CONTAINERISATION IN CITY LOGISTICS





JOS SLUIJSMANS





- Cycling consultant
- Cycling promotion
- Cycling events
- Cycling is fun







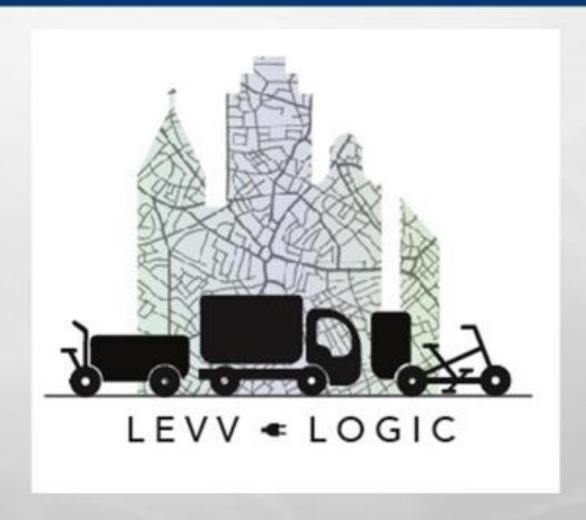




INTERNATIONAL CARGO BIKE FESTIVAL 14-16 JUNI 2019



LEVV-LOGIC



LEVV-LOGIC

RESEARCH INTO THE APPLICATION OF LIGHT ELECTRIC FREIGHT VEHICLES INCLUDING E-CARGO BIKES

RESEARCH INTO THE POTENTIAL OF LEFV FOR SPECIFIC FLOWS IN CITY LOGISTICS

DESIGN OF NEW LOGISTIC CONCEPTS

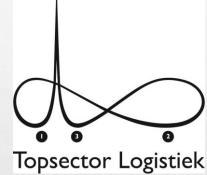
TRANSLATE REQUIREMENTS OF LOGISTICS INTO TECHNICAL DESIGN

EXPERIMENTS WITH NEW LEFV-CONCEPTS

OBJECTIVE: COST-EFFECTIVE DEPLOYMENT OF LEFVS FOR CITY LOGISTICS

RIPPL REGISTER OF INITIATIVES IN PEDAL POWERED LOGISTICS





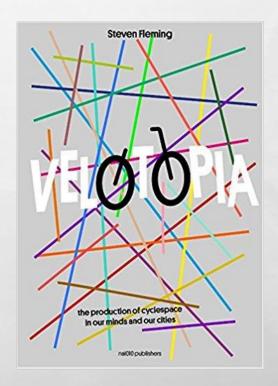


- CONTAINERISATION
- HEAVY DUTY COMPONENTS
- FOOD
- WASTE
- MOBILITY AS A SERVICE
- CARGO BIKE SHARING

WWW.RIPPL.BIKE

CITIES FOR PEOPLE

- 8-80 CITIES GIL PEÑALOSA SAFETY
- TRIPLE A ACCESABILITY FOR ALL AGES AND ABILITIES
- ARCHITECTING INTERACTION –
 STEPHANIE AKKAHOUI HUGHES –
 COMMUNITY BUILDING
- VELOTOPIA STEVEN FLEMING -THE CYCLING CITY



CARGO BIKES

- DON'T GET STUCK IN TRAFFIC
- CAN TAKE SHORTERROUTES
- NO PARKING PROBLEM
- LOWER TOTAL COST OF OWNERSHIP



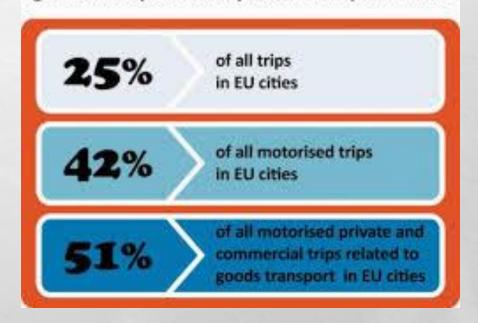
400.000 CARGO BIKES

•> 50% OF GOODS

400.000 CARGO BIKES

1,5 MILLION TONS OF CO2
 REDUCTION

Potential to shift motorised trips related to goods transport to bicycles in European cities



IN 10 YEARS/ 2025

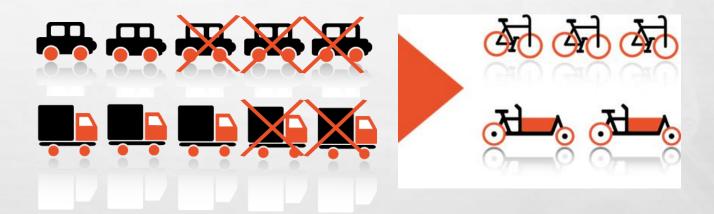
POTENTIAL IN THE AREA OF DELIVERIES



IN THE AREA OF DELIVERY, EVERY FORTH TRIP
ASSOCIATED WITH THE TRANSPORT OF GOODS
COULD BE SHIFTED FROM MOTORISED VEHICLES
TO CARGO BIKES

25% OF ALL URBAN DELIVERIES COULD BE DONE BY CARGO BIKE!

BIG POTENTIAL



In European cities, every second motorised trip, associated with the transport of goods, could be shifted from cars or vans to bicycles, cargo bikes or cargo trikes

CONTAINERISATION

Containers: used for over 100 years



Use of containers in UK rail transport 1928



Containers in sea transport - start Sealand 1969



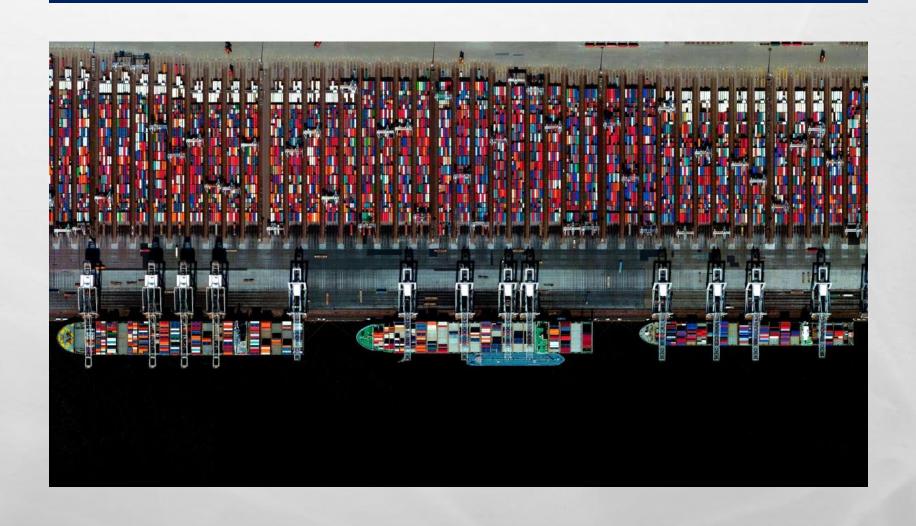
2015: 170 million TEU at sea, 20,000 TEU ships



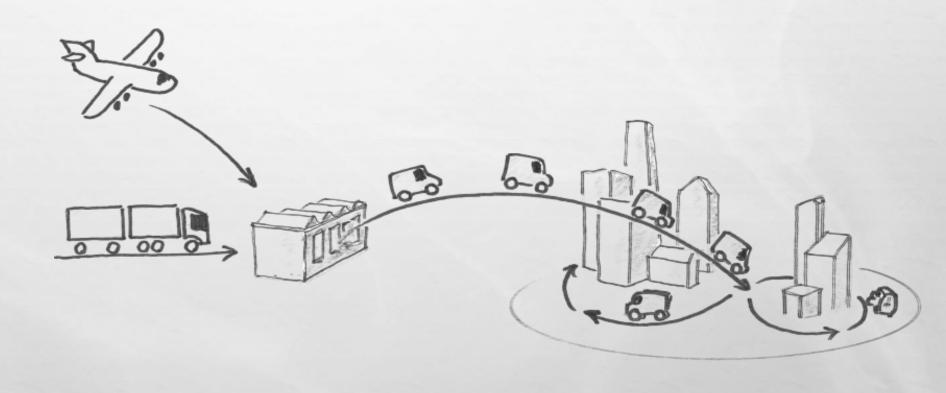
Air cargo containers (ULD) - standard for air cargo



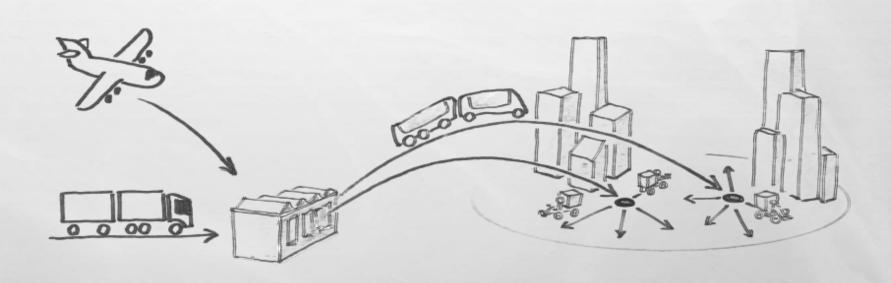
CONTAINERISATION



TODAY, VANS BOTH BRING THE GOODS INTO THE CITY AND DO THE LAST MILE DELIVERY



CONTAINERS ARE LOADED IN THE TERMINAL, BROUGHT INTO THE CITY WITH BIG VEHICLES, DROPPED OFF AT TERMINAL/HANDOVER POINTS WHERE LAST MILE DELIVERY VEHICLES PICK THEM UP FOR LAST MILE DELIVERY



CONTAINERISATION

ADVANTAGES

- BETTER CONTROL
- TRANSSHIPMENT OF CONTAINERS INSTEAD OF GOODS
- EASIER, FASTER & CHEAPER
- MORE EFFICIENT



CONTAINERISATION

DISADVANTAGES

- NECESSARYINFRASTRUCTURE
- STORAGE OF EMPTY CONTAINERS
- RETURNING CONTAINERS TO THE START OF THE SUPPLY CHAIN





HYDROGEN ARMADILLO



HERMES KOMODO-PROJECT PRENZLAUER BERG BERLIN









CARGOBIKEXL HET LOKAAL



- LOCAL FOOD & DAIRY PRODUCTS
- 5 M3, 500 KG
- WINNER INNOVATION CHALLENGE SMART & HEALTHY CITY 2015

TAKE THE CHALLENGE!











Dutch Bicycle Centre





JOS SLUIJSMANS Border Sessions Festival, MakeCityLab, 13 June, 2018