



## Publications of the Finnish Transport Infrastructure Agency

### 2021

Automated driving on Motorways (AUTOMOTO)  
 Further development of the studded tyre classifier - Automatic identification of studded tyres  
 Design-build with a development phase - From creation to first projects and related experiences  
 Northern Axis – Barents Link project Report on the railway passenger transport passing through the Vartius/Kivijärvi border  
 Preliminary Study on Utilizing GNSS-based Techniques for Enhanced Height Estimation for Vessels in Finnish Waterways  
 Railway Network Statement 2023  
 Research report on lidar detection performance of maritime navigation aids equipped with auxiliary reflectors

### 2020

Developing the pavement repair project using computer vision  
 Digital Concrete Quality Assurance: Possibilities for data-driven quality assurance of concrete in production  
 Railway Network Statement 2022  
 Forecasting Indirect Costs in Finnish Public Transport Infrastructure Projects: Applications in Machine Learning Models

### 2019

5G in the activities of the Finnish Transport Infrastructure Agency - FTIA as a user and enabler of fast data connections  
 Arctic challenge project's final report - Road transport automation in snowy and icy conditions  
 Capacity and punctuality in railway investment socio-economic assessment  
 Development of BIM process through knowledge management  
 Railway Network Statement 2021

## Publications of the Finnish Transport Agency

### 2018

Arctic Ocean Railway Report  
 Bridge WIM Overview Report - Year 2013-2017  
 Challenges and variability in building software product families - Case railway energy settlement system  
 Lateral Load Capacity of Road Barrier Piles  
 Rantatunneli - Value for money report  
 Äänekoski bioproduct mill's transport links - Railway project: Value-for-money report - Implementation stage  
 Finnish Railway Network Statement 2020

### 2017

Railway Engineering Guidelines (RATO) part 16: Routes and platforms  
 Safety assessment of the international sea area of the Gulf of Finland  
 Pile supported embankment slabs under railway track line - 3D FEM simulations on the effect of load models on the vertical stress levels exposed to slab structures  
 Sound reflector from different noise barriers  
 Finnish Railway Network Statement 2019

### 2016

Quality requirements of road luminaires and lighting fixtures, 13 April 2016  
 Road Transport Automation - Road Map and Action Plan 2015-2020  
 Developing design process management in BIM based project involving infrastructure and construction engineering  
 The development of a waterway project risk management framework  
 VIRVE Network Requirements for Hand Portable and Mobile Terminals

**2015**

Analysis of the Predictability of Traffic during Congestion  
Axle Load Study 2013-2014 - Final report  
BIM based on-site surveying - Utilization of Inframodel3-models in on-site surveying  
Finnish Railway Network Statement 2017  
MaaS Services and Business Opportunities  
Public transport performance statistics 2013

**2014**

BIM Guidelines for Bridges  
Finnish Railway Network Statement 2016  
ITD Directive - Priority action 'c'-proposal for deployment plan in Finland: Deployment of road safety related information service  
Laying and Marking of Overhead Cables and Submarine Cables and Pipelines in Water Areas  
Roadwork Safety 1: Safety training for working on the road (not in PDF-format)

**2013**

Finnish Railway Network Statement 2015  
Public Private Partnership (PPP) Review  
Public transport performance statistics 2011  
The Nordic state road and railway infrastructure market  
The transport needs of the mining industry - Working group summary  
Travel time and incident risk assessment

**2012**

Bluetooth based travel time estimation - Literature review  
Finnish Railway Network Statement 2014  
Finnish Railway Statistics 2012  
Organizing the rail related services in deregulated railway markets – Learning from Swedish, Danish and British experiences

**2011**

Finnish Railway Network Statement 2013  
Finnish Railway Statistics 2011  
Instrumentation and analysis of a railway embankment failure experiment  
Progression of the Deregulation on the North European Railway Passenger Markets  
Transport conditions in 2035 (PTS)

**2010**

Business Environment and Future Opportunities in Russian Railway Freight Market  
Finnish Network Statement 2012  
Finnish Railway Statistics 2010  
Life Cycle Analysis of Mälkiä Canal Bridge  
Life Cycle Analysis of three Finnish Standard Bridges  
Road Traffic Management Strategy