

Conference  
**Pathfinding through  
Climate Change**



## **Potential for public transport**

(Rail-based public transport and quality corridor for bus-based public transport case studies)

**Transport session – Examples from Finland**



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# Climate change and transport

## Mitigation

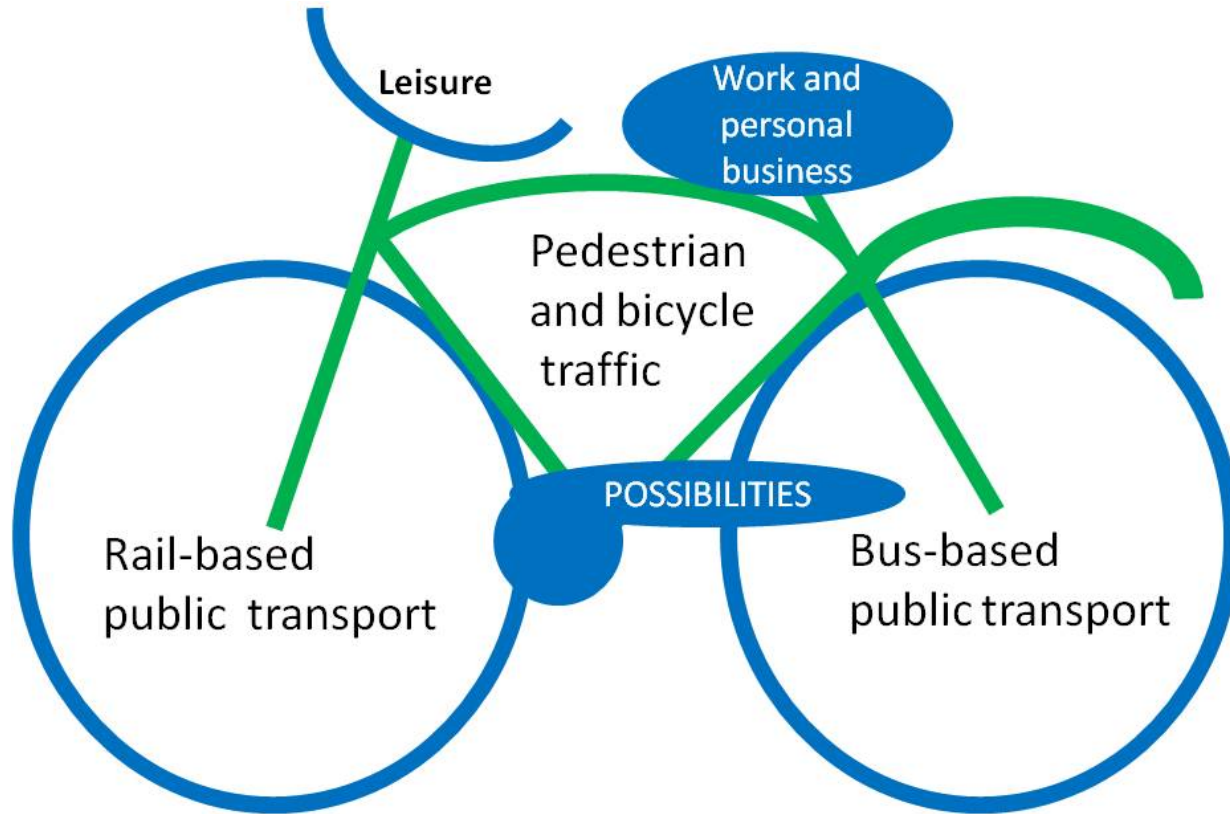
- Increase the share of public transport
- Decrease the demand of travelling
- New technological solutions
- Old solutions

## Adaptation

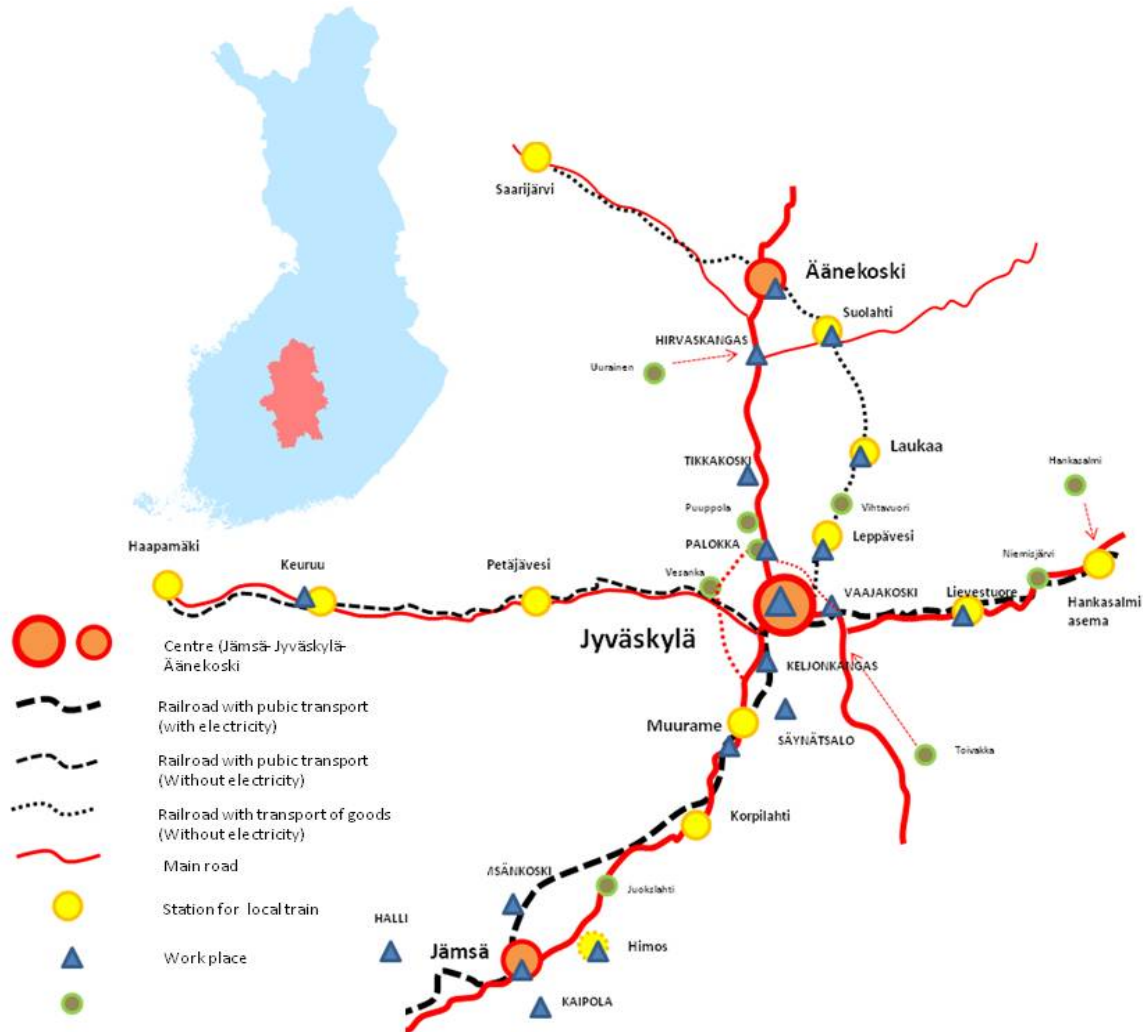
- Floods, erosion, storms, heavy rains etc.
- Maintenance
- Reliability, security



# Why we travel? Possibilities?



# Target area in Central Finland



# Case 1: Potential of rail-based public transport

- *Predicted population growth is 40 000 inhabitants by year 2030*
- *How to develop spatial structure in the region?*

## Conclusions:

- Railroad and stations support development of regional centres
  - Requires significant increase in funding or triple population growth
  - If rail services are developed bus services may suffer
- > **Not possible in Central Finland in near future**



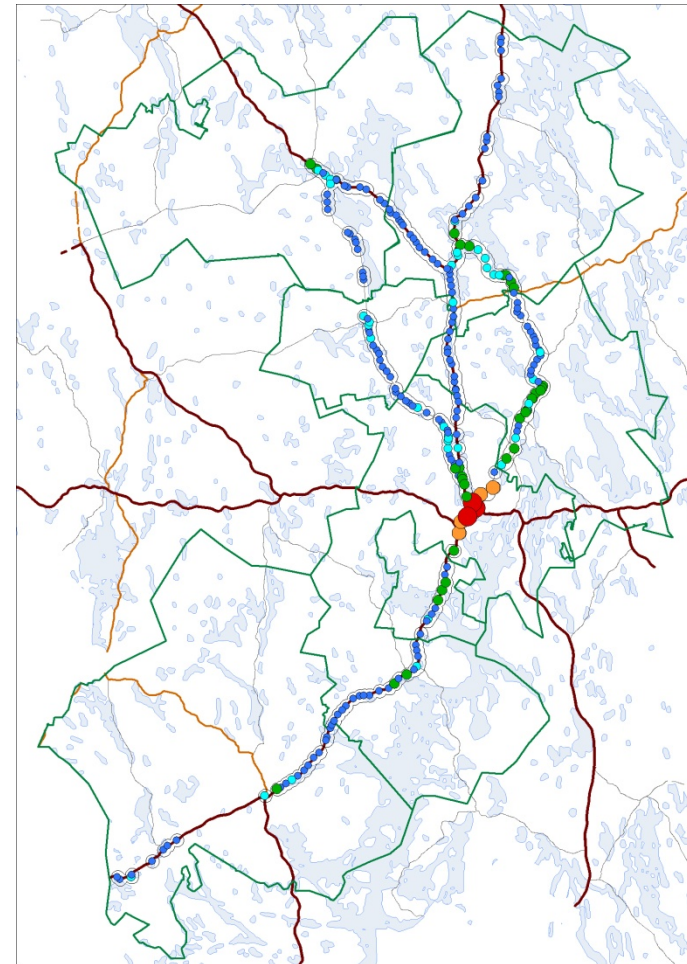


# Case 2: Quality-corridor of bus based public transport

- Identification of service levels and possibilities to increase it > target year is 2020
- Accessibility and future development
- New possibilities (e.g. for work, leisure trips)
- Information distribution in the future (web-based services)

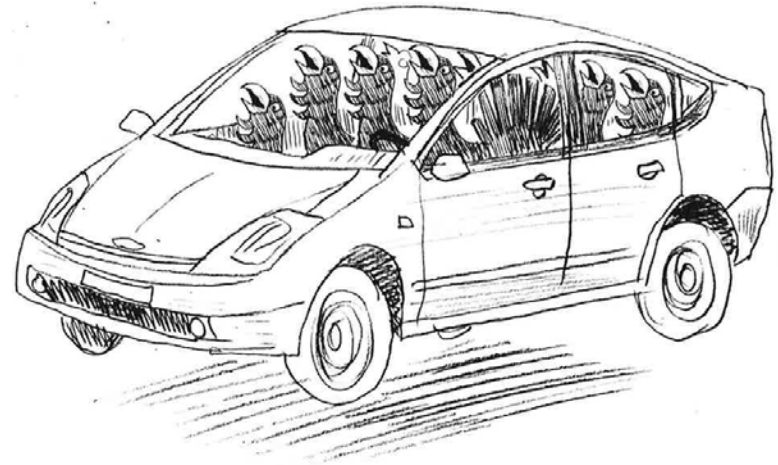
## Conclusions:

- Accessibility to and from bus stops challenging (customers and bus operators)
- Direct, fast connection required in long distance bus transport



# Conclusions...

- Share of transport in county GHG emissions is 25 %
  - > share of private cars of that is 60 %
- Existing infrastructure should enable decrease in car dependency
  - > hypermarkets vs. local shops
  - > leisuretime and local possibilities
  - > increase possibilities for car-pooling
  - > call-on-demand services etc. on sparsely populated areas



**The biggest challenge: How to change the attitudes and behaviour?**

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**Thank you for your attention!**

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