

Better Winter Maintenance by prioritising Case Järvenpää

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Everything works when we have...

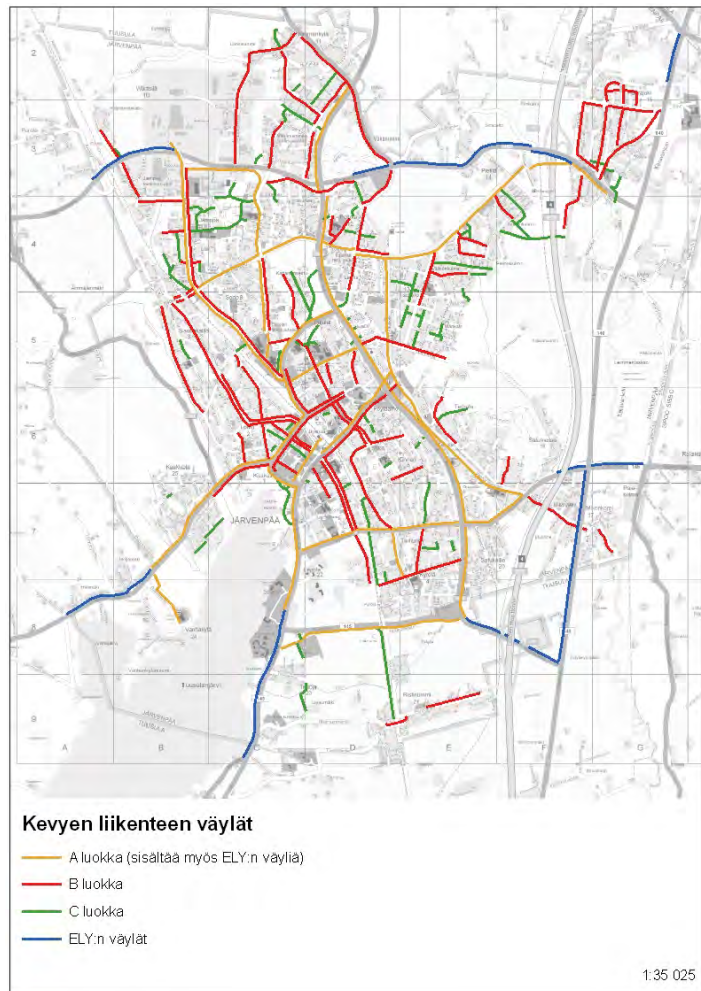
Communication

Coordination

Cooperation

Winter Maintenance Prioritising
Classes A, B, C

2011



Järvenpää:

- 39 000 inhabitants
- Helsinki Metropolitan area has a strong influence: almost 50 % of people commute HMA



The goals of the project was

Winter maintenance for bike and pedestrian paths, that is

- Client based
- Cost effective -> no more money for winter maintenance
- Improved

The Winter Maintenance in Järvenpää (Cycling and walking)

The lanes /paths that are combined for both cyclists and pedestrians

– 97 km

Side walks, only for pedestrians

– 30 km





Foto: Jukka Nissinen

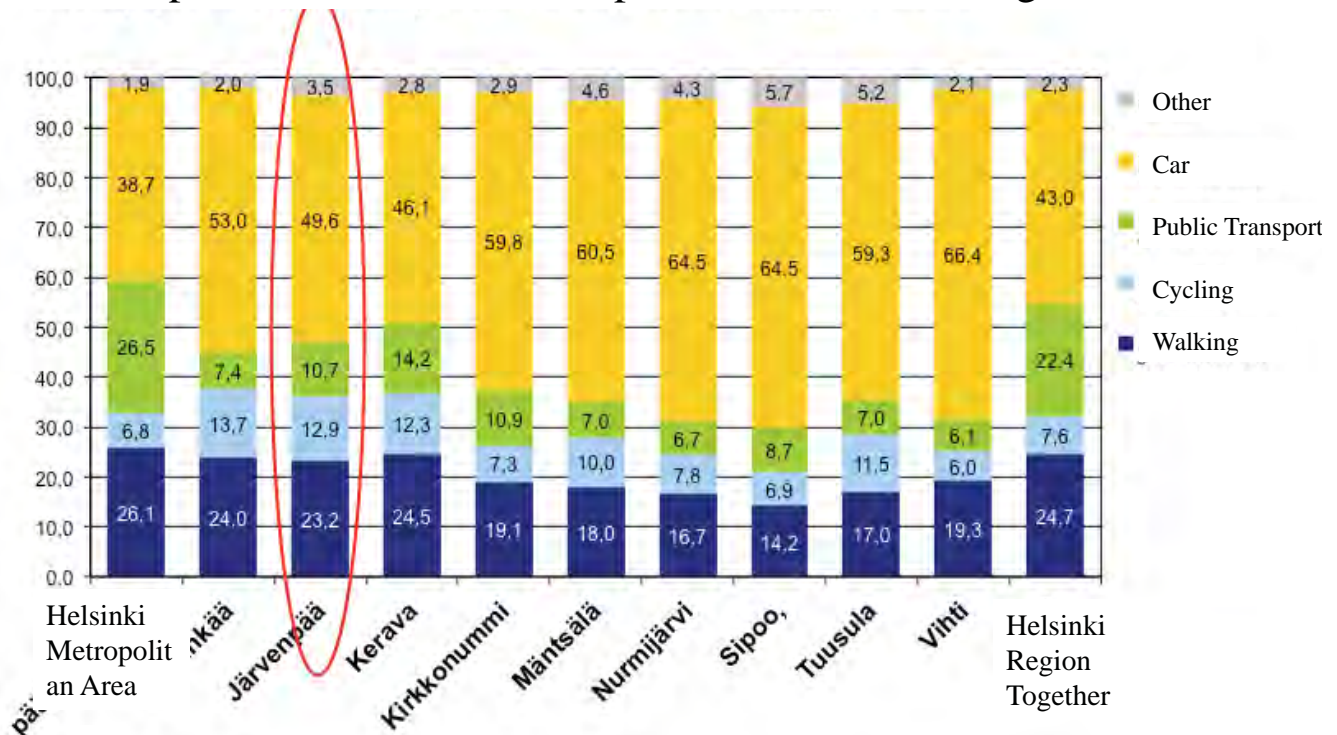


Cycling is strong in the City of Järvenpää

- Walking and cycling have together about 36 % modal split -> 32 % Helsinki Region
- Bike and ride has an important role -> not included in this number



Modal split in the cities in Järvenpää and in Helsinki Region



Pedestrian and cycling paths are important place for wellness and exercise

- Every fourth of Finns, who mention exercise as their hobby, say that the most important place for exercise is pedestrian/cycling path
 - Walking, cycling, running, Nordic Walking
- Residents of Järvenpää think that pedestrian and cycling paths are useful and they give a lot of joy. Mentioned as many times as swimming pools and nature



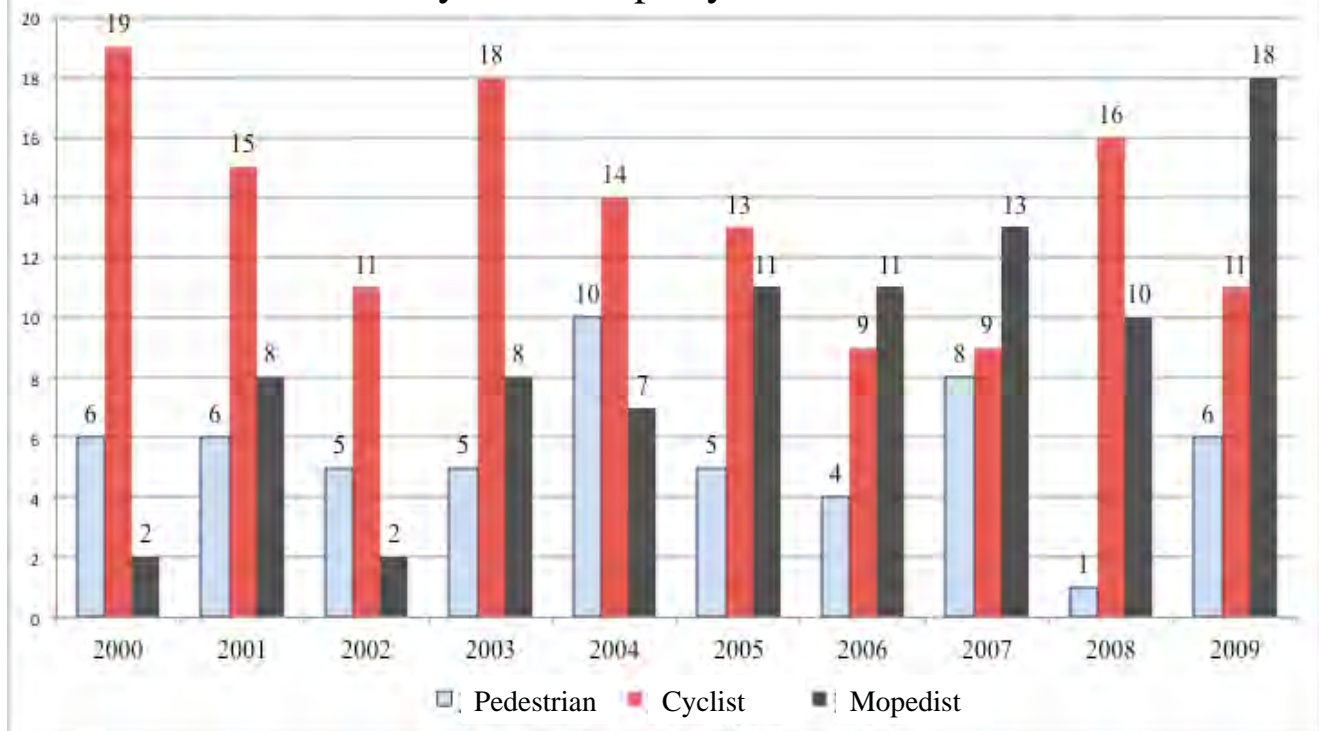
Foto: Jukka Nissinen

The City of Järvenpää thinks that:

- bike and pedestrian paths as key factor for wellness, health and capability for independency through all life
- Bike and pedestrian paths are quality of life
- Outdoor sport and exercise places have an important role when choosing place to live (for the residents of Järvenpää)
- Aging is a challenge for the built environment

The City Strategy for Exercise 2010-2020

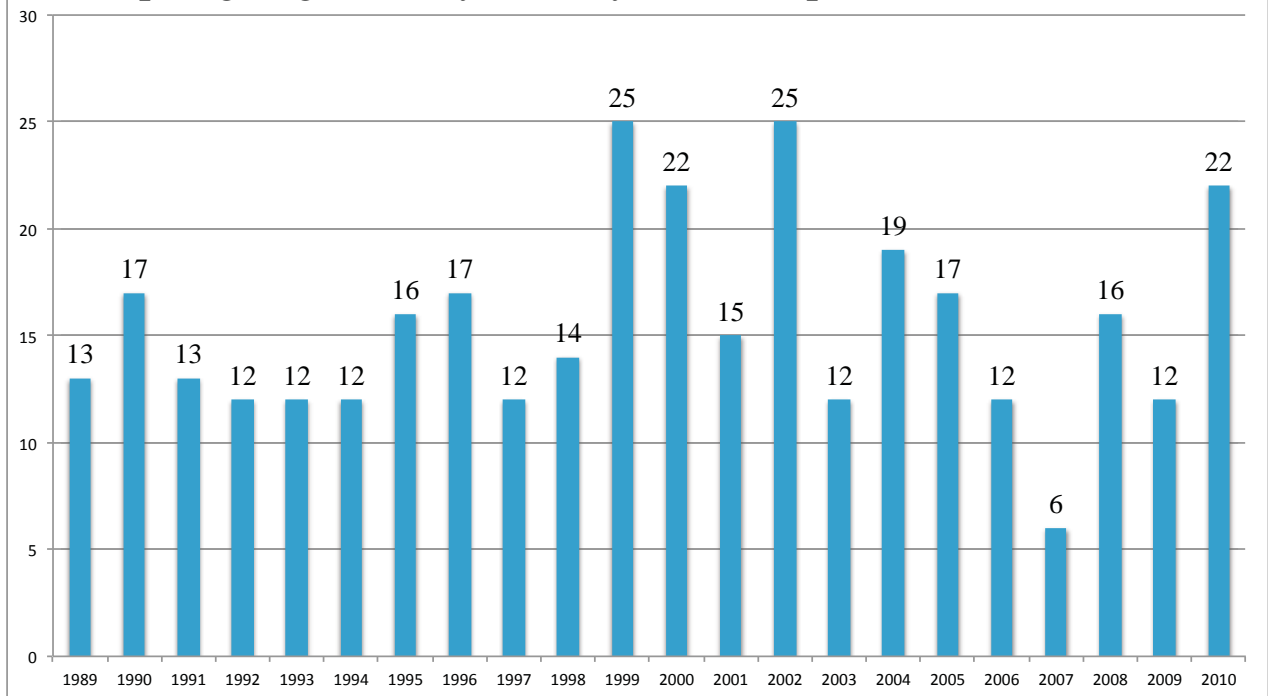
Injured pedestrians, cyclists and moped riders in traffic accidents in the City of Järvenpää years 2000-2009



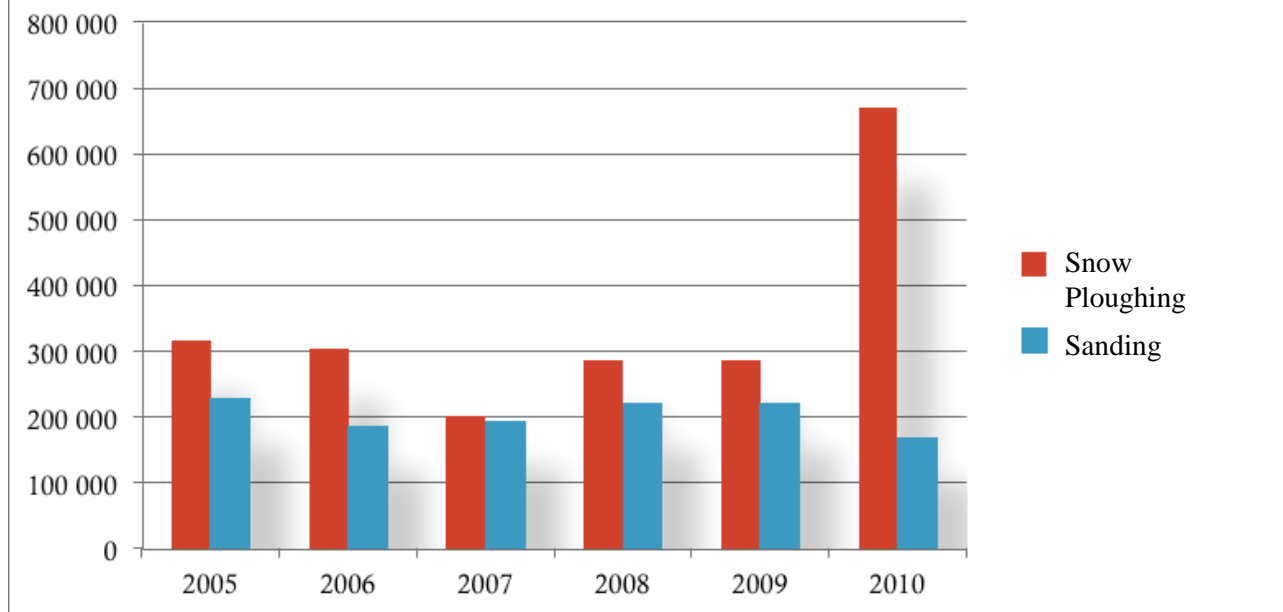
The winter maintenance before

- Snow ploughing started after 5 cm snow
- All the bike and pedestrian paths were in the 1st class (same class with 1st class roads)
- Aim is to have work done before rush hour 7:00 and 16:00
- Sanding when weather and/or weather forecast indicates a big change in weather
- Sand and dust brushed and washed away before 1st of May

Snow ploughing times by the City of Järvenpää 1989-2010

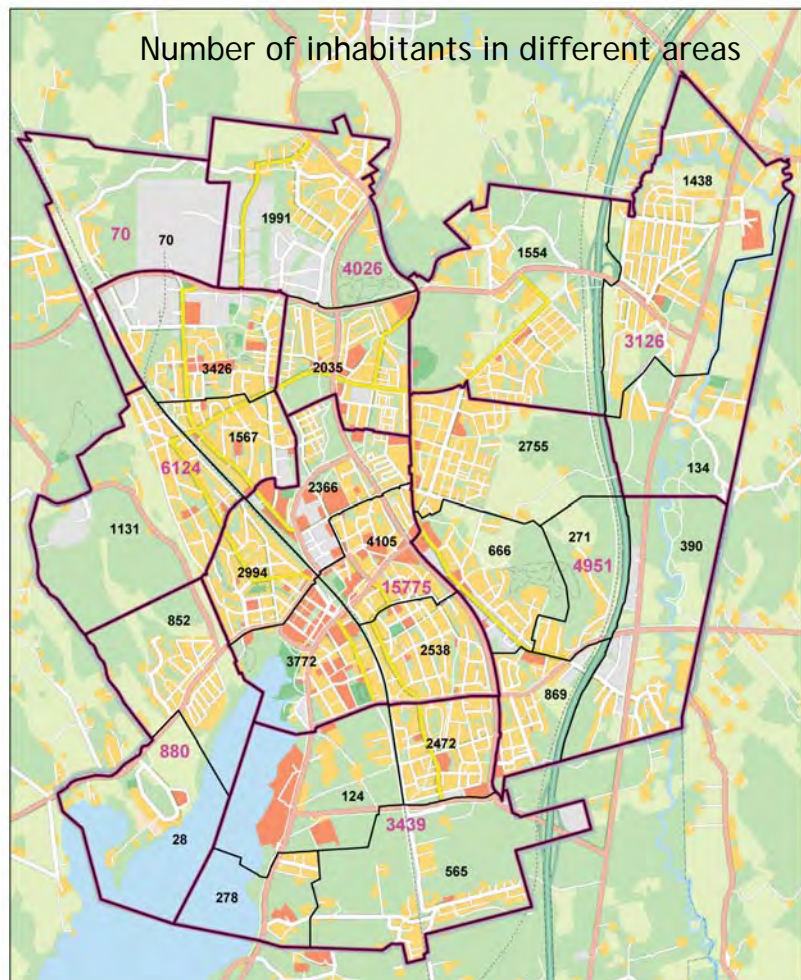


The Costs (€) of snow ploughing and sanding 2005-2010



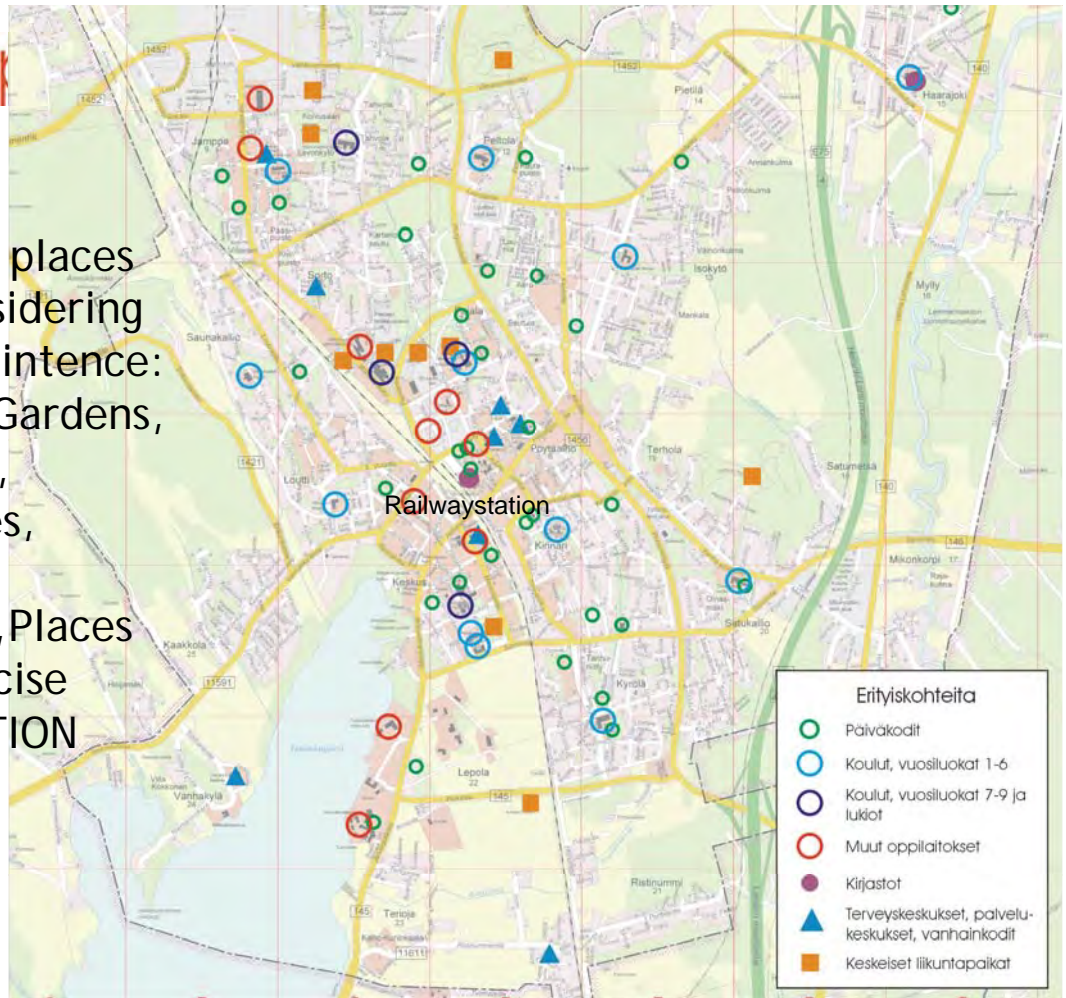
Customer based service in winter maintenance – to serve there were cyclists and pedestrians are

- No studied data of traffic flow in cyclists and pedestrians
- city centre is the most dense area
- Important places: schools, kinder gardens, work, health services, railwaystation

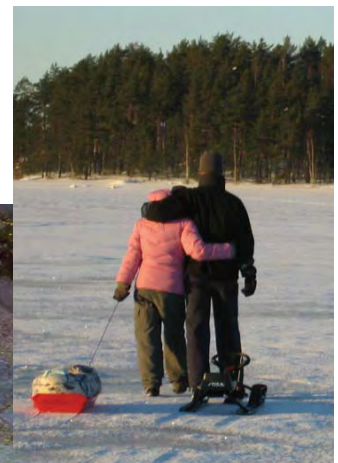


Important places when considering winter maintenance:

- Kinder Gardens, Schools, Libraries, Health Service, Places to exercise
- RAILWAYSTION**



The Commitment of the winter maintenance is to give to inhabitants safe and accessible environment

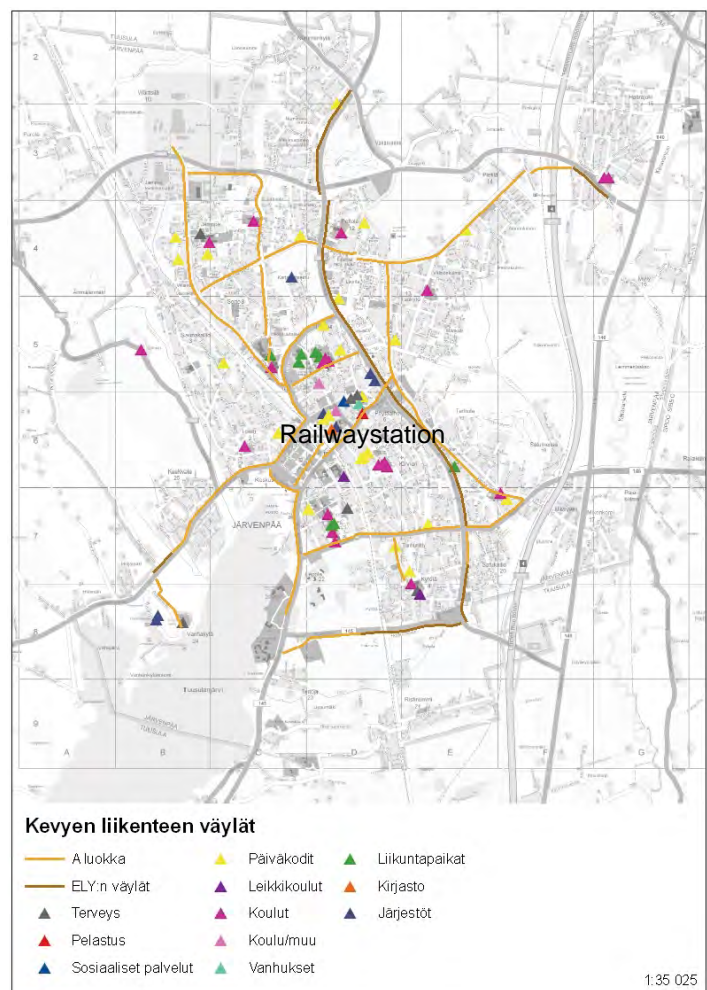


The prioritising

- CLASS A (28 km) main routes
 - The main routes from residential areas to centre. The main routes through the city centre. Important places.
- CLASS B (86 km)
 - The bike and pedestrian paths next to the roads and side walks
- CLASS C (20 km)
 - minor routes inside residential areas through parks etc.

Yellow line: Class A
Brown line: Paths maintained by state

Triangles: Health Services,
Kinder Gardens, Schools,
Exercise Places,

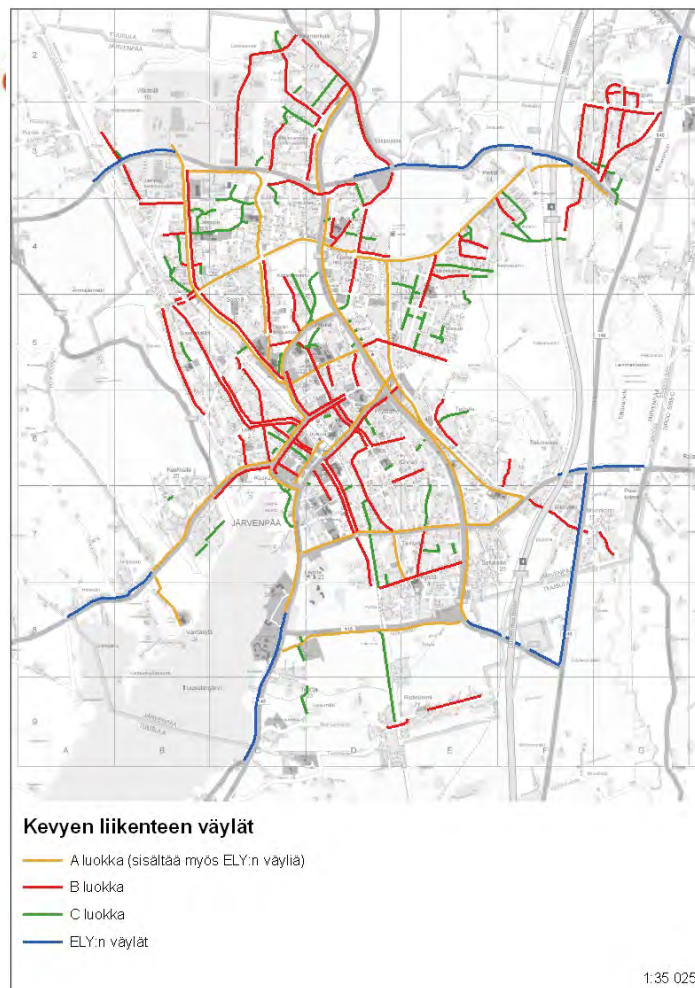


	Ploughing starts after	Maximum	Anti-skid treatment (Prevention of slipperiness)	Sand and dust brushing and washing
Class A	3 cm snow	Maximum bumpiness 3 cm	Starts when weather or weather forecast indicates slipperiness. Done before 7 am.	1st
Class B	5 cm snow	Maximum bumpiness 5 cm.	When needed.	Before 1st of May
Class C	After class B	Maximum bumpiness 5 cm.		

Classes A and B ploughing is done in 4 hours after is needed. Ploughing is done before 7 am when snowing during night.

In class C ploughing is done in 6 hours. Ploughing is done before 10 am.

2011



2011



Foto: Jukka Nissinen