

Pre-study:
REDIG

Regional logistics hubs in Gothenburg

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Background / challenges



1. The Gothenburg Event area is under continuous growth, which leads to increased traffic flows in the area
2. The Gothenburg Green City Zone goal to be a zero-emission zone by 2030 requires optimization of the logistics flows and solutions
3. Approximately 17% of the road traffic in the zone today consists of goods transports such as delivery vans, light trucks, but also to some extent more heavy transports

Prestudy scope



1. Mapping and analysis of the current logistics flows in the Gothenburg Event area
2. Concept development for collaborative fossil free logistics solutions in the Gothenburg Event area
3. Preparation for a pilot project

The funding for the project was 500.000 SEK and the duration of the project was 5 months.

Results

Opportunities: Efficient logistics solutions in place per project actor

- Generally good control over, and governance for, large deliveries
 - Both regular and event-related deliveries
- Own warehouses used as logistics hubs for own operations
 - Parcel pick-up points
 - Cross-docking / consolidation
- Off-peak deliveries

Challenges: Intensified traffic and lack of logistics space

- Current logistics flows are fragmented and dependent on fossil fuels
- Limited space for loading / unloading
- Lack of storage space at project actor premises

Outlook 2030+ / Modelling results

Projections based on based on current logistics' concepts and decided city growth projects

Logistics situation in the Event Area

- Large projected growth of parcel flows: **+40%**
- Increase of societal costs: **+30%**
 - Congestion and accidents account for approx. 60% of total societal costs

Forecast for project actors' goods flows in 2030

- Goods volumes increase by **50 – 80%**
- Project actors' goods flows account for **10 - 15%** of total flows to Event area

NOTE: Results are indicative!
• Limited access to case-specific data
• Calculations based on secondary data from literature and data from other cases

Different actors, common challenges



- Densification makes logistics increasingly challenging
- Shrinking logistics space
- Larger goods flows
- More conflicting interests in mixed traffic; commuting to workplaces, residents living in the area, event visitors, goods transports...
- Ambitious policy goals (100% emission-free transport by 2030, Gothenburg Green City Zone)
- **Electrification of today's logistics solutions necessary but not sufficient – consolidation of logistics flows to the event area is needed**

Learnings: Common hub for the Event Area



Consolidation hub and last-mile deliveries for project actors' small and fragmented flows (parcels)

- Reduces **delivery activity** at project actors' loading zones

Separate logistics' space for warehousing services and value-adding activities

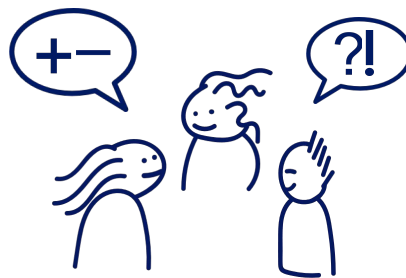
- Frees up space for more **value-creating activities** at project actors' premises

Open system for other actors in Event Area

- Reduces overall **delivery traffic** creating a safe and attractive city area

The aim is to apply for a demonstration project, targeting a pilot end of 2024.

Projektpartners



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WORLD OF VOLVO



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Liseberg



CLOSER

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Project documentation:

- Participants: PL Anna Eriksson, Sönke von Wieding, Sara Gestrelus, Magnus Lyrberg & Sara Ranäng (RISE), Vanja Carlén & Marcus Hansson (CLOSER)
- Project homepage: <https://www.ri.se/sv/vad-vi-gor/projekt/redig>
- Movie about project: <https://closer.lindholmen.se/projekt/redig>