



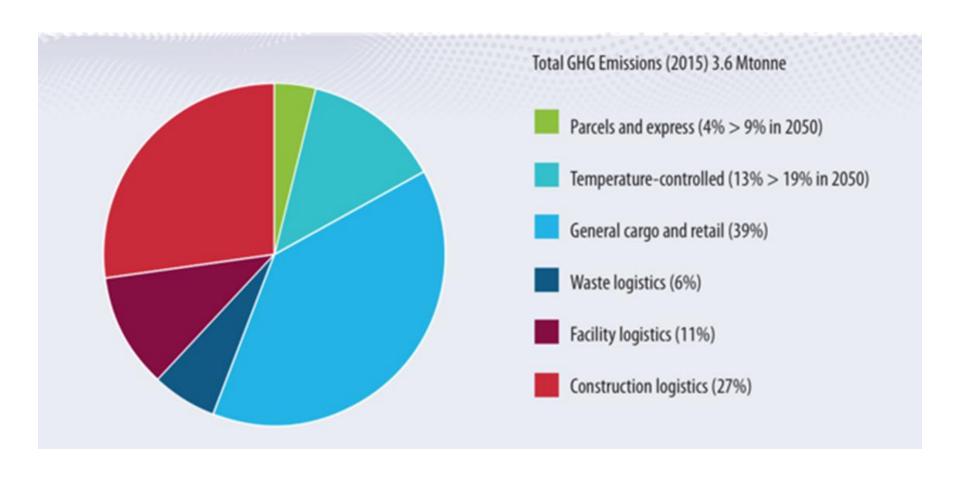
The journey: floating depot, light electric vehicles (e-cargobikes), microhubs and public procurement

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Feelings & Facts: Outlook City Logistics 2017 (Topsector Logistiek/Connekt/TNO/CE Delft/HvA)





The original dream....floating depots and Light Electric Vehicles...

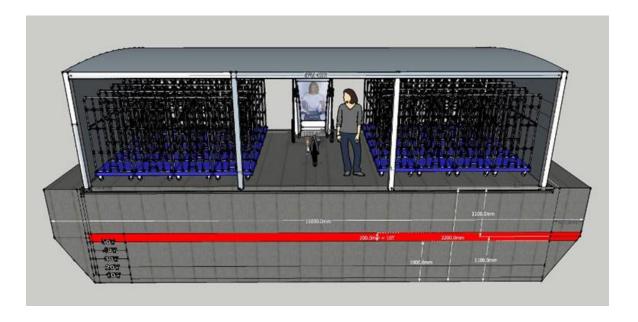




Original design of supply chain: floating depot or floating truck?







Original design was wiped off the table due to new logistic sorting/distribution centers parcels





Floating Depot Fase II: food delivery to dense district "De Pijp" Amsterdam





Business case collapsed due to:

- Hesitation launching customers food BtB retail
- Hourly rate, 2 boat operators vs 1 truckdriver (€135 vs €50 p/h)
- Time to float vs driving time
- Designed boat had no extra loading capacity compared with a truck



20 sorting/distribution depots PostNI Parcels: >600k parcels p/day. Average delivery routes 150-200 stops require bulk solutions, however.... Last mile city delivery might change.





Fase III: Pilot & roll out: Microhubs & E-cargobikes/light electric vehicles

postni



Next steps: Public procurement is very effective push for national Green Deal Zero Emission City Logistics (living labs, in 2025 zero emission delivery in city centers)

Topsector Logistiek



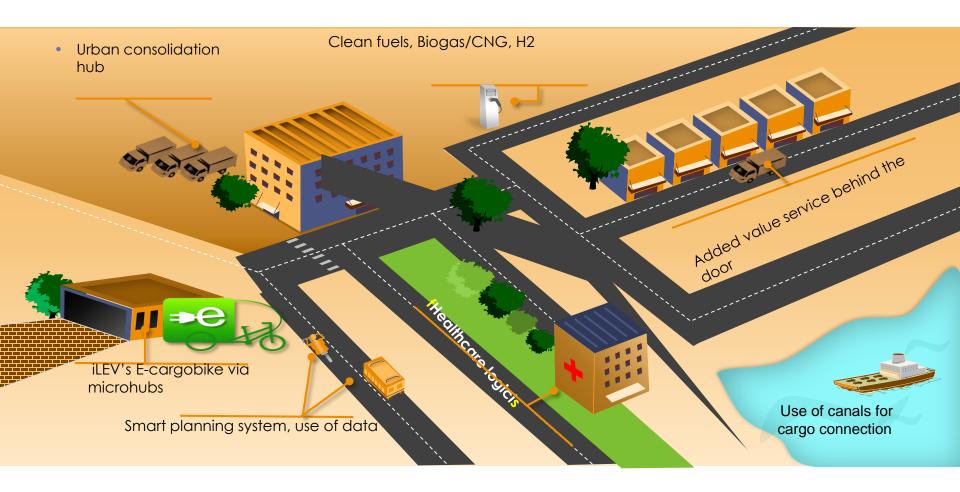


 HvA/UvA, Municipality of Amsterdam use procurement power to force suppliers to deliver via hub/zero emission

 PostNL is logistic provider of Urban consolidation center Deudekom Amsterdam

Opportunities for PostNL by solving emission/congestion issues in urban area





Future fase? Possible revival floating depot as floating microhub for E-cargobikes or autonomous boats....



