



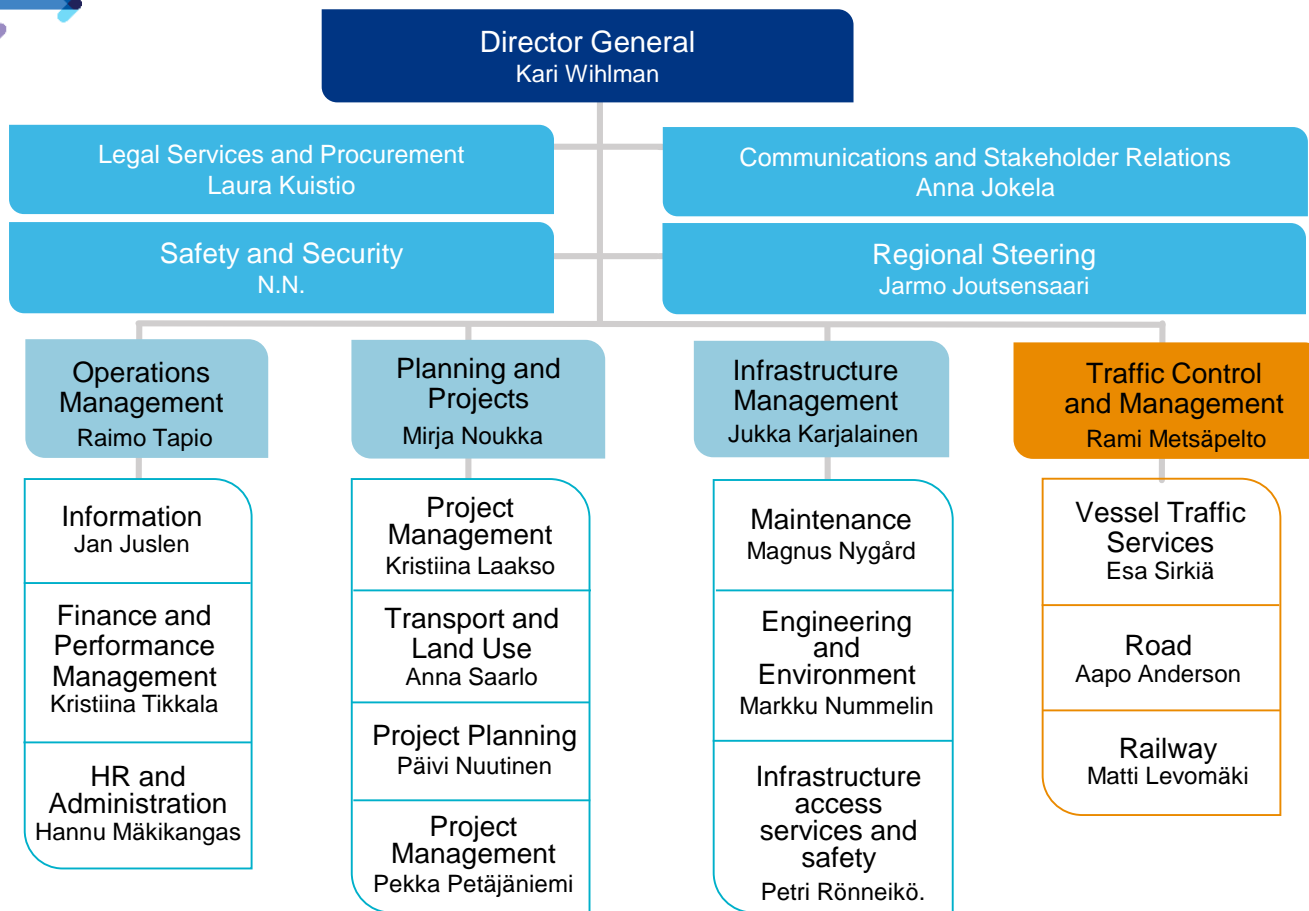
Infrastructure manager perspective: Research needs and implementation of results

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Organisation of the Finnish Transport Agency





Benefits for Society and Customers

- Operations aim at maximising the benefits for society and customers
- Must know the needs of society and customers
- Must understand the effects of measures
- Must implement the appropriate measures effectively at the right time and place
- Must also ensure the long-term durability of traffic arteries





Maintenance challenges and opportunities

Ensure the level of daily maintenance and halt the growth of the maintenance backlog

- The appropriate scheduling of measures, taking customer needs and repair needs into account
- Effective implementation of maintenance

Digitalisation and other new technologies

- Foresee, experiment, exploit opportunities
- Electronic operating model; open, public data
- Prepare for new demands

Towards tailor made maintenance and proactive maintenance

- Better consideration of customer needs
- Focus towards foresight when funding makes it possible

Responsibility in operations

- Solutions with optimal life cycle efficiency
- Economic reuse of materials, e.g. recycling procedures for surfacing materials, recycling of railway track materials





Road winter maintenance development programme

Minister Berner 15 February 2018

- Winter management policies updated during the spring
 - criteria for maintenance classes
 - quality requirements
 - action times
 - precision maintenance
- Continuation with developing and utilising digitalisation
 - information about road condition, forecasts
 - analyses
 - implementation
 - supervision
- New contract model for area maintenance contracts in 2019
 - interaction
 - rapid reaction capability
 - target price
- Enhance communications
 - proactive
 - timely
 - fact-based communication

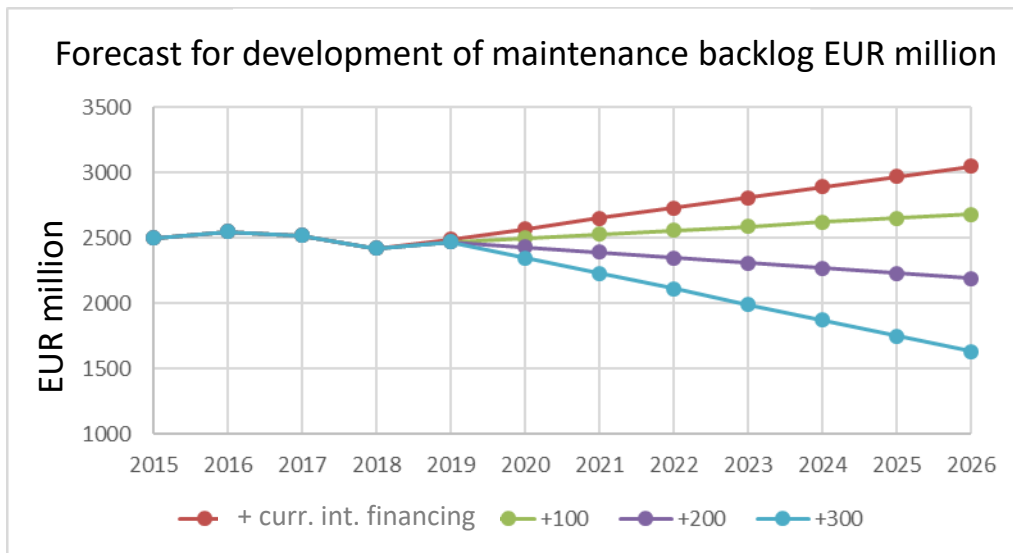
As a quick procedure, EUR 2 million was transferred from surfacing to winter maintenance in 2018, and quality assurance will be enhanced



The maintenance backlog of state traffic arteries at different levels of financing

At the beginning of the parliamentary term, the maintenance backlog of traffic arteries increased by EUR 100 million per year - additional financing cut the increase in the maintenance backlog in 2015-2018

- Budget funding EUR 1,020 million per year
- Additional funding EUR 100 million per year
- Additional funding EUR 200 million per year
- Additional funding EUR 300 million per year



The figures include additional funding required by 2% annual increase in costs

Financing of minor improvement projects is not included



Proactive management of road condition

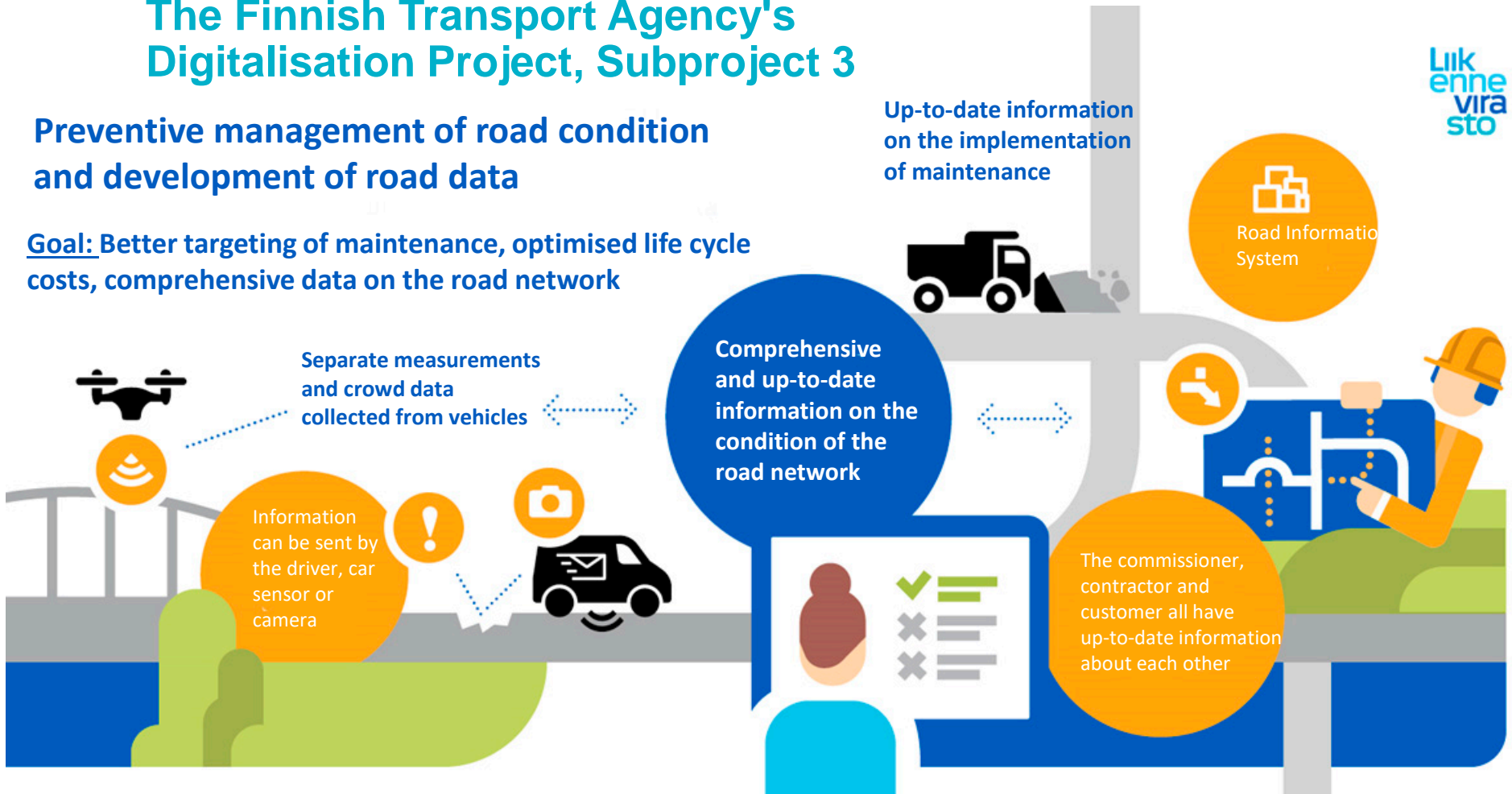
- Optimised road maintenance to meet both the needs of the customer and the party responsible for road maintenance
- The measures are implemented by optimising the whole process, partly even before major harm for traffic is caused and partly as rapid, efficient precision repairs and maintenance.
- Efficient collection, processing and analysis of data facilitate more precise planning and timely targeting of measures.
- Asset management will be developed according to international recommendations to meet international standards.



The Finnish Transport Agency's Digitalisation Project, Subproject 3

Preventive management of road condition and development of road data

Goal: Better targeting of maintenance, optimised life cycle costs, comprehensive data on the road network





Responsibility in traffic artery maintenance.

- The party responsible for traffic artery management must act responsibly, the operations must be generally acceptable
- Various perspectives to be taken into account include the economic, environmental, social, safety-related
- We must be able to assess the impacts even from these perspectives
- The perspectives are often contradictory
- In an optimal scenario, one find measures that promote several or all of these perspectives, e.g. recycling of road surfacing





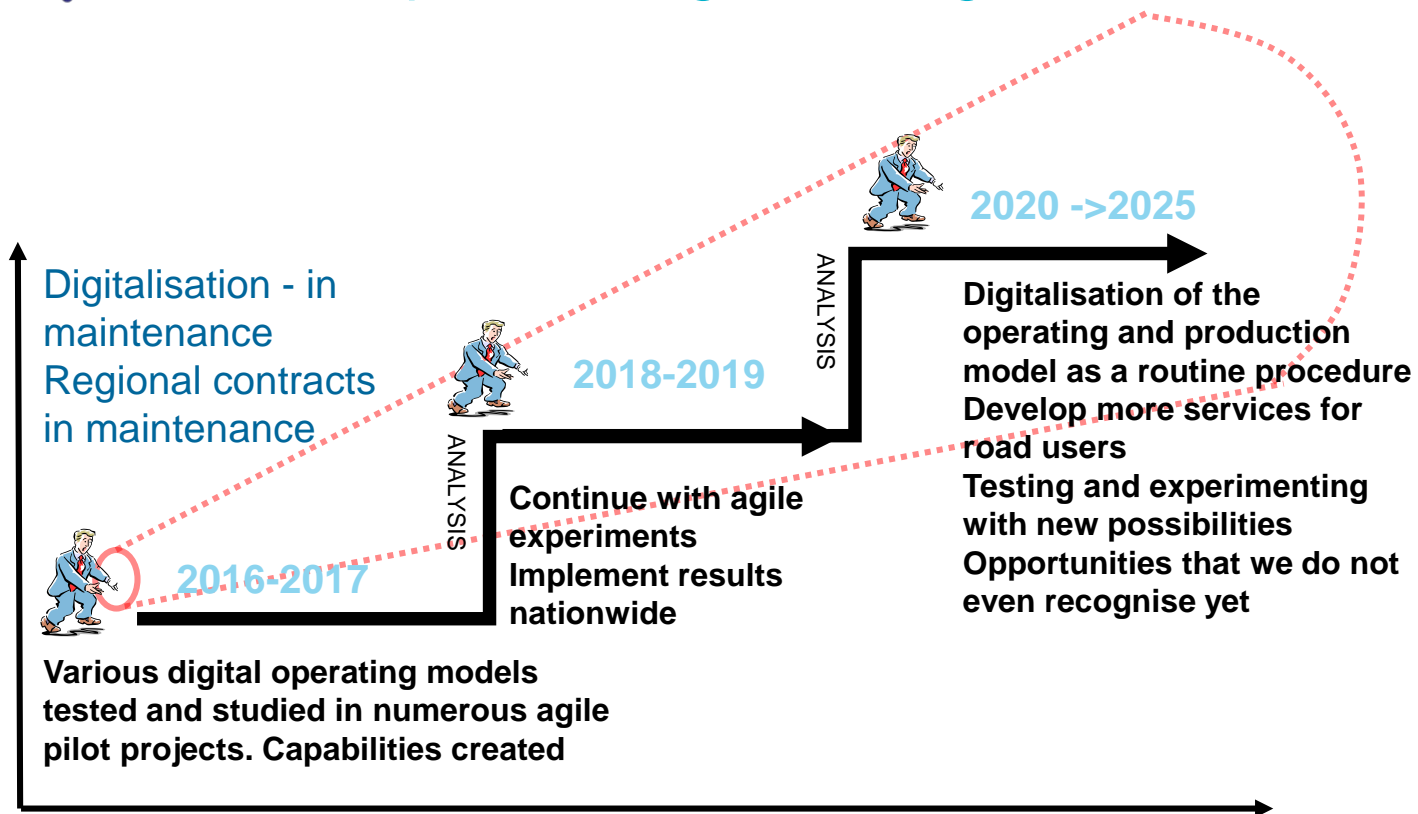
Implementation of results

- Research, testing, production
 - To production through means such as instructions and contract documents
- Testing, production
 - Open search for digital experiments 2016, over 200 proposals from 71 companies
 - Challenge: to expand the pilot into production use nationwide
- Testing in connection with production
 - Digitalisation development pilot projects in road surfacing contracts





Although the goal is not yet fully clear, it is worth proceeding in the right direction





Thank you!

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