Urban logistics in Almada: The path towards eco-efficiency

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Almada
Lisbon Metropolitan Area
Area 72 km²
180 000 inhabitants
35 km long waterfront
32% 22% 20% 20% 6%

CO₂

420,000 tCO₂
Mobility System in Almada 2012

What is missing?
Urban Logistics was a key element missing in local mobility policies.
Mobility System in Almada 2017
- **Logistics** are an **important component of the urban mobility system**:
  - Diversity of actors/stakeholders
  - Organized and developed (mostly) by private entities, but regulated by public entities (Local Governments)
  - Different types, needs and models of operation
  - Changing shopping habits in our global economy: e-commerce
  - Has important impacts in the quality of life and working conditions in our cities
  - Represent **10 to 15%** of the product cost and weight for 13.8% EU GDP
Almada’s approach:

- Optimize logistic operations to enhance the attractiveness of the city (public space taken, local economy)
- Reduce traffic congestion, environmental impacts and energy consumption/GHG emissions from the daily logistic operations.
- Improve quality of life
- 2nd generation **Urban Mobility Plan of Almada, PUMA** (domains of intervention)
  - PT network and services
  - Soft Transport Modes (integration with Almada’s Cycling Plan)
  - Circulation and parking manage
  - **Urban Logistics: SULP** (Sustainable Urban Logistics Plan)
    - EU project ENCLOSE
    - EU project DOROTHY

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1. Problem Statement (vision and objectives)
2. Local context
3. Local logistics context
4. Setting the logistics baseline
5. Smart logistic solutions
6. Feasibility of chosen services and measures
7. Hierarchy of services and measures

- Almada’s SULP (Sustainable Urban Logistics Plan):
Critical Area: Almada’s City Centre
Critical Area divided in 3 parts
Logistics baseline:

- 2300 shops in the City Center
- 1550 logistic trips/day
- 60 ton/day of delivered freight
- “Self running” system

Energy and environmental impacts:

- Energy consumption: 361 toe/year (~15 x 10^3 GJ/year)
- GHG emissions: 1288 tCO_2eq/year
- **Almada’s SULP logistic solutions and measures**
  - Extension of new parking rules/regulations for commercial vehicles to all the city
  - Pick-up point utilizing existing facilities and final destination for E-Commerce goods
  - Tram for goods distribution in the city centre
  - Reorganization of Almada’s Central Market area, including a “Micro Consolidation Centre”
  - UCC, Urban Consolidation Centre
  - Cargo Bikes (Organic cooperative + VeloCidade)
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### Almada’s SULP in practice: Cargo Bikes

#### Bicycles are:
- Energy-Efficient
- Low CO₂ Emissions
- Sustainable
- Healthy / Life Quality
- Low Noise
- Time-Efficient
- Space-Efficient
- Low Cost
- Fun
- Environmentally friendly

#### Cargo Bikes
- Flexible / Agile
- Historical Centres-friendly
- Last-Mile Oriented
- Good Load Capacity

#### Electric Bikes allow
- Heavier Loads
- Not only flat cities
- Faster Speeds
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Cargo Bikes: a win-win solution!
Almada’s SULP in practice: Cargo Bikes

2 pilot experiences of goods delivery by bike

- Christmas Eco-Friendly Market
- Running since 2015
- Free deliveries for shopping > 25 €
- Very good public and businesses acceptance
- Costs under evaluation (financed by the Municipality)
- Partnership with a start-up cargo bike local company (Velocidade)
- Almada’s SULP in practice: Cargo Bikes

2 pilot experiences of goods delivery by bike

- Partnership between a local organic agriculture cooperative (Pé de Salsa) and the start-up cargo bike local company (Velocidade)
- Running since 2016
▪ **Almada’s SULP in practice: Cargo Bikes**

DOROTHY - CARGO BIKES
As suas encomendas de bicicleta. Fácil, rápido e ecológico.

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RESERVAR

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Precisa entregar uma prenda de última hora? Esqueceu-se de entregar um documento importante no último minuto? Nós podemos ajudar!

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Thank you for your attention

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