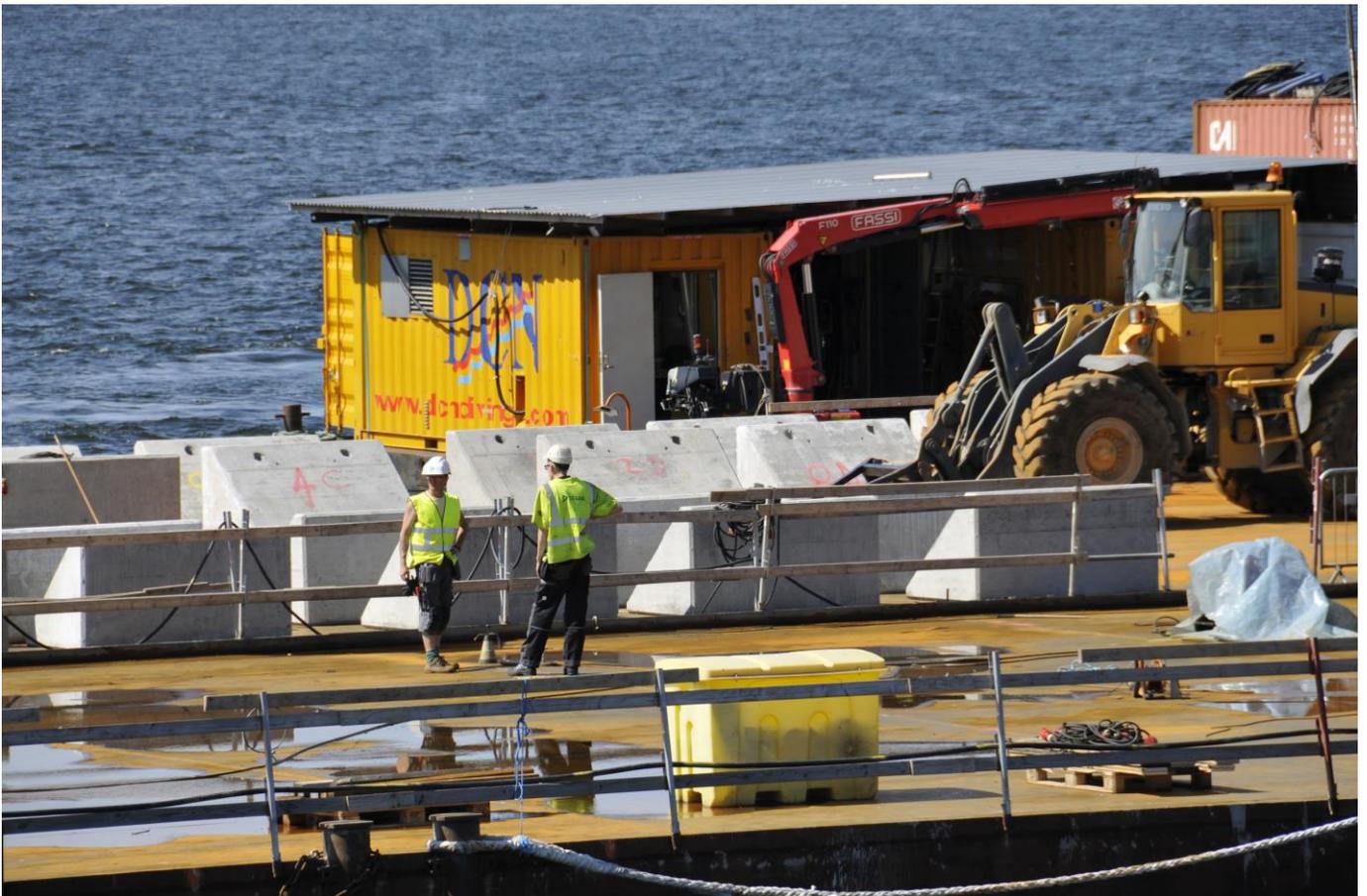


# Consolidating municipal freight and excavated materials in Stockholm

Summer 2019



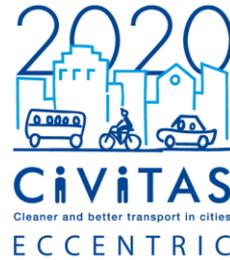
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- Using barges instead of trucks to transport construction waste
- Reducing delivery of goods by consolidation
- Less congested and polluted city

*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 690699.*

**Location:** Stockholm, Sweden

**Organisations involved:** [City of Stockholm](https://www.stockholm.se)



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## What is the solution?

This measure aims at reducing goods deliveries (number of vehicles and transport distances) and hence at reducing emissions and creating a more accessible and less congested city. It comprises two key actions. The first one is a pre-study to outline the potential to consolidate goods purchased by the city of Stockholm, which aims to increase knowledge about the steps required to implement consolidation of deliveries for municipal goods. The second action is to consolidate heavy mass from excavation projects using barges instead of trucks.

Transportation of heavy masses from the excavation on urban construction sites accounts for a large part of heavy vehicle road traffic in Stockholm and is likely to increase in the near future, as the city metro and sewer systems will be expanded. For this reason, the city of Stockholm is keen to test and evaluate the potential benefits of using barges on inland waterways and at sea to remove heavy mass from inner-city construction sites.

## How does it work?

For the first action of this measure, a pre-study outlining the potential to consolidate goods purchased by the city of Stockholm was carried out. The pre-study outlines a variety of options and makes suggestions about the types of activities, product groups and steps required to realise consolidation. It serves as a basis for political decisions about the future consolidation of municipal goods in Stockholm, but its findings are relevant to other cities and a translated version of the report is available.

The second action tests and demonstrates the collection of heavy mass from an excavation in tunnelling and other construction sites using barges. The demonstration will result in an evaluation of noise impacts from loading uncrushed material to a barge in central Stockholm, as well as a cost-benefit analysis comparing transport by barge to transport by truck and the mapping of potential barge loading areas in the Stockholm region. These findings will inform the decision on whether this action can be upscaled and used for other construction sites as well.

## Expected results

The pre-study contains detailed analysis and proposals concerning the consolidation of municipal goods, which decision-makers and other stakeholders can use to inform future policy and business decisions.

Positive results from the barge test will enable to rapidly scale-up the use of consolidation barges, and thereby improve safety and environmental performance of heavy mass transport in the city.

## Business model

This measure receives €157,000 of funding from CIVITAS ECCENTRIC.

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