Simulating an autonomous vessel (SFAZ) network for urban logistics

Funded by the European Union

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Project by :

FOREMAST

SIMULATING AN AUTONOMOUS VESSEL (SFAZ) NETWORK FOR URBAN LOGISTICS

Waterborne

Digital Twins, AI and predictive technologies

FOREMAST

Solution description

Simulating entire urban waterway transport networks with multiple vessels and routes.

Evaluating scenarios such as routing strategies, convoying/platooning, fleet sizing and traffic rules.

Modelling feasibility, efficiency and impact of deploying SFAZ in multimodal chains by simulating their interactions with each other and with infrastructure

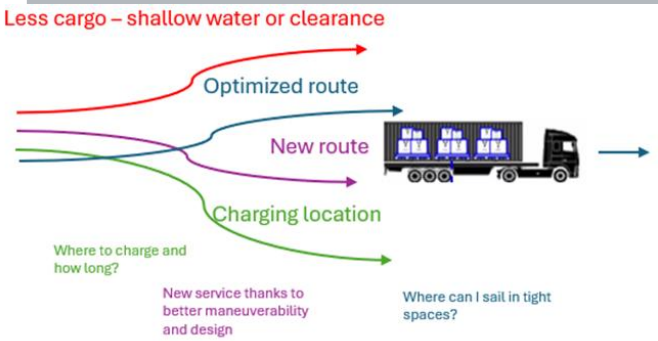
Identifying optimal network configuration, service schedules and conditions where SFAZ outperform other modes

Benefits

- Coordination of vessel operations with trucks, vans, cargo bikes, terminals to create efficient end to end delivery.
- Maximisation of asset use, reduce delays, …
- Use of Urban Waterway Network for last mile/first mile and shuttle services.

Main beneficiaries:

Multimodal LSP's and Barge owners/operators who want to extend their services.



Technology readiness level : *5*

Implementation stage : *Concept*

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Share your contact details and we'll get in touch with you!

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Would you like to know more? Take contact :

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