

# FLUDIS



## Multimodal delivery in urban environment



### Innovation

- New concept for multimodal urban delivery of packages and parcels
- Combination of 100% electric inland vessel and cargo bicycles
- Ship as a floating warehouse

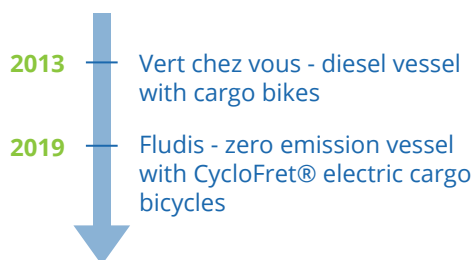


### Emission reduction

- CO<sub>2</sub> : 100% by introduction of zero emission vessel and bicycles



### Milestones



### 4 basic components



#### 1 warehouse vessel

Milk run & cargo consolidation prepared on-board, 100% electric engine, self-unloading, amphidrome



#### 30 cargo bikes for last mile delivery

Electric cargo bicycle, 250 kg load, volume 1.7 m<sup>3</sup>, embedded lifting, removable Euro-pallet container



#### "Milk-run" system

Reliable deliveries, short and frequent delivery runs, productivity, optimisation and proximity



#### 30 direct jobs

Fulltime contract and stable employment, professionalisation of bicycle deliveries

# Inland waterways & ports in action



# FLUDIS

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## Technology brief

- Fludis is a 38-meter-long electrically powered warehouse ship – the classic Freycinet barge format – equipped with 2 on-board cranes to put pallets ashore and capable of accommodating up to 30 electric-powered cargo bicycles
- No port handling infrastructure required
- From home to delivery port dispatchers sort up to 3,000 parcels per day to optimize the tours during the journey
- For 4 Parisian stops, each bike can ensure up to 4 tours per day, each carrying up to 250 kg of parcels
- A single ship, fully equipped, avoids in one year 300,000 kilometers of delivery by road around Paris and the emission of 110 tonnes of CO<sub>2</sub>
- Current clients
  - Ikea
  - Lyreco
  - Paprec



## Required for deployment

- River decision-makers support this innovative solution for urban logistics
- Approval from waterway authorities for the transport of goods
- A home port to load Fludis + waterside stops along the delivery journey
- Customers with high volumes of parcels (suppliers, shipping companies, forwarders, shippers)



## More information

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Green Inland Shipping Event  
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