Navigator 2020

Strategic Research and Innovation Agenda for Inland Waterway Transport

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Main objective of the Strategic Research and Innovation Agenda (SRIA)

To provide guidance on inland waterway transport research initiatives and the deployment of the results by the

- Identification of the guiding EU policy objectives
- Setting out the inland waterway transport vision for 2020
- Identification of 3 main challenges
- Setting out 4 action areas, their strategic goals as well as the required research and innovation

The Strategic Research and Innovation Agenda is a proposal of the PLATINA partners (DST, INE, VNF and via donau) and was prepared with input of 44 experts from 12 countries
Development Steps of the Strategic Research and Innovation Agenda

Innovation Expert Group (as of 05/2009)

SRA I and II (04/2011)

SRIA
Intervention logic

Guiding policy objectives
- Increase modal share inland waterway transport
- Increase energy efficiency of inland waterway transport

Navigator 2020 Vision
Inland Waterway Transport serves the European economy and society by delivering freight through cost-efficient, safe and sustainable transport services with minimal impact on the environment. It contributes to the competitiveness of European industry by meeting market needs for affordable and reliable transport of goods with sufficient capacity. IWTInland waterway transport holds a leading position in technological and operational innovations.

Main challenges
- To sustain the competitiveness of the EU transport system
- To strive for long-lasting green excellence
- To create a supporting governance capability

Action areas
- Logistics efficiency
- Infrastructure
- Vessels
- Education & qualification
- Enabling action and research & innovation needs
- Technologies/methods expected until 2020/2050
- Expected results and targeted outcomes
- Proposed research topics
- Proposed uptake actions
Guiding EU policy objectives

- White Paper on Transport 2011
- Strategic Transport Technology Plan (STTP)
- Commission Staff Working Document “Towards "NAIADIES II“ Promoting, greening and integrating inland waterway transport in the single EU transport area”
Navigator 2020 Vision

Inland Waterway Transport serves the European economy and society by delivering freight through cost-efficient, safe and sustainable transport services with minimal impact on the environment. It contributes to the competitiveness of European industry by meeting market needs for affordable and reliable transport of goods with sufficient capacity. Inland waterway transport holds a leading position in technological and operational innovations.
Main Challenges

- Challenge 1: To sustain the competitiveness of the EU transport system
  → Targets for modal shift
- Challenge 2: To strive for long lasting green excellence
  → Targets for reduction of CO₂ and air pollutants
- Challenge 3: To create a supporting governance capability
  → Targets for governance structure
Action areas and their strategic goals (1/2)

- **Logistics efficiency:** Smart and intelligent logistics solutions as well as cost-efficient transshipment support multimodal, seamless transport and just-in-time delivery of a vast range of cargo over short and long distances. Inland Waterways are a logical and fully integrated choice within the multi-modal mix, leading to decreasing energy costs, less carbon and reduced congestion in a lean and green supply chain.

- **Infrastructure:** A well maintained and climate change resilient inland waterway network without bottlenecks forms the backbone of a reliable European transport infrastructure.
Action areas and their strategic goals (2/2)

- **Vessels**: A new generation of smart, clean, innovative and climate change-adapted vessels enables sustainable transport with low impacts on the environment and forces the use of alternative and sustainable energy sources.

- **Education & qualification**: Adequately qualified crews continue to ensure safe and reliable transport services. Sophisticated approaches such as simulators, e-learning efficiently support education and qualification. Inland waterway transport offers challenging jobs and attracts qualified staff and talent.
Required research and innovation

For each action area definition of

- Strategic goal
- Challenges
- Barriers
- Enabling and uptake actions
- Research& innovation needs
- Technologies/Methods expected until 2020/2050
- Expected results and target outcome
- Research topics proposed to be integrated in the Horizon 2020 Facility (2014-2020)
Conclusion

The Research and Innovation Agenda for Inland Waterway Transport contributes to the core European policy targets. Its implementation strengthens Europe‘s competitive position, preserves high-level employment and meets Europe‘s ambitious greenhouse gas reduction and energy efficiency targets.
Thank you for your attention!

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