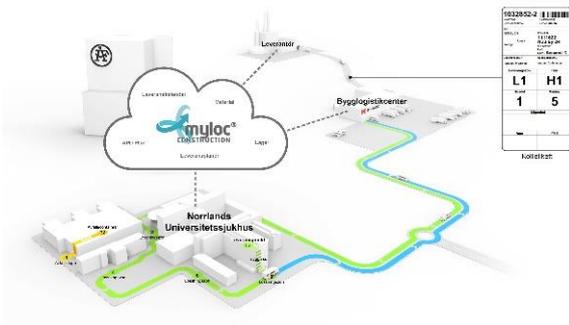




## CONSTRUCTION LOGISTICS



### Content of the Offering:

**Challenges:** The trade is facing high building costs, low productivity and a high carbon footprint.

**Approach:** Using a generic construction logistic model to analyse, design, implement, and operate a logistics solution for construction projects.

**Outcome:** Lowered building costs by 10-15%, better use of resources, increased safety, reduced waste and fewer transports.

### Challenge for the industry today

The construction trade in Sweden is facing big challenges, especially construction cost. Sweden has the highest construction costs for residential real estate within the European Union. Construction sites lack productivity and the transparency in the supply chain is low due to a low degree of digitalization. The construction process causes many transports which generate high amounts of exhaust, compromising sustainability goals. The material flow also bears safety risks.

There is a need to implement new workflows and processes in the trade.

This change management is our big challenge.

### Service and Approach

AFRY has developed a construction logistics model based on 4 components:

1. A logistics analysis which includes existing and planned material flows, bottlenecks and logistics requirements to the surroundings.
2. Design of logistics solutions including support in choice of collaboration partners.
3. Implementation of logistics solution and change management.
4. Development and adaptation of logistics solutions during production stage.

### Expected Outcome

The result of AFRY's construction logistics model are lowered construction costs by 10-15% through increased productivity for construction workers. Also the use of machines, tools and indirect material is improving. Increased efficiency and the resulting productivity is leading to shorter construction times.

The construction logistics model implements a digitally traceable material flow with increased safety on the construction site. The risk for material rejects and waste is lower which aids economics and sustainability. The construction project becomes more sustainable due to reduced transports to the site by roughly 50%.

For more information contact  
scm@afry.com