

# Our vision on smart and connected

Vision jointly developed by



Collection and sharing of high quality information have enabled digitalisation and automation improving door-to-door trips. Freight and passenger solutions are user-centric, adaptive and integrated across modes while respecting data privacy and ensuring cybersecurity. They also optimise sustainable transport, safe operation of assets, capacity use of available space and infrastructure, i.e. the whole life cycle management of assets and equipment by constant monitoring, thereby enhancing business and policy decision making.

## Smart infrastructure

- Dynamic traffic management provides in-advance and real-time information in an integrated way to logistics and mobility users.
- Blue wave operation of locks and bridges guarantees fluid and clock-proof shipping traffic on waterways across borders.
- Smart sensors support continuous monitoring and diagnosis and optimise the rehabilitation and regeneration of infrastructure and assets in a life cycle approach.
- The network is equipped with fast mobile broadband coverage.
- The smart infrastructure network is planned, managed and organised using open data.

## Smart vessels

- Smart vessels connect with smart ports and smart infrastructure.
- Data flows, self-diagnosis and swift machine interaction allow a progressive and safe increase in automation and autonomy.
- Vessels are designed so that they can be continuously updated with the latest digital technologies throughout their lifecycle.
- Connectivity and automation increase operations performance, capacity use, safety and the energy-efficiency of inland navigation.



## Multimodal connectivity

- Inland waterway transport is sailing paperless.
- Data are interoperable across transport modes on a “one record, once only” basis making inland waterway transport easy-to-use in synchro-modal operations.
- For freight, inland waterway transport and ports are fully integrated in interconnected logistics solutions.
- People commuting into and within urban conurbations over water swiftly switch to other transport modes to reach their end destinations on a multimodal single ticket.

## Safe and secure

- Inland waterways are a precious resource and an asset with multiples values, providing vital services.
- Its digital environment which is connected to other systems provides a safe and secure space for data sharing protecting sensitive public and private data.
- A cyber resilience strategy is in place to safeguard continuity of service.