Inland navigation

Developments in River Information Services

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Mobilité et Transports

summary

- Brief Introduction
- Services
- RIS main Tools
- Legal framework in the EU
- RIS and Logistics

Inland Navigation

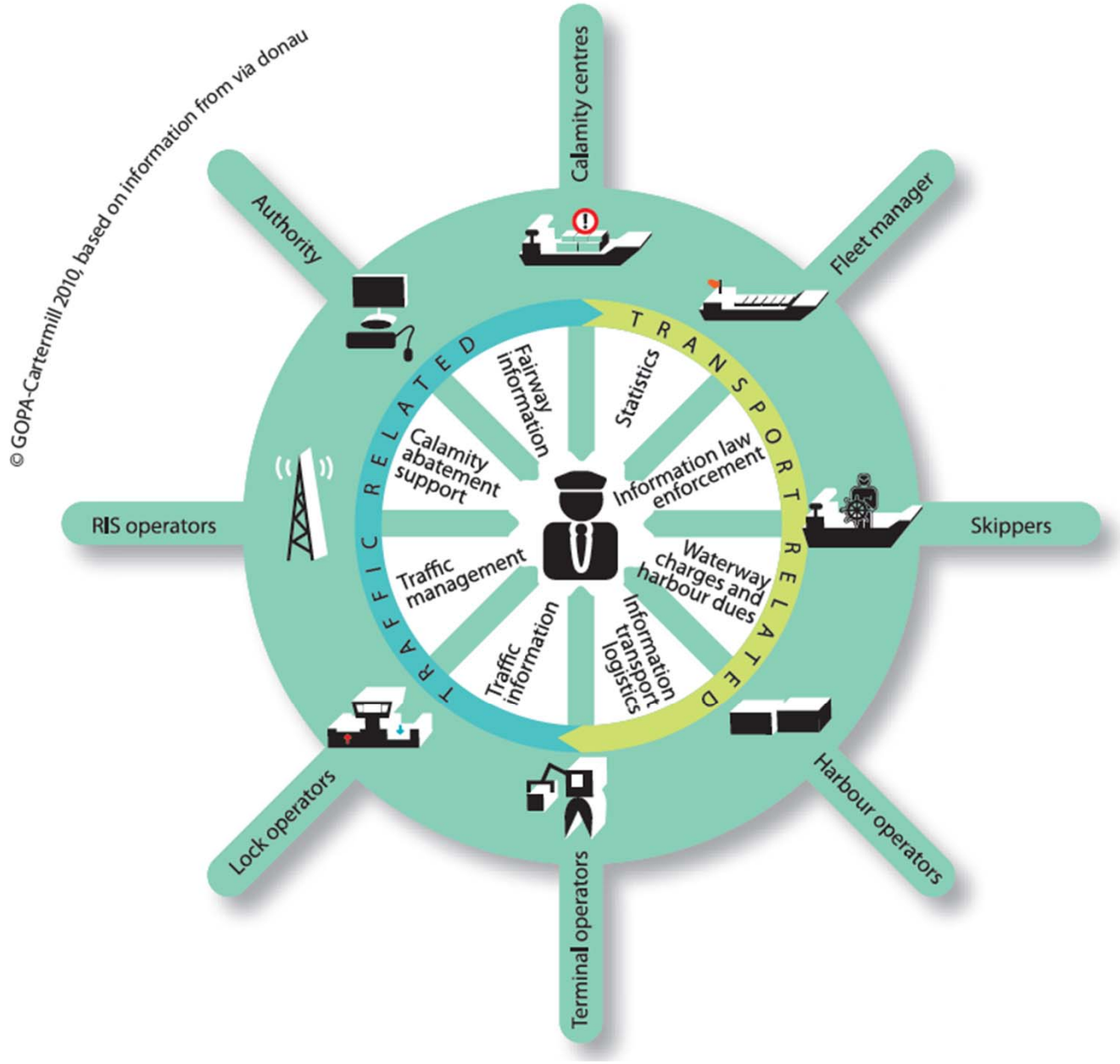
- 6% of all goods transported in the European Union are carried on inland water vessels

  but for

  - Netherlands : 35%
  - Belgium: 15%
  - Germany : 12%

Particularly important for deserving the hinterland of the main ports of Western Europe : Rotterdam, Antwerp, Hamburg.

River information services



River Information Services

- How shall we do this?
  - supply relevant data
    - ✓ concerning navigation & voyage planning
    - ✓ in an accessible electronic format
  - cross-border: timely exchange of information
  - use of electronic navigational charts
  - standardised notices to skippers
  - RIS centers
  - ...

Tools

- Notice to skippers
- Electronic Reporting
- Tracking and tracing - AIS
- Electronic charts – inland ECDIS
- HDB

Notices to Skippers

- standardized encoded messages
- inform waterway users
  - safety & accessability
  - status of inland waterway infrastructure
  - failures of aids to navigation
  - temporary blockages
  - water level & depth
  - ice & weather conditions

Electronic Reporting

- ERI = Electronic Reporting International
  - uniform paperless environment
  - information on time & at the right spot
  - fast dispatch & exchange
  - transparent standardized procedures
  - standardized information format

Tracking & Tracing

- vessels & inland navigation
  - safety & efficiency
  - onboard navigation
  - VTS: shore based traffic monitoring
  - inland AIS
    - ✓ exchange of nautical data
    - ✓ ship ⇆ ship & ship ⇆ shore
    - ✓ compatible with maritime AIS

Inland ECDIS

- Electronic Chart Display & Information System
  - electronic inland navigation charts (IENC's)
    - ✓ waterways class V and higher
  - contribution to safety & efficiency
  - incorporation of other information
    - ✓ notices to skippers
    - ✓ inland AIS

The European Hull database project

- Ships have now a unique European Vessel Identification Number (ENI)
  - facilitate the assignment of an ENI (ex: to check wether a ship has already an ENI).
  - Provide information on vessels with a Unique European Vessel identification (Number (ENI) and certificates)
  - A unique assignment of ENI is essential for the good working of RIS on a European-wide level.

Main legal framework for RIS in the EU

- European RIS directive 2005/44/EC
  - European harmonisation
    - ✓ waterways of class IV (at least)
  - interoperable and open services
  - interfaces with other tranport modes

River Information Services

- RIS Directive:
  - Technical guidelines & specifications
    - Notice to skippers
    - Electronic ship reporting (ERI)
    - Vessel tracking & tracing (AIS)
    - Inland ECDIS
    - necessary equipment for the use of RIS

Logistics

- Voyage planning
  - route optimisation
  - water levels
  - Estimated time of arrival

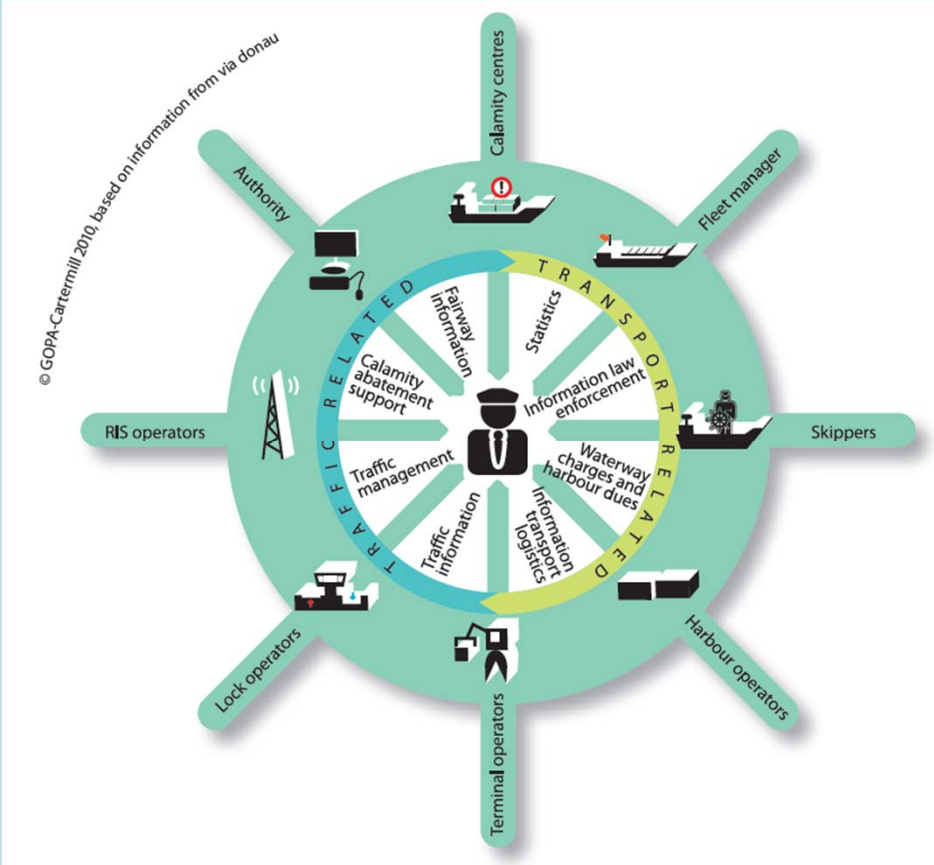
Logistics

- Transport management
  - monitor the overall performance of the fleet
  - controlling the progress of the contracted transports;
  - monitoring unexpected deviations to the reliability of these transports; and
  - facilitating the billing of the logistics services
- Intermodal port and terminal management
  - provides operators with the information they need about the estimated time of arrival of the vessel and its load in order to plan resources for terminal operations.
- Cargo and fleet management

Future of RIS

COMMISSION STAFF WORKING DOCUMENT

Towards "NAIADES II"

Promoting, greening and integrating inland waterway transport in the single EU transport area

" Investment in RIS should improve the transparency of inland waterway transport, support its integration into the multi-modal logistic chain and help consolidating freight volumes. "