



# Tiepäivät 24.–25.8.2022

## Road Congress

Winter Road Seminar,  
Wednesday 24.8.2022

**Place: Leonardo Hall**

**8:45 –9.30 Registration and morning coffee**

9:00 Exhibition opens

9:30 **Welcome to the Road Congress**

9:40 Machine learning, any help for decision-making, case Road Weather Images.  
Hard-ware vs Hard-work, Rauno Kuusela, Destia

10:00 Mapping and planning of maintenance operations on streets of the Oslo municipality in Norway”,  
Mats Bayard, Niko Rosenquist, Triona

10:20 Improving Winter resilience on united kindom roads: Learning from international experience  
Mark Corbin, Transport for West Midlands

10:40 Automation of Winter Service Worksheets, Māris Klīģis, Raitis Šteinbergs, Latvijas autoceļu uzturētājs

**11:00 Lunch and exhibition**

12:00 A Compact Mobile Road Condition Sensor, Taisto Haavasoja, Teconer Oy

12:20 Automated de-icing chemical spreading, Juha Laakso, Infotripla Oy

12:40 On the Constructability of Asphalt Pavements with Embedded Electric Heating,  
Eyal Levenberg, Adam Quentin Félix University of, Denmark Technical University

13:00 Performance Evaluation of Next-Generation Asphalt Pavement-Smoothing Technology in South Korea:  
Non-Contact Digital Ski, Augusto Cannone Falchetti, Aalto University

13:20 From reaction to prevention! Real time road weather condition data for winter maintenance,  
Antti Hirvonen, Road Cloud

13:40 Prizes

13:55 Transition to the outdoor demonstrations

**14:00 Coffee/Outdoor Demonstrations at 14.00 /Exhibition**

15:00 Communicating the winter maintenance service promise of bike paths,  
Martti Tulenheimo, The Finnish Cyclists’ Federation

15:20 Winter slip-and-fall accidents and their prevention: an equality perspective,  
Johannes Mesimäki, VTT Technical Research Centre of Finland Ltd

15:40 Bicycle-based Winter Maintenance Quality Assessment on Bicycle-paths,  
Sebastian Bussman, West Coast Road Masters Oy

16:00 Increased winter road safety with information regarding road condition, Viktoria Bogren, Klimator AB

16:20 Experience in Contract models, Otto Kärki and Magnus Nygård, Finnish Transport Infrastructure

Agency  
16:40 How robotics could enhance quality assurance and situational awareness  
in infrastructure construction projects, Markus Melander, GRK Infra Oy

**17:00 Final words**

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### PROGRAM

Maintenance & Asset Management Seminar,  
Thursday 25.8.2022

**Place: Leonardo Hall**

**8:45–9:30 Registration and morning coffee**

9.00 Exhibition opens

9:30 **Welcome to the Road Congress and Prizes for the Working Machine Demonstrations**

9:50 Business intelligence in proactive traffic infrastructure management, Timo Saarenketo, RoadScanners

10:10 Asset Management – Based on ISO 55000 Standard Series, Jyrki Paavilainen, WSP Finland

10:30 Enablers of improved productivity in the infrastructure sector – the most valuable lessons?

Kaisu Laitinen, Ramboll

10:50 Road condition detection technology: A benefit analysis, Toni Lusikka,

VTT Technical Research Centre of Finland Ltd

11:10 How artificial intelligence enabled computer vision optimizes reactive and planned

road maintenance activities, Aleksi Kauppi, Vaisala

11:30 3D ground penetrating radar (GPR), laser scanner and 3D accelerometer data utilization

in analysis of problematic sections of road network, Anssi Hiekkalahti Roadscanners

11:50 City of Tampere Asset Management Development Curve - Traffic signs

and street condition information Case, Ylitalo Eelis, Maiju Ylönen, Tampereen Infra Oy

**12:10 Lunch**

**12:30 Exhibition**

**12.30-13.15 Outdoor Demonstrations**

13:20 HCT trials in Finnish timber transportation, Metsäteho Oy

13:40 Utilization of real-time floating car data in the traffic impacts of large construction sites,

Alexi Vesanto, Ramboll

14:00 Tampere as a forerunner in transport emission mitigation,

Lasse Nykänen ja Sarianne Vihakara Vedia Oy

14:20 Development of environmental requirements for transportation infrastructure construction

equipment, Erja Vallila, Finnish Transport Infrastructure Agency

14:40 12 Calculating the carbon footprint in maintenance contract, Huuskonen Oiva, Destia

15:00 Reducing CO<sub>2</sub> emissions and costs by road design, Miikka Niinikoski, Ramboll

**15:20 Final Words**

15:30 The Exhibition closes

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