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Unmanned vessels monitored & operated by shore captain

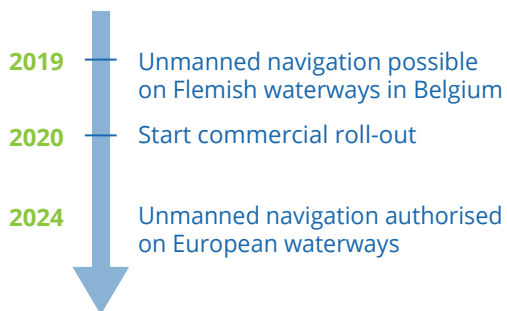


Innovation

- Unmanned navigation of automated barges on small waterways
- Remote monitoring and controlling of multiple barges from shore control centre



Milestones



Assets

- EU technology of maritime robotics and software development
- Opens new opportunities for small cargo shipping on small waterways
- Increases operational efficiency, maximises cargo space, reduces operating expenses and energy cost
- Increases safety and decreases risk of accidents
- Solves crew shortage in the inland shipping sector
- Makes inland navigation an attractive profession for young people and the digital generation

Inland waterways & ports in action

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Technology brief

- Unmanned shipping, not yet autonomous: ships are operated from a control centre
- Development of AI tools, so one Shore Captain can control multiple vessels.
- Focus class I-III waterways and port areas: vessels and barges of max. 55m and 650 tonnes
- Integrated services to barge owners: integration of technology (sensors and software), remote operating of barges from shore control centre and barge management



Required for deployment

- EU smart inland shipping strategy
- Exemptions for unmanned inland shipping on more EU waterways in close cooperation with authorities
- Regulation, research, education and training for captains in shore control centres
- Allow STCW captains to operate inland vessels from a Shore Control Center



More information

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