Long term vision
RIS
De Vlaamse Waterweg

Editie 2018
TEAM RIS

RIS

- Harmonized "River Information Services" to support inland navigation and transport management, including the connection to other transport options

GOAL

- The RIS cell aims to contribute to a safe, reliable, efficient and smart transport process and to use the inland waterway with limited impact on the environment by offering information and services to ...

Industry

Skippers

Governments

Other departments of De Vlaamse Waterweg nv
The logistics landscape
A reliable, safe, efficient and smart waterway network also means stimulating innovation in hydraulic engineering and shipping.

Via 3 innovation programs

- Smart Shipping
  - Project Smart Vessels
  - Project Smart Infrastructure
  - Project Smart Communication
- Smart Logistics
  - Project Traffic Management
  - Project Data Sharing
  - Project Unique notification
  - Project Digitalisation permits
- Digital Inland Navigation
  - Project Digitalisation vignettes
  - Project Digitalisation documents on board
  - Project Digital permit window

Research and Innovation
Data Quality
Input from operation level
Smart Shipping

**Smart Vessel**
- Defining **test area** on Flemish waterways
- Bring **stakeholders** together
- **Gap identification research**
- Adapting **law and regulations**
- **International cooperation (PIANC WG 210)**

**Smart Infrastructure**
- **Up to date and reliable data stream concerning infrastructuur**
- Research on adaptation of **land based infrastructure**

**Smart Communication**
Focus on **safety**:
- Sharing data that supports navigation (f.ex. Inland ECDIS maps, ...)
- Increasing tactical information (f.ex. state of infrastructure, traffic density, ...)

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Smart Logistics

**Unique Notification**
- One-time, unique electronic registration
- Allowing for early notification of cargo and travel

**Traffic Management**
- Advice on optimal navigation routes on the Flemish inland waterways
- **Blue wave** on corridor level
- Introduction to control

**Data Sharing**
- Focus on efficiency (traffic management)
  - ETA, RTA, ...
  - Access for 3rd party developers
Unique Notification

AS IS situation

- Multiple limited notifications
- Fragmented character
- Seperate registration in own system
- Limited data exchange with public parties
- Own registration method/process
- Limited transparency towards private parties

TO BE situation

- ONE complete qualitative notification
- IMPROVEMENT on multiple levels
- STAKEHOLDER
- LOCAL
- EU
- CHAIN
Unique Notification

- Factory in China
- Firework shop in Olen
- Nautical transport
- Deep Sea Terminal
- Inland waterway shipping
- Inland waterway shipping / neighbouring countries
- Maritime Single Window
- Unique notification
- Operational system
- Public parties
- Private parties
- Transport
- Customer
Digital Inland Navigation

Digitalisation permits and vignettes
- For commercial shipping & pleasure craft

Digitalisation documents on board
- Digitalisation other documents on board
- Commercial shipping & pleasure craft
- Static (e.g. Ship tonnage certificate) & dynamic documents (e.g. seafarer’s discharge book)

Digital window
- One window for inland shipping
- Roll out existing payment platform to other applications, eg. shore side electricity
Vision innovation, data quality and operational input

Vision
- Strategic meetings with neighbouring countries and ports
- PIANC WG 125
- EU projects

Innovation
- EU projects
- Innovation and new technologies

Data quality
- Geographic data (Inland ENC’s)
- Operational data

Operational input
- Contact with the districts
- Application management
- Stimulating usage
- Feedback RIS-centra
International representation

Continuous improvement through concept and vision development at international level

Communicate and getting feedback

PIANC

RIS VL

DTLF

STRIA

DINA

CCR

CESNI

UNECE
Values

Creating transparency and attracting customers through offering a safe, reliable, efficient and smart waterway network

Safe
- Standards
- Harmonisation
- Good communication

Efficient
- Administrative simplification
- Traffic management
- Reduction of waiting times
- Blue wave principle

Reliable
- Reliable data and applications
- Qualitative data
- Real-time information

Smart
- Autonomous navigation
- Artificial intelligence
- Optimalisation planning