



Digitalization in Inland Water Transport

Ms. Victoria IVANOVA, Secretary of SC.3



INLAND TRANSPORT COMMITTEE



UNECE

Working Party on Inland Water Transport

Scope of activities

INLAND TRANSPORT COMMITTEE



UN legal instruments relevant to IWT

IWW infrastructure, navigation rules



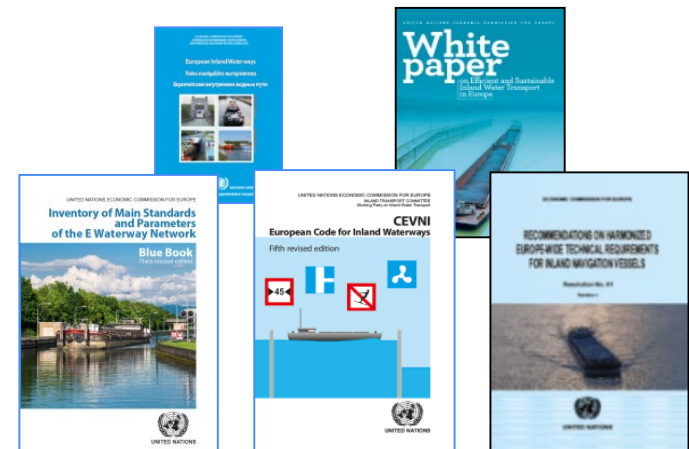
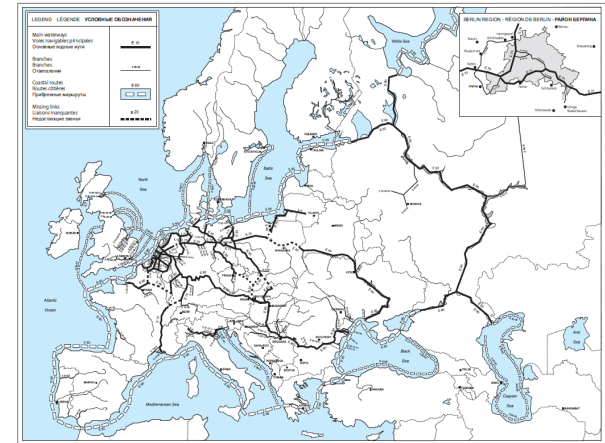
Harmonizing standards and norms



Promoting River Information Services



Maps and databases



Ministerial Declaration “Inland Navigation in a Global Setting”

International Conference “Connecting by Inland Navigation”
18-19 April 2018 in Wroclaw (Poland)

INLAND TRANSPORT COMMITTEE



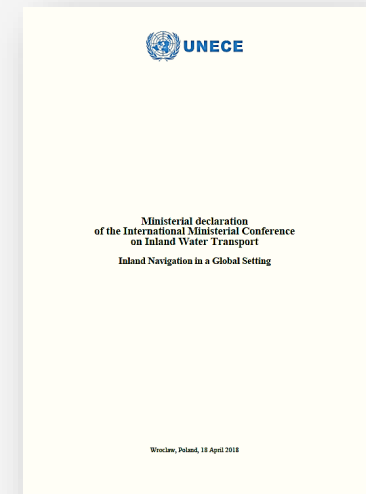
- Signed already by 18 UN member States
- Open for signature
- Main objectives till 2023 and strategic actions to pursue based on these objectives



Strategic action 3:

Encouraging the realization of a modern fleet and fostering innovations

Ministers recognize that the development of digital technologies and data exchange, River Information Services, Vessel Traffic Services and the traffic management on inland waterways, the digitalization and other opportunities given by new technologies **is a significant step forward to a sustainable and efficient transport mode** and invite countries and international organizations **to promote its cross-border harmonized development.**



UN Conventions relevant to IWT

Transport documents

INLAND TRANSPORT COMMITTEE



- 1960 • Unification of Certain Rules Concerning Collision in Inland Navigation ●
- 1965 • Registration of Inland Navigation Vessels ●
- 1966 • Measurement of Inland Navigation Vessels ●
- 1973 • CLN Convention ●
- 1976 • CVN Convention ●

- 1978 • Protocol to CLN Convention ●
- 1978 • Protocol to CVN Convention ●
- 1996 • AGN Agreement ●
- 1997 • Protocol to AGTC Agreement ●
- 2000 • ADN Agreement ●

Certificate of Registration
 Register of inland vessels
 Measurement certificate

Dangerous goods transport document

Should be kept on board!

Budapest Convention on the Contract for the Carriage of Goods by Inland Waterway (CMNI)

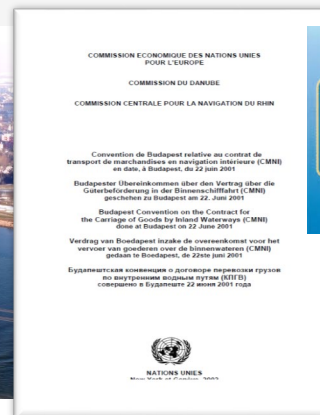
INLAND TRANSPORT COMMITTEE



Contracting Parties: 16

Belgium, Bulgaria, Croatia, Czech Republic, France, Germany, Hungary, Luxembourg, Moldova, Netherlands, Romania, Russian Federation, Serbia, Slovakia, Switzerland, Ukraine

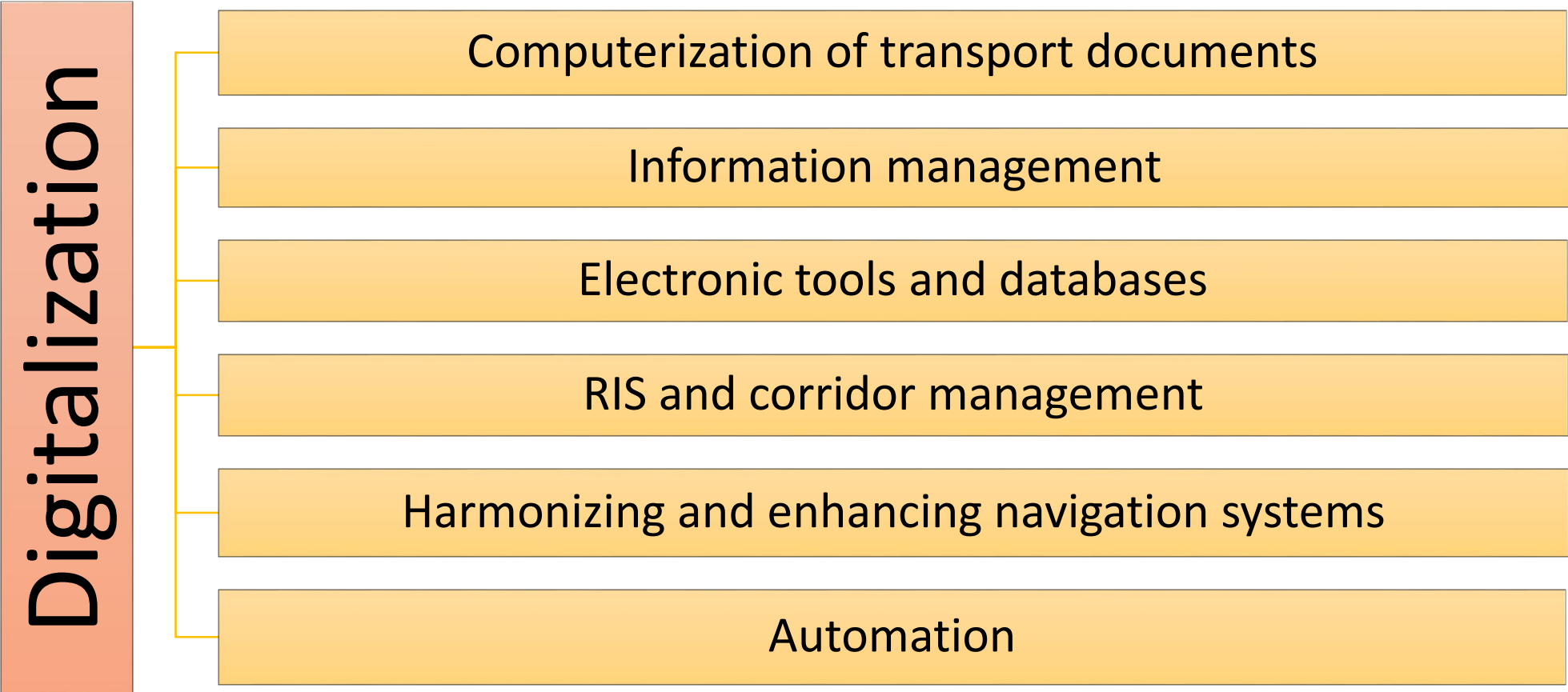
- **“Contract of carriage”** means any contract, of any kind, whereby a carrier undertakes against payment of freight to carry goods by inland waterway
- **“Transport document”** means a document which evidences a contract of carriage and the taking over or loading of goods by a carrier, made out in the form of a bill of lading or consignment note or of any other document used in trade



Digitalization: scope

Specific features of IWT

INLAND TRANSPORT COMMITTEE



Digitalization in Inland Water Transport

Workshop on 4 October 2018, Geneva

INLAND TRANSPORT COMMITTEE



Main topics:

- Policy initiatives and digital tools
- Computerization of work and transport documents, streamlining document procedures and data harmonization
- Development of digitalization and RIS technologies
- Application of common standards, platforms and systems
- Safety
- Data security
- Social aspects of digitalization, education and training standards

Sixty-second session of the UNECE Working Party on Inland Water Transport
DIGITALIZATION IN INLAND WATER TRANSPORT
4 October 2018, 09:30-12:30, 14:30-17:30 (Room VIII)
PROGRAMME OF THE WORKSHOP
Moderator Mr. James FANSHAW, Chair of MASRWG

09:30	Opening
Panel 1 DIGITALIZATION: EXPERIENCE FROM DIFFERENT TRANSPORT MODES	
09:30-09:50	UNCEFACT work on streamlining document procedures, Single Window and data harmonization Mr. Mario APOSTOLOV, Regional Advisor, Trade Division UNECE
09:50-10:10	Digitisation and its role in optimizing Management of Maritime Operations Mr. James FANSHAW, Chair of MASRWG
10:10-10:30	Additional Protocol to the Convention on the Contract for the International Carriage of Goods by Road concerning the Electronic Consignment Note Ms. Rebecca HUANG, UNECE secretariat
10:30-10:50	Recent developments in rail transport Mr. Cesare BRAND, International Rail Transport Committee (CIT)
10:50-11:05	Coffee break
Panel 2 DIGITAL INLAND NAVIGATION IN THE PAN-EUROPEAN DIMENSION	
11:05-11:25	River Information Services and the role of the Waterway Authorities Mr. Cas WILLEMS, Mr. Evgeny BRODSKY, PIANC Working Group 125
11:25-11:45	Projects in the Danube region Mr. Robert RAFAEL, Pro Danube International
11:45-12:05	View of the European Transport Workers' Federation Mr. Joris KERKHOFS, ETF Section "Inland Waterways"
12:05-12:25	Opportunities for river-sea shipping Mr. Wolfgang HEBENSTREIT, ERSTU
12:25-12:30	Developments in the European Union (Information of the UNECE secretariat)
12:30-14:30	Lunch break
Panel 3 INTERNATIONAL RIVER BASIN AND NATIONAL STRATEGIES IN THE FIELD OF DIGITALIZATION	
14:30-14:50	Work of EDINNA and Maritime Academie Harlingen Mr. Arjen MINTJES, Mr. Jorn Josef BOLL, EDINNA, Maritime Academie Harlingen
14:50-15:10	Activities of the Danube Commission Mr. Horst SCHINDLER, Danube Commission
15:10-15:30	Satellite AIS (A,B) and monitoring of Inland Water Transport Mr. Sergey STARIK, Morsviazputnik, Russian Federation
15:30-15:50	Digitalization in Flanders Ms. Ann-Sofie PAUWELIN, De Vlaamse Waterweg NV, Belgium
15:50-16:10	Development of digitalization on the Ukrainian inland waterways Mr. Igor GLADKYKH, Ukraine
16:10-16:30	RIS development in Germany Mr. Stefan BOBER, Federal Waterways and Shipping Agency (WSV), Germany
16:30-16:55	Coffee break
16:55-17:10	Q&A
17:10-17:30	ROUNDTABLE DISCUSSIONS AND ISSUES FOR FURTHER CONSIDERATION

Time envisaged for presentations: 15-20 minutes plus 5 minutes for questions & answers

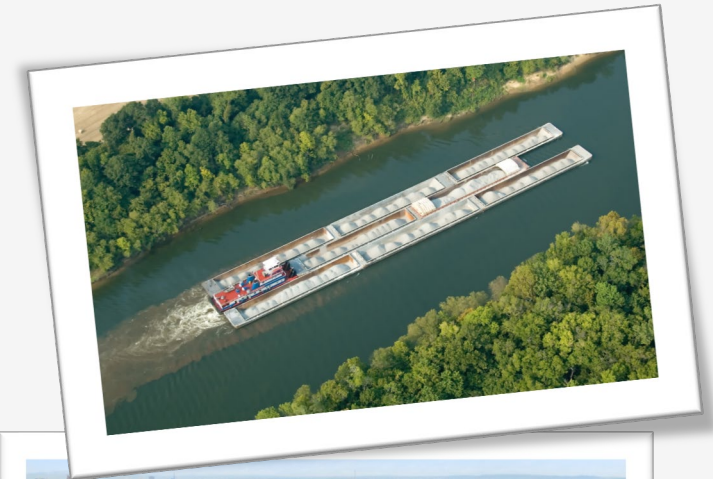
Digital initiatives and projects relevant to IWT

by the European Commission

INLAND TRANSPORT COMMITTEE



- NAIADES II
- Digital Inland Waterway Area (DINA)
- Digital Multimodal Nodes (DMN)
- Directive 2017/2397/EU on the recognition of professional qualifications in inland navigation
- Envisaged electronic tools (eIWT)
- Digital Transport and Logistics Forum



Digital initiatives and projects in IWT

PIANC, RIS, eNavigation and other issues

INLAND TRANSPORT COMMITTEE

- PIANC RIS Guidelines, edition 4 (2018): Digitalization of inland water transport, perspectives for 2020–2030
- RIS Corridor Management Execution
- International RIS Expert Groups
- Danube: Projects DANTE, DAVID, RIS electronic reporting
- Baltic region: project EMMA
- Progress reached by member States
- Project TASCS



Digitalization

Advantages for IWT

INLAND TRANSPORT COMMITTEE



- Improving administrative procedures and processes
- Streamlining of document procedures
- Facilitation of the movement of goods
- Increasing the efficiency of logistics and management of cargo flows
- Facilitating integration with other transport modes and promoting multimodality
- Promoting innovations
- Cost savings over time



Digitalization

Risks and challenges for IWT

INLAND TRANSPORT COMMITTEE



- Cyber security
- New qualifications, education programmes and assessment procedures
- Social impacts
- Liability issues
- Additional costs
- Lack of the necessary regulatory basis
- Human resources and insufficient knowledge of the personnel



Digitalization

Synergy with other sectors and next steps

INLAND TRANSPORT COMMITTEE



Synergy with other transport sectors	Benefits at the pan-European level
<p>Developing a common information and exchange system</p> <p>Single window and reporting formalities in ports</p> <p>Electronic consignment notes</p> <p>Possibly - digital tachographs and checklists for combined traffic</p>	<p>Eliminating administrative and legislative bottlenecks</p> <p>Exchanging best practice</p> <p>More reliable and accessible data</p> <p>Promoting multimodality and free movement of goods</p> <p>Establishing common education standards</p> <p>Ensuring navigational safety</p>

Thank you!

Victoria Ivanova
ECE secretariat
UNECE

19 February 2019, Geneva



INLAND TRANSPORT COMMITTEE



UNECE