



LOW CARBON

LOGISTICS



**CONSULTANCY OFFERS FOR
LOW CARBON LOGISTICS SOLUTIONS**

www.lcl-project.eu

LOW CARBON LOGISTICS

PROJECT INFORMATION

By implementing low carbon logistics solutions in small and medium-sized cities in the South Baltic region, the project aims to contribute to the efficiency and ecological sustainability of the transport sector as an important cause for GHG emissions.



IMPORTANCE OF LCL SOLUTIONS CONCERNING THE TRANSPORT SECTOR

To be independent of fossil fuels is one of the major challenges of our time and the transport sector is an essential segment that must be addressed. Measures to reduce greenhouse gas emissions are often concentrated on the transport of people, although goods transport services are growing rapidly, and the energy consumption of freight transports has not declined. According

to the European Commission, urban traffic should be CO₂-neutral throughout Europe by 2050. In addition to GHG emissions, however, other traffic-related aspects must be considered: e.g. noise, vibration, particulate matter emissions, unrestricted flow of traffic, road safety and attractiveness in tourist areas. The goal must therefore be to make freight transport more efficient.

CONSULTANCY

INTERNATIONAL CONSULTANCY TEAM

The consultancy team consists of the LCL expert group members and is established to offer **individually tailored consultation** for low carbon logistics initiatives from the South Baltic region. Experiences and lessons learned from implementing the project's pilot measures are integrated in the consultancy offers to help **municipalities** and **business entities** from other regions to optimize their city, town or regional freight logi-

stics towards a significant reduction of carbon emissions. Since this undertaking is dependent upon different stakeholders who are willing to implement LCL solutions, the consultancy team also presents specific arguments which help to convince stakeholders to join the project. These arguments are mainly drawn from the project's developed business models.

CONSULTANCY OFFERS

Consultancy offers that will be applied throughout the overall project implementation include regular client meetings in person, via Skype or phone. Furthermore, the engagement in ongoing discourses with stakeholders will be ensured by established communication structures.

business entity. A checklist serves as an independently applicable guide, ensuring that none of the steps is skipped. The consultancy team also offers several templates and questionnaires for the client to use.



The consultancy team will guide its clients step by step through the process of establishing LCL solutions. The offered activities are structured in ten different steps which ensure an alignment to the specific needs of each municipality or bu-

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TEN-STEP PROGRAM

FOR THE IMPLEMENTATION OF LOW CARBON LOGISTIC SOLUTIONS

1

DEFINITION OF SCOPE AND REGIONAL CHARACTERISTICS

Topography, climatic conditions, area size, type and protection status (e.g. nature reserves) and their corresponding impact on transport infrastructure.

2

EVALUATION: EXISTING INFRASTRUCTURE AND INTERCONNECTEDNESS

Transport infrastructure: roads, cycling paths, access roads, bridges.

Logistics infrastructure: logistic centers, distribution centers, warehouses, goods and cargo consolidation/deconsolidation terminals, number of service points.

3

DETERMINATION OF TRANSPORT TYPES AND FLOWS

Passenger, freight, special, service, supply, waste disposal transport, etc.

Business Entities

4a

STAKEHOLDER ANALYSIS

Inventory of business structures which operate in a region and use an existing transport and logistics infrastructure – production, commercial and service activities; supply and distribution flows.

Municipalities

4b

STAKEHOLDER ANALYSIS

Hospitals and sanitary establishments, nurseries, preschools, schools, retirement homes, specialized education and care institutions, public transport.

5a

CONSUMER BEHAVIOR AND SUPPLY MODES

E-commerce, consumption intensity type of goods and services as well as the nature of their supply.

5b

SUPPLY MODES OF GOODS AND SERVICES FOR PUBLIC ENTITIES

Consumption intensity, type of goods and services as well as the nature of their supply.

6

LOW CARBON LOGISTICS SYSTEM DEVELOPMENT

Development of new supply and distribution schemes, optimization of itineraries and selection of appropriate green vehicles.

7

LOW CARBON LOGISTICS SYSTEM IMPLEMENTATION

Implementation of new supply and distribution schemes with optimized itineraries and appropriate green vehicles.

8

MONITORING

of the implemented measures with the help of defined criteria.

9

EVALUATION

of the monitoring results

10

ADAPTATION

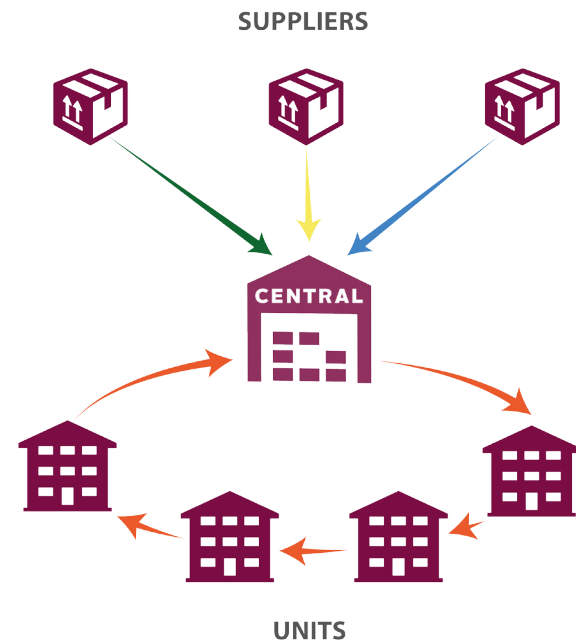
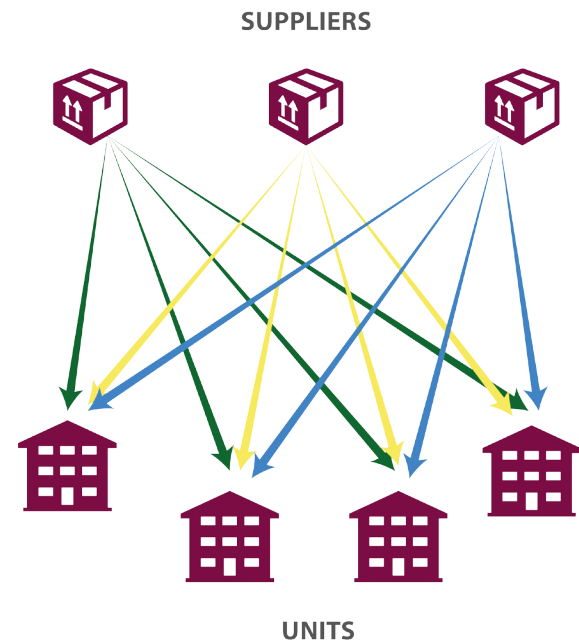
of the applied measures to improve low carbon logistics solutions.

BEST PRACTICE EXAMPLES

CONSOLIDATION CENTERS

The pilot cities Olofström in Sweden, Neringa in Lithuania and Stargard in Poland are aiming for consolidation centers. In the long term, these should not only serve as a collection point for trucks, but at the same time achieve a high degree of efficiency by directly separating certain product groups, picking goods in the order of

delivery at the pallet level, and using standard labeling. An IT system shall help with transshipment, route planning and billing. The type of distribution from the consolidation center into the city is also of great relevance and can be achieved by cargo bikes as well as electric transporters depending on the types of goods.



MICRO-DEPOT AND CARGO BIKE CONCEPT

The city of Bad Doberan in Germany started a cooperation with delivery services UPS, DPD and pakadoo, which will include a micro-depot and cargo bike concept, a handcart concept and a model for delivering parcels to the workplace. These measures are intended to reduce motorized delivery traffic in the city center, which will result in correspondingly lower emissions and increased city center attractiveness.



IMPRINT

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