

What can we learn from high-speed train impact assessments in Sweden?

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What can we learn from high-speed train impact assessments in Sweden?

Technical

Design
and
operation

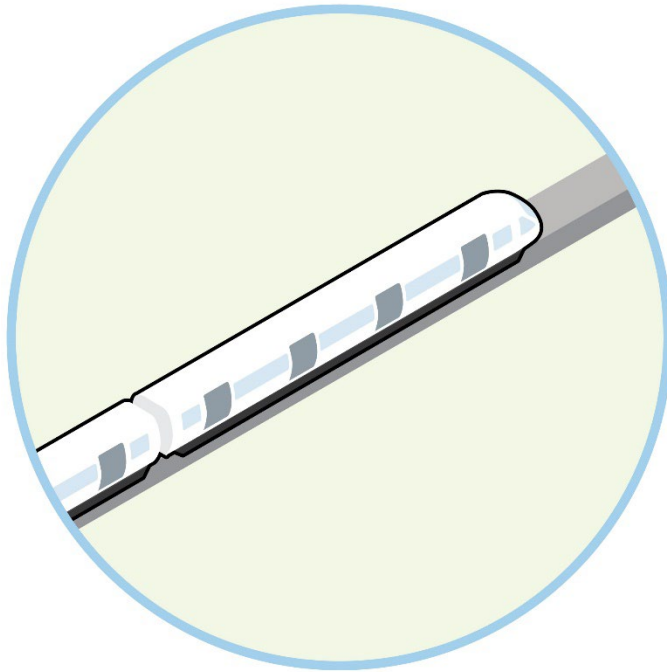
Environ-
mental
impacts

Economic
and
financial
viability

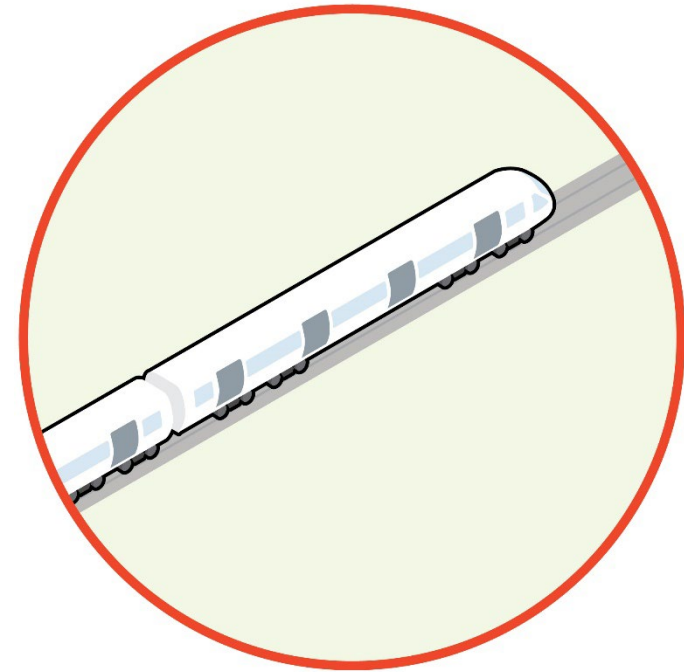
Sustain-
ability

Lessons
learnt

Which kind of system?

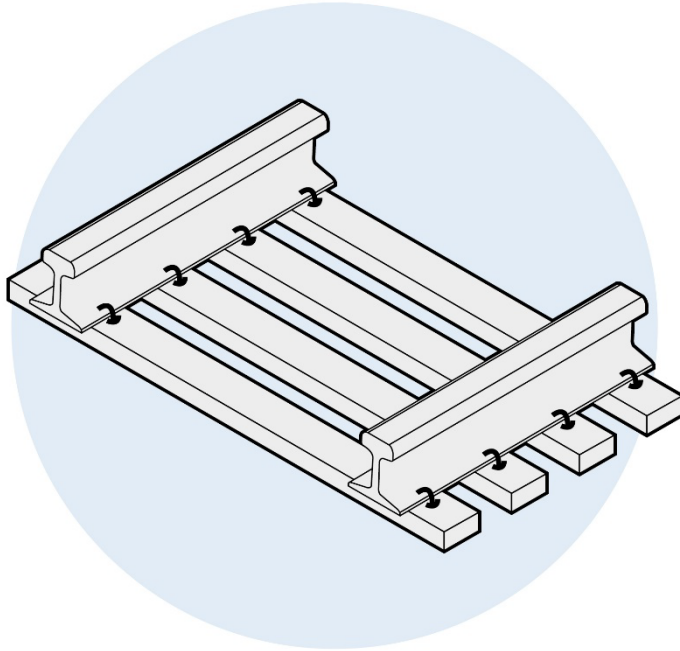


Dedicated system, e.g. Maglev?



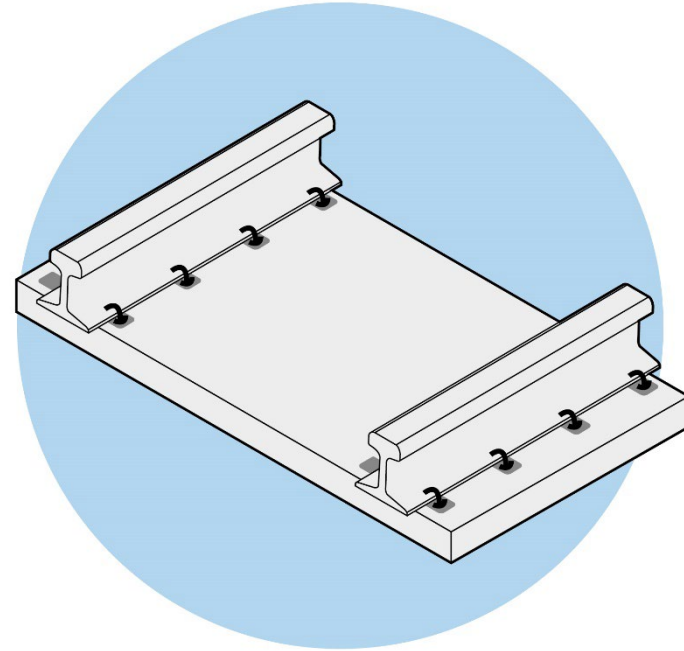
More conventional, integrated system

What kind of tracks?



Ballasted track

Lower construction costs
Higher maintenance costs



Slab-track

Higher construction costs
Lower maintenance costs

Station location



Stations in the city centre?



External stations?

Operation



Regional trains?

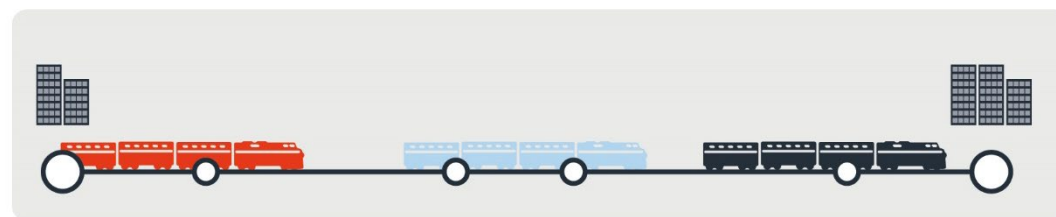


Long-distance services?

Number of operators?

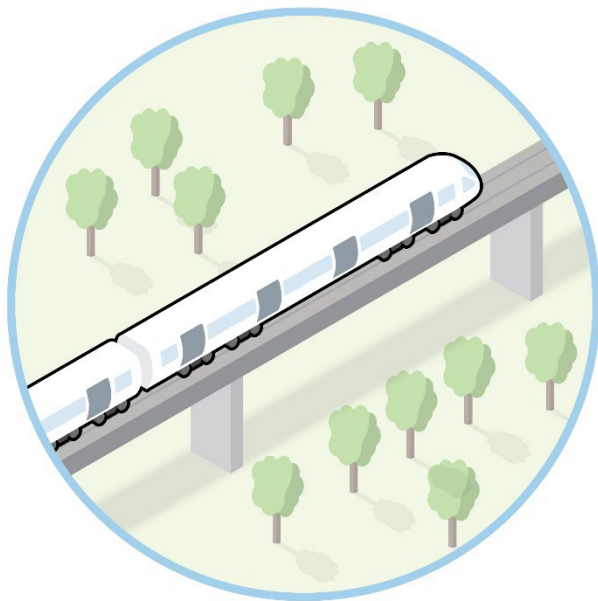


One?

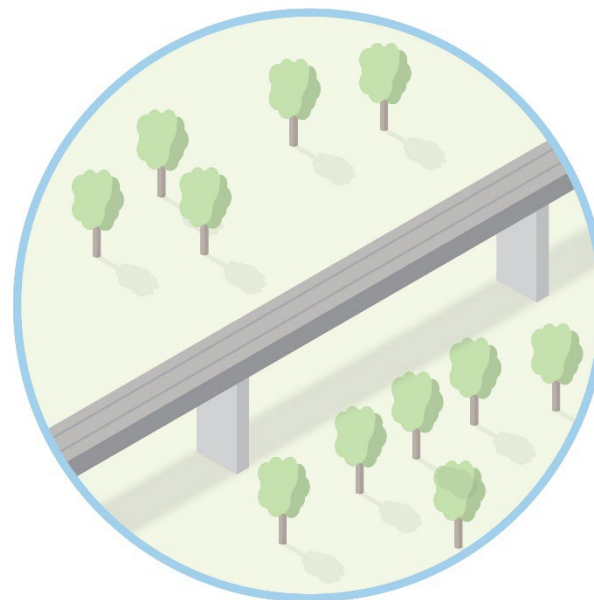


Several?

Environmental impacts

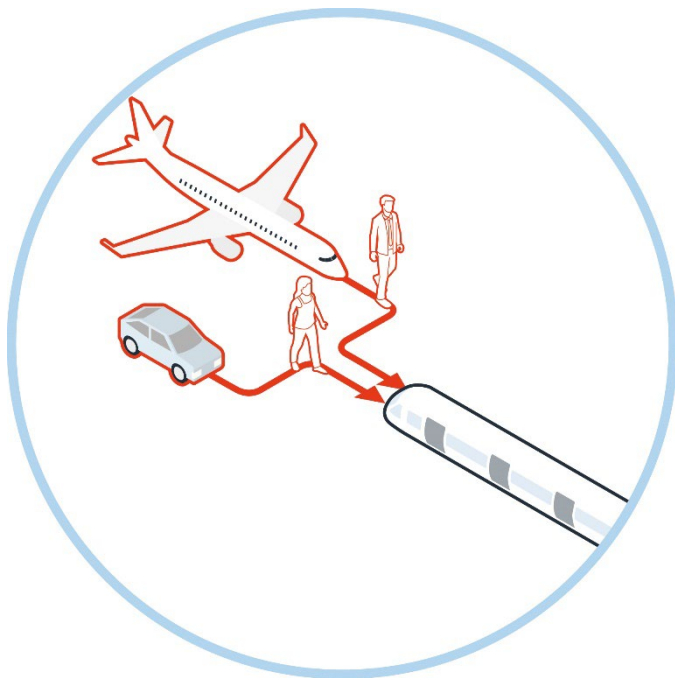


Impact on landscape

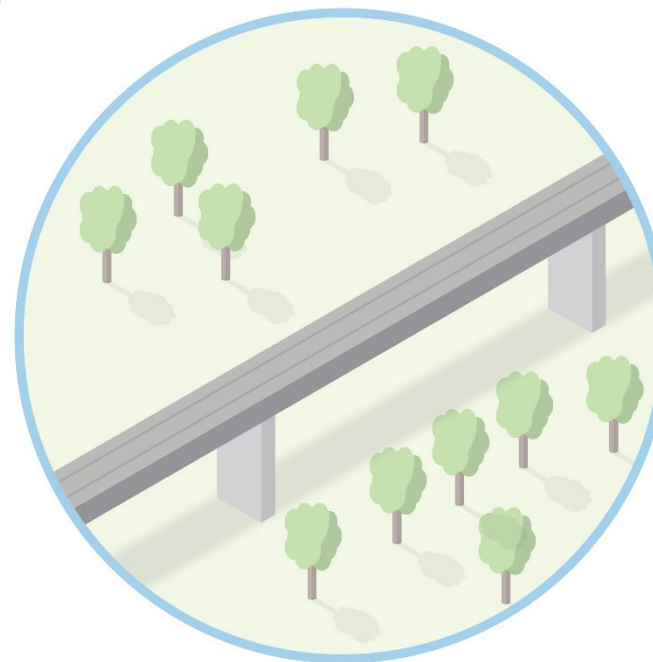


Emissions during construction

Emissions of carbon dioxide

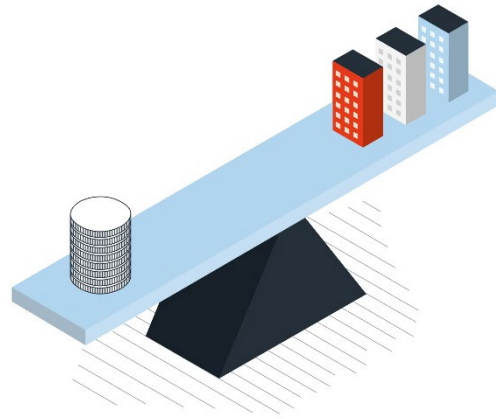


Change in travel behaviour...

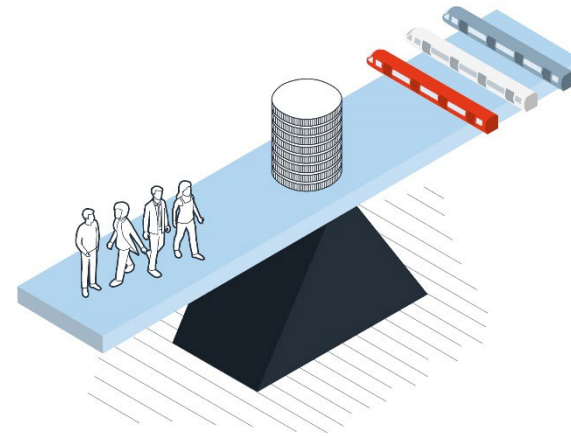


...emissions during construction

Economic and financial viability

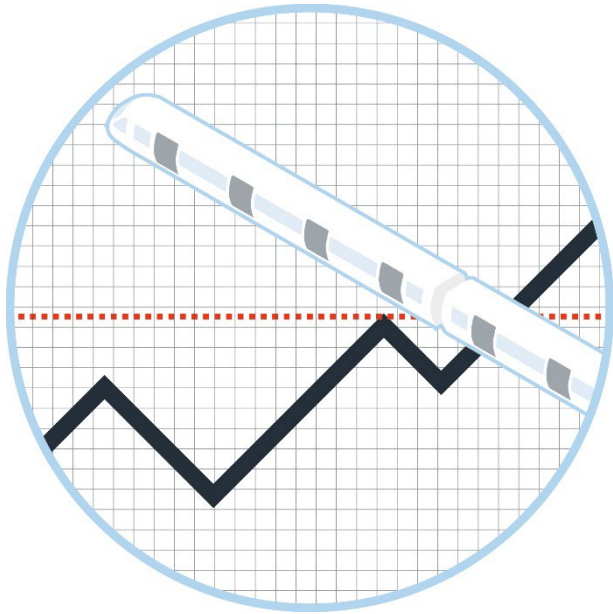


*Cost vs.
benefits to the society*

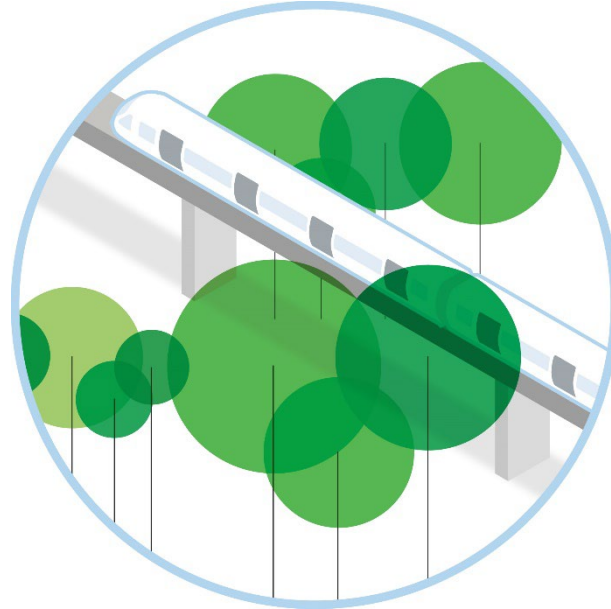


Surplus for operators or passengers?

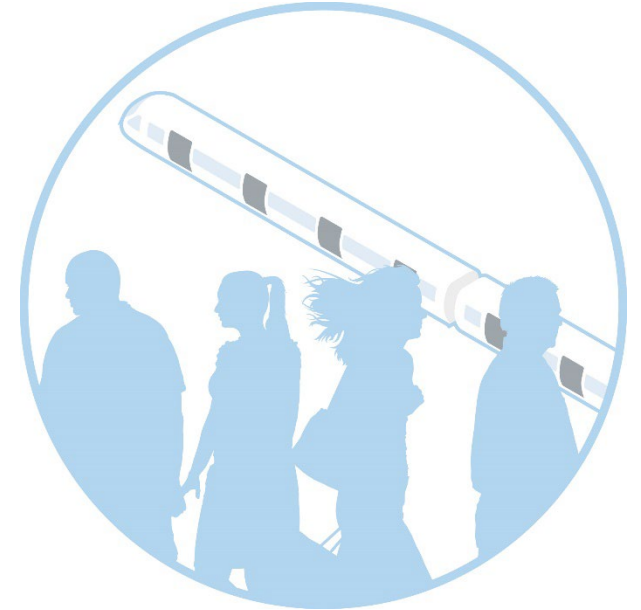
Sustainability



Economy

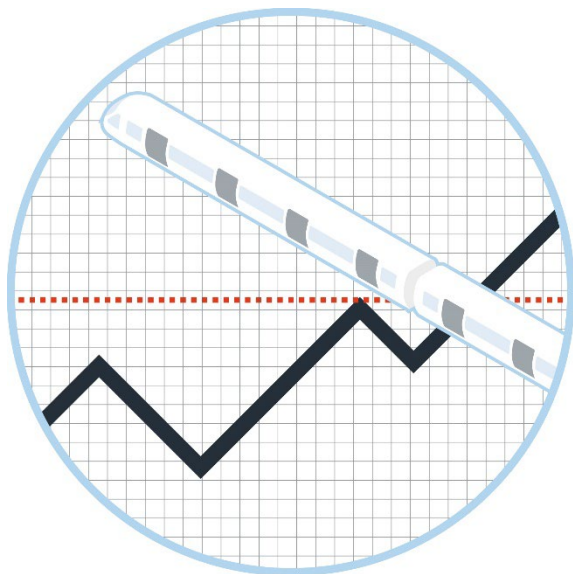


Environment

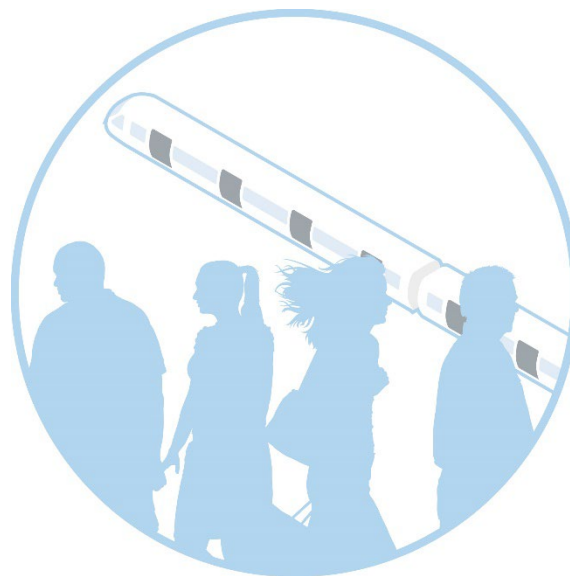


Social

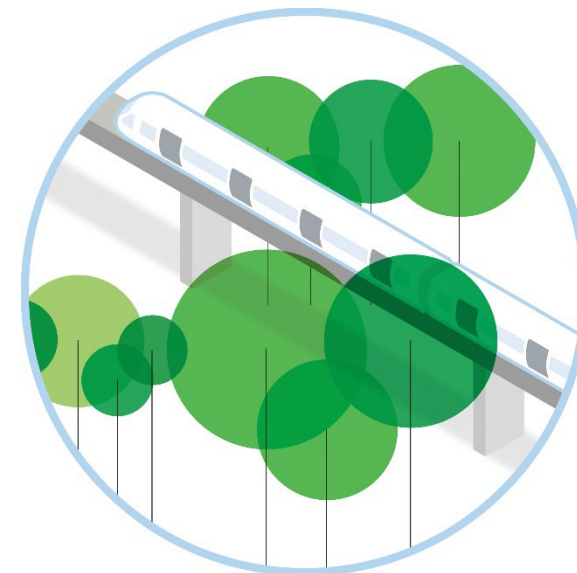
Lessons learnt



Minimize costs!



Maximise time savings!



***Minimize negative
external effects!***



Thank you!



– wsp.com