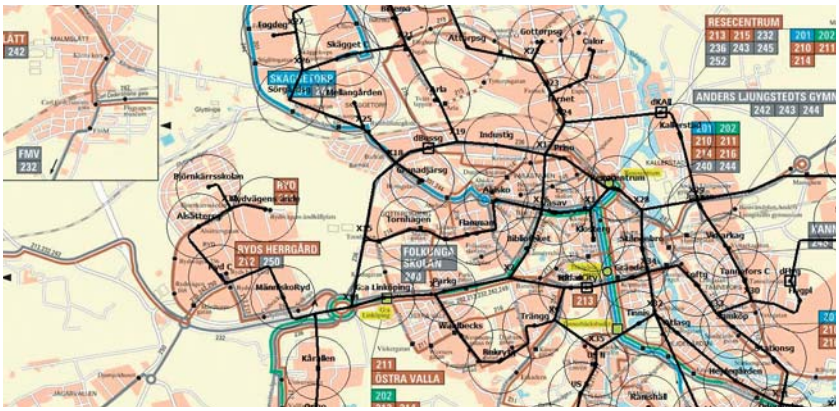
Attractive, sustainable and cost efficient transit systems

Beamways system in Linköping. Image: Hans Kylberg

Beamways is the logical choice for new transit systems in the 21:st century. Its outstanding capacity handles the large ridership attracted by the high speed and comfortable travel experience.

Beamways is very energy efficient and runs on electricity directly from the grid. This allows the system to be powered from green electricity without significant economic impact. The natural resource use for infrastructure is comparable to that of tram lines.

The reasonable investment and low cost operation allows transit agencies to build and operate systems for cities above 50 000 inhabitants with a profit (including amortization of captial).



Typical Beamways network. Drawing created with BeamEd 1.0

Key benefits

- Shortest travel times of all modes of local passenger travel including car.
- No change overs, no waiting, no time tables.
- Comfortable, private travel compartment.
- Lower investment cost than rail based systems.
- Low operating cost, no driver cost.
- Easier to accommodate in a city than trams.
- Significantly smaller sky-print than any other commercial PRT system.
- Lowest energy consumption of any motorized passenger travel mode.
- Compact layouts allow deployment in dense areas.
- ADA compliant (for handicap access).

Target Specifications

- Line speed: 50 km/h
- Suspended system with cars hanging under the guideway.
- Normally dual-direction lines.
- Active banking, pitching and suspension system.
- Minimum curve radius: 3 m
- Maximum grades: 40% (floor horizontal)
- On board switching. No moving parts in the guideway.
- Redundant propulsion and breaking systems.
- Headway: 1 s

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