



# **Cargo bikes in logistics in Germany**

# LOW CARBON LOGISTICS

Clemens Weiss Competence Centre for Rural Mobility Wismar

Legal situation in Germany





European Regional Development Fund

# Equated to the bicycle if:

- High ≤ 2,50 m
- Length ≤ 4 m
- Width
  - − One-track  $\leq$  1 m
  - Multi-track  $\leq 2 2,55$  m (judicial loophole)
- For eCargo-bikes electrical pedal assistent is allowed
  - Electrical drive unit up to 25 km/h with handy starting aid 6 km/h
  - 250 watt
- Cargo bikes in logistics can use loading zones in the city

# Legal situation in Germany





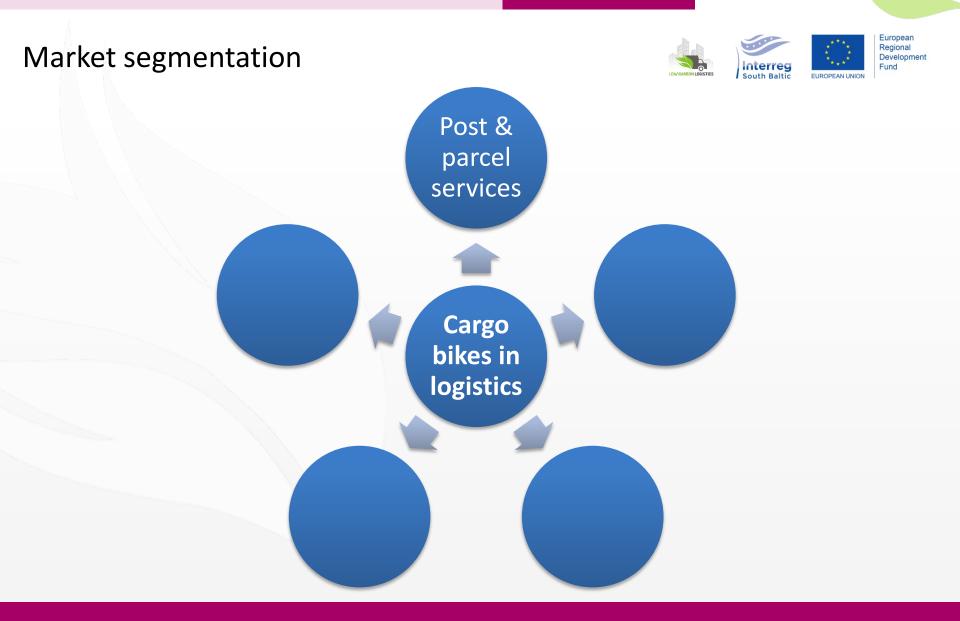
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# Differentiation *heavy cargo bikes*

- Volume >  $1 \text{ m}^3$
- Load > 150 kg
- But they are also equated to bicycles if they are not too big



German start-up rytle (Source: www.blue-rocket.de)



## Post and parcel services





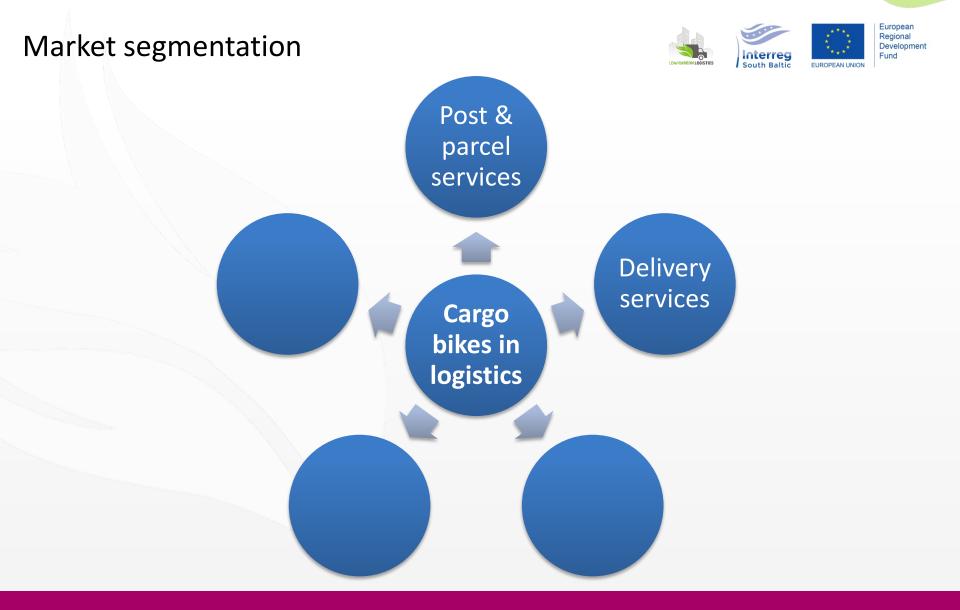


Type of businesses	<ul><li>Big companies like DHL or UPS</li><li>Small couriers</li></ul>
Goods	<ul><li>Letters</li><li>Parcels (&lt; 31,5 kg)</li></ul>
Type of bikes	<ul> <li>Cargo bikes</li> <li>eCargo bikes</li> <li>Heavy cargo bikes</li> </ul>





Figures: www.nwzonline.de; www.elektrobike-online,com



# **Delivery services**



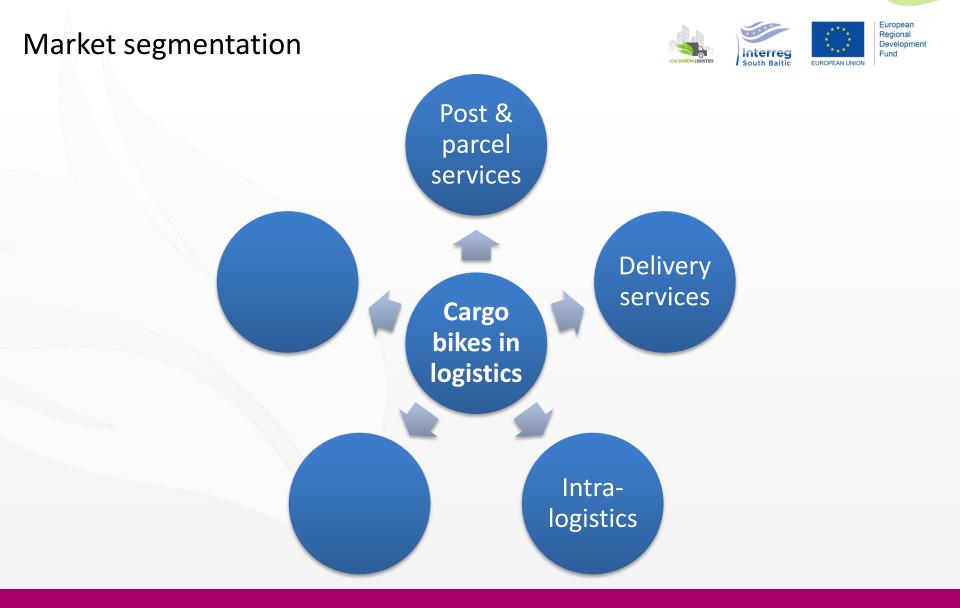


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Type of businesses	<ul><li>Retail and catering</li><li>Delivery start-ups</li></ul>
Goods	<ul><li>Food</li><li>Non-Food articles</li></ul>
Type of bikes	<ul><li>Cargo bikes</li><li>eCargo bikes</li></ul>



### LOW CARBON LOGISTICS

# Intralogistics

Type of businesses	<ul><li>Big companies</li><li>Businesses with big areas</li><li>Public administrations</li></ul>
Goods	<ul><li>Letters and parcels</li><li>Materials required for work</li><li>Waste disposal</li></ul>
Type of bikes	<ul> <li>Cargo bikes</li> <li>eCargo bikes</li> <li>(Heavy cargo bikes)</li> </ul>

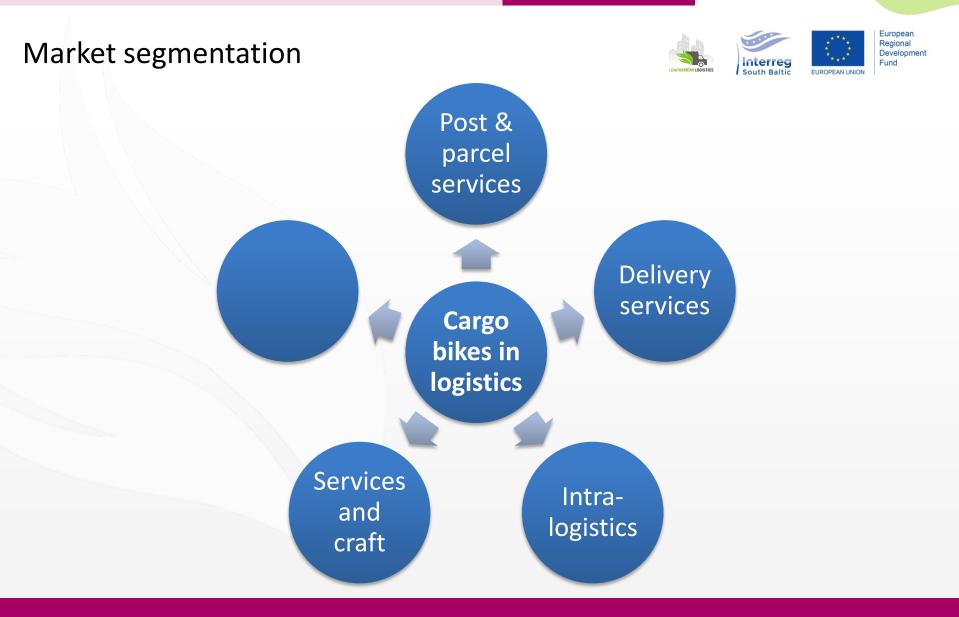








Figures: www.badische-zeitung.de; www.lastenrad.vcd.org



# Services and crafts



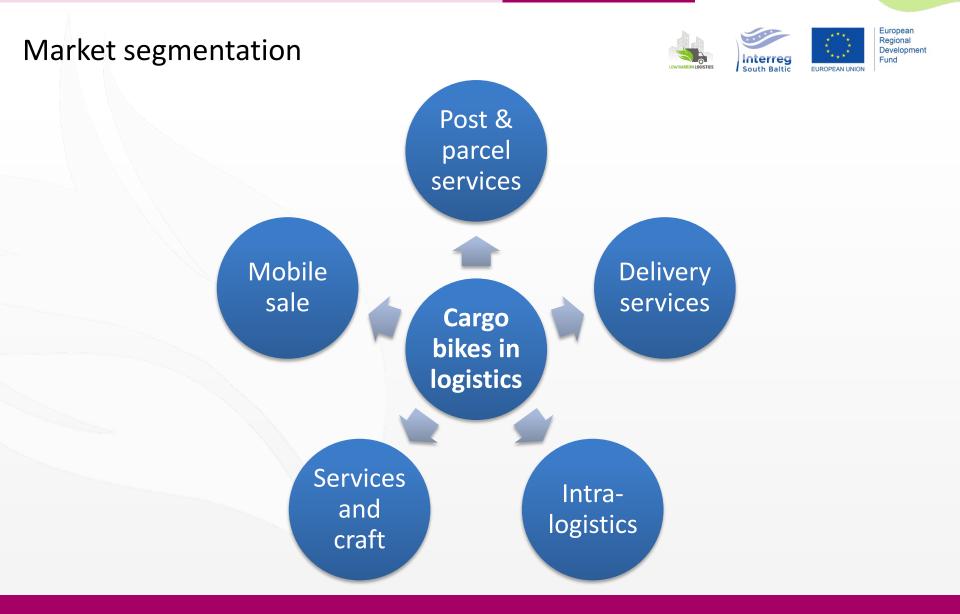




Type of businesses	<ul><li>Small businesses</li><li>Craft</li><li>Facility management services</li></ul>
Goods	Materials required for work
Type of bikes	<ul> <li>Cargo bikes</li> <li>eCargo bikes</li> <li>(Heavy cargo bikes)</li> </ul>



Figures:; <u>www.lastenrad.vcd.org</u>



## LOW CARBON LOGISTICS

# Mobile sales

Type of businesses	<ul><li>Small businesses</li><li>Franchise</li></ul>
Goods	• Food
Type of bikes	<ul> <li>Special cargo bikes</li> </ul>











Figures: www.coffee-bike.com ; www.lastenrad.vcd.org

## Low Carbon Logistics – Bad Doberan





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# Low Carbon Logistics – Bad Doberan

- Micro depot and Cargo Bike in a small town
- Container (10 ft shipping container) located on a city-owned parking area
- Special authorization for driving in the pedestrian area with the Cargo Bike
- The micro depot serves on the one hand as a shelter for the Cargo Bike and the other for the transshipment
- Parcels are transported from the central depot to micro depot
- The position of the cargo cyclist is held by a local resident

#### TER LOGISTICS FOR BETTER CITIES FOR BETTER FUTURE









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### LOW CARBON LOGISTICS

# Evolo Z2





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Dimensions	<ul> <li>Length=3,30m</li> <li>High=2,00m</li> <li>Width=1,05</li> </ul>
Load	<ul> <li>2 m<sup>3</sup></li> <li>More than 250 kg load</li> </ul>
Battery	<ul><li>Greenpack</li><li>4h running</li></ul>
Specials	Euro pallet capacity



# Low Carbon Logistics – Bad Doberan

- Operated by the municipal building yard
- Waste disposal of public dustbins and parks
- New chance for employees without driving license
- 3 month test



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#### BETTER LOGISTICS FOR BETTER CITIES FOR BETTER FUTURE

LOW CARBON LOGISTICS

# Veleon Clean City





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Dimensions	<ul><li>Length=1,99m</li><li>Width=0,76m</li></ul>
Load	<ul> <li>0,2 m<sup>3</sup></li> <li>70 kg</li> </ul>
Battery	Heinzmann
Specials	Mobile dustbin



# Experiences



- At first, companies react very cautiously to the use of cargo bikes
- Financial incentives or public funding are often needed
- Good-practice is very important
- (heavy) Cargo bikes are not that professional yet
- Satisfied drivers
- Excellent marketing







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