



# HEAT project webinar: Winter Cycling

## Maintenance and mobility management for year-round cycling

15 January, 2020

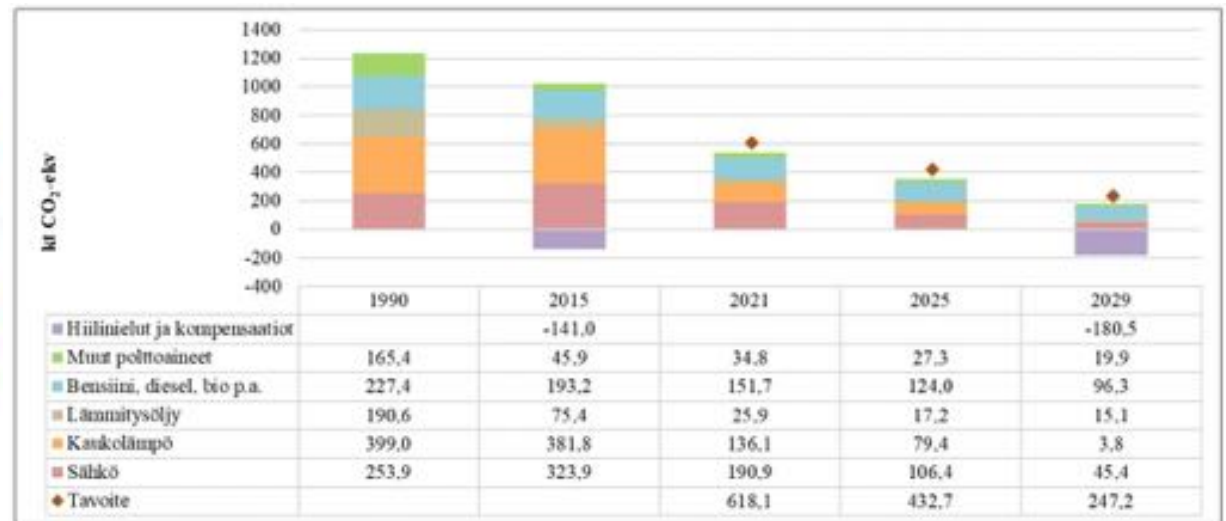
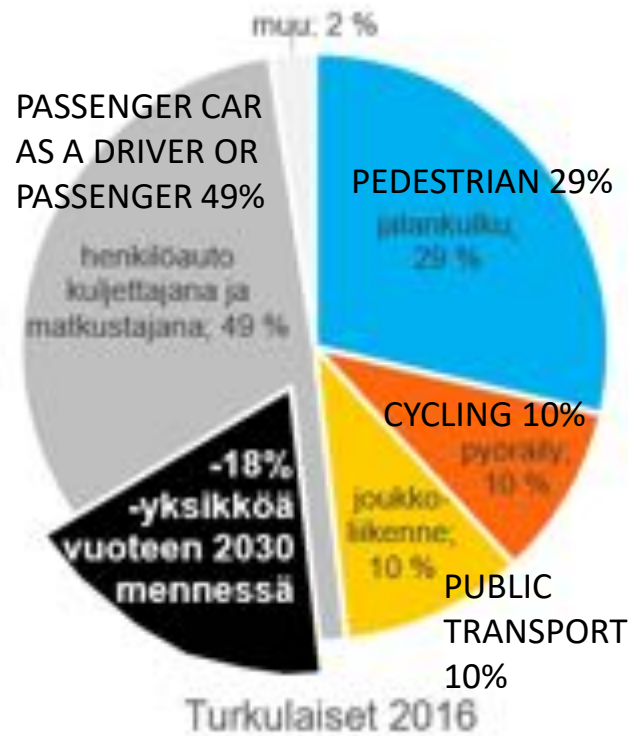


# Two years of sweep-salting in Turku – a pilot for improved winter cycling

Juha Jokela 15.1.2020

# How and why this measure?

# Goals to increase sustainable modes' modal split and reach carbon neutrality 2029



Kuva 6. Turun toteutunut päästökehitys (1990, 2015) ja skenaario (2021, 2025 ja 2029) suhteessa tavoitteisiin ja hiilineutraaliuteen tarvittava kompensatio.

**Short distances, large student population and growing fleet of e-bikes → potential for cycling**



90% YLI

TURKULAINEN ASUU ALLE

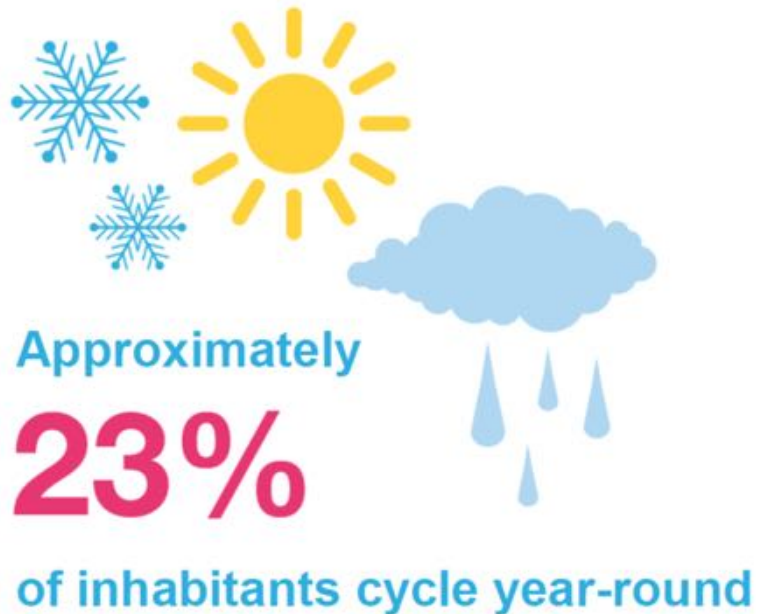
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TUNNIN  
PYÖRÄILYMATKAN  
PÄÄSSÄ TURUN KAUPPATORILTA



# Cyclist amounts drop significantly in winter → potential for increase

Turku:



Copenhagen:





**Icy conditions are usual in Turku in wintertime**



# Cycling barometer 2016

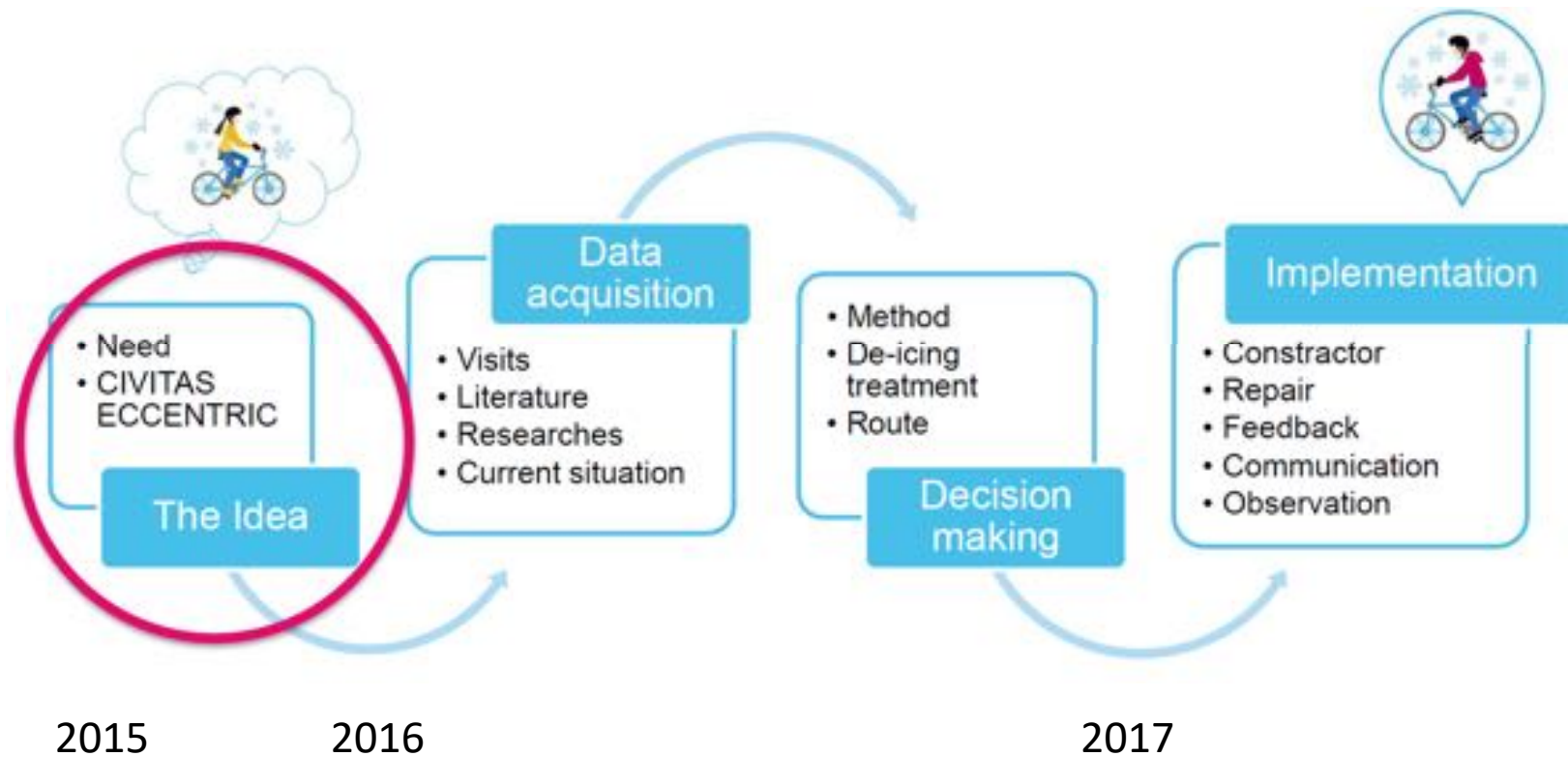
27 % of residents of Turku are unsatisfied with winter bicycle route maintenance → What should we improve?





# Implementing the measure

# Process

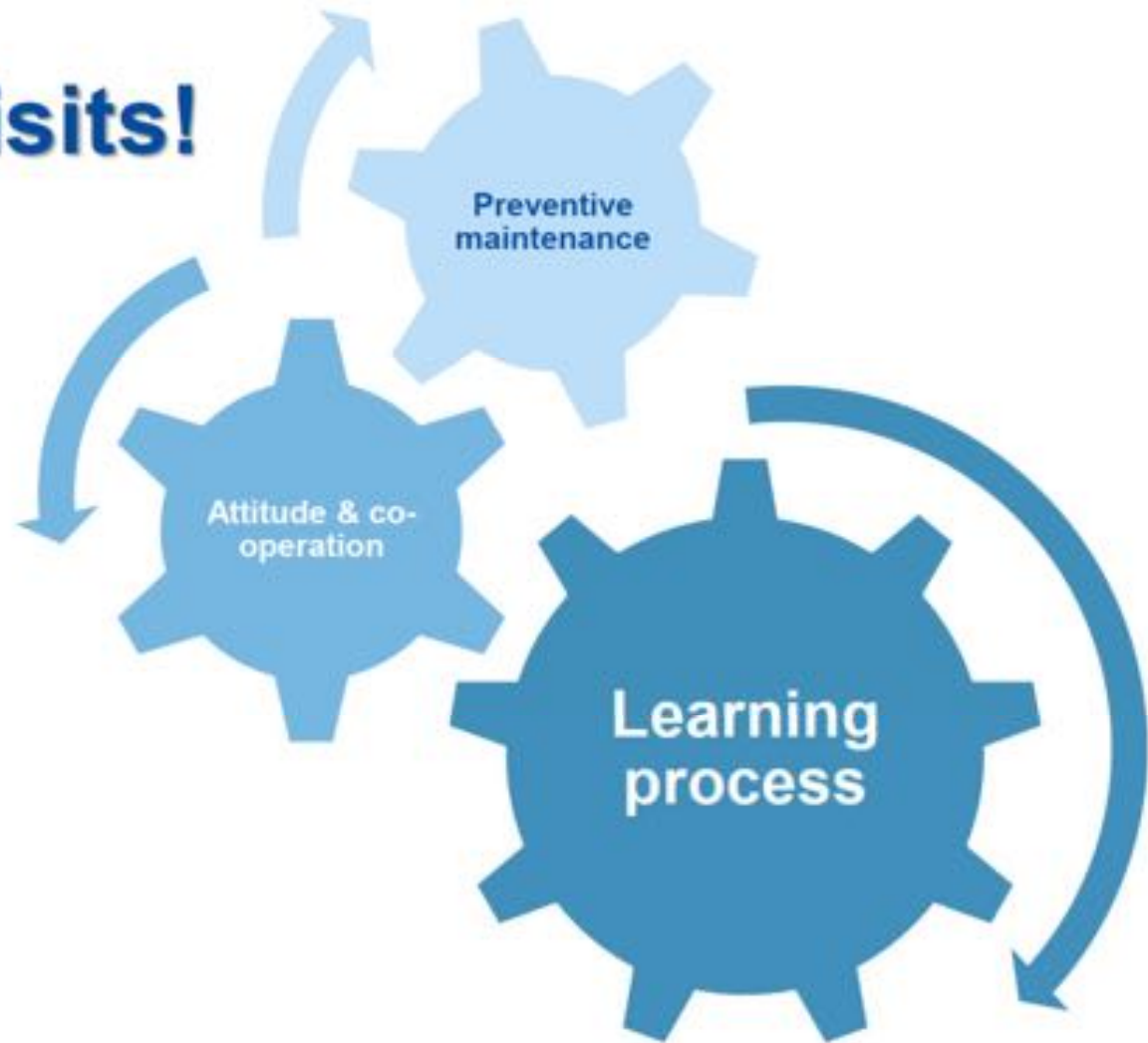


**96 %**  
**of inhabitants**  
**support the**  
**development of**  
**cycling**



# Benchmarking

## Rewarding visits!



- The city of Helsinki
- VTI, Linköping
- The city of Stockholm



# Group decision on method

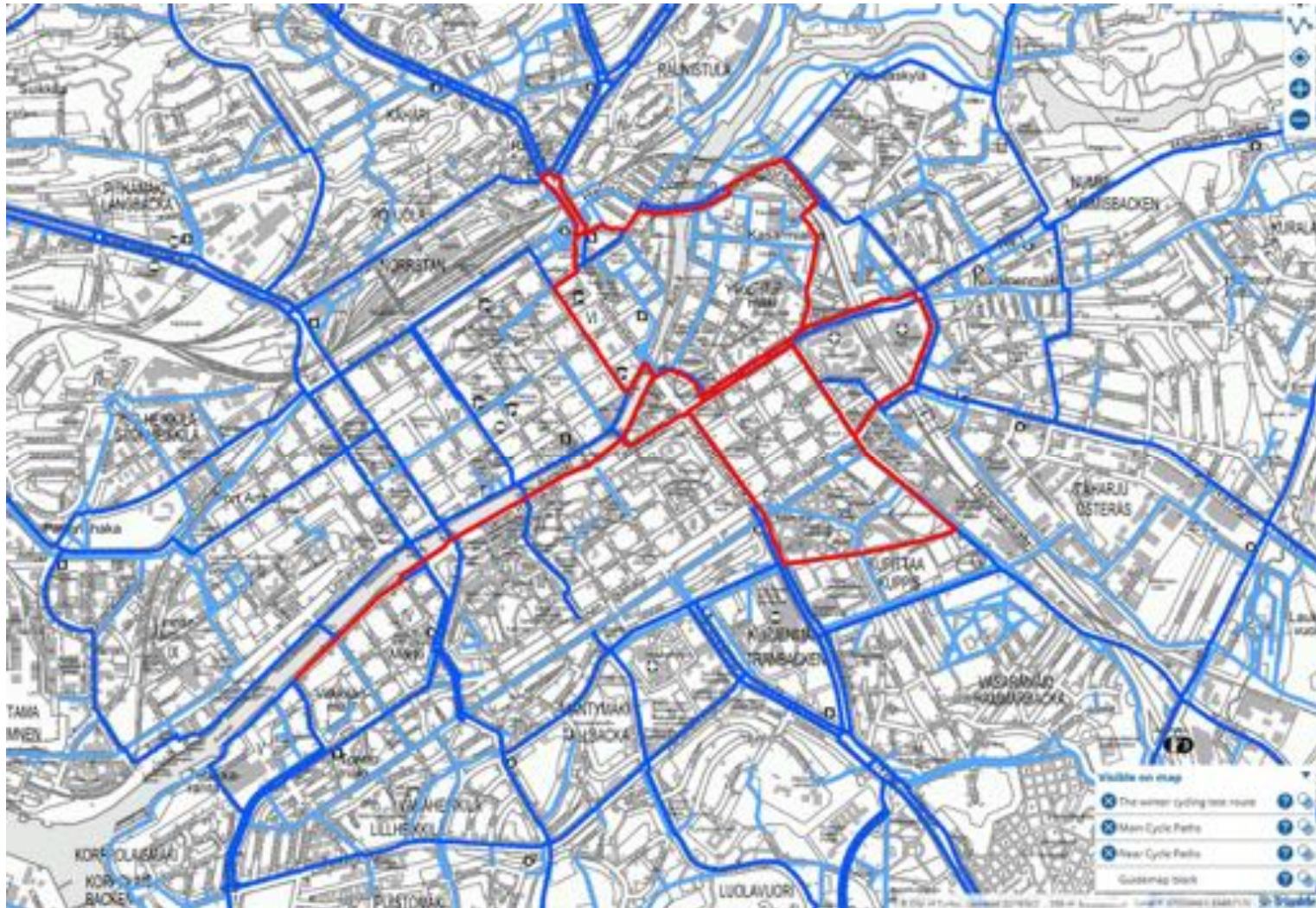
## "Sweep salting"

- Brushing
- Salting
  - "Karlstadslaken"



Photo: Anette Korkiakangas

# Group decision on pilot area





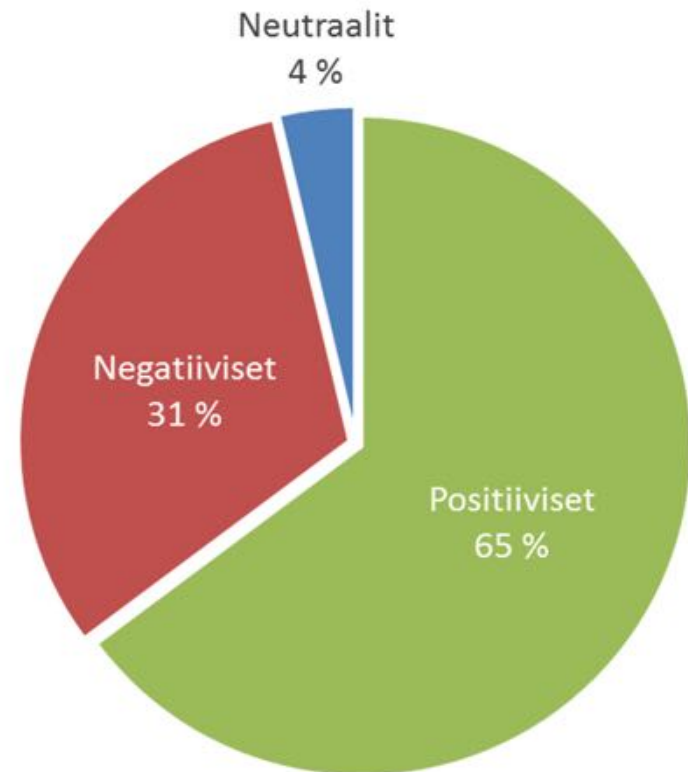


Photos: Anette Korkiakangas

# A lot of positive feedback

- Positive feedback
  - Not slippery and clean
  - Safe
  - Hope for expansion
  - Good feedback from pedestrians and runners also
- Negative feedback
  - Width
  - Snow piles
  - Salt side effects such as corrosion
- *"As a whole, each volunteer experienced the benefits of sweep salting to be much greater than disadvantages"*

YLEISET PALAUTTEET TALVIKAUDEN AIKANA (%)





# Lessons learned / advices

- Cooperation is important during planning the project
- First year is a learning process
  - Cooperation with the contractor important
  - "what goes around, comes around"
- Sweep salting (6200 €/km/winter) is 2-3 times more expensive than normal winter maintenance
- A lot of positive feedback
- New method (sweeping and use of wet sand instead of salt) being used for second winter now – good experiences
- Very little data on impacts but on Tuomiokirkkosilta Jan-Feb cyclist amounts have increased 39%



# Future

- Contract of sweep salting includes still winter 2020-21
- Good experiences from "sweep sanding"
- Decision to continue improved winter maintenance cycling routes and gradual expansion within budget (CB 26.11.2018)





# WINTER CYCLING

MAINTANCE AND MOBILITY MANAGEMENT  
FOR YEAR-ROUND CYCLING



EUROPEAN UNION  
European Regional Development Fund



# Tack, kiitos, aitäh & paldies!

[www.heatproject.eu](http://www.heatproject.eu)

#biking4health

#planningtogether