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

- 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 …
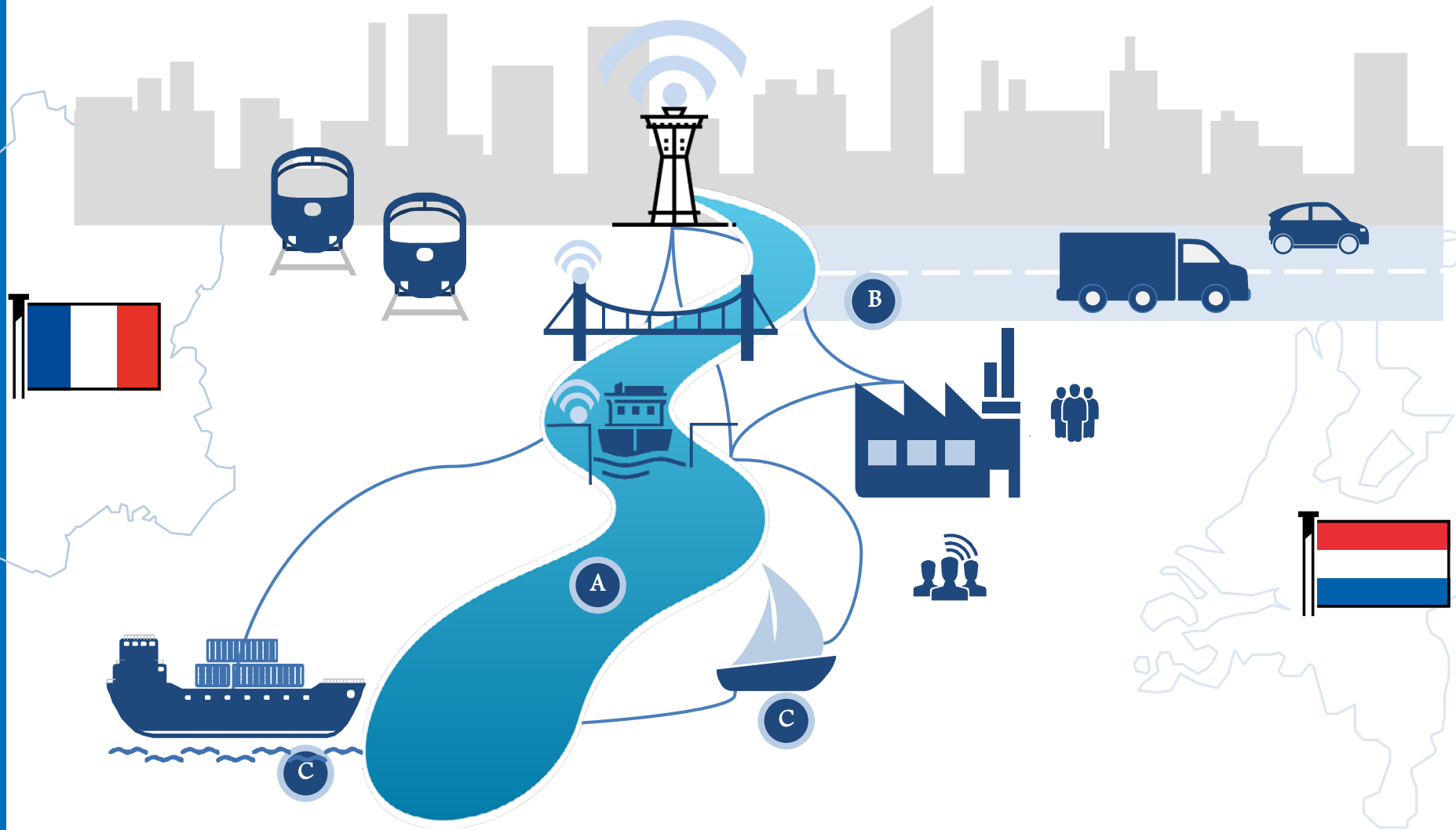
GOAL

Industry

Skippers

Governments

EU

Other departments of De Vlaamse Waterweg nv
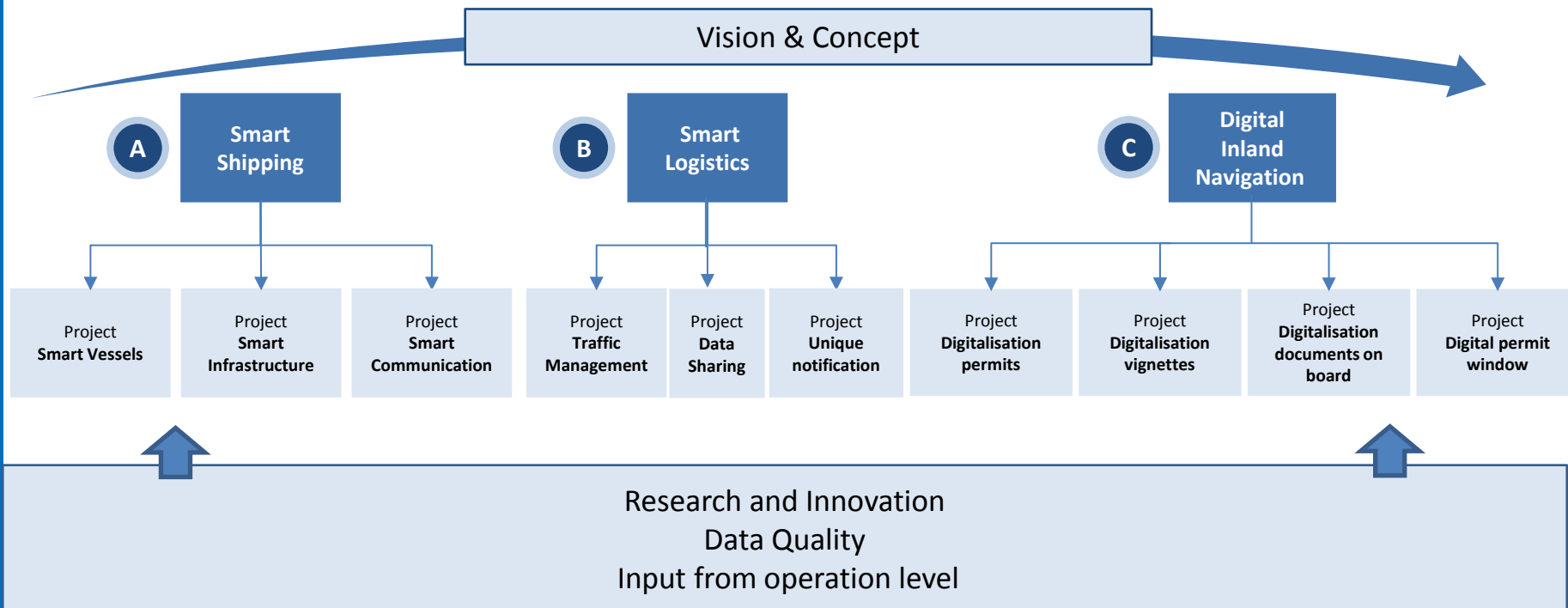
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The logistics landscape

Long term vision RIS

A reliable, safe, efficient and smart waterway network also means stimulating innovation in hydraulic engineering and shipping

Via 3 innovation programs

Vision & Concept

A Smart Shipping

B Smart Logistics

C Digital Inland Navigation

Project **Smart Vessels**	Project **Smart Infrastructure**	Project **Smart Communication**	Project **Traffic Management**	Project **Data Sharing**	Project **Unique notification**	Project **Digitalisation permits**	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**
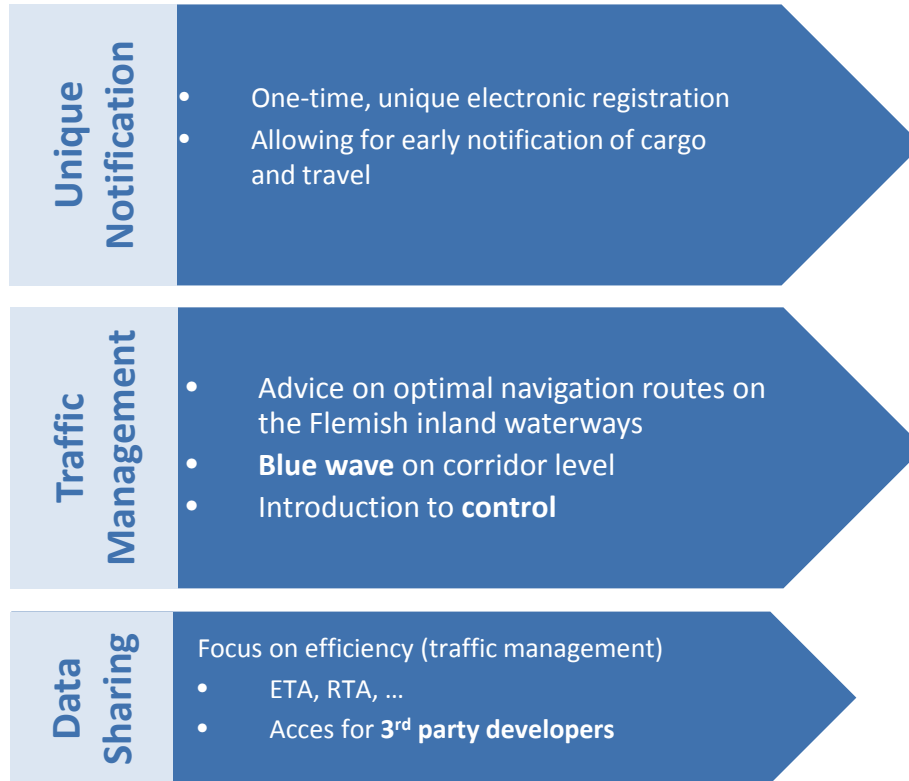- Research on adaptation of **land based infrastructure**

Smart Communication

Focus on **safety**:

- Sharing data that supports navigation (f.ex. Inland ECDIS maps, …)
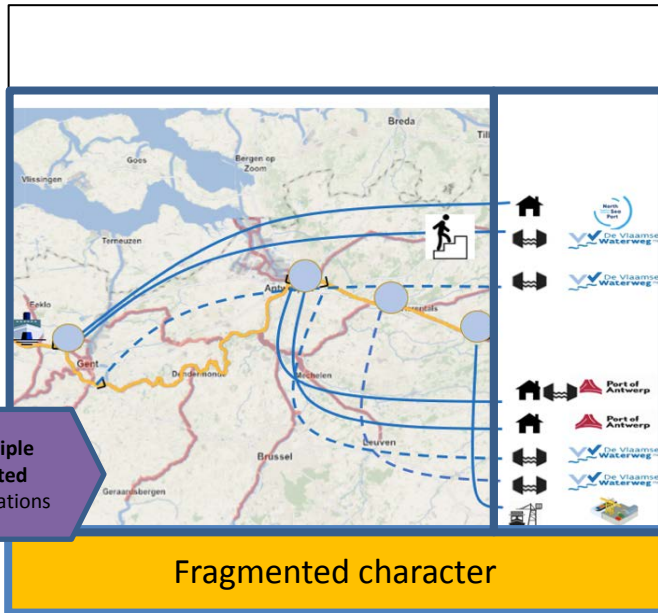- Increasing tactical information (f.ex. state of infrastructure, traffic density, …)

A

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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, …
- Acces for **3rd party developers**

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Unique Notification

Unique Notification

Factory in China

SEA

INLAND WATERWAYS

ROAD

Firework shop in Olen

| Maritime Single Window | Unique notification | Operational system |

Nautical transport

Deep Sea Terminal

Inland waterway shipping

Inland waterway shipping / neighbouring countries

Public parties

Private parties

Transport

Customer

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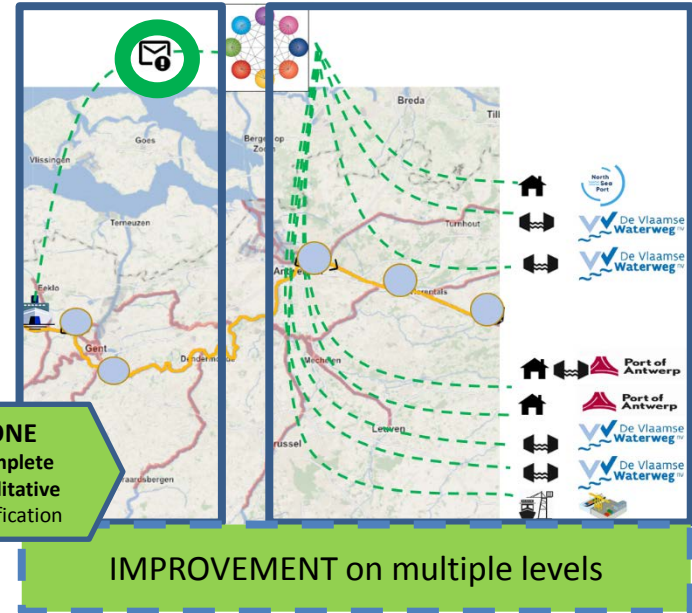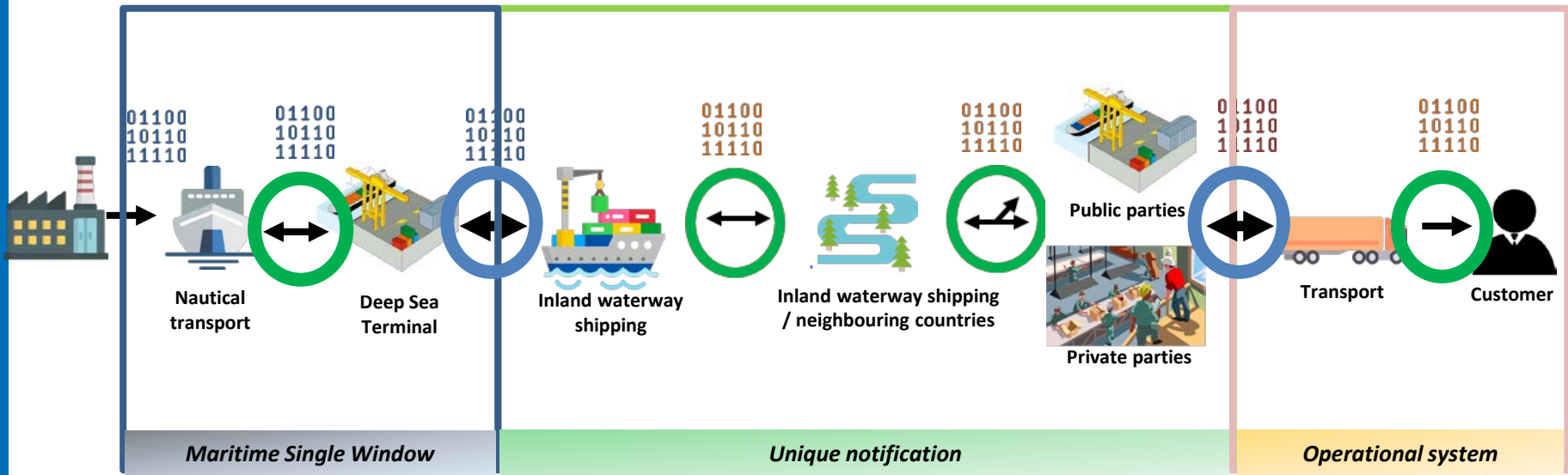
Digital Inland Navigation

Digitalisation permits and vignettes

- For commercial shipping & pleasure craft
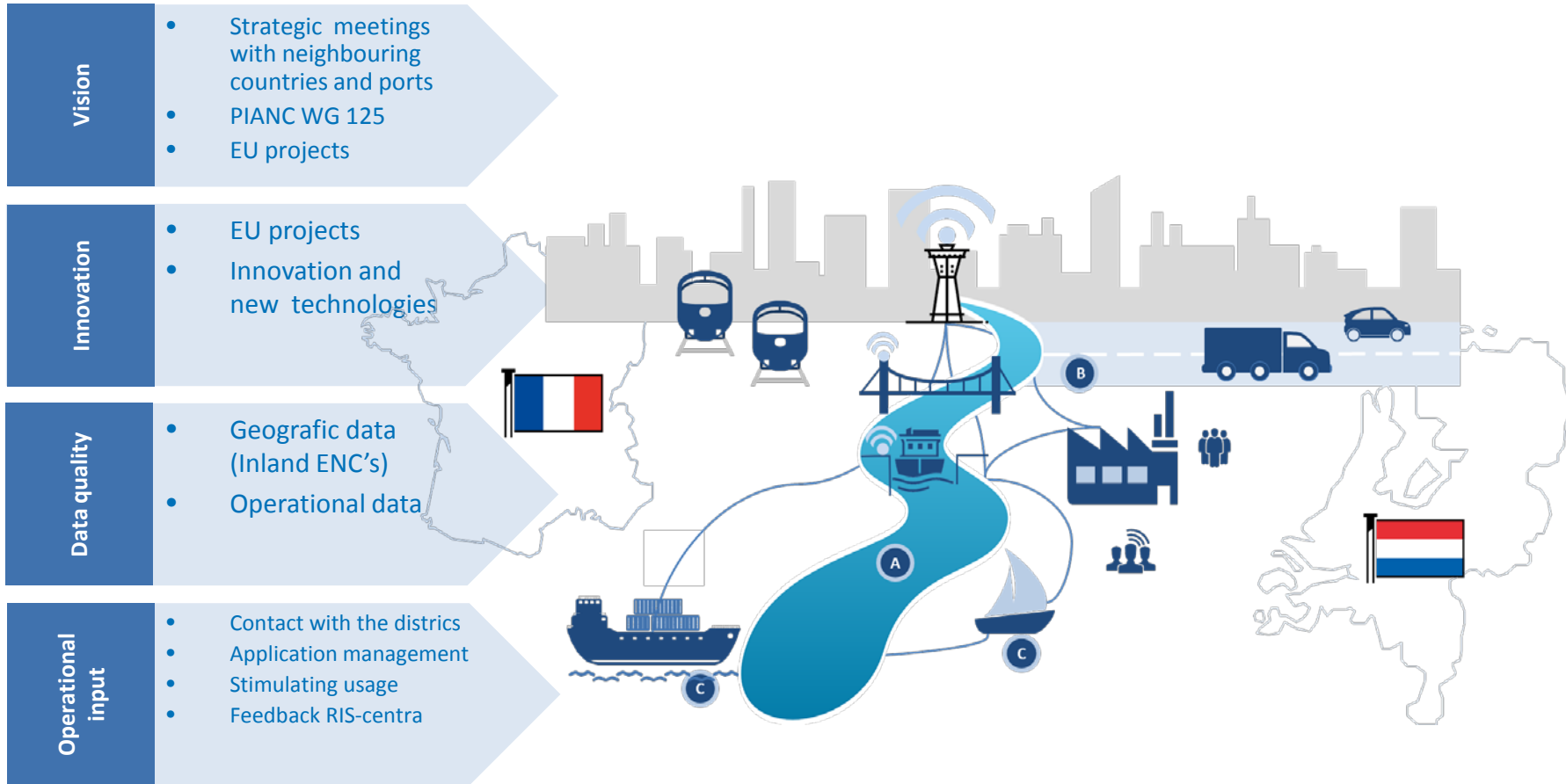
Digitalisation documents on board

- **Digitalisation** other documents on board
- commercial shipping & pleasure craft
- Static (eg. Ship tonnage certificate) & dynamic documents (eg. seafarer's discharge book)

Digital window

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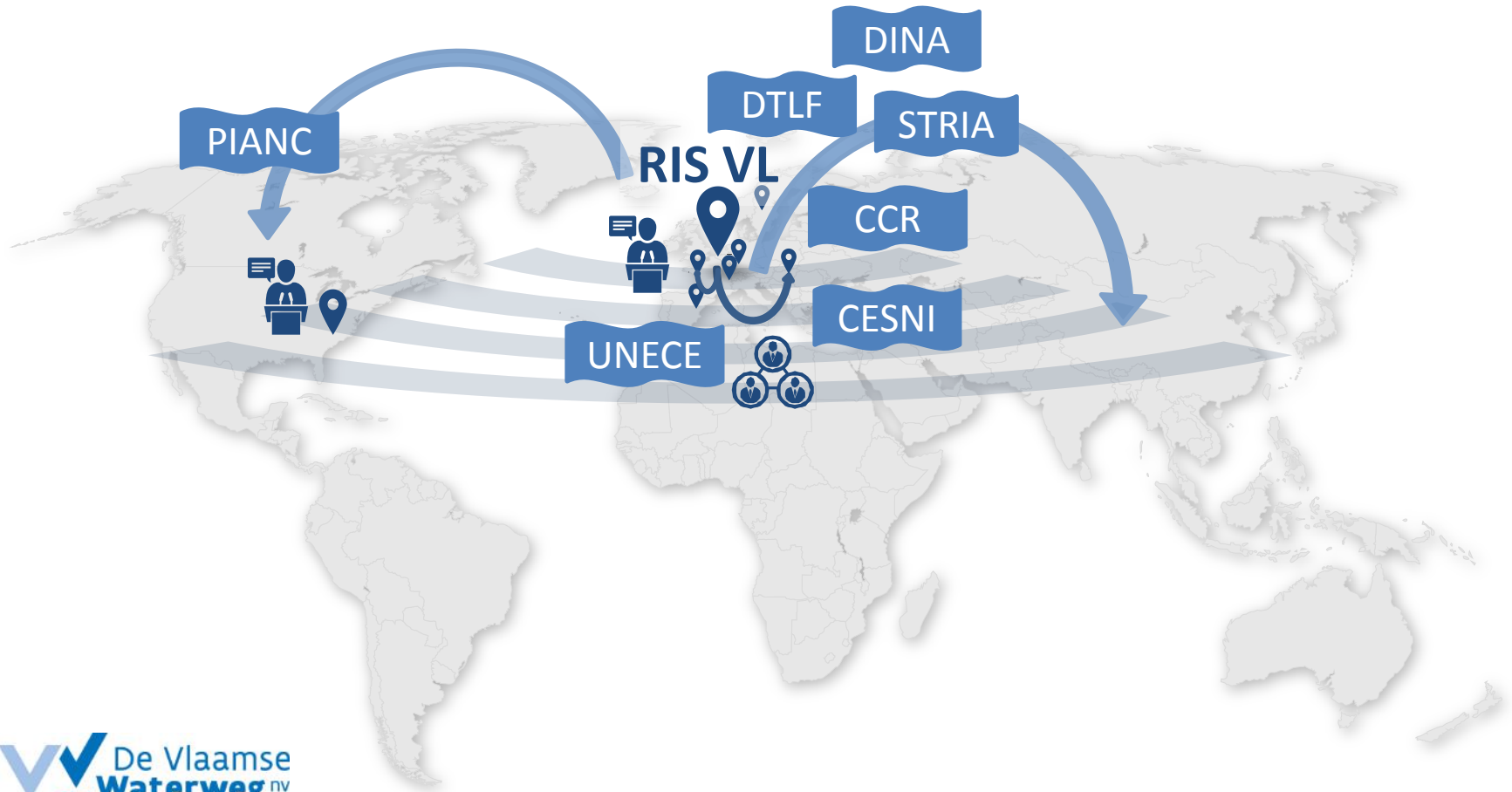
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Vision innovation, data quality and operational input

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

Innovation
- EU projects
- Innovation and new technologies

Data quality
- Geografic data (Inland ENC's)
- Operational data

Operational input
- Contact with the districs
- Application management
- Stimulating usage
- Feedback RIS-centra

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International representation

Values

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

Safe

- ✓ Standards
- ✓ Harmonisation
- ✓ Good communication

Reliable

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

Efficient

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

Smart

- ✓ Autonomous navigation
- ✓ Artificial intelligence
- ✓ Optimalisation planning

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