

## Søren Frost

Transport Modelling Expert

**COWI**



## Bio

Mr. Søren Frost is a Transport Modelling Expert, who has worked for COWI for more than 20 years. Søren's work covers development of transport models, ranging from large National multimodal traffic models to Urban traffic models and simulations models for private transport, public transport, freight transport, pedestrians, and bicycles. In addition, Søren Frost is covering general transport planning, transport master plans, traffic analyses, capacity analysis and planning of airports and ports.

In the last years, Søren has been part of several projects towards how the new technologies impact on will future transport sector could be, like micromobility, autonomous vehicles and Mobility-as-a-Service. The projects have covered research and analysis of the expected impact and consequences of new technology, new transport solutions, mobility, and autonomous vehicles.

## Presentation

### Microscopic pedestrian modelling for public transport station improvements

This presentation will primarily cover the development of an integrated multi-modal model using PTV Vissim/Viswalk to support a mix-used development located in close proximity to an underground train station.

In the last 2 years, COWI has done several pedestrian simulations in VISWALK at train station terminals. The pedestrian simulation has been carried out to deliver input and changes to the layout of all parts of the terminals and ensure the pedestrian flow for the future design of both existing and future train stations and terminals. The presentation will include examples like:

- 2 train stations in Copenhagen Airport, one existing and one new station, which will also include parts of the airport and a metro station.
- An extension of one of the largest train stations in Copenhagen, which both includes local trains, intercity trains, metro lines and bus terminal.
- Redesign of the train station in Hillerød.

