

Inland waterways transport & ports



STRATEGIC RESEARCH AGENDA
Inland Waterways & Ports



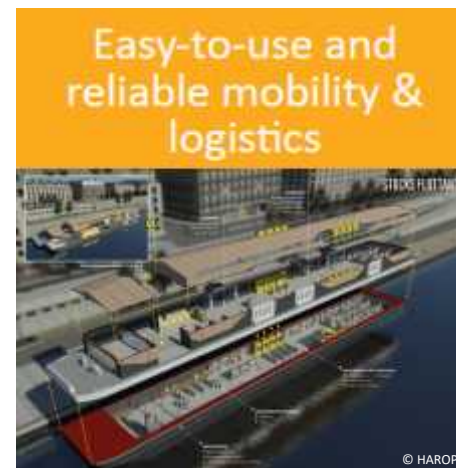
Europe in 2050?



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Our contribution



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Healthy and easy-to-reach cities



- **People and goods** reach their destination in a reliable, affordable, healthy and safe way.
- The **waterfront is a shared space** in urban areas where it is good to live, work, enjoy and trade

- Life cycle management into mainstream
- Best practices for integrated waterway development established

- All logistics trainees and workers aware how to include waterway transport in logistics solutions
- Continental transport by waterway mainstream

- Climate proof infrastructure
- Movement of people and goods over water increased in congested waterborne areas

2023

2030

2050

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Zero-emission & resource efficient



- **100% renewable energy and no harmful emissions**
- **Clean refuelling infrastructure** is available all along the network
- Vehicles and equipment are **fully recyclable**
- Logistics enable the **circular economy**

- Affordable zero-emission solutions for different vessel categories
- Legal framework

- Zero-emission new built
- Legacy fleet conversion to zero emission
- Safe shipping technologies

- All vessels zero-emission
- Zero-accidents/zero loss of life, zero pollution

2023

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2050

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Easy-to-use and reliable



- Digitalization and automation
- Easy-to-use and secure **door-to-door trips**, adaptive and **integrated across modes**
- Optimized **safe operation of assets, capacity use of available space and infrastructure**, i.e. the whole life cycle management of assets

- RIS corridor services
- Steering assistance and partial automation
- Partial remote control infrastructure

- Physical internet
- Automation with human fallback performance
- Remote control

- Fully autonomous shipping and infrastructure

2023

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2050

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Climate resilient waterfront



- **Sustainable passenger & cargo shipping co-exist with nature and other water functions** without additional land use
- People and business are **protected against floods and droughts**
- **Nature hosts a rich fauna and flora**

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Fit for the Future

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