Agenda

- Inland Waterway Transport Policy
- River Information Services
- Legal Basis for RIS
- RIS Implementation
- RIS further development
- MAP RIS Call 2011
Inland waterway transport policy

Integrated Action Programme “NAIADES”

1. MARKET
   » Create favourable conditions for services

2. FLEET
   » Stimulate fleet modernisation and innovation

3. JOBS AND SKILLS
   » Promote jobs and skills

4. IMAGE AND PROMOTION
   » Improve image and co-operation

5. INFRASTRUCTURE
   » Provide adequate infrastructure
     • River Information Services
River Information Services

What is RIS?

- Harmonised information services to support traffic and transport management in inland navigation and enhancing safety, security, environmental friendliness and the quality and efficiency of transport services
River Information Services

Traffic-related services:
• Fairway Information Services
• Traffic information
• Traffic management
• Calamity abatement

Transport-related services:
• Voyage planning
• Fleet Management
• Event Management
• Ports and Terminal Management
# River Information Services

## User groups and services

### Services for skippers
- Electronic Navigational Charts / Inland ECDIS
- Information on nautical conditions (fairway, obstructions, water level, etc.)
- Real time traffic information
- Electronic reporting of cargo and voyage
- Electronic pre-announcement at locks and harbours

### Services for authorities
- Real time traffic monitoring (tracking and tracing)
- Analysis of accidents
- Exchange of safety related messages
- Electronic vessel register
- Electronic lock management
- Reception of electronic cargo reports
- Border surveillance

### Services for logistic users
- Electronic cargo documents
- Data for fleet management
- Data for voyage planning
- Fairway conditions
- Water level forecast
- Availability of locks
- Calculations of arrival times
River Information Services

Enabling RIS technologies

- Inland Electronic Navigational Chart (IENC) / Inland Electronic Chart Display and Information System (Inland ECDIS)
- Inland Automatic Identification System (Inland AIS)
- Electronic Ship Reporting
- Notices to Skippers (NtS)
Examples of River Information Services

- Fairway Information

Inland ECDIS/IENC

Notices to Skippers
Examples of River Information Services

- Traffic Information
Examples of River Information Services

- Traffic Management

Inland AIS, Inland ECDIS
Examples of River Information Services

- Calamity Abatement Support

Inland AIS, Inland ECDIS and Electronic Reporting
Examples of River Information Services

- Information for Transport Logistics

Inland AIS, Inland ECDIS and Electronic Reporting
Legal Background

- RIS are regulated through Directive 2005/44/EC which defines binding rules for data communication and RIS equipment as well as minimum requirements for RIS and which
- provides for a European-wide framework for the implementation of the RIS concept
- enables RIS applications to be interoperable and compatible on a national as well as European level in order to allow continuous cross border traffic without technical obstacles
Legal Background

**EU RIS Directive (2005/44/EC)**

Commission Regulation 414/2007 concerning the technical guidelines for the planning, implementation and operational use of RIS (RIS Guidelines)

Commission Regulation 416/2007 concerning the technical specifications for Notices to Skippers (NtS)

Commission Regulation 164/2010 defining the technical specifications for electronic ship reporting (ERI)

Draft Commission Regulation defining the technical specifications for Inland ECDIS

**“what”**
- Applicability
- Responsibilities of Member States
- Minimum requirements for RIS
- Services to be provided
- Technical specifications to be applied

**“how”**

IRIS Europe Documentation
Technical and Administrative Agreement for the international data exchange
TAA & R2D2

Expert Group
Tracking & Tracing

Expert Group
Notices to Skippers

Expert Group
Electronic Reporting International

Expert Group
Inland ECDIS
RIS Implementation – Examples (status end 2010)

- Provision of fairway & traffic, water-related and ice messages (Notices to skippers)
  - 7 fully operational, 2 pilot, 4 in preparation

- Shore-based infrastructure for vessel tracking and tracing of Class Va and higher (10.500 km) and onboard equipment (Inland AIS)
  - 1.600 km fully operational, 600 km pilot
  - app. 5.500 transponders
RIS Implementation – Examples  (status end 2010)

- Reporting of ERINOT message (Electronic Reporting)
  - 2 fully operational, 3 pilot, 6 in preparation

- Electronic Navigational Charts of Class Va and higher (ENC, Inland ECDIS)
  - 7,500 km fully operational, 400 km pilot
  - app. 6,000 Inland ECDIS viewers
RIS Implementation - TEN-T

- RIS as part of the multi-annual programme (MAP) of TEN-T
  - Co-funding up to 20% for works, 50% for pilot studies
- Two calls so far – 2008, 2010
- 1\textsuperscript{st} call for proposals 2008
  - Budget allocated to 1\textsuperscript{st} call = 16m€
  - 6 projects funded as a result of the 1\textsuperscript{st} call
- 2\textsuperscript{nd} call for proposals 2010
  - Budget allocated to 2\textsuperscript{nd} call = 7m€
  - 5 projects retained as a result of the 2\textsuperscript{nd} call
RIS Implementation - TEN-T

- Projects from the previous TEN-T RIS Calls
  - Implementation of RIS on the Westerscheldt river (BE/NL)
  - Deployment of Inland AIS transponders (NL/DE; NL/FL)
  - Study and implementation of AIS monitoring network (NL)
  - Implementation of Fairway Information Services (NL)
RIS Implementation - TEN-T

- Projects from the previous TEN-T RIS Calls
  - Implementation of RIS in Flanders (BE)
  - Implementation of RIS in France - Services d’informations fluviales (FR)
  - RIS along the Northern Italy Waterway System (IT)
  - Implementation of RIS in Poland (PL)
  - Co-ordinated implementation of RIS – IRIS Europe II (Partners: AT, BE, BG, CZ, FR, HU, NL, RO, SK; Co-operation partners: DE, HR, RS, UA)
RIS further development

Several European projects are addressing the further enhancement of RIS:

- International data exchange
- Harmonised standards for Quality of Services
- Harmonised data basis for all RIS applications
- Use of RIS for logistics purposes and in logistic chain management
- European Hull Database
- Danube Fairway Information Services Portal

MAP RIS Call 2011

- General objectives and priorities

  » To foster the deployment of RIS enabling intelligent infrastructure and the provision of RIS both in a harmonised and inter-operable way
MAP RIS Call 2011

- Specific objectives and priorities – technical and organisational
  - Installation of on-board equipment and of shore-based infrastructure
  - Testing and validation of the technical feasibility and interoperability of technologies, systems, services and applications
  - Fine-tuning and further enhancement of technologies, systems, services and applications
Specific objectives and priorities – technical and organisational cont.

- Implementation of (new) services, e.g. for transport management purposes
- Facilitation of interfaces with other modes of transport
- Further development and application of concepts such as for cross border data exchange
- Provision of feedback and contribution to the maintenance and amendment of the technical specifications
Additional Information

- TEN-T projects:
  [tentea.ec.europa.eu/en/ten-t_projects/ten-t_projects_by_transport_mode/ris_river_information_services.htm](http://tentea.ec.europa.eu/en/ten-t_projects/ten-t_projects_by_transport_mode/ris_river_information_services.htm)

- RIS Portal
  [www.ris.eu](http://www.ris.eu)

- RIS brochure:

- DG MOVE:
  [ec.europa.eu/transport/inland/index_en.htm](http://ec.europa.eu/transport/inland/index_en.htm)
Thank you for your attention

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