



CiViTAS
Cleaner and better transport in cities



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Beer Boat, Cargohopper: Innovative inner city distribution in Utrecht.

CIVITAS Forum

27-29 September 2010

Malmö (Sweden)

Mark Degenkamp, City of Utrecht (The Netherlands)

Urban freight distribution in Utrecht: Clean, consolidated and innovative

Almost 10 years of serious attention

Dutch Urban Freight Award Winner 2009



Success factors:

- Practical approach
- Private partners
- Regional co-operation
- **Innovative**



Beer Boat: origins

10 years ago

- Damage to historical cellars and bridges
→ Rigid axis load restrictions
- Bars and restaurants along canal
- Beverage wholesalers need solution



Transport by municipal boat

Solution for many problems

- Axis load restrictions
- Labour laws
- Time windows
- No vehicle investments
- Right level
- Neutral operator



Beer boat innovations

Fresh, cooled, frozen goods

- Insulated roll containers
- Planned: cold store on board



Second beer boat: fully electrical

Planned: new electric boat for goods and garbage



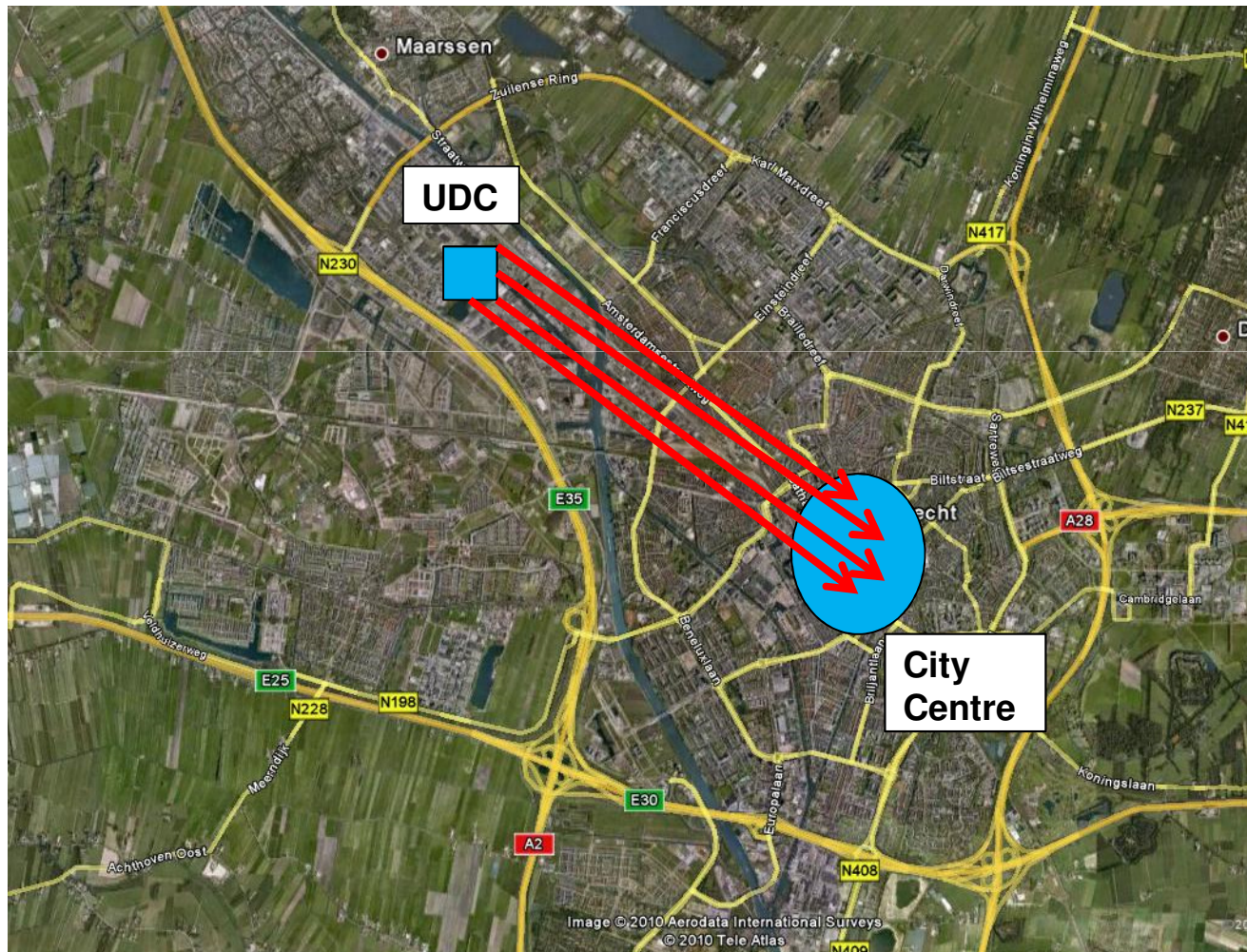
Cargohopper

City distribution by small electric road train

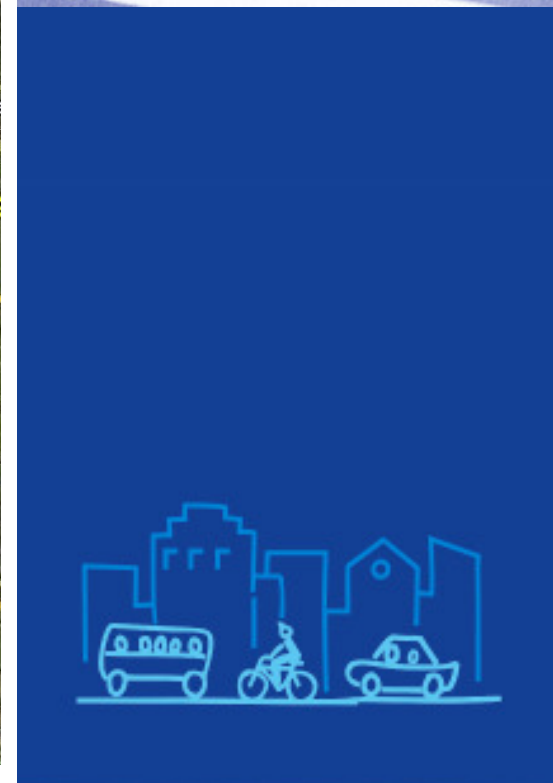
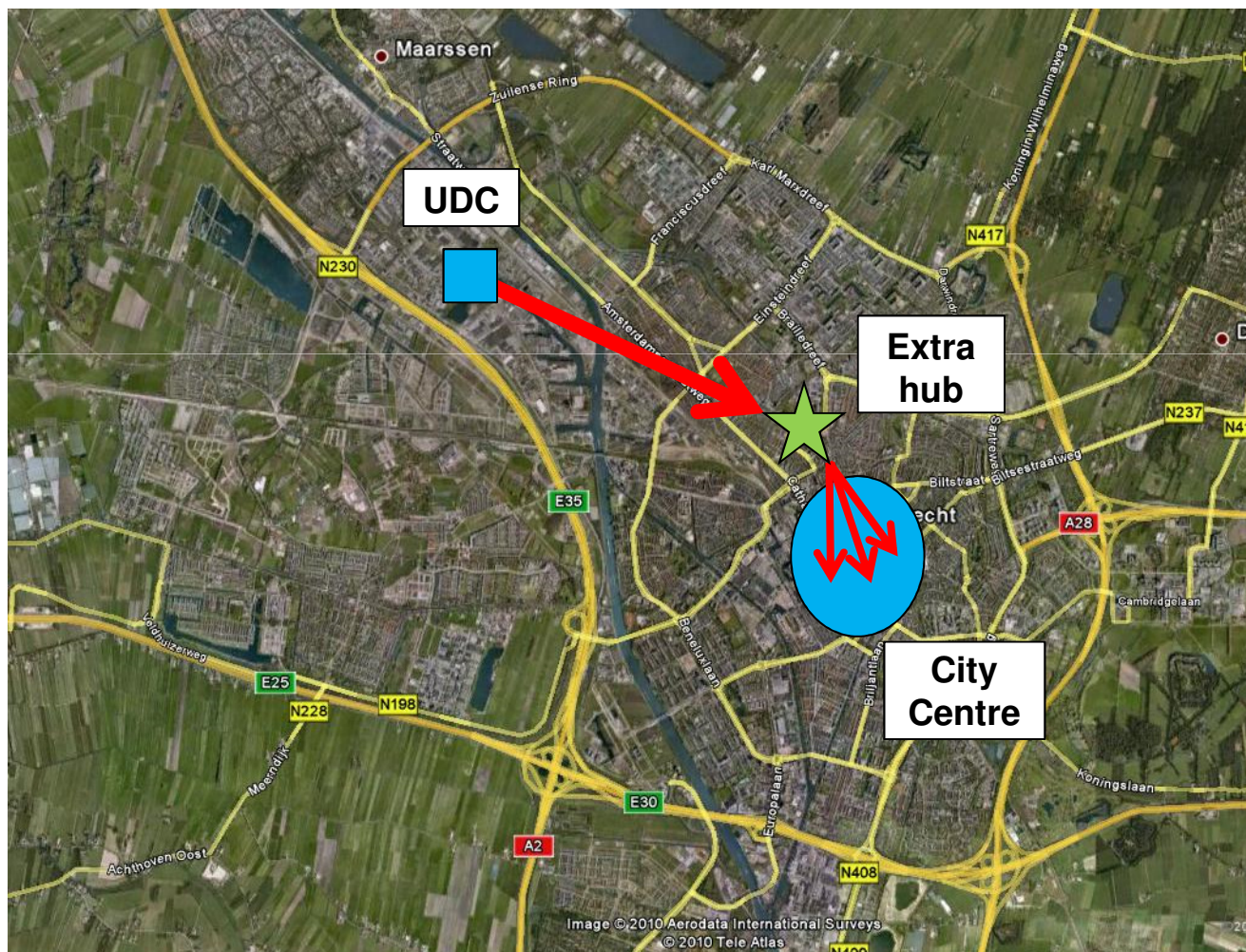
- Originated at round table organized by municipality
- Private initiative from existing company
- From first scratch to operation in 4 months.



Cargohopper, a LOGISTICAL concept



Cargohopper, a LOGISTICAL concept



Cargohopper, the vehicle

- Existing mass-produced electric vehicle
- Trailers: simple design
- Long (16m), but very manoeuvrable, tracking wheels
- Only 1,25m wide
- Solar panels on top



Cargohopper, an educational project

- Future truck drivers
- Actual operation
- Long vehicle
- Client contacts
- Sustainable driving



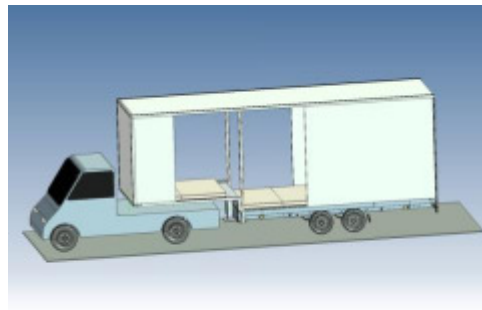
Cargohopper, results and future

Results

- Serves 60-100 addresses per day
- Saves 100.000 van kilometers per year
= 20.000 liter diesel = 30 ton CO₂
- Energy generated by solar panels: 9 households

Introduction of Cargohopper II

- Same logistic concept
- Larger and faster
- Still narrow and electrical
- Pallets, roll containers
- Other districts



Cargohopper, the role of the municipality

Facilitator

- Location search for secondary hub
- Legal requirements
- Regular exemptions

No subsidy for exploitation



If you want your own Beer boat or Cargohopper

- Forget the vehicle!!!
- Copy the logistic concept
- Don't try it yourself, but find an enthusiastic private partner
- No exploitation subsidies, sound business case
- Only support and exemptions that are not exclusive
- Only step into the market as a government if service of common economical interest



Thank you

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