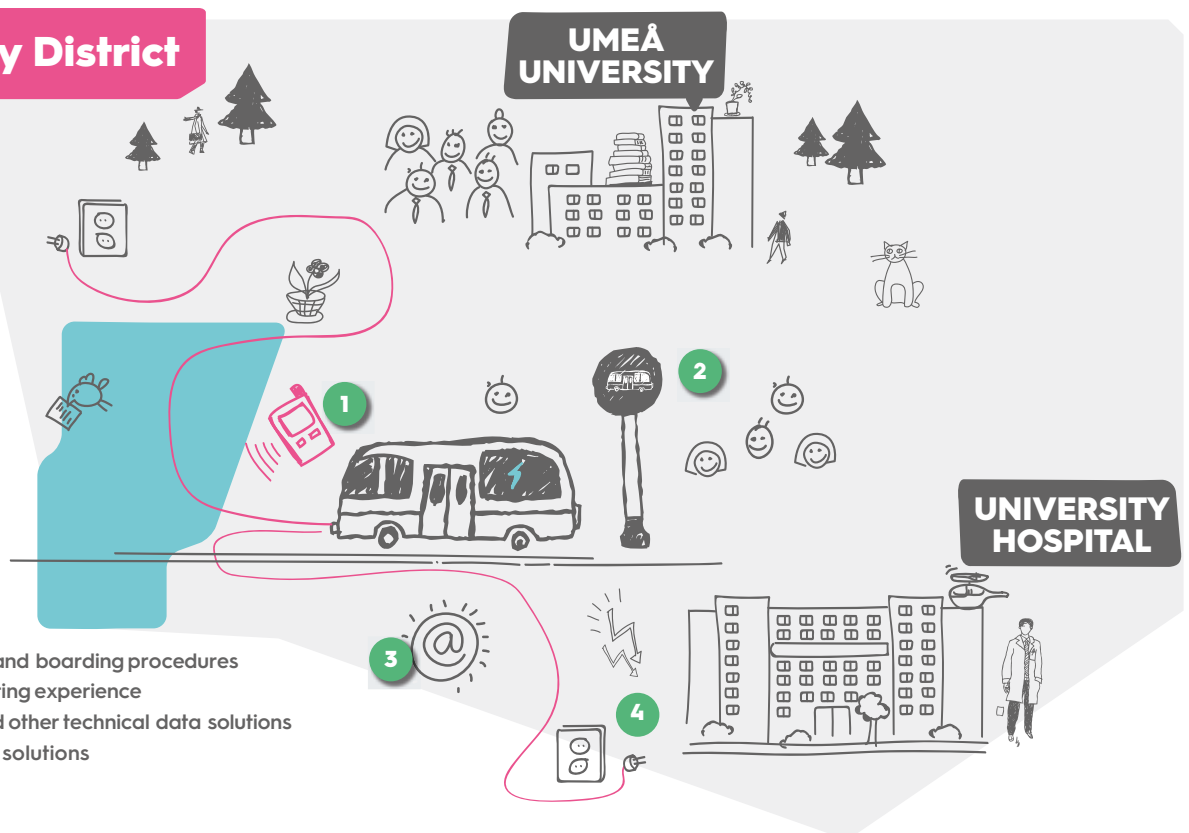


Climate-friendly bus stop (BRT)

Umeå

Smart electricity grid & e-mobility

University District



Umeå municipality is building a climate-friendly bus stop, a so-called Bus Rapid Transit (BRT) Stop. This bus stop is meant to act as an innovative symbol for the smart University District. The BRT Stop will be designed as a part of a smart city where technology, people and the environment interact with each other to reduce the city's environmental impact and its carbon dioxide emissions.

Main partners involved:



UMEÅ
KOMMUN



FACTSHEET U5

Climate-friendly bus stop (BRT)

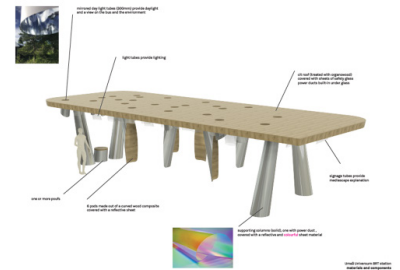


How does it work?

The objective of this solution is the reduction of carbon dioxide emissions as well as providing better services to public transport users to increase the use of public transport.

Together with an interaction designer we have developed an innovative bus stop. It will be equipped with smart lighting and sound to enable fast boarding to save energy for the electric buses. The design will also create a pleasant waiting environment, regardless of season. The design also includes free Wi-Fi and other technical data solutions. The outcome of this design rational is to generate a positive experience for the waiting passengers to enhance the use of public transport to reduce carbon dioxide emissions, as well as creating a balance between efficiency and functionality.

More information: www.umea.se/smarthallplats



Sketch of the bus stop design

Estimated impacts

Reduced CO2 emissions: the design of the bus stop will as a whole promote and increase the use of public transport and thereby contribute to the goal of reducing carbon dioxide emissions in the city.

Save energy for the electric buses: the design of the bus stop will specifically aim to shorten the boarding time and thus reduce energy loss from open doors in the electric buses.

Positive waiting experiences: the design will create a positive waiting environment for travellers.

Replication potential

The bus stop has been designed for easy replication in various weather, wind and climate conditions in Europe. It is fully adapted to mechanical snowploughing. It is also designed for all types of buses regardless of the positioning of doors and numbers of doors in the vehicle.

The bus stop can be placed and secured to the ground with different ground conditions.

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Find more factsheets on www.ruggedised.eu

