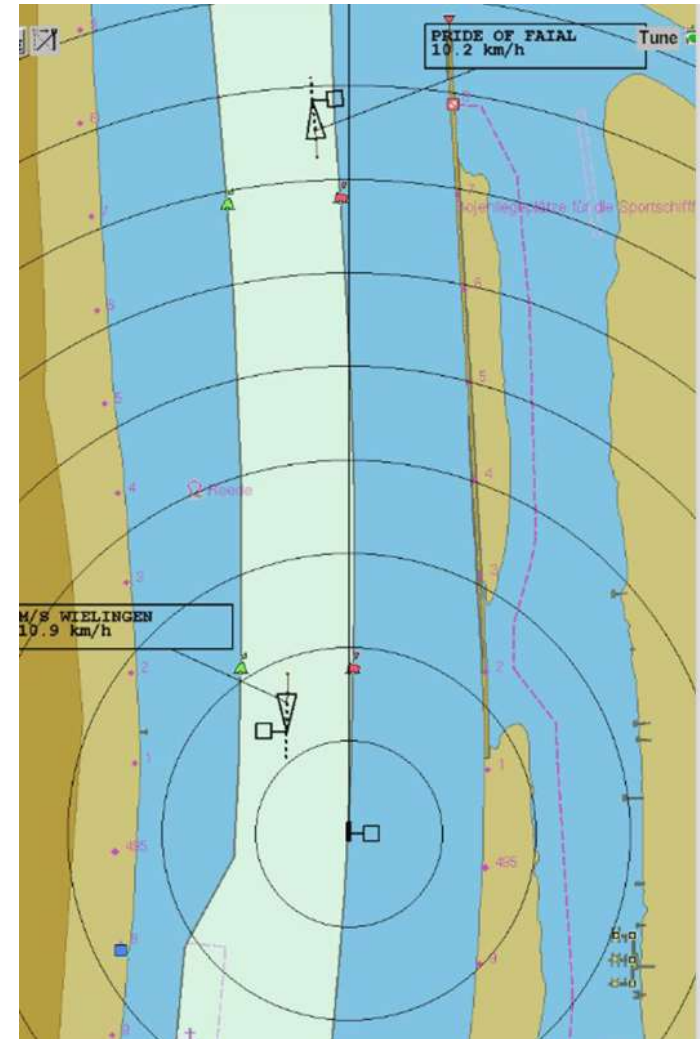
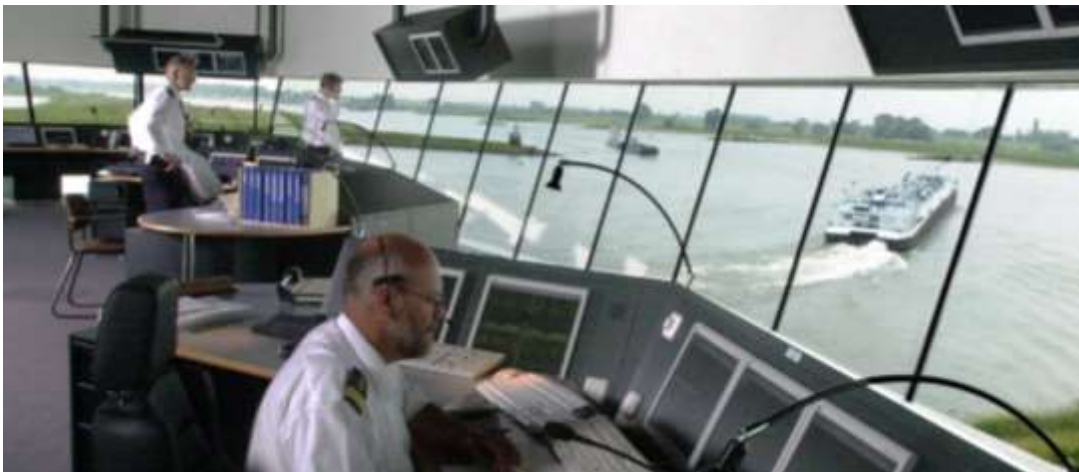
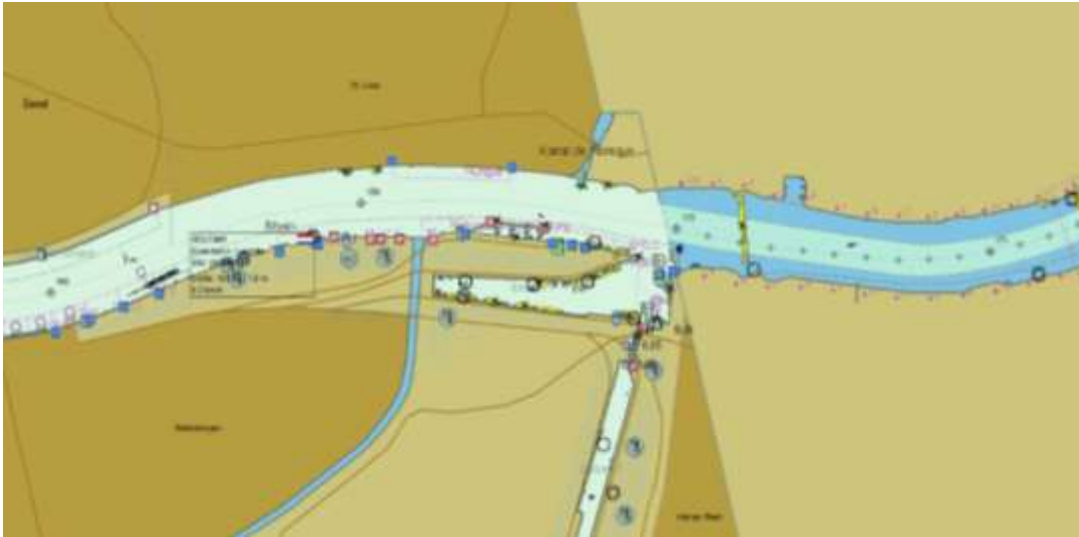
Fairway surveying and marking





Infrastructure management and navigability

Electronic charts (ECDIS), traffic centers and inland AIS





Infrastructure management and navigability

Corridor Management – River Information Services (RIS)

← → ↻ 🏠 <https://e-nis.eu/en/inf/> 90% ☆ ⚙️ 📄 ☰

Trafic actuel ● ● ● 188

ALERTE CRUE Le niveau d'eau a dépassé une marque de crue sur au moins l'une des échelles du réseau. Pour en savoir plus, cliquez sur "Restrictions en période de crue"

Sas d'écluse indisponibles

Nom du sas	Date	Date de fin (approximative)
GAMBESHEM OUEST	01/06/2021 09:45	Non renseignée
GERSTHEIM PETIT SAS (EST)	17/05/2021 07:00	06/06/2021 10:00
RHINAU PETIT SAS (EST)	25/05/2021 07:00	06/06/2021 10:00
MARCKOLSHEIM PETIT SAS (EST)	07/06/2021 07:00	03/09/2021 10:00
VOGELGRUN PETIT SAS (EST)	10/05/2021 07:00	30/07/2021 10:00
VOGELGRUN PETIT SAS (EST)	10/05/2021 08:30	Non renseignée
FESSEMEIM PETIT SAS (EST)	17/05/2021 07:00	17/09/2021 10:00
OTTMARSHHEIM PETIT SAS (EST)	03/06/2021 07:00	06/10/2021 10:00

Niveaux d'eau

Echelle	Date (actuelle)	Hauteur (cm)
MAAUI	01/06/2021	402
MWENCE	01/06/2021	380
CAISE	01/06/2021	390
STRASBOURG AVAL	01/06/2021	200

Hauteurs libres

Port	Hauteur libre actuelle (cm)
PONT DE CHALAMPE	749
PONT RAIL STRASBOURG-REIL	777

Carte

Avis à la batellerie

N° d'avis à la batellerie	Nom de l'avis	Etat	Date et heure de fin
FR/2021/02017	Rhône canalisé	🟡	Travaux de maintenance - Travaux de signalisation port de l'Europe
FR/2021/02095	Canal du Rhône au Rhin branche sud	🔴	Indisponibilité d'un sas dimensionnement - Anvers sur ouvrage - Ecluse secondaire de l'île
FR/2021/02725	Rhône canalisé	🟡	Indisponibilité d'un sas non dimensionnement - Chénages - Ecluses de Rhéins - Petit Sas
FR/2021/02063	Grand Canal d'Alsace	🔴	Enter les remous - Exercice (autres que militaires) - SOIS arrêtement à la plongée
FR/2021/02064	Canal du Rhône au Rhin branche sud	🔴	Enter les remous - Exercice (autres que militaires) - SOIS Eclaircie de plongée
DE/2021/1032	Rhône à courant libre	🟡	Indisponibilité d'un sas non dimensionnement - Travaux - Rhin Saal
FR/2021/02064	Rhône canalisé	🟡	Indisponibilité d'un sas non dimensionnement - Chénages - Ecluses de Marckolsheim - Petit Sas



THANK YOU FOR YOUR ATTENTION

GRACIAS POR SU ATENCIÓN

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