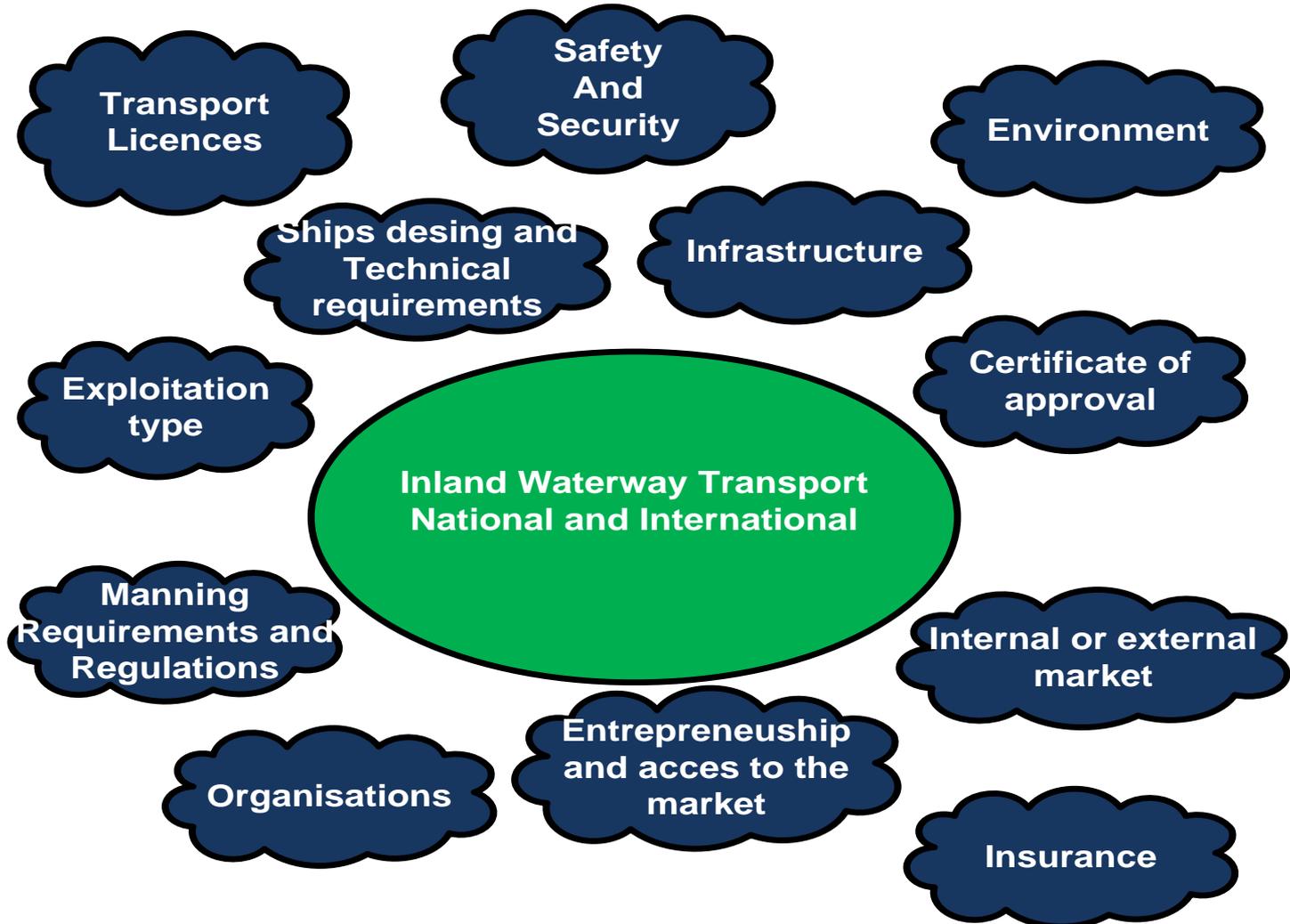
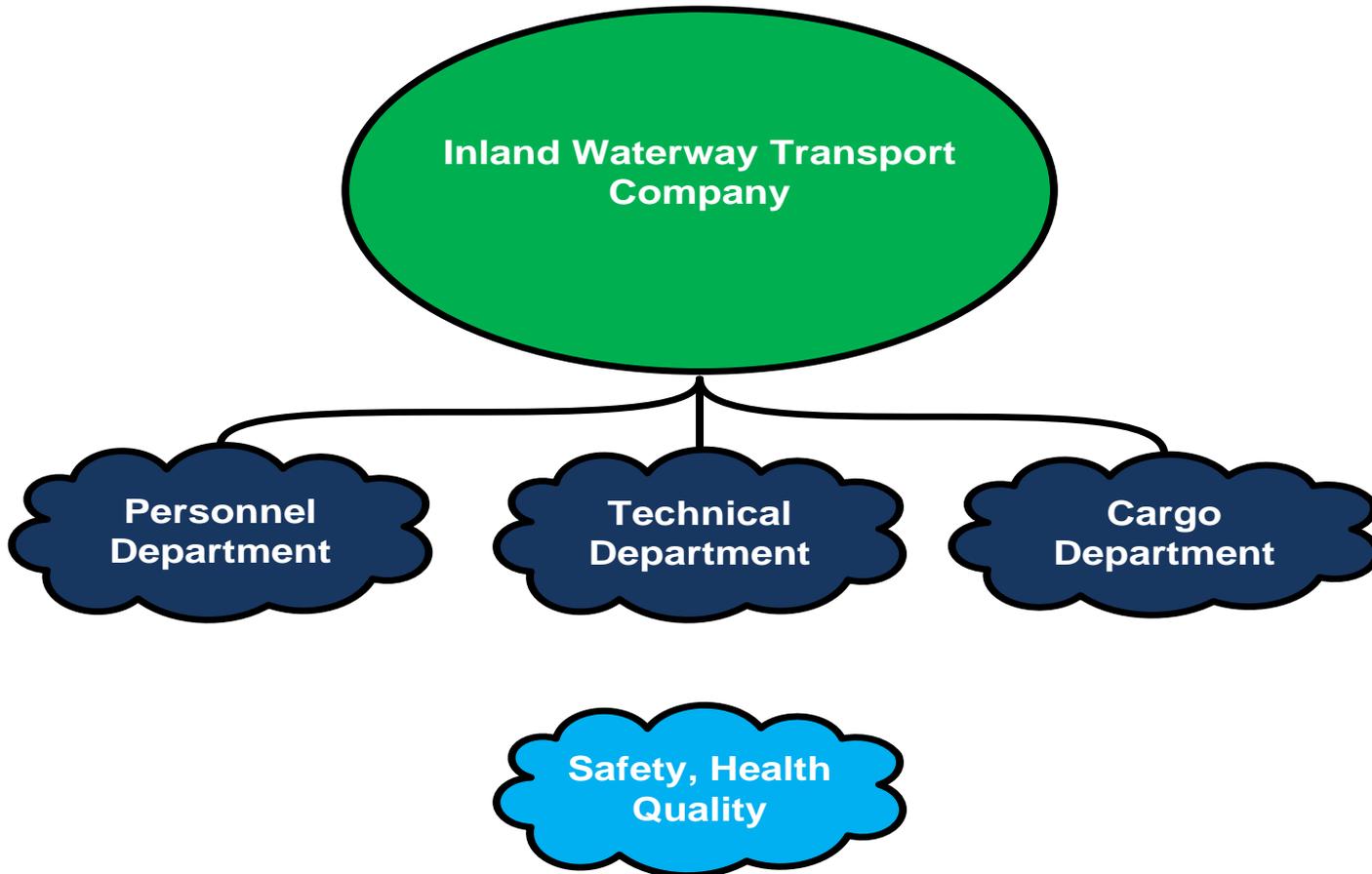


Internationaal beleid en wetgeving



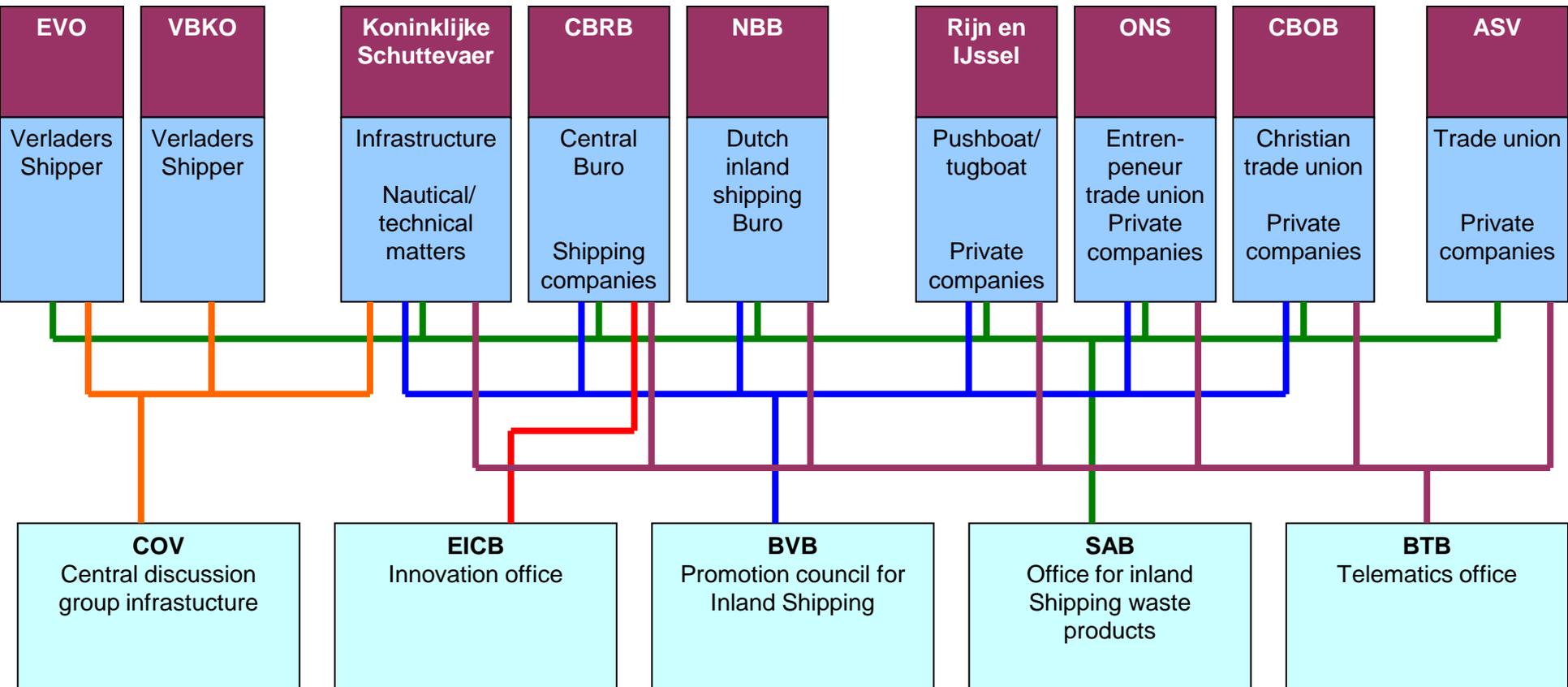
Management of a IWT company



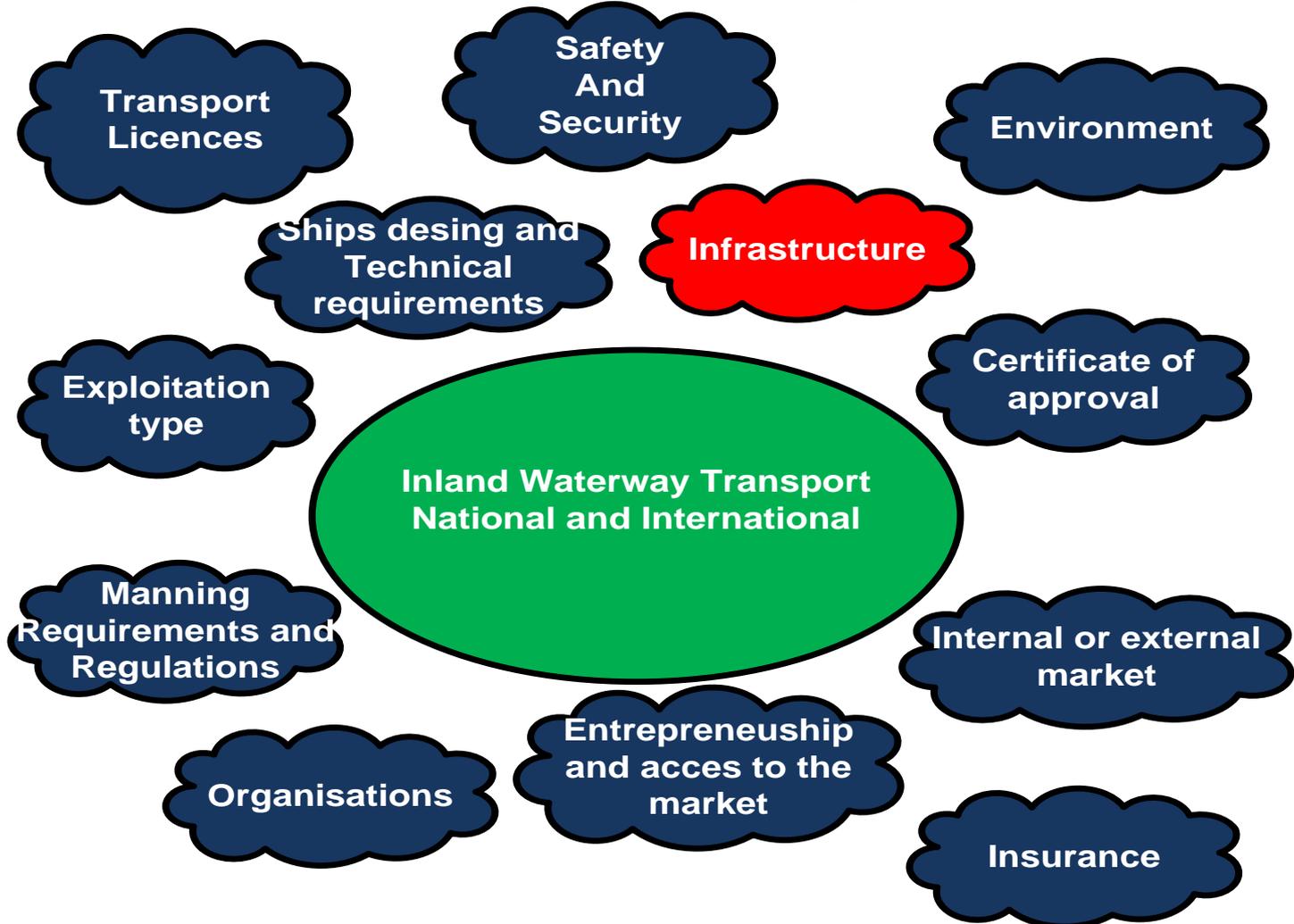
Internationaal beleid en wetgeving



Supporting Organisations National and International



Internationaal beleid en wetgeving



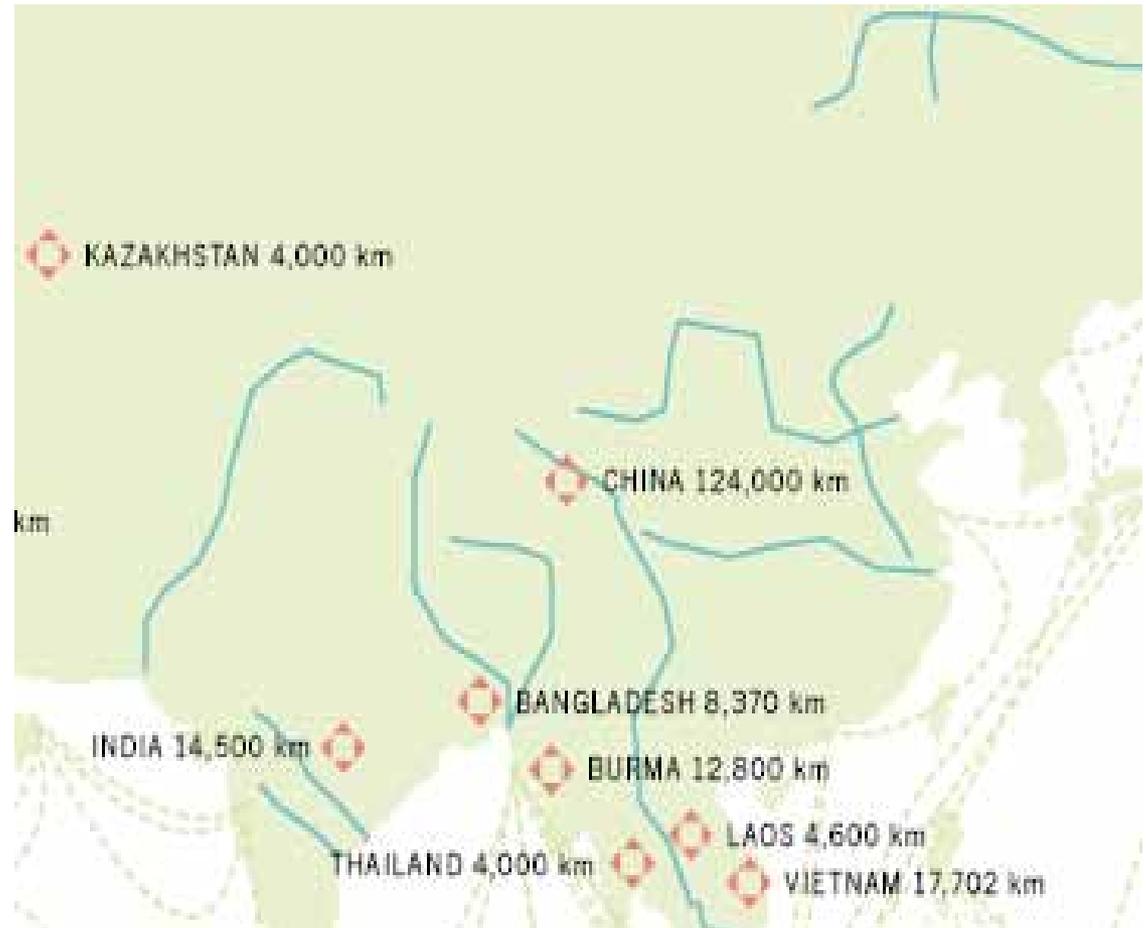
Total length of navigable waterways per country

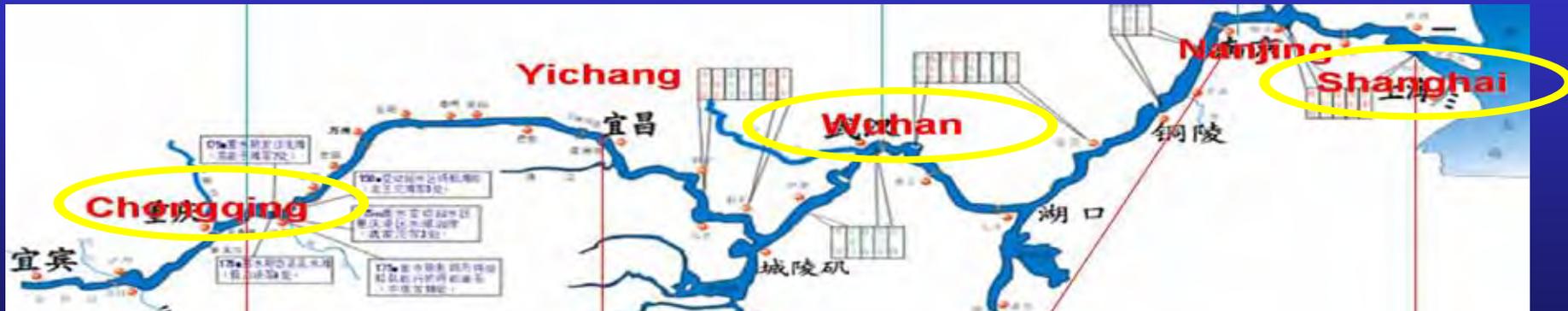
Waterways

Top 5 longest waterways

China	124,000 km
Rusland	102,000 km
Europa	51,668 km
Brazilië	50,000 km
Verenigde staten	41,009 km

Source: Nation Master 2008





二、国际内河航运信息化相关发展

ü 欧洲RIS系统

20世纪末期，欧洲各国开发了本国的内河信息系统

- 荷兰的IVS90 系统
- 比利时的IBIS/GINA 系统
- 德国的ELWIS 系统
- 法国的VNF2000 系统
- 匈牙利的DISR 系统
- 奥地利的DoRIS 系统

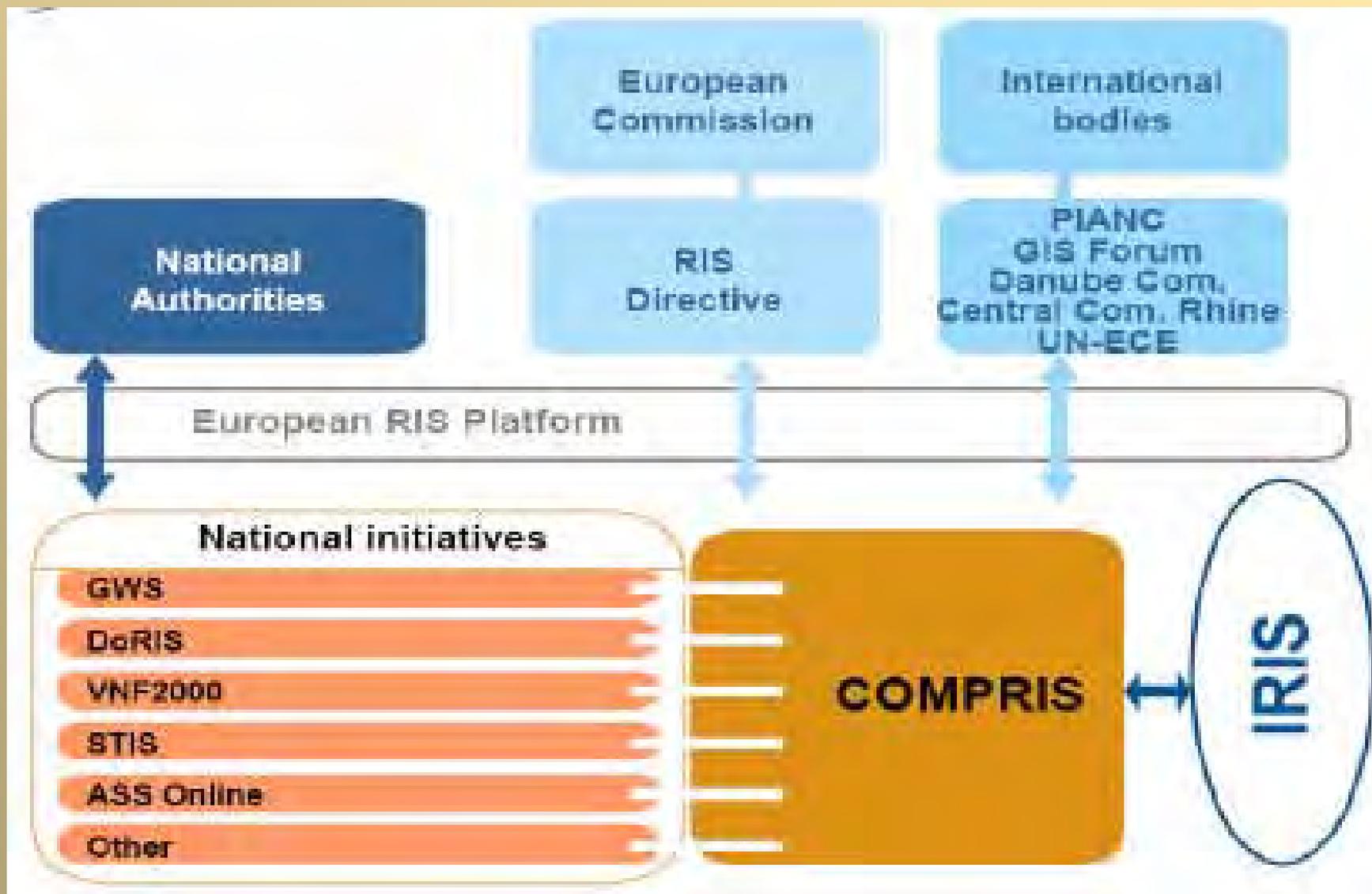
∅ 相对独立、资源整合难、信息共享程度不高、系统兼容性差

二、国际内河航运信息化相关发展

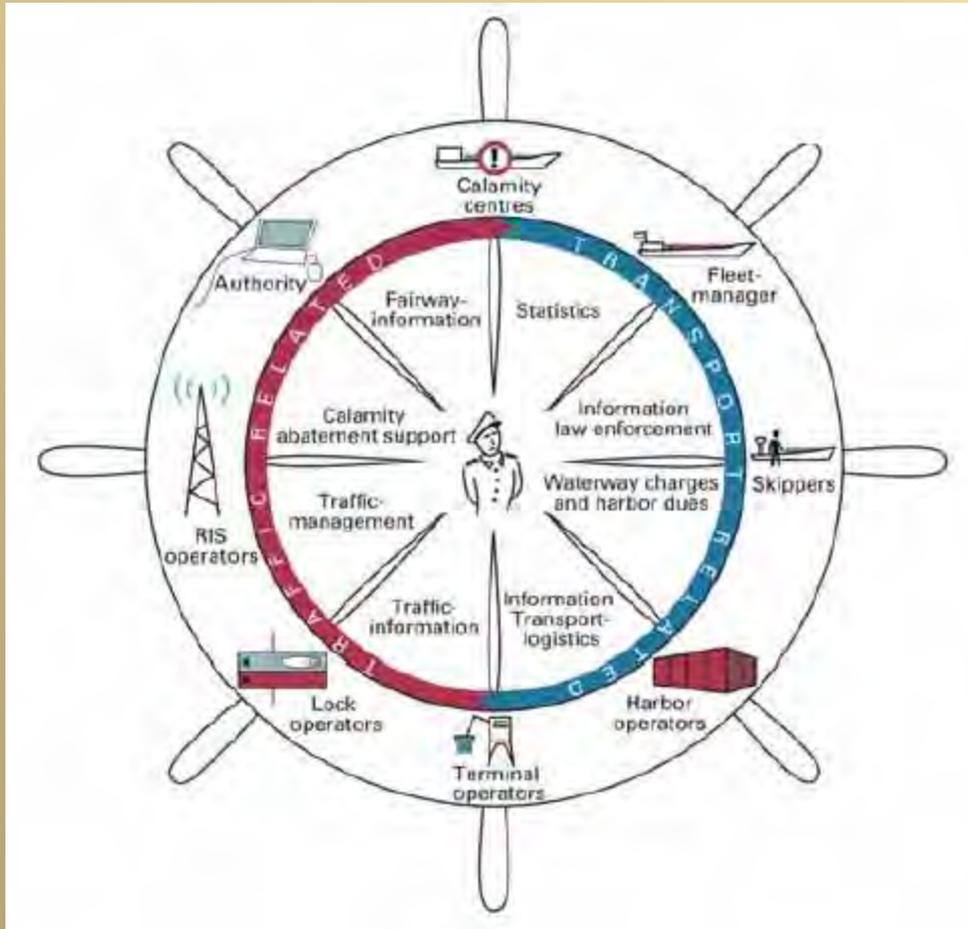
ü 欧洲RIS系统

- 为此，欧盟提出了发展内河航运综合信息服务（River Information Service, RIS），即通过构建统一的RIS系统，促进欧洲内河航运信息系统的协同化与规范化，消除各国制度、法规不一致所带来的障碍，以保障内河跨国、跨区域航运的高效、经济与安全性，进而推动欧洲内河航运业整体发展。

二、国际内河航运信息化相关发展



三、欧洲RIS的功能和优点



信息和通信技术创新

» 航道信息服务

(动态, 静态)

» 交通信息服务

» 交通管理

» 运输和物流信息

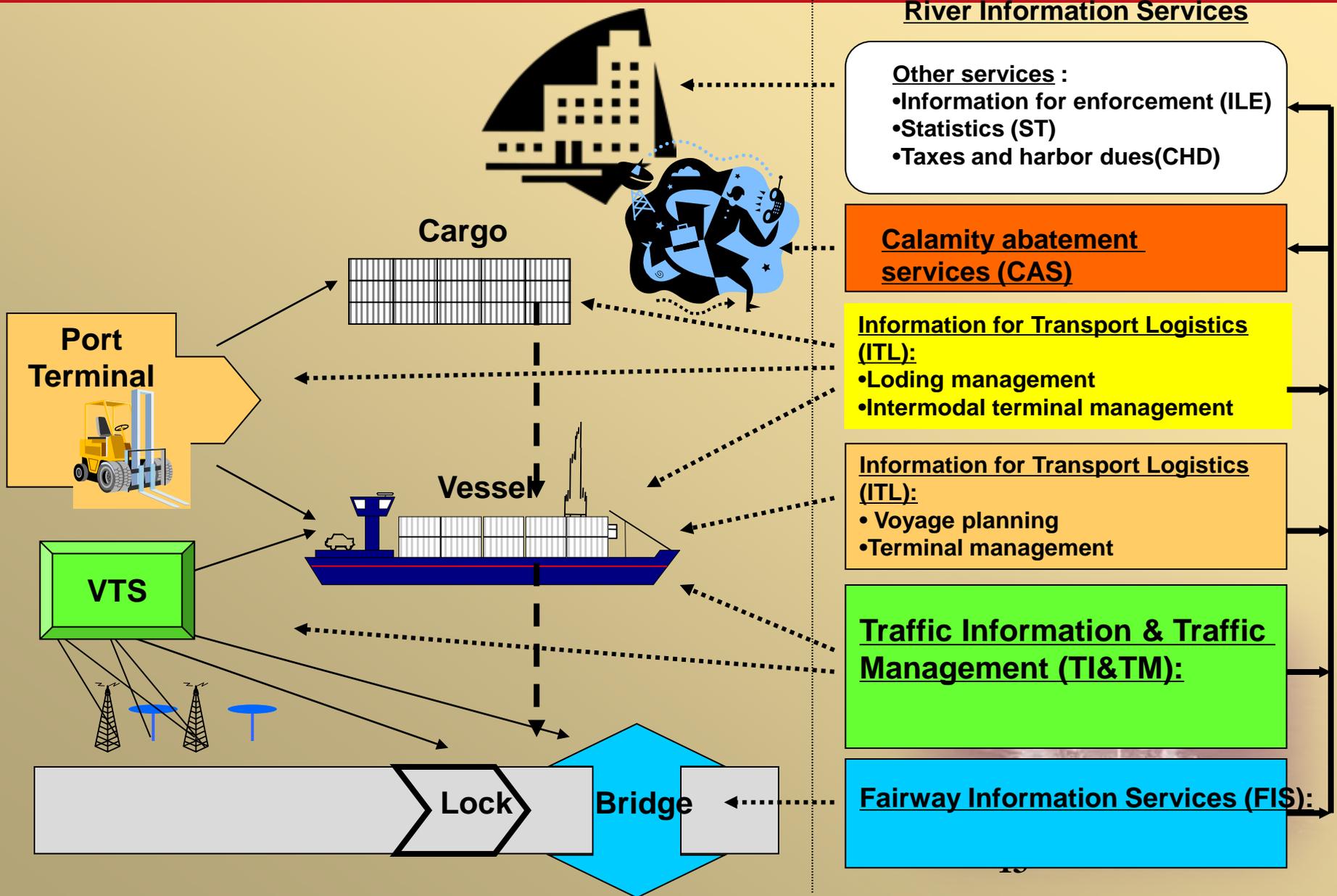
» 执法信息

» 消除隐患

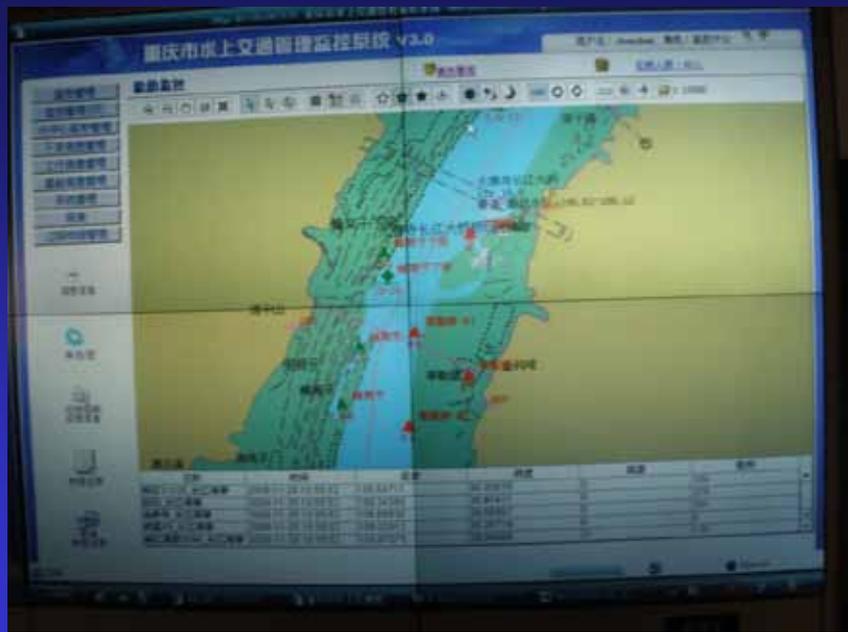
» 航道和港口收费

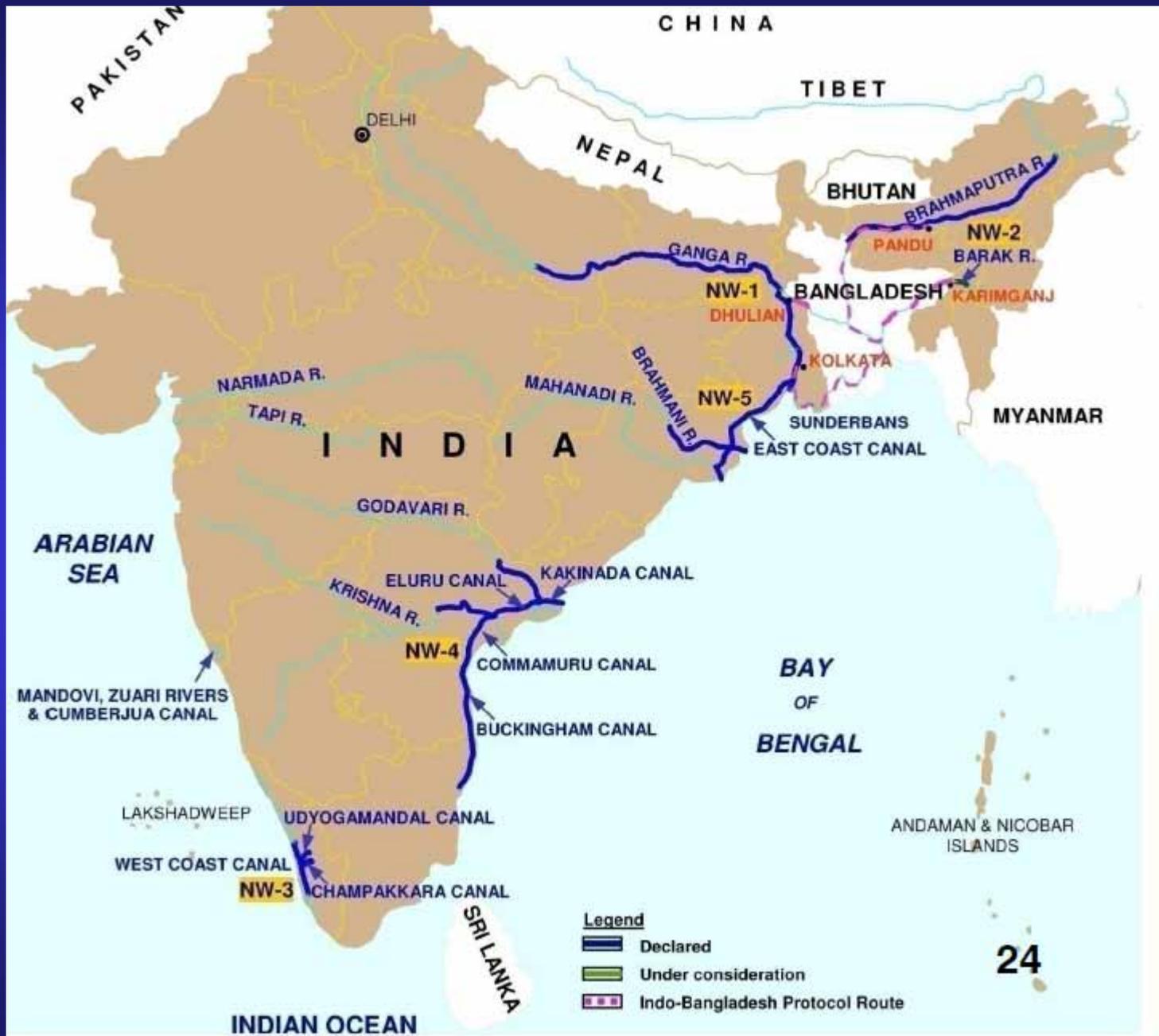
» 统计

三、欧洲RIS的功能和优点





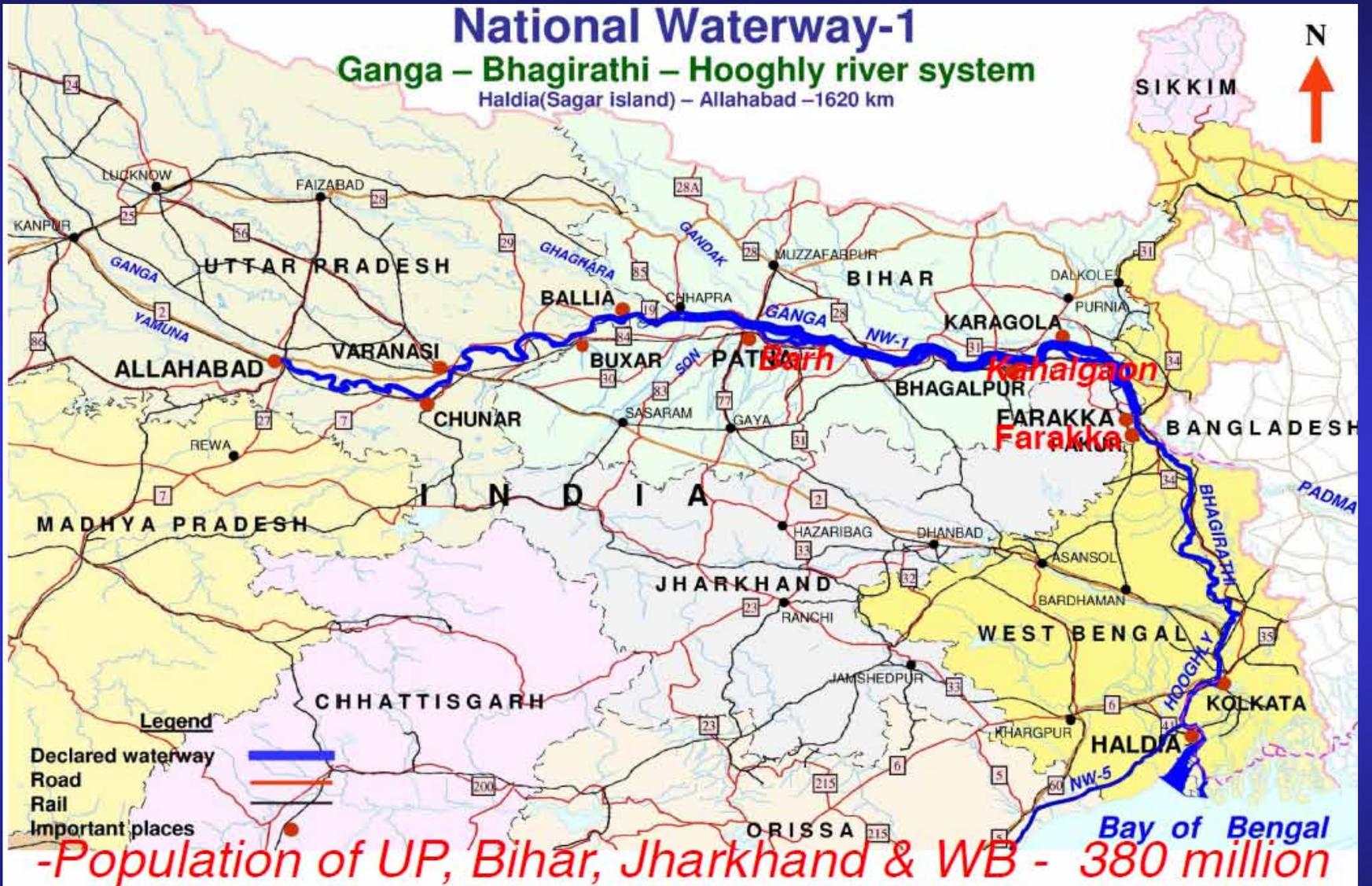


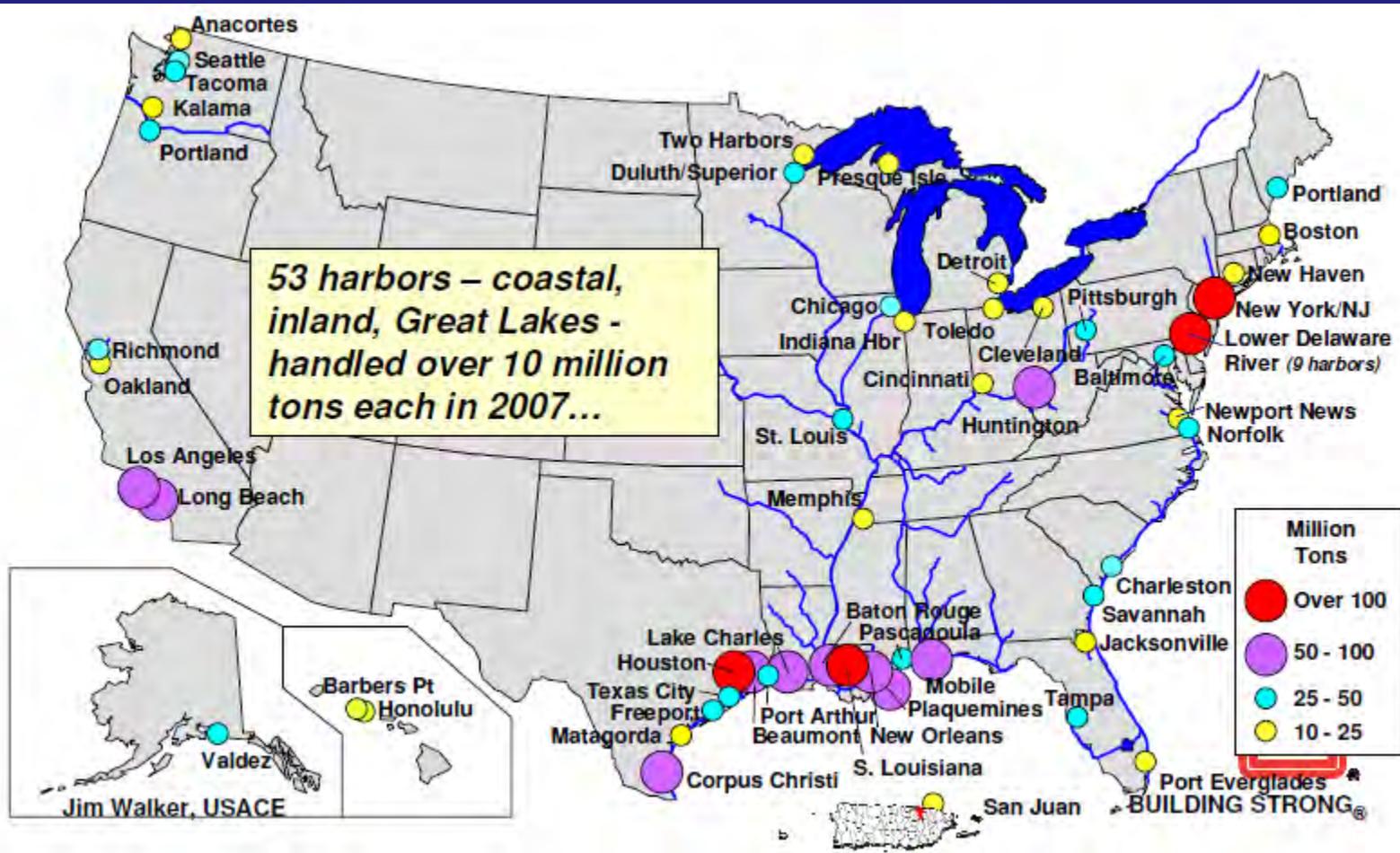


National Waterway-1

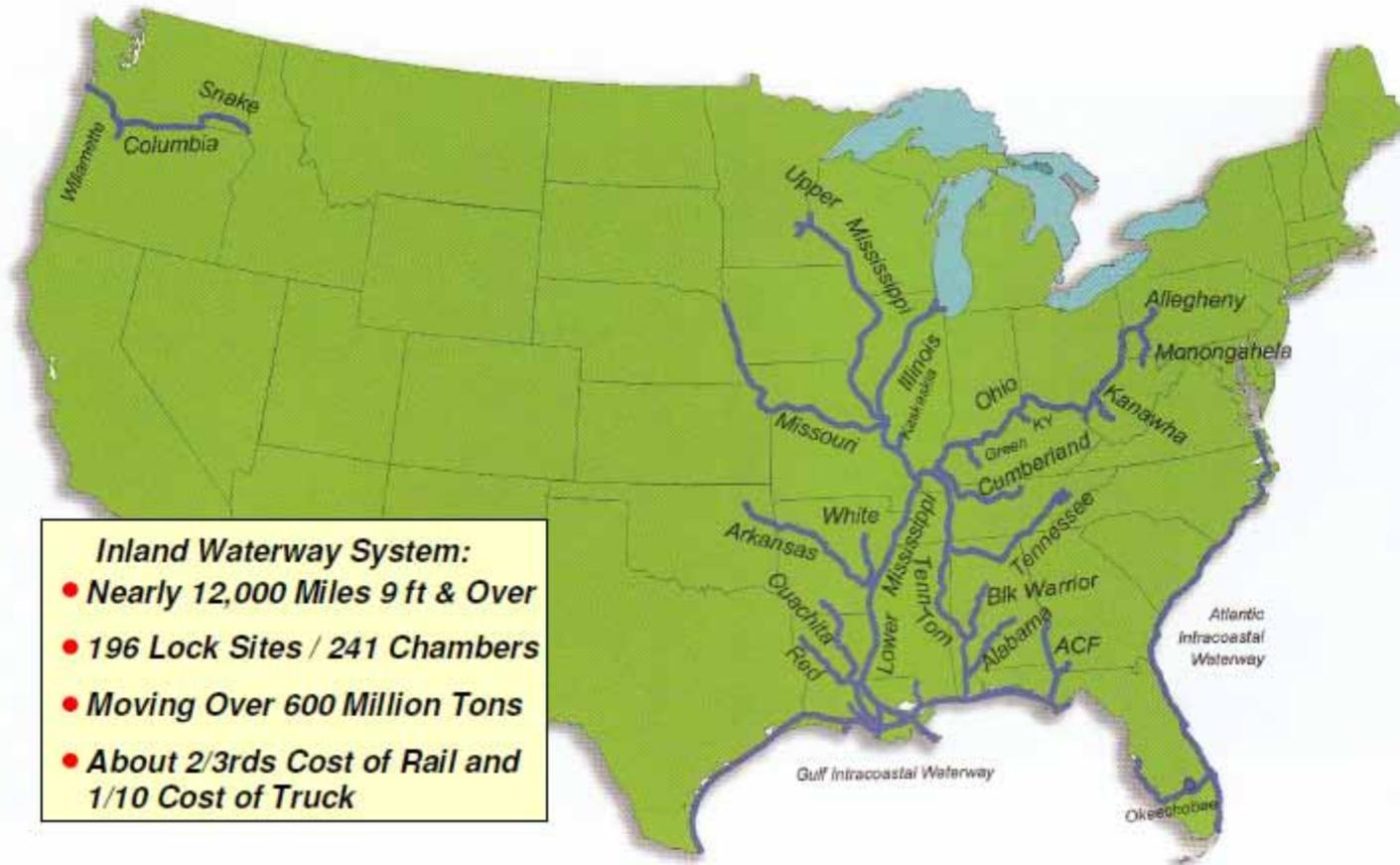
Ganga – Bhagirathi – Hooghly river system

Haldia(Sagar island) – Allahabad –1620 km





U.S. Inland Waterway System



Total length of navigable waterways per country

— Waterways

Top 5 longest waterways

China	124,000 km
Rusland	102,000 km
Europa	51,668 km
Brazilië	50,000 km
Verenigde staten	41,009 km

Source: Nation Master 2008



Inland Waterway Transport in Brazil

1. Background

- a) Main Inland Waterways
- b) Brazilian Most Important Locks
- c) Inland Waterway Transport Characteristic
- d) Inland Waterway Transport Main Problems

2. Present and Future Measures

- a) National Plan of Logistics and Transport
- b) Guidelines for a National Policy on Inland Waterway Transport
- c) Strategic Inland Waterway Plan



11 Main Inland Waterways
Total Length: 63.000 km but
 only **13.000km** are used.

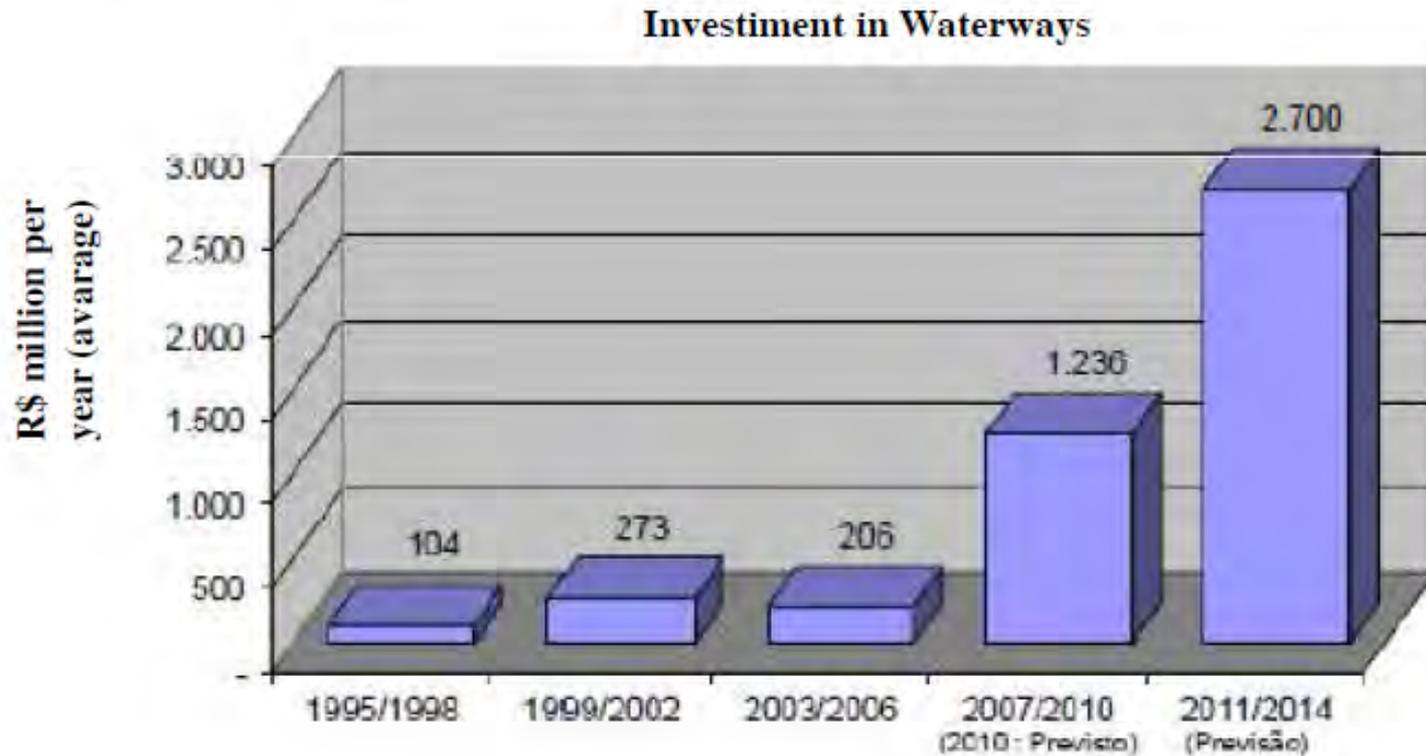
- ◆ Amazon Basin
- ◆ North-eastern Basin
- ◆ São Francisco Basin
- ◆ Tocantins Araguaia Basin
- ◆ Paraguay Basin
- ◆ Tietê-Paraná Basin
- ◆ Southeast Basin
- ◆ South Basin

Brazil IWT : Main problems

- Insufficient regulatory framework
- Lack of integration with other transport modes
- Connection with sea ports
- Maintenance dredging required
- Long procedures to get environmental licenses
- Construction of hydroelectric plants without locks

National Plan of Logistics and Transport

The Federal Government established a broad long term strategy of investments in the waterway transport sector



Guidelines for a National Policy on Inland Waterway Transport

1. Strengthen public management in the waterway sector:

- Qualified technical staff
- Resources for studies, design and construction
- Appropriate organizational structure

2. Improve the service level of passenger transportation;

- Modernization of port infrastructure
- More rigorous monitoring and greater effectiveness in regulating
- Modernization of vessels and financial system for shipbuilding stimulation

3. Implement the priority locks(62 locks until 2026): 12,7 bilions of euros

Guidelines for a National Policy on Inland Waterway Transport

4. Regulate the environmental licensing of interventions in waterways;
 - Object to be licensed
 - Common understanding of technical concepts
5. Develop national program of waterway maintenance;
6. Expand the knowledge on navigability conditions;
7. Priority to specific links: high feasibility and assure access to important sea ports;
8. Give support to the Brazilian Navy program to train human resources for inland waterway transport

Guidelines for a National Policy on Inland Waterway Transport

9. Develop intermodal terminals and rail and highway access in the waterways;

10. Assure inland waterway access to northern ports;

11. Propose institutional measures to promote inland waterway transport

- Exemptions for fuels and lubricants
- Multimodal Operator: law improvement
- Policy to promote the renewal of the Brazilian shipbuilding industry
- Permit the vessels importation

Guidelines for a National Policy on Inland Waterway Transport

12. Create a board of users of inland waterway transport in the watersheds

13. Expand the relationship with the control institutions

14. Promote the inland navigation: Public and private organizations

- Industrial, agricultural, commercial and tourism sectors
- Universities, schools and research centers
- Financing institutions

Conclusion

- **An increase in the role of inland waterway transport should be considered a national priority in the context of the national transport policy.**
- **We would like:**
 - **Partnerships**
 - **Convince brazilian people about IWT benefits**
 - **Learn the best practices**
 - **Technical support**
- **We offer:**
 - **Favorable climate for good business**
 - **Possibility to contribute for Global Sustainable Development**
 - **Increasing levels of investiments in IWT infraestructure**
 - **Stable and strong economy**

Dimensions of waterways



Classification of waterways and barges

waterways are divided in different classes, depending on the measurements of the structural works



 SPITS length 38,50 m. beam 5,05 m. draught 2,20 m. loading capacity 350 tonnes	 14 X
 KEMPENAAR length 50 m. beam 6,60 m. draught 2,50 m. loading capacity 550 tonnes	 22 X
 DORTMUNDER length 67 m. beam 8,20 m. draught 2,50 m. loading capacity 900 tonnes	 36 X
 4-BARGE PUSH TUGS length 193 m. beam 22,80 m. draught 2,50/3,70 m. loading capacity 11.000 tonnes	 440 X
 CONTAINER SHIP length 50 m. beam 6,60 m. draught 2,50 m. loading capacity 24 teu	 24 X
 CONTAINER SHIP length 110 m. beam 11,40 m. draught 3 m. loading capacity 200 teu	 200 X
 CONTAINER SHIP JOWI CLASS length 135 m. beam 17 m. draught 3 m. loading capacity 470 teu	 470 X
 TANKER length 110 m. beam 11,40 m. draught 3,50 m. loading capacity 3.000 ton	 120 X
 CAR TRANSPORTER length 110 m. beam 11,40 m. draught 2,50 m. loading capacity 600 ton	 600 X
 RO-RO SHIP length 110 m. beam 11,40 m. draught 2,50 m.	 72 X

1 teu = 1 20-foot container

Maximum vessel dimensions according to CEMT (1992)						
Motor vessels						
Class	Tonnage	Length	Width	Draught		
		m.	m.	m.		
I	300	38,50	5,05	2,20		
II	650	55,00	6,60	2,50		
III	1.000	80,00	8,20	2,50		
IV	1.500	85,00	9,50	2,50		
V a	2.500	110,00	11,40	2,80		
VI b	6.000	140,00	15,00	3,90		
Push convoys					Barges	
IV	1.500	85,00	9,50	2,80	1	
V a	3.000	110,00	11,40	4,50	1	
V b	6.000	185,00	11,40	4,50	2	
VI a	6.000	110,00	22,80	4,50	2	
VI b	12.000	195,00	22,80	4,50	4	
VI c	18.000	270,00	22,80	4,50	6	
VI c	18.000	195,00	34,20	4,50	6	

CEMT-klasse

- II
- III
- IV
- Va
- Vb
- VIa
- VIb
- VIc





PROJECT N° 18

DG TREN

Trans-European Transport Network
Priority Projects

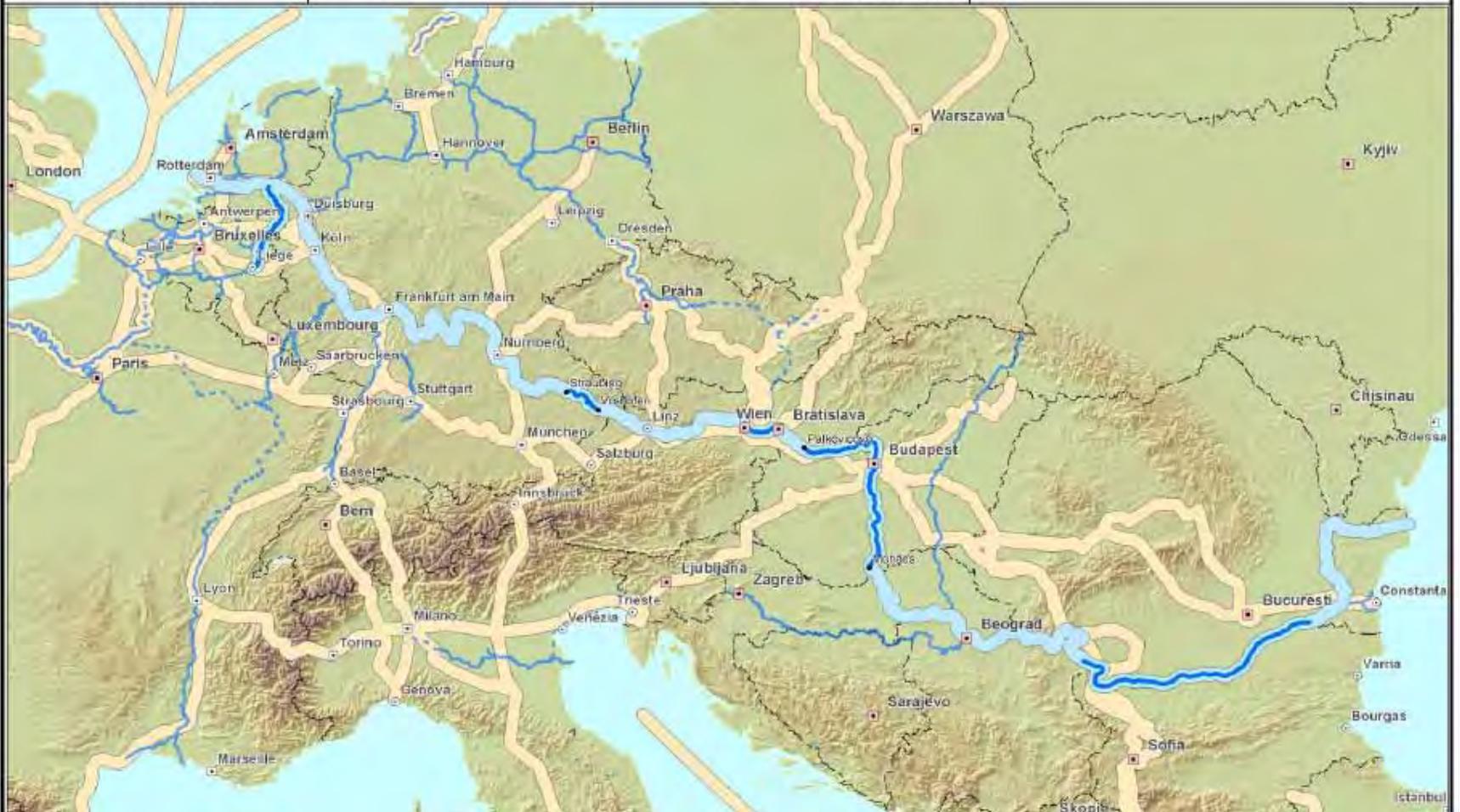
WATERWAY AXIS

RHINE/MEUSE-MAIN-DANUBE

- Existing inland waterway
- Planned inland waterway
- Priority axis n° 18
- Priority sections
- Other priority axes



© EuroGeographics 2011 for the administrative boundaries
Cartography: DG TREN, 10/2005



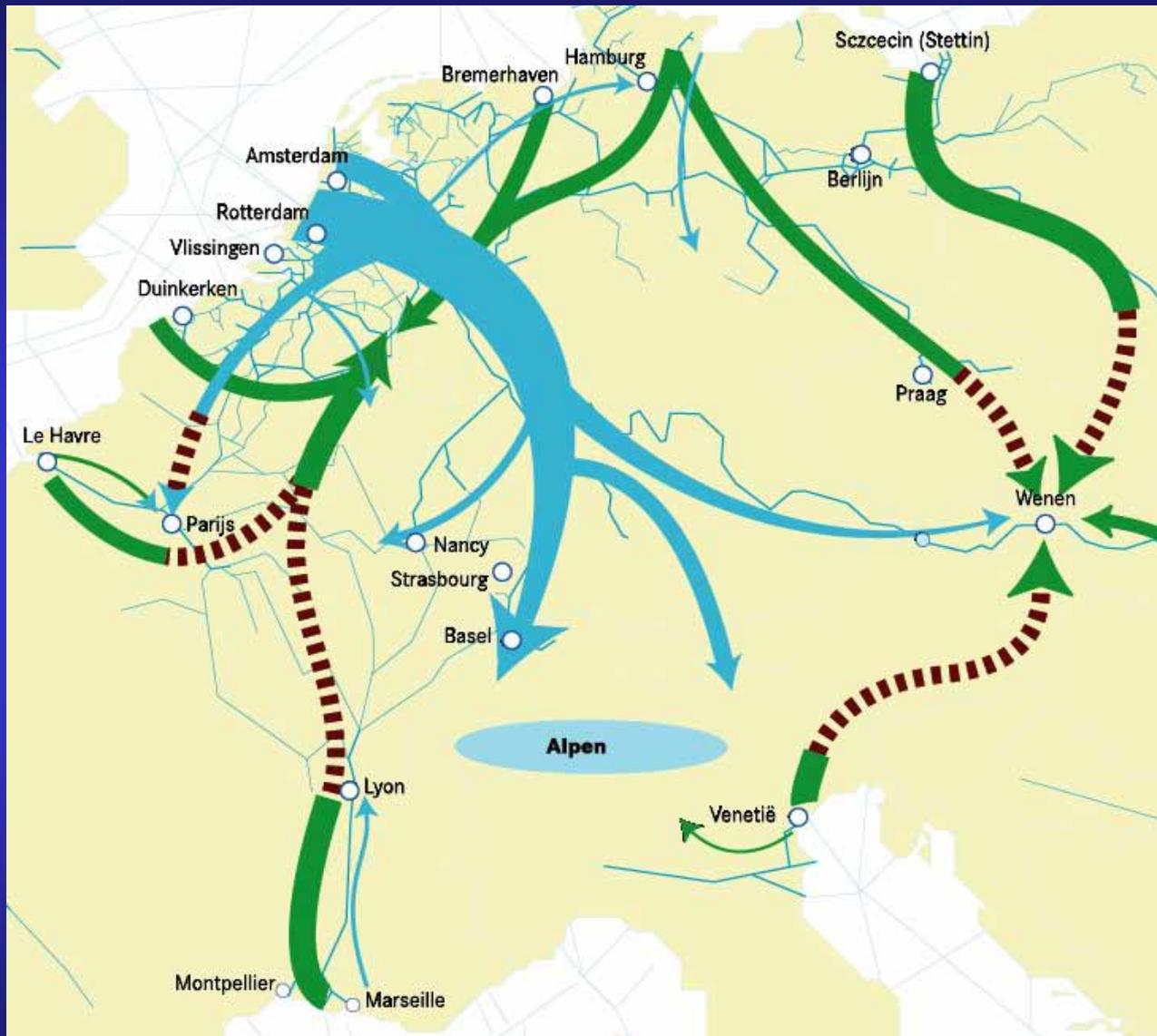


PROJECT N° 30
Trans-European transport network
Priority projects

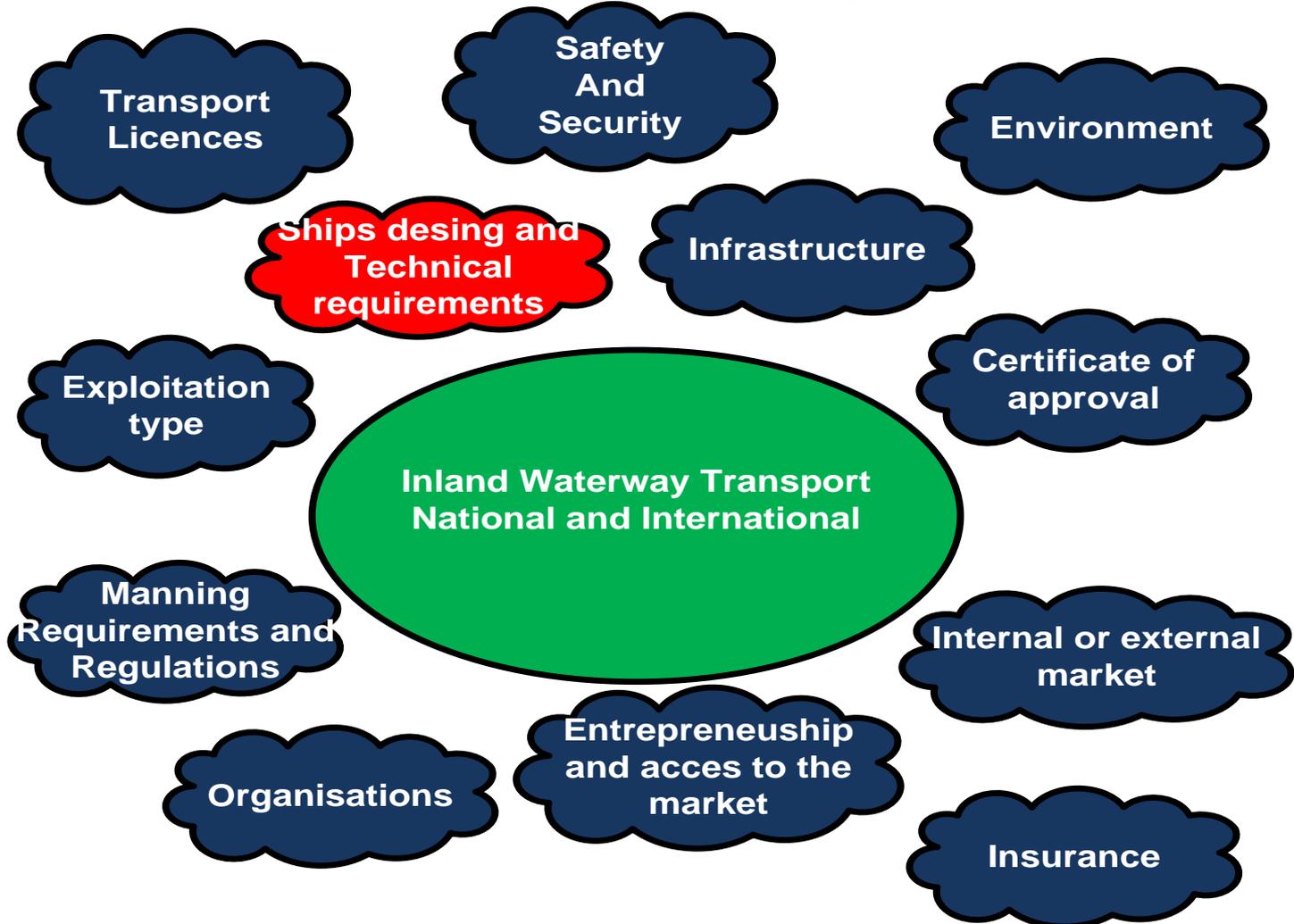
INLAND WATERWAY

SEINE-SCHELDT





Internationaal beleid en wetgeving





Building and requirement demands for an inland ship

- **Technical condition:**
- Certificate of investigation provided by the Shipping Inspectorate (EC 2006/87)
- Technical conditions for ships which are used for transport of **dangerous goods:**
- Certificate of approval type N, C or G.





Lengte:	110.00 m.
Breedte:	11.45 m.
Diepgang:	3.44 m.
Holte:	3.65 m.
Tonnage:	3006 ton
Max. teu's:	208
Motor:	Mitsubishi S 16 R-MPTK, 1250 kW/1700 pk, 1600 rpm







Lengte:	104.00 / 86.00 m.
Breedte:	11.45 m.
Diepgang:	3.60 m.
Tonnage:	3189 / 2786 ton
Max. teu's:	4 lagen 208 / 192
Motor:	2 x ABC 6 DZC, 1103 kW/1500 pk, 800 rpm

Inland Tankers

Lengte:	110.00 m.
Breedte:	13.50 m.
Diepgang:	4.20 m.
Tonnage:	4207 ton
Motor:	Caterpillar 3516 (B), 1492 kW/2028 pk, 1600 rpm



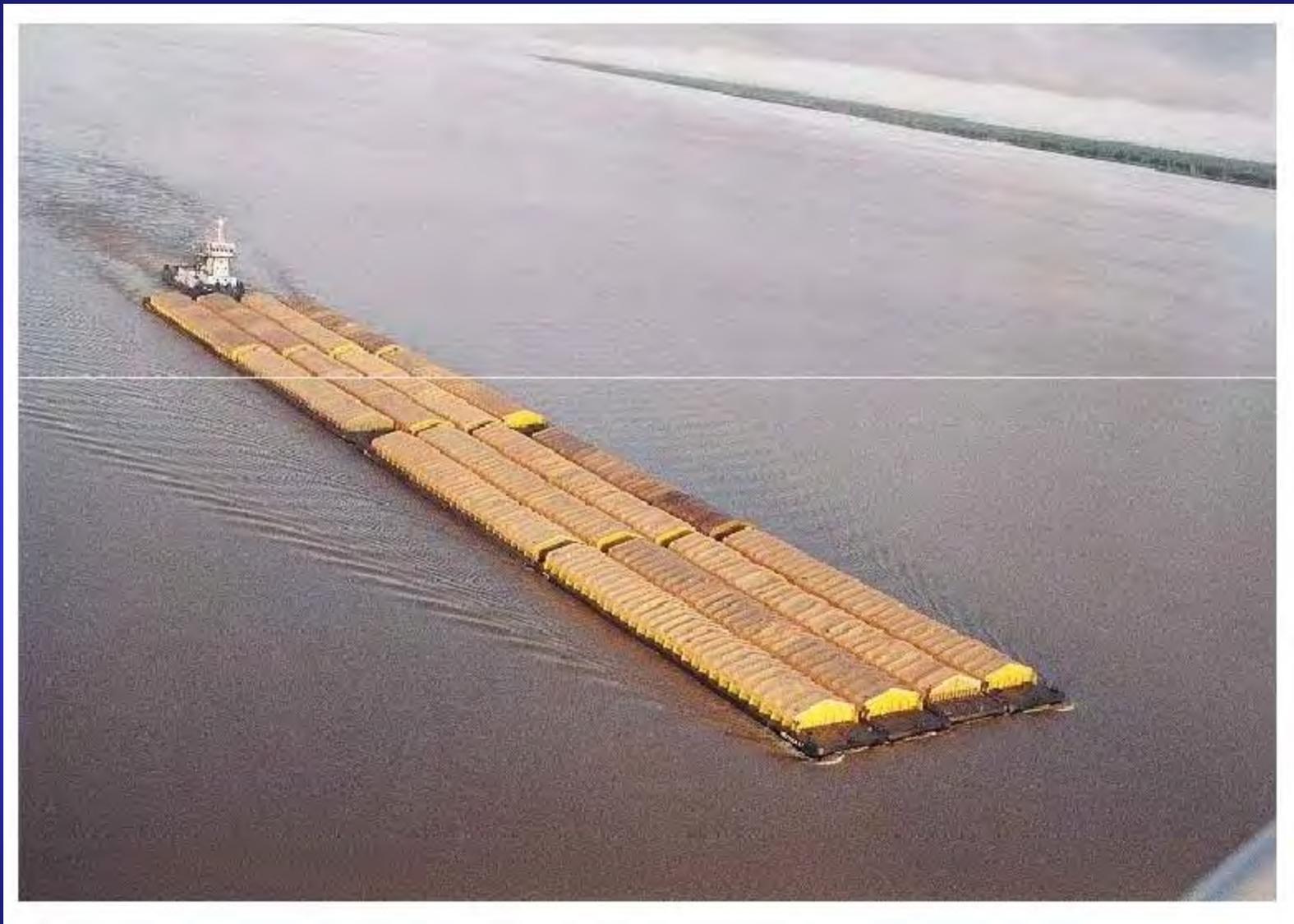


Lengte:	110.00 m.
Breedte:	11.45 m.
Diepgang:	2.80 m.
Holte:	5.60 m.
M³ :	2800 m ³
Motor:	2 x Mitsubishi, Type S12R-MPTA, 1197 PK, 1600rpm.

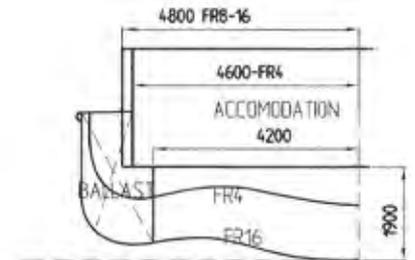
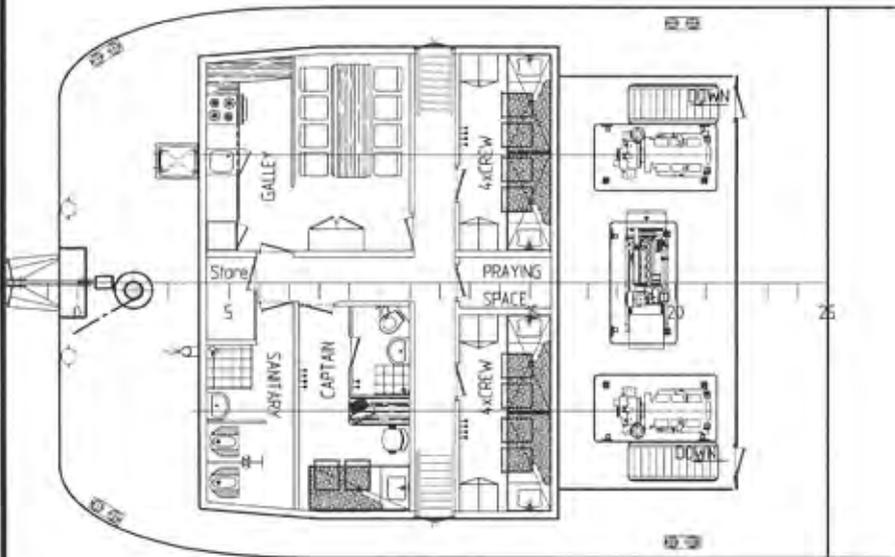
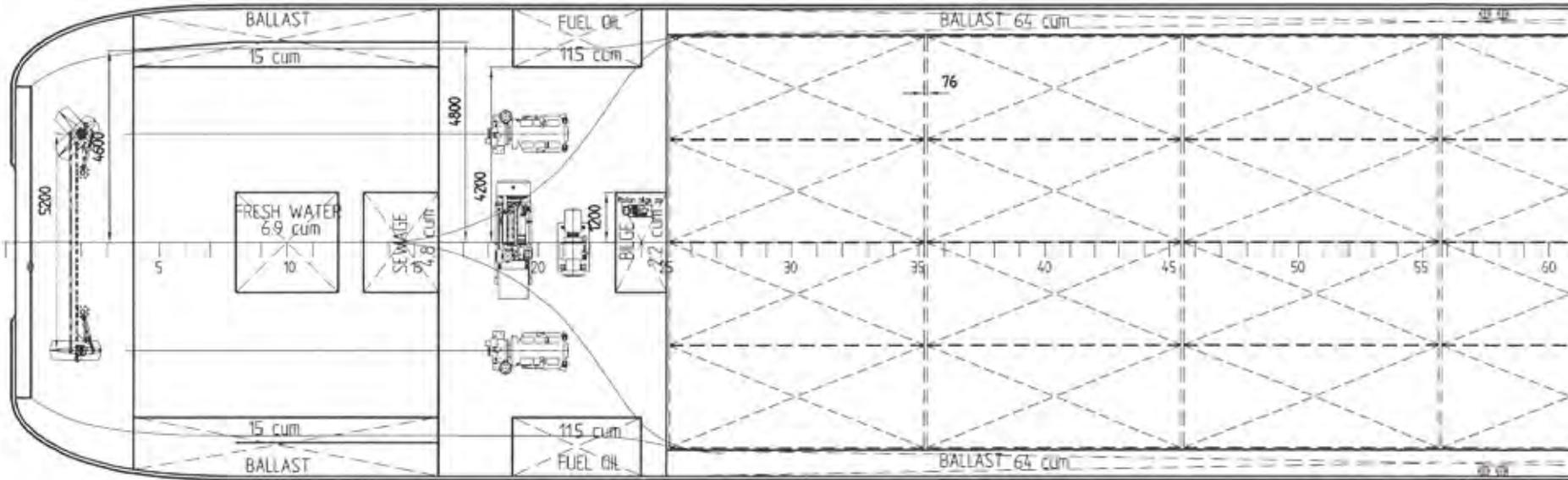


Lengte:	109.80 m.
Breedte:	11.40 m.
Diepgang:	3.56 m.
Holte:	5.05 m.
Tonnage:	2948 ton
M³ :	3250 (97%) m ³
Motor:	MTU 12 V 4000 M 60, 1321 kW/1797 pk, 1800 rpm





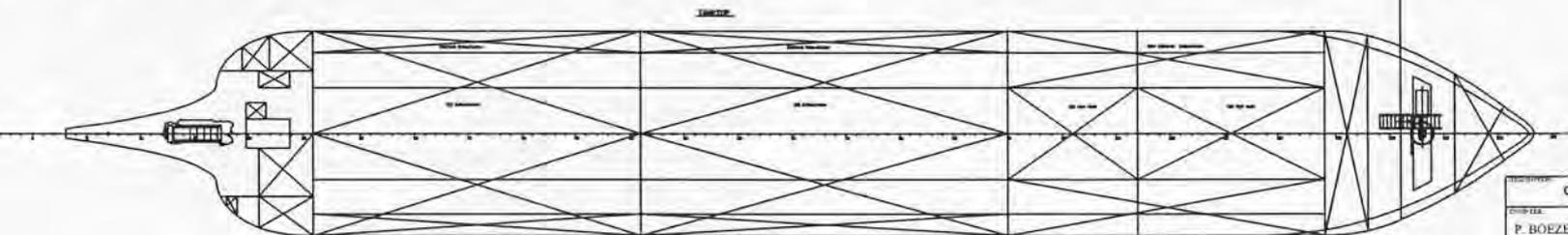
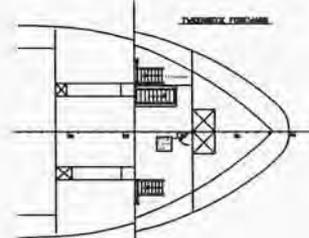
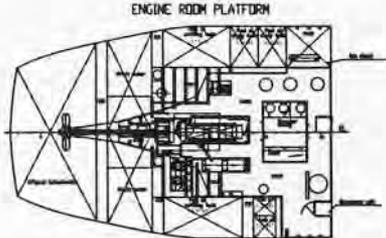
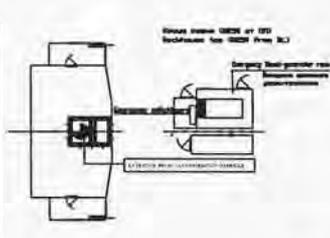
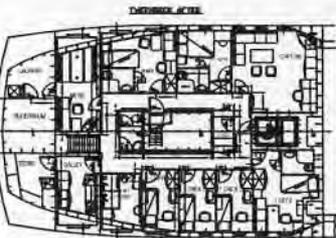
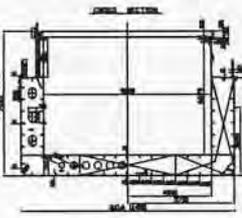
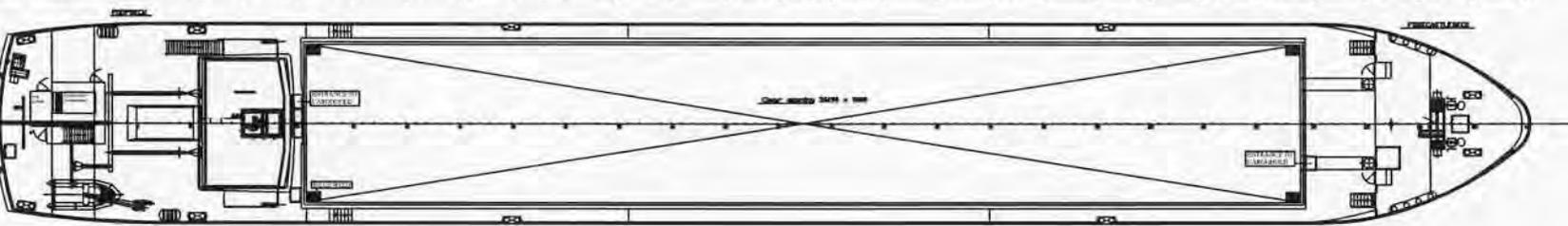
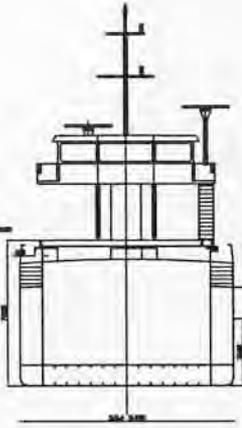
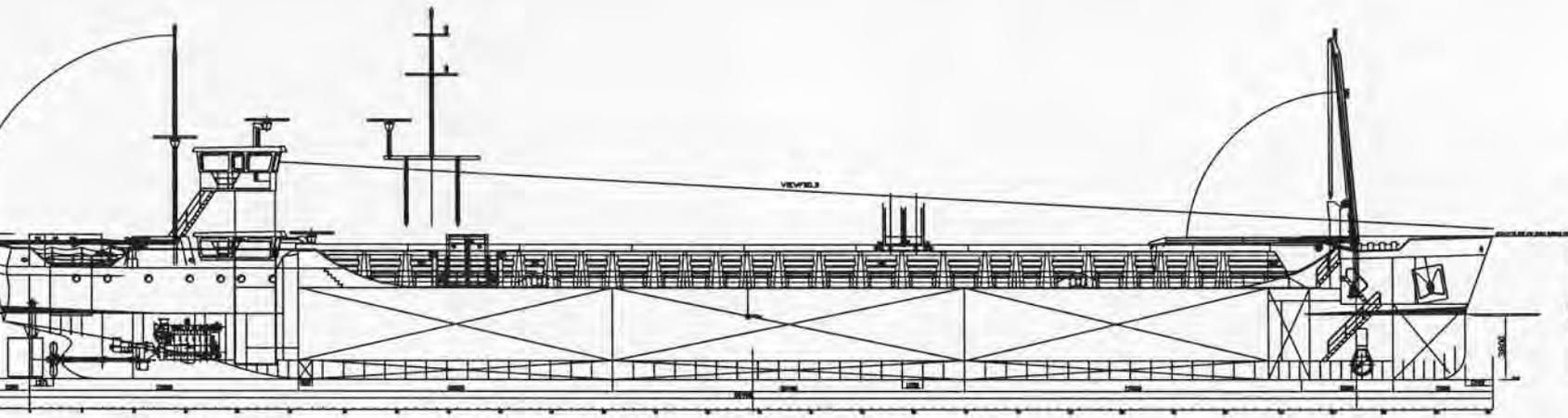




Shortsea shipping



- Is an intermodal transport of intra-european cargo on the basis of door/door, mostly in containers or trailers. A considerable part of the transport route goes over sea.



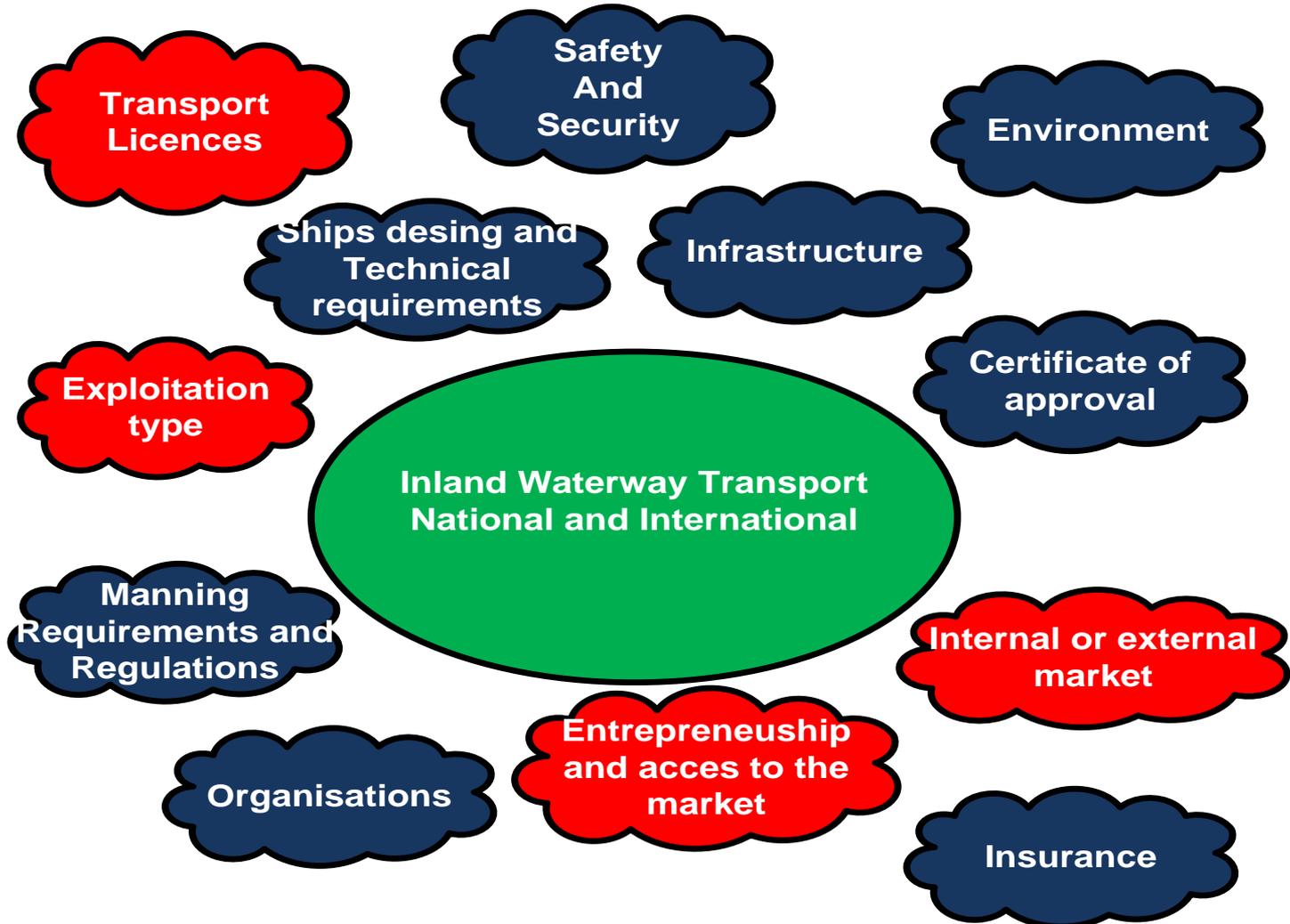
Length over all
 Length between perp's
 Breadth over all
 Breadth moulded
 Depth
 Draught
 Hold capacity
 Tonnage
 Main engine (maximum speed) approx
 Special loaded trial condition approx
 Tank capacities: ballast water approx
 fuel oil bunkers approx
 potable water approx

General arrangement plan			ANKE	
GROUP: P. BOEZEL	NO: A0	SCALE: 1:1000	DATE: 12/20/2001	REV: 0
Address: PO-BOX 1300 2200 SC (Middelburg) The Netherlands Tel: +31 58 43700 Fax: +31 58 43100 Email: info@shipbuilding.com			Shipbuilding DUTCH Shipbuilding Group B.V.	
Copyright © 2001 All rights reserved. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Shipbuilding Group B.V.			EDWARDS KA 9	



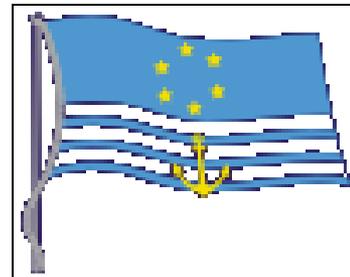
Lengte:	82.25 m.
Breedte:	11.30 m.
Diepgang:	3.45 m.
Tonnage:	1842 ton
Max. teu's:	48
Motor:	Caterpillar 3512 (B), 955kW/1299 pk, 1600 rpm

Internationaal beleid en wetgeving



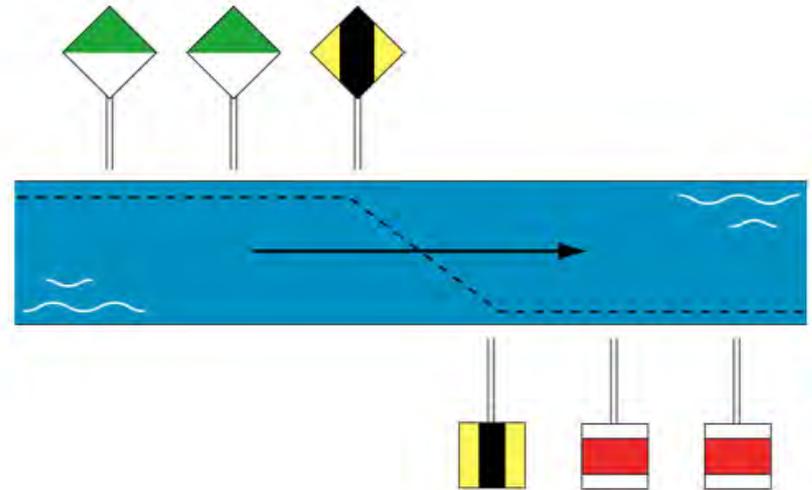
Organisations

- Different organisations play a role in determining the transport-related legislative framework of inland navigation in Europe:
- the Inland Transport Committee of the United Nations Economic Commission for Europe ([UN/ECE](#)),
- the European Community,
- the national authorities, and
- several River commissions.



Navigation Police Regulations

- Navigation police regulations have been harmonised across Europe to a large extent.
- CEVNI [European Code for Inland Waterways](#) (UN/ECE)
- The CEVNI consists of seven chapters:
 - Chapter 1: general provisions
 - Chapter 2: marks and draught scales on vessels
 - Chapter 3: visual signals (marking) used on vessels (e.g. lights, boards, flags)
 - Chapter 4: sound signals on vessels – radiotelephony
 - Chapter 5: waterway signs and marking
 - Chapter 6: rules of the road
 - Chapter 7: berthing rules



legal framework for IWT regarding liability regimes for civil law.

- The CMNI and CRDNI Conventions on liability in inland waterway transport.
- The situation of legal regimes on the Rhine and the Danube as well as national law.



legal framework for IWT regarding liability regimes for civil law.

- Liability rules (referring to situations in which a person is liable for, e.g., damage to property or reputation and is therefore responsible to pay compensation for any damage incurred) and contract law are still mostly based on **national regulations** and are therefore not harmonised on an international level



legal framework for IWT regarding liability regimes for civil law.



- To improve this situation measurements have already been taken, or are currently under consideration, in the form of the:
- Strasbourg Convention on the Limitation of Liability in Inland Navigation (CLNI)
- Budapest Convention on the Contract for the Carriage of Goods by Inland Waterways (CMNI)

Convention on the Limitation of Liability in Inland Navigation.

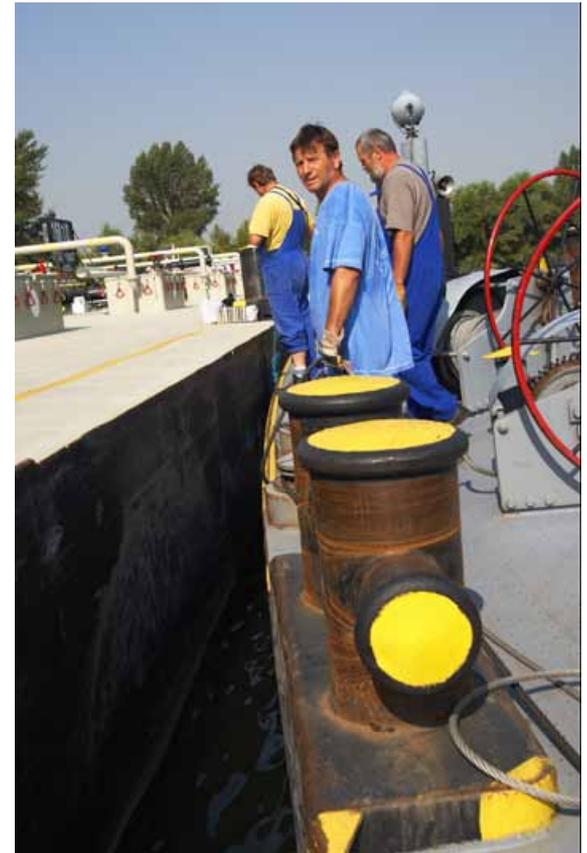


- The CLNI harmonises laws regarding the limitation of liability for ship owners, rescue and salvage forces, and transport insurance companies that insure claims resulting from the CLNI agreement. I
- It is based on the principle of the personal liability of the vessel owner or salvor limited to a specific amount.
- The CCNR is the depositary of the convention, which can be acceded by other states (many have been invited to do so).

the CLNI has been incorporated in national law by Germany, Luxemburg, the Netherlands, and Switzerland.

Manning requirements and social standards

- The requirements on a ship's log and tachograph.
- As regards the minimum crew number, a distinction is made for three types of operation:
 - **A1** represents daytime navigation for a maximum of 14 hours,
 - **A2** is semi-continuous navigation for not more than 18 hours, and
 - **B** reflects continuous navigation for 24 hours and more



MARKETS AND FLEET

Dry load vessel in continuous deployment

Length 110 m , Width 10.50 m, Load capacity 2,583 tonnes,

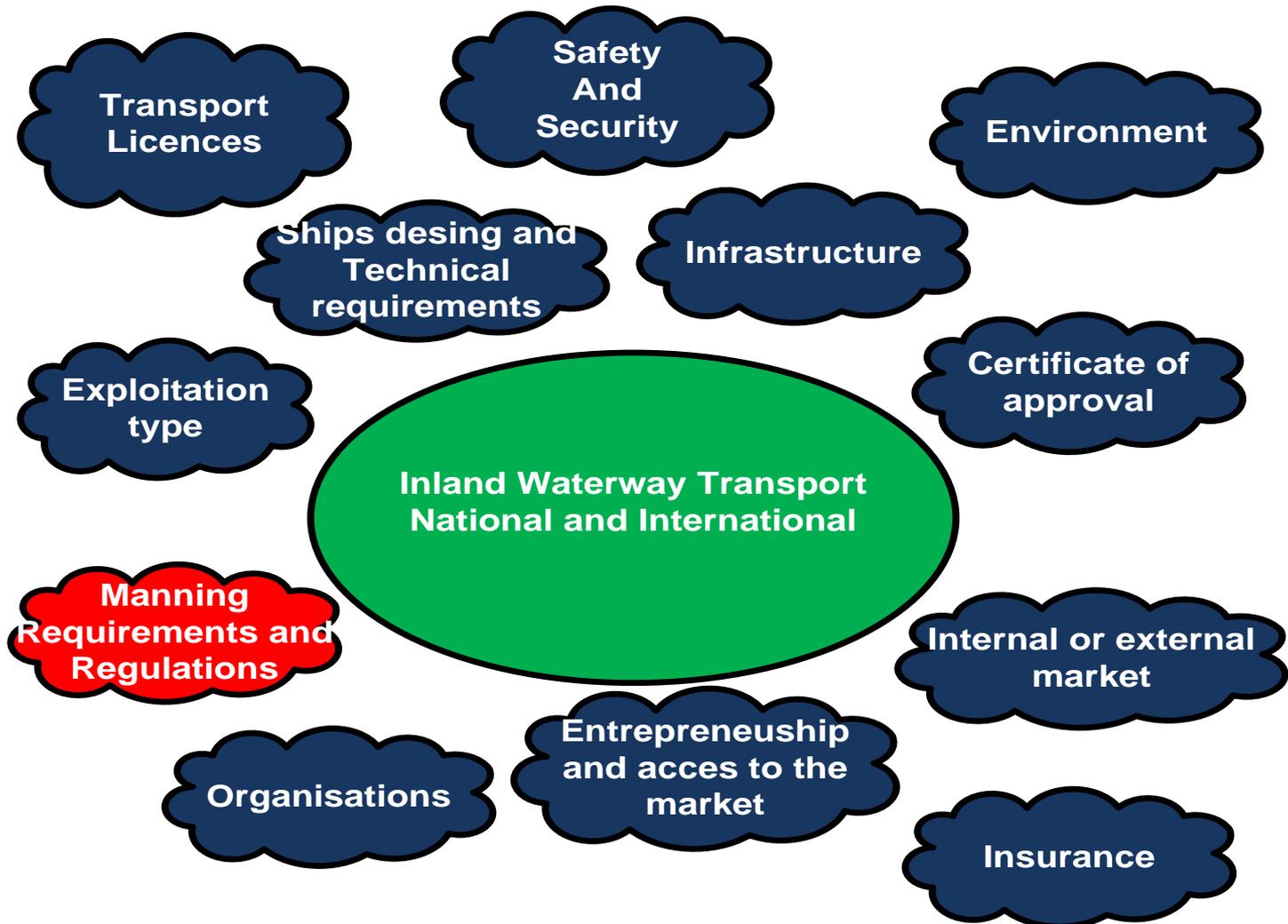
Speed at full load 18.7 km/h, Capacity 1,242 HP

Example journey:

2,500 tonnes of gravel Breisach (D) > Utrecht (NL) (loaded downstream)

Annual costs	Cost example journey	Total per tonne
Labour €572,718.–	Labour €5,911.–	Labour €2.36
Capital €291,857.–	Capital €3,012.–	Capital €1.20
Other €127,961.–	Other €1,321.–	Other €0.53
Fuel €761,789.–	Fuel €7,863.–	Fuel €3.15
		Costs per tonne €7.24

Internationaal beleid en wetgeving



Minimum crew for self-propelled vessels and pushers

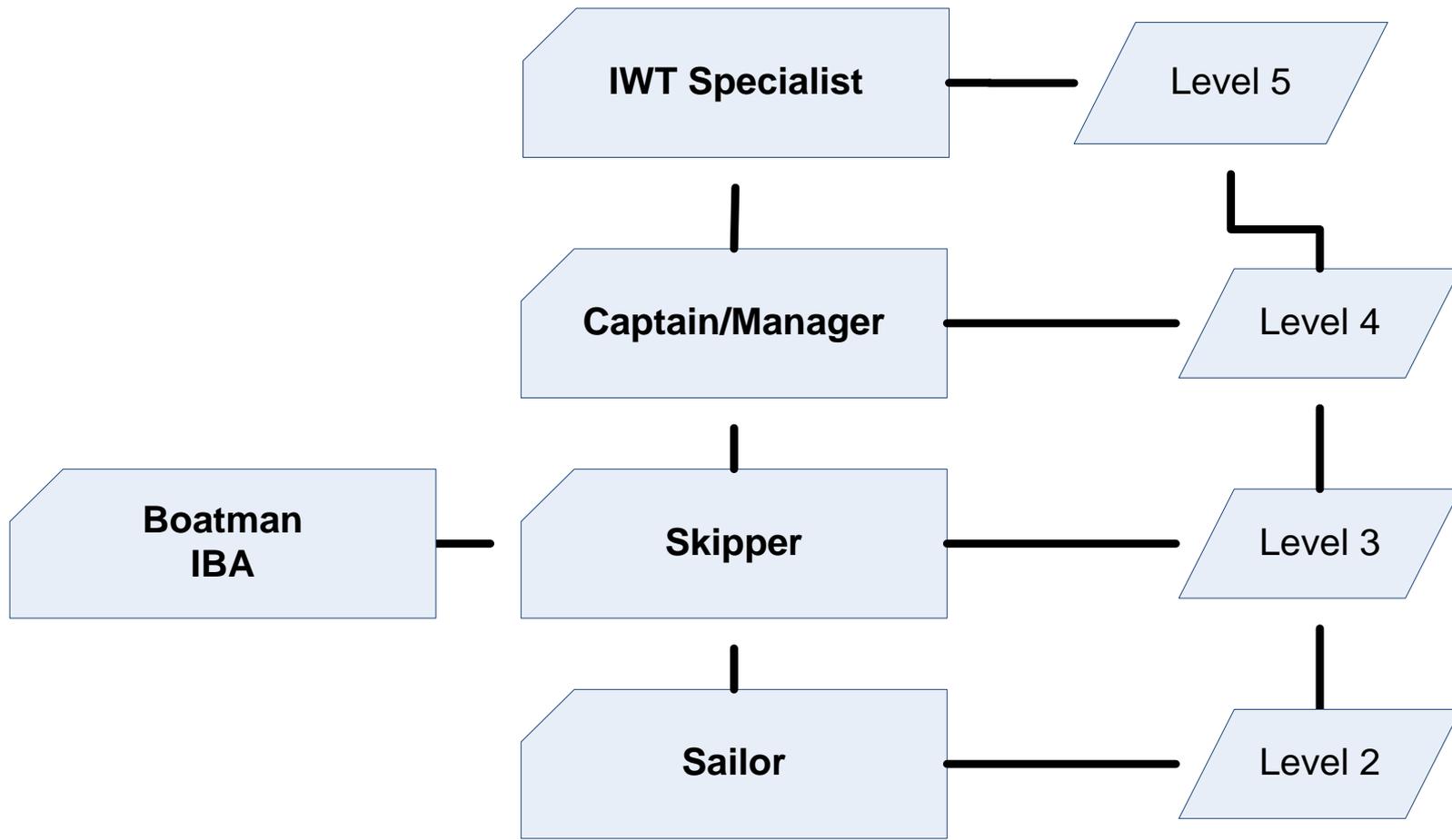
Group		Crew members	Number of crew members for operating mode A1, A2 or B and for equipment standard S1 or S2					
			A1		A2		B	
			S1	S2	S1	S2	S1	S2
1	L ≤ 70 m	boatmaster helmsman able crewman ordinary crewman apprentice	1 - - 1 -	 	2 - - - -	 	2 - - 1 1 ¹	2 - - - 2 ¹³
2	70 m ≤ L ≤ 86 m	boatmaster helmsman able crewman ordinary crewman apprentice	1 or 1 - - 1 - - 1 - 1	1 - - 1 1	2 - - - 1 ¹	 	2 - - 2 -	2 - - 1 1
3	L > 86 m	boatmaster helmsman able crewman ordinary crewman apprentice	1 or 1 1 1 - 1 - - 2	1 1 - - 1	2 - - 1 1 ¹	2 - - - 2 ¹	2 or 2 1 1 ² - - 2 1 - -	2 1 - 1 1

LOONTABEL	Maandloon	Weekloon	Vergoeding niet genoten vrije dag	5-DAAGSE WERKWEEK / GEMIDDELDE DIENSTTIJD					5-DAAGSE WERKWEEK			SYSTEEMVAART		
				Toeslag per uur		Overwerk per uur			Continuutoeslag per dag			Overwerk per uur	Continu- toeslag per dag	
				Zaterdag	Zondag en verg. reisuur	Normaal	Zaterdag	Zondag	Normaal	Zaterdag	Zondag			
DATUM VAN INGANG: 1 januari 2010														
KAPITEIN														
laadverm. meer dan 2500 ton	2.048,95	471,24	94,25	5,89	11,78	13,72	17,67	21,20	78,89	101,60	121,90	15,90	58,90	
lengte meer dan 86 m	2.009,82	462,24	92,45	5,78	11,56	13,47	17,34	20,81	77,45	99,71	119,66	15,61	57,80	
lengte 70-86 m	1.967,95	452,61	90,52	5,66	11,32	13,19	16,98	20,38	75,84	97,64	117,19	15,28	56,60	
lengte minder dan 70 m	1.927,95	443,41	88,68	5,55	11,09	12,92	16,64	19,96	74,29	95,68	114,77	14,97	55,45	
SCHIPPER	1.850,86	425,68	85,14	5,32	10,64	12,40	15,96	19,15	71,30	91,77	110,11	14,36	53,20	
MACHINIST	1.714,76	394,38	78,88	4,93	9,86	11,49	14,79	17,75	66,07	85,04	102,06	13,31	49,30	
STUURMAN	1.682,46	386,95	77,39	4,84	9,67	11,27	14,51	17,41	64,80	83,43	100,11	13,05	48,35	
VOLMATROOS/ MATROOS-MOTORDRIJVER														
leeftijd 23 jr. of ouder	1.650,59	379,62	75,92	4,75	9,49	11,06	14,24	17,08	63,60	81,88	98,21	12,81	47,45	
leeftijd onder 23 jr.														
3 functiejaren	1.577,19	362,74	72,55	4,54	9,07	10,57	13,61	16,33	60,78	78,26	93,90	12,24	45,35	
2 functiejaren	1.432,45	329,45	65,89	4,12	8,24	9,60	12,36	14,83	55,20	71,07	85,27	11,12	41,20	
1 functiejaar	1.287,66	296,15	59,23	3,70	7,40	8,62	11,10	13,32	49,57	63,83	76,59	9,99	37,00	
geen functiejaren	1.143,13	262,91	52,58	3,29	6,57	7,65	9,86	11,83	43,99	56,70	68,02	8,87	32,85	
MATROOS														
leeftijd 23 jr. of ouder	1.625,85	373,93	74,79	4,68	9,35	10,89	14,03	16,83	62,62	80,67	96,77	12,62	46,75	
leeftijd onder 23 jr.														
3 functiejaren	1.417,10	325,92	65,18	4,08	8,15	9,49	12,23	14,67	54,57	70,32	84,35	11,00	40,75	
2 functiejaren	1.271,92	292,53	58,51	3,66	7,31	8,52	10,97	13,16	48,99	63,08	75,67	9,87	36,55	
1 functiejaar	1.127,18	259,24	51,85	3,24	6,48	7,55	9,72	11,66	43,41	55,89	67,05	8,75	32,40	
geen functiejaren	982,56	225,98	45,20	2,83	5,65	6,58	8,48	10,17	37,84	48,76	58,48	7,63	28,25	
LICHTMATROOS														
leeftijd 23 jr. of ouder	1.407,60	324,85	64,97	4,06	8,12	9,46	12,18	14,62	54,40	70,04	84,07	10,96	40,60	
leeftijd 22 jr.	1.196,45	276,10	55,22	3,45	6,90	8,04	10,35	12,42	46,23	59,51	71,42	9,32	34,50	
leeftijd 21 jr.	1.020,50	235,50	47,10	2,95	5,89	6,86	8,84	10,60	39,45	50,83	60,95	7,95	29,45	
leeftijd 20 jr.	865,65	199,75	39,95	2,50	4,99	5,81	7,49	8,98	33,41	43,07	51,64	6,74	24,95	
leeftijd 19 jr.	739,00	170,55	34,11	2,13	4,26	4,96	6,39	7,67	28,52	36,74	44,10	5,75	21,30	
leeftijd 18 jr.	640,45	147,80	29,56	1,85	3,70	4,31	5,55	6,66	24,78	31,91	38,30	5,00	18,50	
leeftijd 17 jr.	556,00	128,30	25,66	1,61	3,21	3,74	4,82	5,78	21,51	27,72	33,24	4,33	16,05	
leeftijd 16 jr.	485,60	112,05	22,41	1,40	2,80	3,26	4,20	5,04	18,75	24,15	28,98	3,78	14,00	

Education and Training

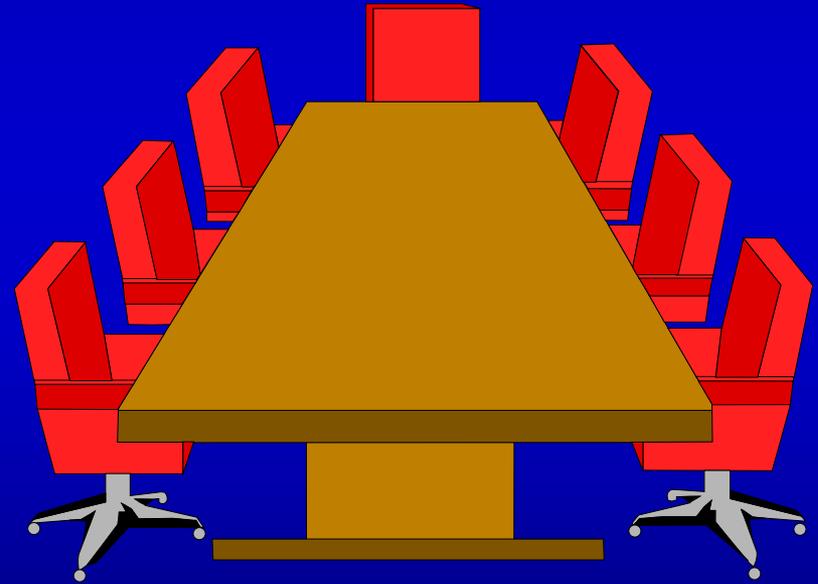


Public & Private Vocational Education



Steering Committee of Education for Inland Shipping

- Members of the committee are appointed by their organisations.
- Authority
- School
- IWT Companies



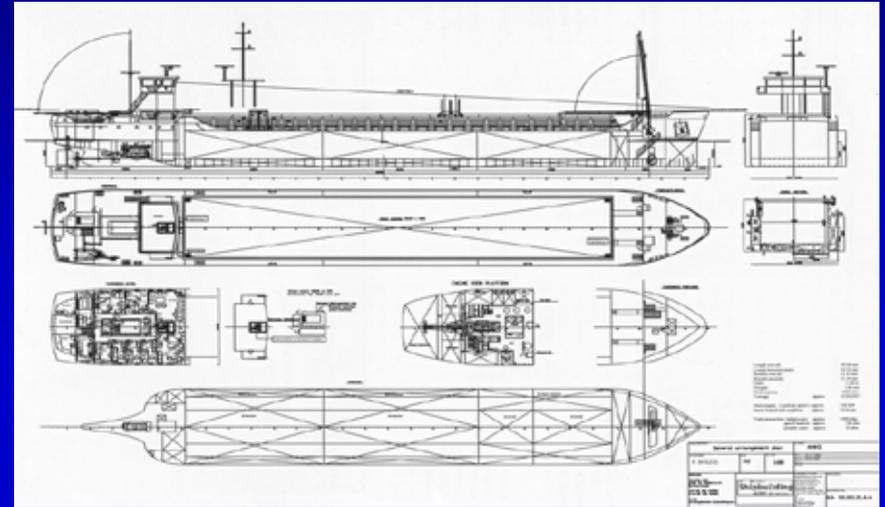
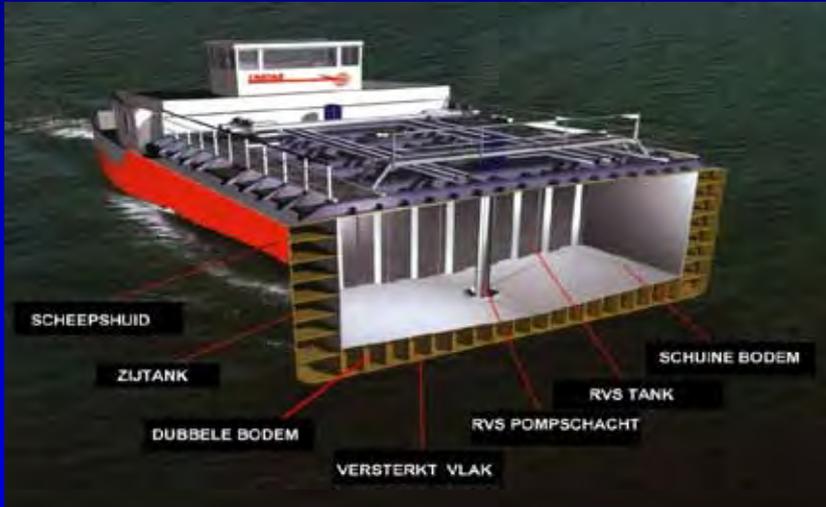
MAINTENANCE & REPAIR



SAFETY & ENVIRONMENT



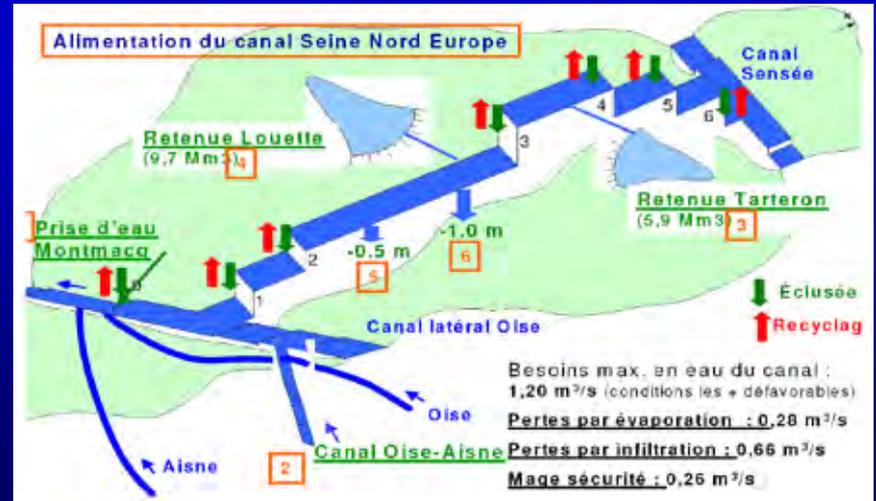
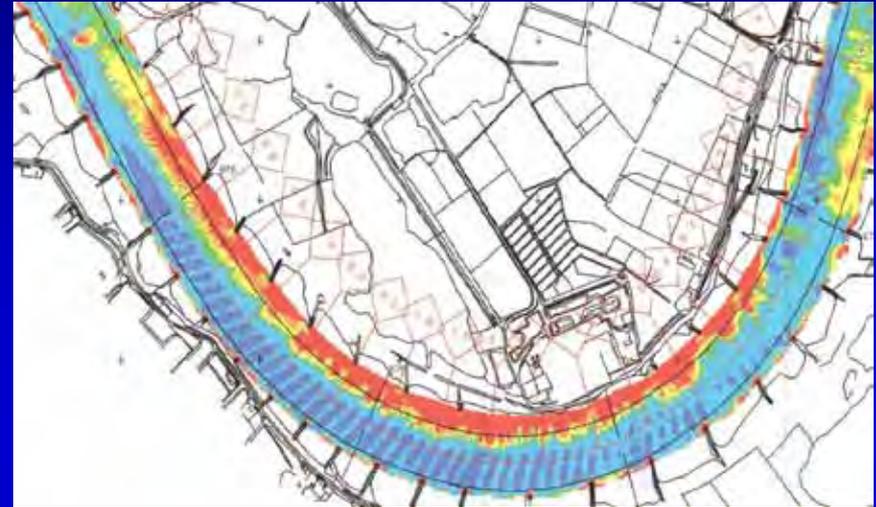
SHIPBUILDING & EQUIPMENT



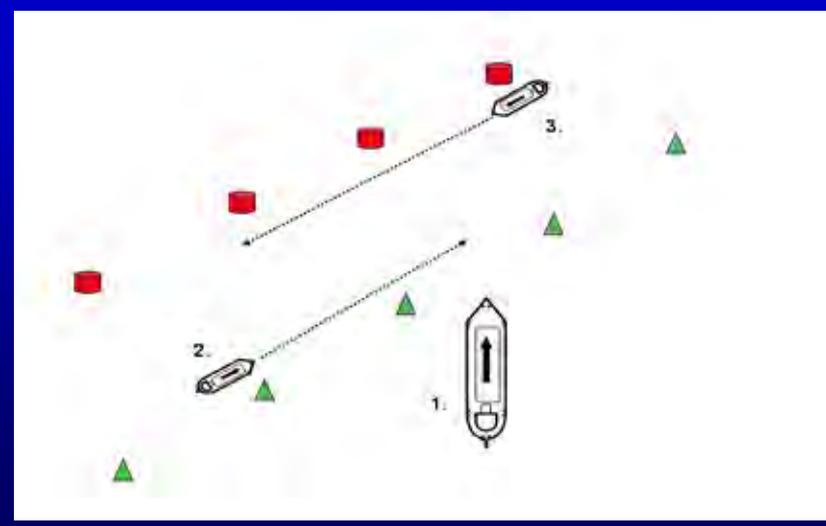
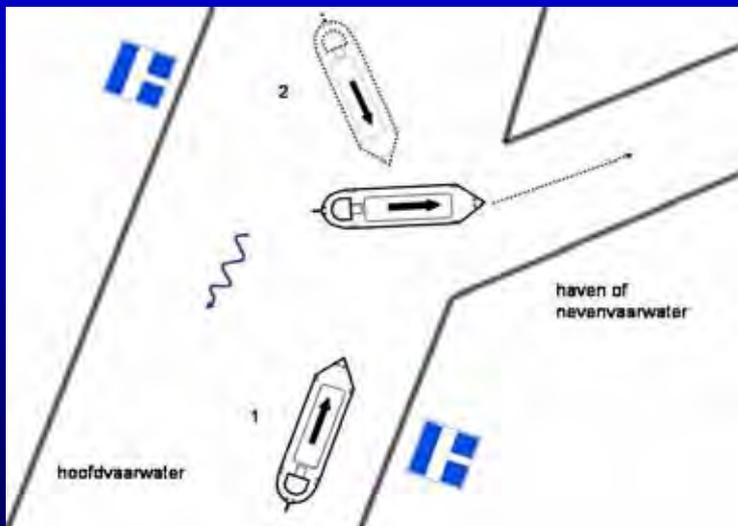
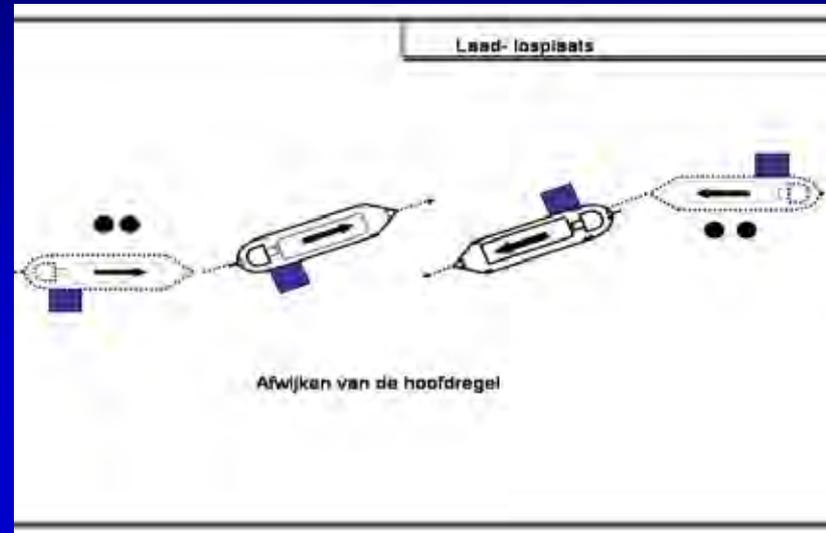
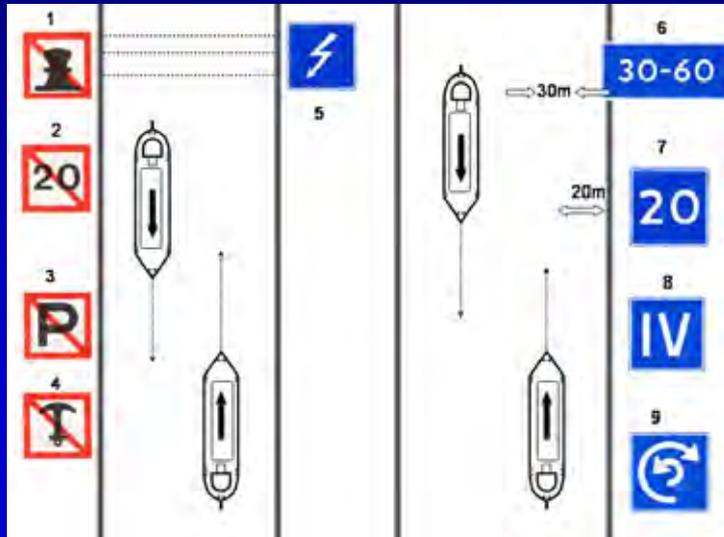
CARGO HANDLING



WATERWAY KNOWLEGDE



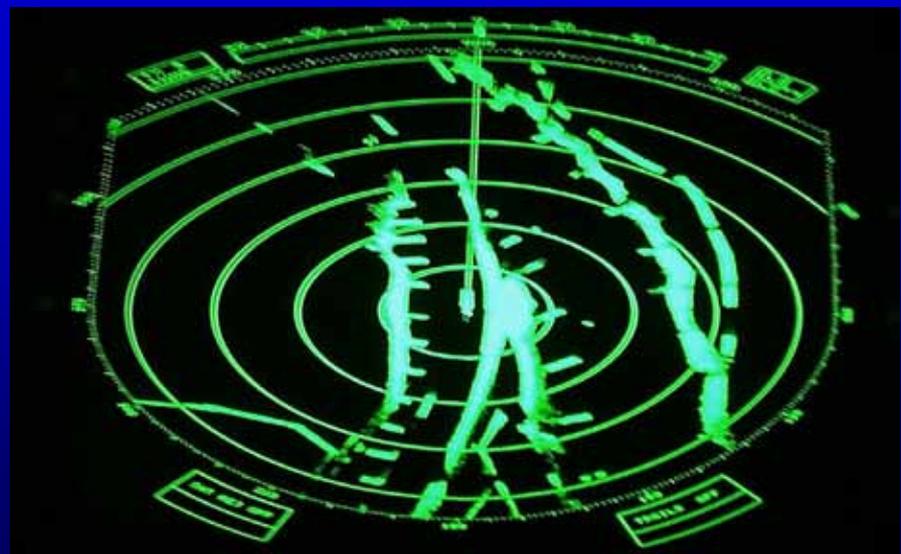
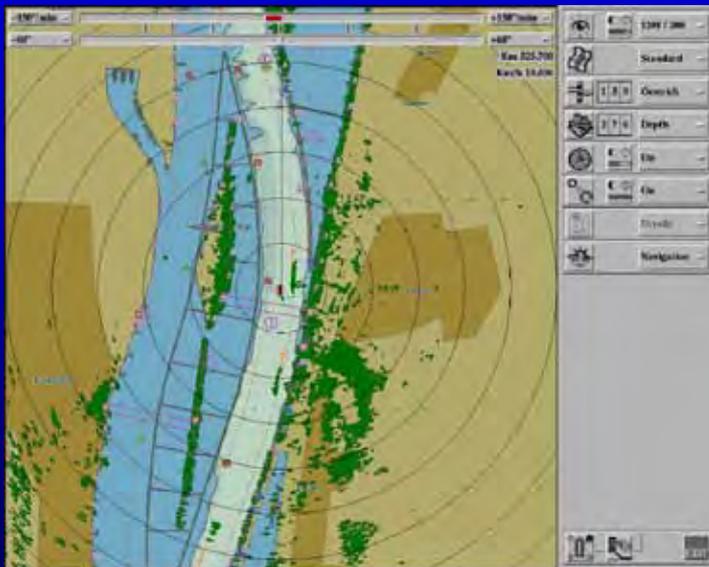
INLAND WATERWAY REGULATIONS



COMMUNICATION & LANGUAGE



NAVIGATION & SHIPHANDLING



MARINE ENGINEERING



CALAMITY & DAMAGE CONTROL



Dangerous Goods

Certificate for
transport of
dangerous goods

Laws and regulations

Classification
& Identification

Documentation

Packaging

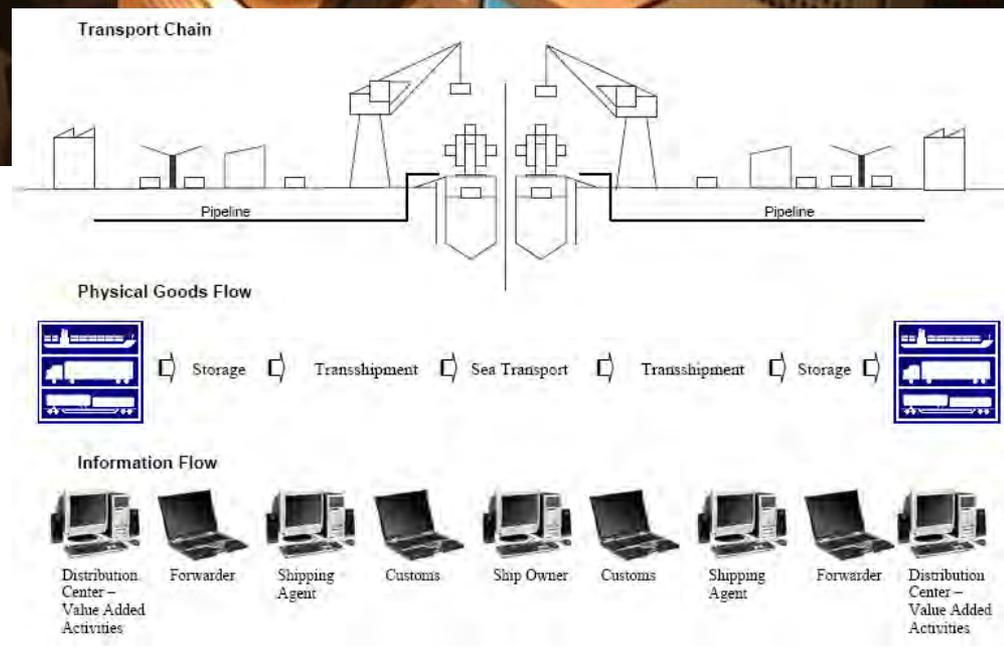
Marking, Labelling and

Placarding

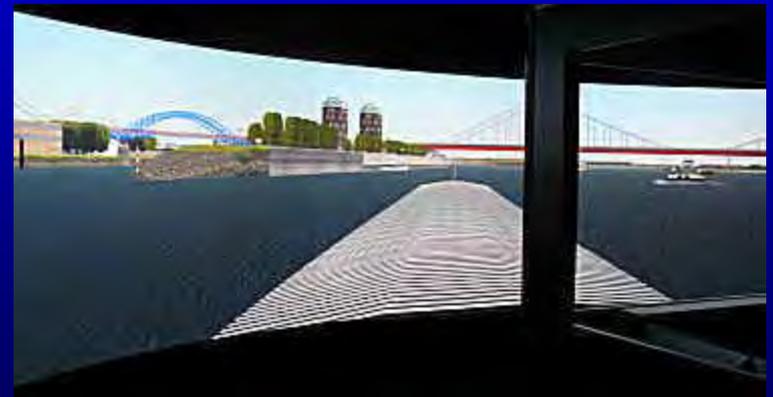
Exit



Logistics



TRAINING IN PRACTICE



TRAINING IN PRACTICE





Welcome !

On this website you will find topical information about inland waterway transport in Europe. Eco-friendly and efficient transport is a cornerstone of the EU's transport policy. 2006 a multi-annual action programme was launched: **NAIADES** - Navigation and Inland Waterway Action and Development in Europe.

top stories



26.11.2009

Don't ignore the backbone

Intermodal initiative to reach out to Barroso [more]



25.11.2009

Port of Rotterdam lowers port tariffs

Crisis rebate to kick-start the market [more]



23.11.2009

20 percent more goods on the river Elbe

Inland navigation associations urge for development measures



Why inland waterway



JOBS AND SKILLS

JÖRG RUSCHE - WORK PACKAGE LEADER (BDB)

PROJECT PARTNERS: BDB, VIA DONAU, VNF, ADB, PBV, BVV, CRUP, CBRB, RIA, RSOE, STC, CERONAV and IMST

Introduction

The strategic objective of the jobs and skills initiative is to ensure the availability of qualified personnel for the efficient operation and competitiveness of tomorrow's European inland waterways.

As a lack of skilled labour poses a major problem "Jobs and Skills" wants to:

- Raise awareness of and improve career opportunities in the inland navigation sector
- Foster mutual recognition of qualifications
- Support the implementation of harmonised training curricula
- Strengthen the cooperation among major education and training institutions

Therefore 3 sub-work packages have been identified as follows:

1. Set-up of a European IWT educational network
2. A life-long learning initiative
3. Set-up of a European IWT recruitment campaign

Actions

1. Inventory of existing IWT education and training institutes and curricula
2. Preparation of organisational structure of the network (EDINNA)
3. EDINNA working programme
4. Inventory of IWT education and training demands
5. Strategy for harmonised IWT education and training standards; establishment of a Joint Working Group including Social Partners, EDINNA and Representatives from river commissions
6. Set-up of an exchange programme
7. Inventory of IWT related logistics education institutions and training content
8. Strategy for the integration of IWT knowledge in general logistics education
9. Web-database of common IWT learning materials
10. General recruitment strategy
11. Tool box for national recruitment campaigns

Results

1. Inventory of existing IWT education and training institutes:



2. EDINNA (Education Inland Navigation) was officially founded on 5th February 2009 in Rotterdam. The EDINNA Board was elected: Arjen Mintjes, Urmuiden (NL) - Chairman, Hans-Gunter Portmann, Duisburg (DE) - Vice-Chair, Rob van Reem, Rotterdam (NL) - Secretary and Treasurer and Doina Munteanu, Galati (RO) and Mihai Ghiba, Craiova (RO) as advisory officers

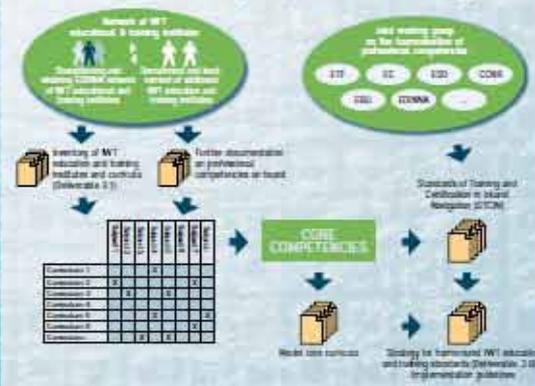


Conclusions

1. Existing IWT education and training systems are very different ranging from shorter practically oriented courses to longer theoretical University diplomas
2. The curricula in use set different emphases which need to be analysed further
3. The partners of EDINNA are eager to learn from each other, exchange their views on educational and training matters and pursue their activities on a more concerted European level
4. All EDINNA and Joint Working Group (JWG) partners aim at developing common recommendations for educational and training standards, both on an operational and management level

Further work

- Continue initiatives regarding the harmonisation of education, i.e. next meeting of JWG; Questionnaires on demands in education
- Next EDINNA General Assembly in September 2009 in Duisburg



STC - Rotterdam 04-02-2009



First Formation and Assembly meeting

20 EU Inland Navigation Schools Member of Edinna

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HOME

Welcome to EDINNA - Education in Inland Navigation

Edinna is an association and educational network of inland waterway (navigation) schools and training institutes. During a round table conference of the CCNR in Strasbourg, in June 2008, directors and managers of the present

DATES

01.09.2009: Edinna Board meeting

16.09.2009: Edinna General Assembly meeting

25.09.2009: LDV

STCIN

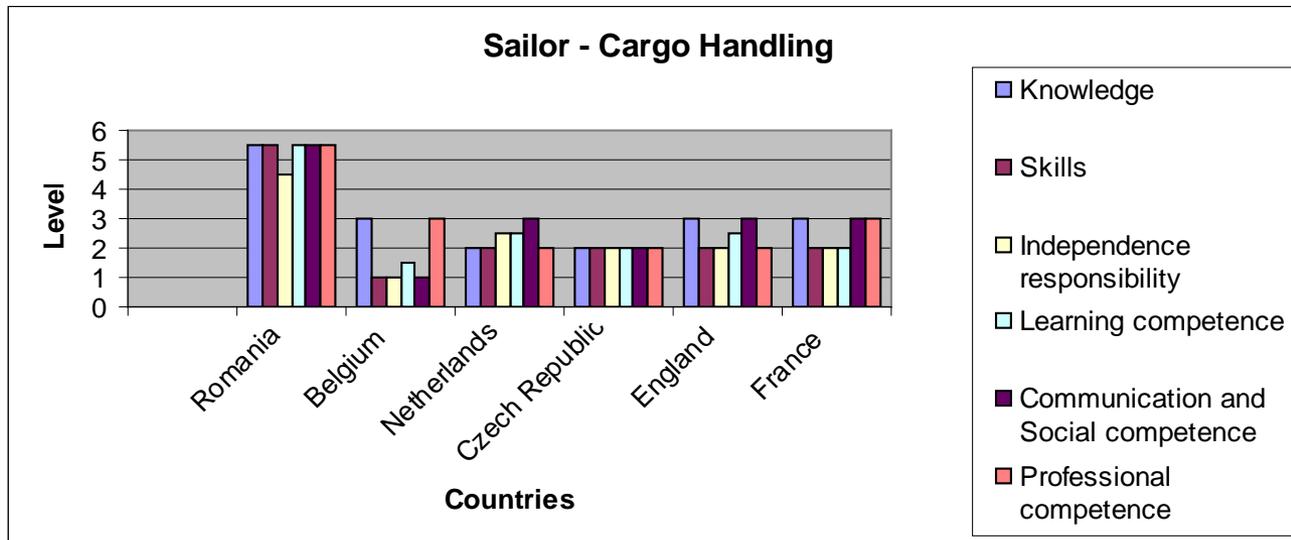
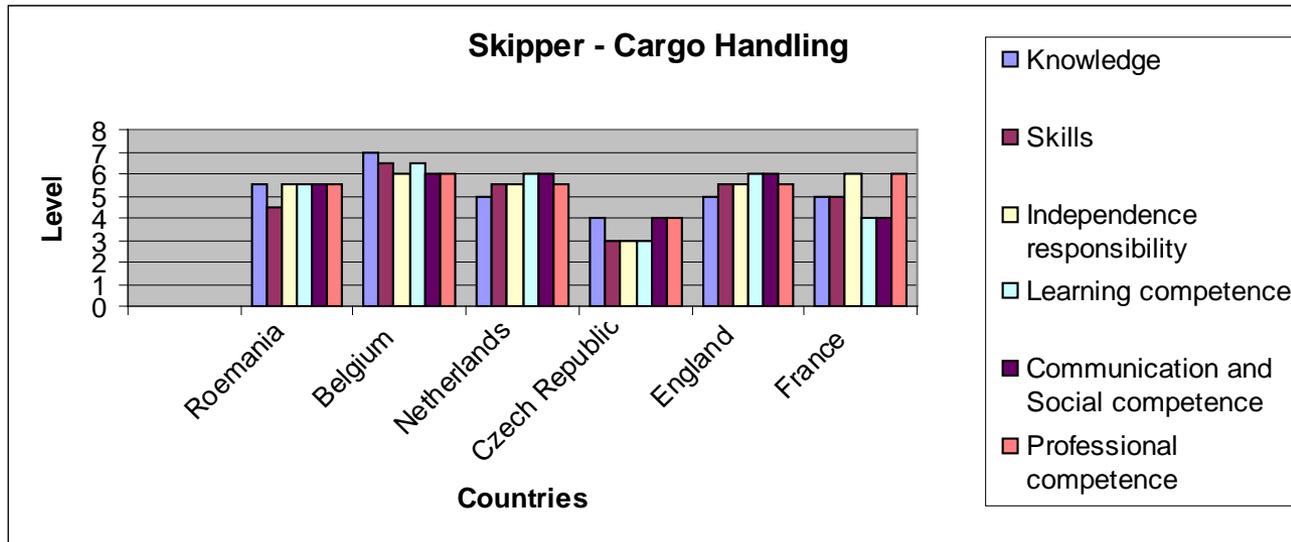
Standards of Training and Certification for personnel in Inland Navigation



Introduction

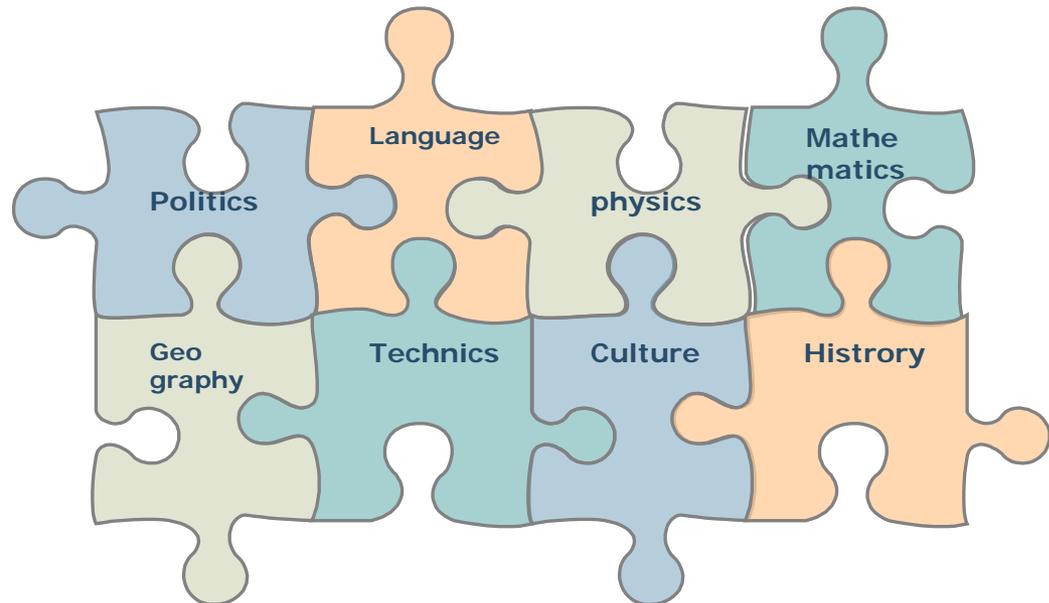
- There is no level playing field with respect to education, training and certification on European Inland Waterways.

Differences

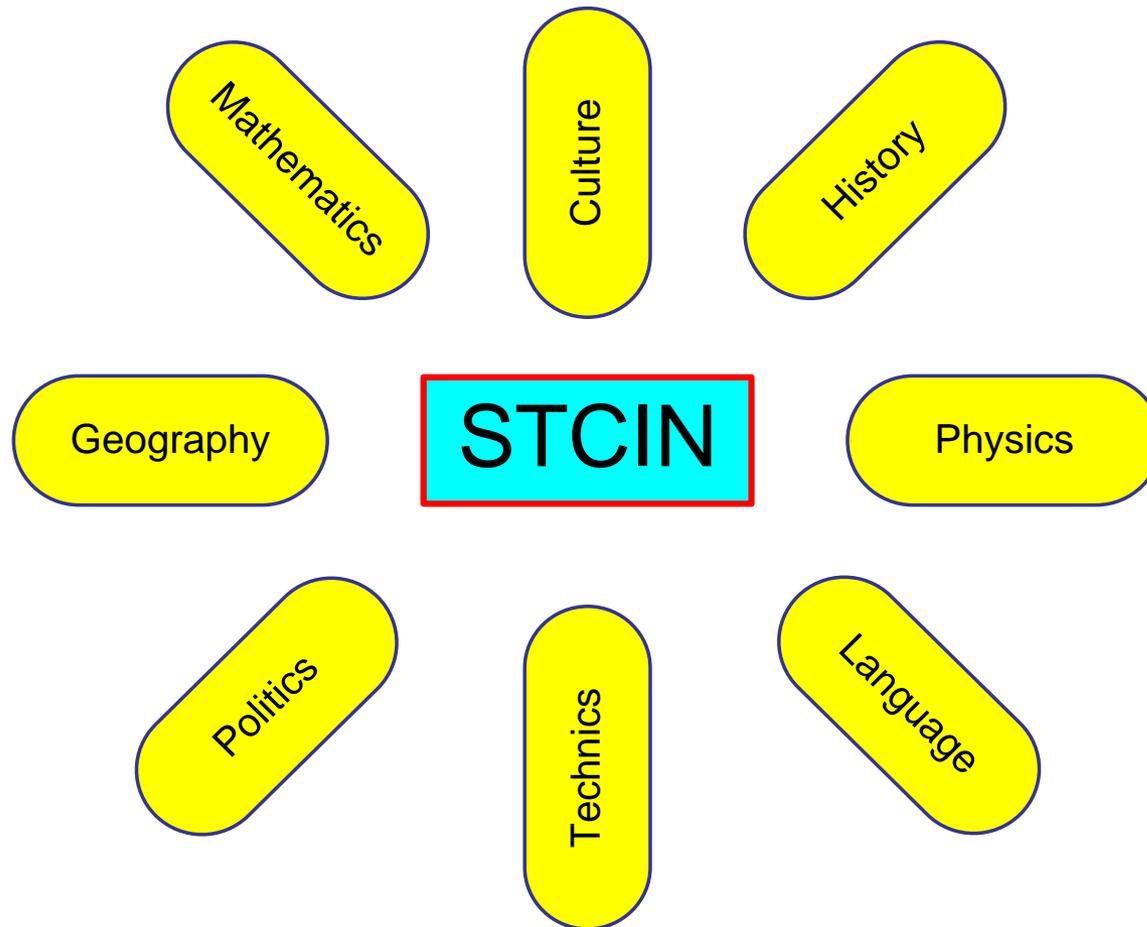


Vocational education

- Comparison on national level difficult because of various training programmes
- Vocational training connected to national legislations



STCIN integrated in education



Standards operational level

Deckhand/Sailor and prerequisite for management level

- Safety & Environment
- Navigation & Shiphandling
- Cargo Handling and stowage
- Controlling the operation of the ship
- Marine engineering
- Electrical ,electronic and control Engineering

Standards (general) management level

(Master IWT)

- Safety & Environment
- Navigation & Shiphandling
- Cargo Handling and stowage
- Controlling the operation of the ship
- Marine engineering
- Electrical ,electronic and control Engineering

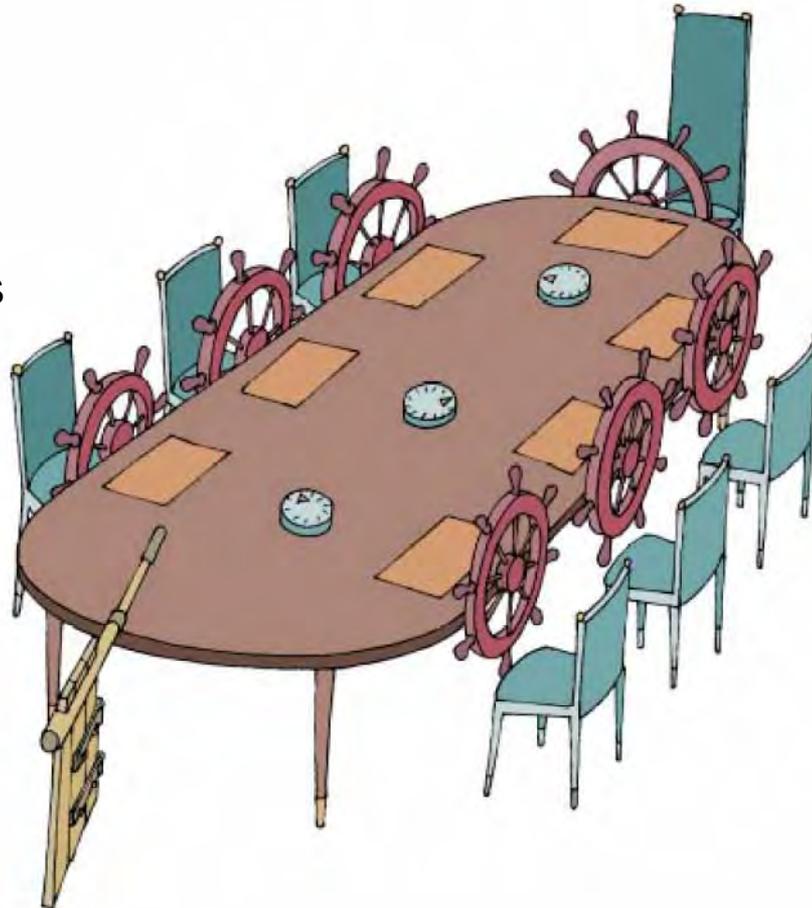
Supplements

- Dangerous goods – ADN(R) N-C-G
- Management & Entrepreneurship
- Crisis-Crowd Management (Passenger)



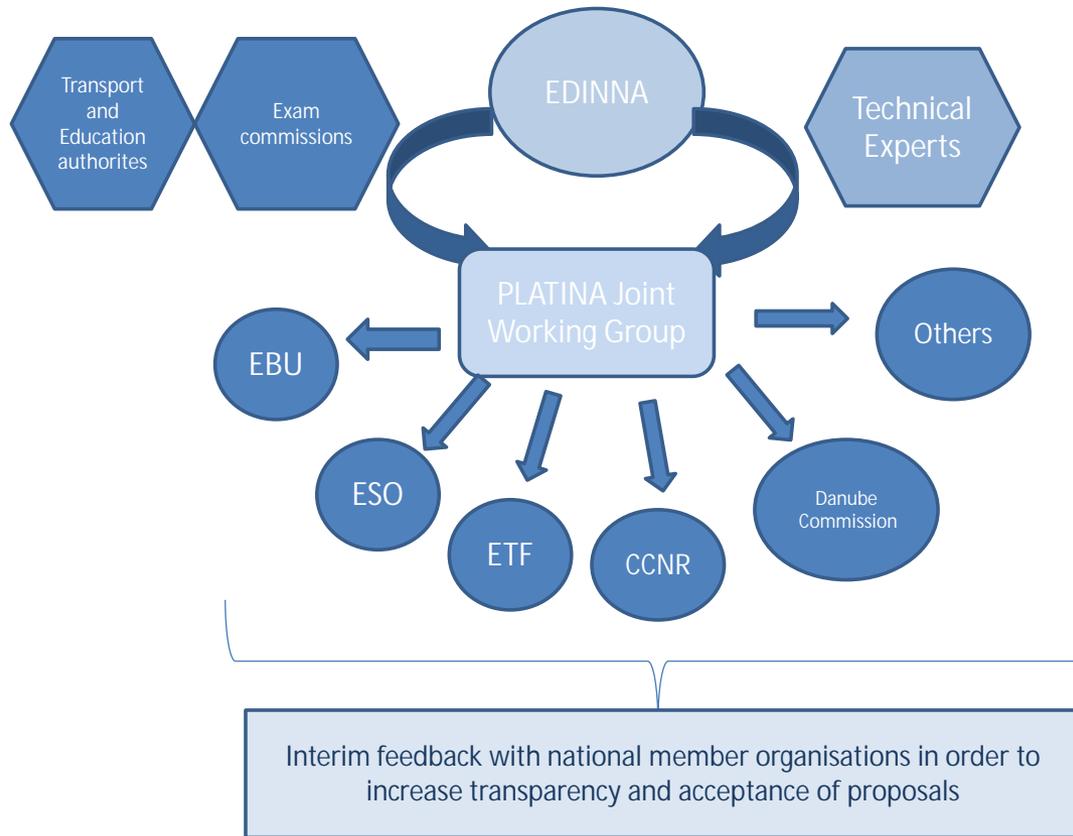
Joint Working Group

- PLATINA
- Social Partners
- River Commissions
- Waterway Authorities
- Edinna



**Standards of
Training and
Certification for
Personnel in
Inland Navigation**

Joint Working Group



Competences operational & management level

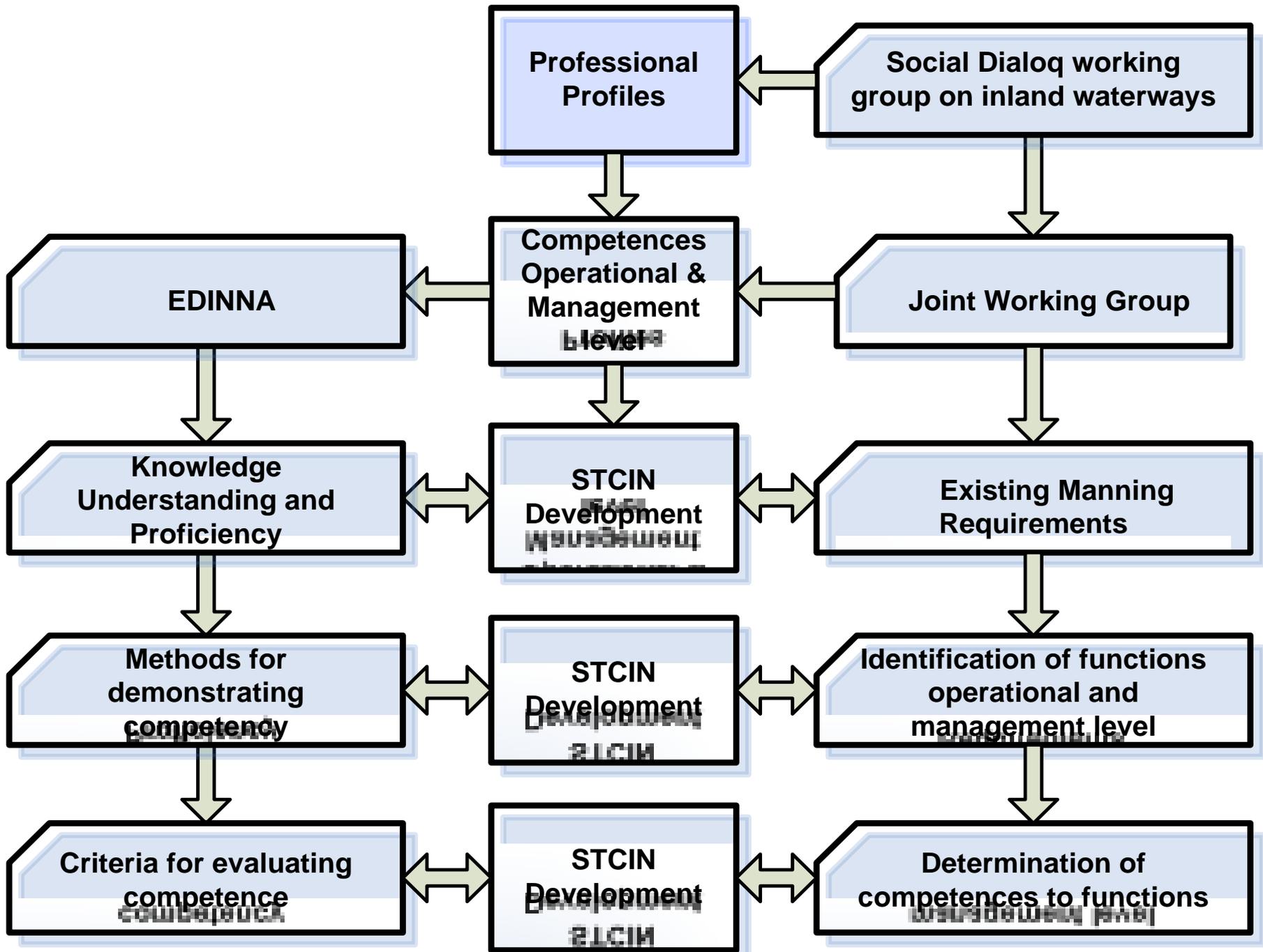
Assists the ships management in situations of manoeuvring and handling a ship on inland waterways.

Sails and manoeuvres ensuring safe operation of the vessel in all conditions on inland and maritime waterways.



assist with mooring, unmooring and hauling (towage) operations
assist with couple operations of push barge combinations
assist with anchoring operations

Navigate and manoeuvre taking into account characteristics of the inland waterways
Give order to moor and unmoor vessels



Standards of Training and Certification for personnel in Inland Navigation

General Provisions

Certificates and endorsements

Training and assessment

Qualifications of instructors, supervisors and assessors

Standards governing the use of simulators.

Standards governing the use of training ships.

Standards governing the use of laboratories.

STCIN Mandatory Requirements

for certification of inland waterway personnel at operational level

for certification of inland waterway personnel at management level

for the training and qualifications of masters on ships with dangerous goods

for the training and qualifications of inland waterway master/entrepreneur of private owned companies

for the training and qualifications of inland waterway master of passenger ships

for the safety training for personnel providing safety to passengers on passenger ships

STCIN Mandatory Requirements

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for the safety training for personnel providing safety to passengers on passenger ships

STCIN

COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
<p>Assists the ships management in situations of manoeuvring and handling a ship on inland waterways, using all types of waterways and ports and is able to:</p>	<p>Types of bollards and winches on push/tow vessels and barges, self-propelled vessels and ashore.</p> <p>Demonstrates handling of wires and ropes during mooring and unmooring operations, such as:</p> <p>Demonstrates the use of head ropes, stern ropes and springs;</p> <p>Demonstrates the safety measures to be taken when handling mooring ropes and wires.</p> <p>Demonstrates how to attach mooring ropes or wires to various types of bollards and other facilities.</p> <p>Demonstrates the use of various winches</p>	<p>Knowledge: Theoretical exam</p> <p>Understanding and proficiency:</p> <p>Practical training and exam on (school) training vessel</p> <p>Training record book during work placement practice.</p>	<p>Candidate is able to:</p> <p>Prepare the ship for mooring operation;</p> <p>Take care of the fenders and to place them in position;</p> <p>Select the wire or rope usable in case of a mooring operation;</p> <p>Understand the communication (orders) between the wheelhouse and wanted deck activities;</p> <p>Handle the wires and ropes in the wanted sequence taking in account the safe working rules.</p>