

TEACHING MATERIAL GUIDANCE

1. Title of the material

London Construction Logistics Consolidation Centre Final Report

https://www.ndslogistik.se/files/reports/1425975813_9.pdf

2. Which section of the SUMP it is relevant to?

It is relevant to section 12.1 which refers to analysis of successes and failures of actions implemented within SUMP.

3. Which Mobility Manager knowledge this material is the most relevant to?

The report is related to evaluation of transport measures as it provides both quantitative and qualitative assessment to the construction consolidation center established in London. Hence it is Mobility Manager 1e) as well as 4. It is a rare example of a comprehensive evaluation of such measure which increases its practical value.

4. Problem approached and content overview

The report summarises results of the two year demonstration project involving London Construction Consolidation Centre which was established to serve several construction sites in 2005. Although published in 2008, the report is not outdated due to rather slow adoption of innovative organizational models in construction logistics which renders most of the findings and concerns still actual.

The LCCC was established to supply construction materials to major construction sites on a just-in-time basis. Its main intention was to reduce the number of deliveries dispatched directly to these sites hence reducing traffic volumes and emissions.

The report has a clear problem-oriented structure which includes following issues:

1. Objectives and operational aspects.
2. Financial aspects of LCCC organization.
3. Summary of results, covering among others calculation of reduction of freight journeys and journey times, delivery reliability and assessment of environmental impact.
4. Value of CC for construction sector, including expected benefits, key issues to be addressed and summary of key findings.

The report revealed some important insights into LCCC operational characteristics:

- estimated 60%-70% reduction in number of vehicles delivering to the four sites serviced,
- majority of deliveries were by rigid trucks, which enabled elimination of large articulated trucks from the streets,
- when compared to direct deliveries, journey times of LCCC trucks were on average two hours shorter,



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- deliveries from LCCC achieved 97% reliability factor (delivered within 15% on scheduled time) while standard value without consolidation is only 39%,
- up to 80% reduction of CO₂ emission compared to direct deliveries.

5. Who could be interested in this material?

The report is addressed to those searching for more detailed and quantitative information on construction logistics. It would be helpful to understand factors influencing involvement of different stakeholders in such activities as well as their limitations.

6. What is worth mentioning as an innovative factor for the reader?

- detailed introduction to all issues of construction consolidation center; it is one of the most comprehensive reports materials available,
- availability of quantitative information of CC activities,
- reliable identification of barriers and drivers related to LCCC.

7. Limitations

No major limitations were identified. However, similar to other sources of this type, the result cannot be directly compared with other cities due to significant influence of local factors determining performance of the LCCC.

