

MULTIMODAL PROJECTS / IW-NET

21/06/2023

DOOR-TO-DOOR URBAN LOGISTICS



7

ZULU & ALPHA vessels : quiet, eco-friendly & energy efficient

> ZULU 06: H2 propulsion (end 2023)

300

Loading capacity of 300 tons = 13 to 15 trucks

1

Onboarded crane to load/unload on any type of dock

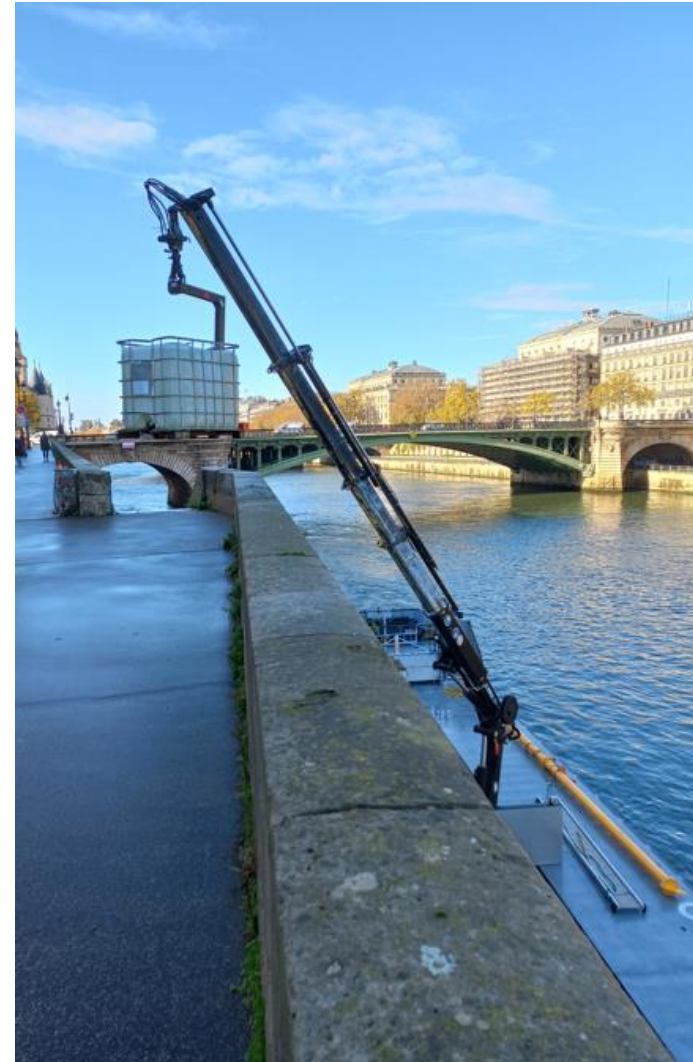
3

Covering 3 countries:

France, Belgium and the Netherlands

Optimizing The Interconnection Between IWT & Urban last-mile logistics

- **REMINDER OF ISSUES AND GOALS**
- **OUR VISION OF URBAN WATERWAYS DISTRIBUTION**
- **OUR TOOLS** : Adapted Container .
Example of FlexiMalle : Little wink to the Malle de Voyage » in French but especially to aim an Flexibility Maximale !
- **HIERARCHICAL TRACABILITY** :
Crucial to optimize urban distribution services. IW-NET work test



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➤ REMINDER OF ISSUES AND GOALS

- The population is concentrated more and more in the cities and **consumption population expectations are changing rapidly**, urban distribution must adapt to remain efficient and competitive
- **For authorities and goals to re-develop (!) urban transport with minimal environmental impact and nuisance**, Inland waterway transport is an excellent way to bring goods into dense urban areas.



Optimizing The Interconnection Between IWT & Urban last-mile logistics

- **Our market model :An inland waterway response to door-to-door urban delivery**



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- Our market model :An inland waterway response to door-to-door urban delivery



1st European hydrogen boat at your service

6 Modern boats, silent, eco friendly and self-unloading, hydrogen-powered

320 Tons transported, equivalent of 20 trucks



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- **OUR TOOLS** : Adapted Container . Example of FlexiMalle : Little wink to the « Malle de Voyage » in French but especially to aims an Flexibility Maximale !

FlexiMalle offers a suitable solution to optimize delivery logistics. It is characterized by **standard dimensions to adapt and be transfered between different modes of transport (River, rail, road)**. easily loaded and unloaded

FlexiMalle also optimizes the use of loading and unloading spaces (construction sites), minimizing wait times and maximizing operational efficiency.



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- **HIERARCHICAL TRACABILITY** : Crucial to optimize urban distribution services. IW-NET work test :
 - need an accurate tracking of operations
 - Track every step of the distribution process in real time (different means of transport, Consolidation and dé- consolidation with different container, boxes, pallets...)
 - Optimize route planning
 - Anticipate possible delays
 - Adjust in real time



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