

# FINNISH EXCELLENCE IN TRANSPORT SECTOR





# KEY AREAS OF FINNISH EXCELLENCE IN TRANSPORT SECTOR

**AUTONOMOUS TRANSPORT**  
Proven in all conditions

**ELECTRIFICATION OF TRANSPORT**  
From software to batteries

**SERVICIFICATION OF MOBILITY**  
Services to connect all mobility services

**SMART PORTS AND MARITIME**  
Data-driven automation, flow and safety and remote pilots

**ENVIRONMENTAL MEASURES**  
Ensure transport in all weather conditions

**DATA & CONNECTIVITY**  
Corner stones for modern transport system & cooperativeness

**DIGITALIZED RAIL SOLUTIONS**  
Complete modern rail packages from cars to maintain operations

**DIGITALIZED LOGISTICS**  
Efficiency for people, goods and environment via digitalization

**AUTOMOTIVE INDUSTRY TECHNOLOGIES**  
Trusted technologies for modern vehicles





# AUTONOMOUS TRANSPORT

- Software as a Key
- All Modes
- In All Conditions & Weather
- First and Last Mile

In Finland, we enable safe driving in all weather conditions. Self-driving shall be safe whenever and wherever.



CROSSING THE LAST-MILE WITH A  
SELF-DRIVING BUS IN TAMPERE, VTT  
AND REMOTED





# ELECTRIFICATION OF TRANSPORT

- Software for optimization
- EV infrastructure
- From Home to Heavy
- Batteries as an Enablers

In Finland, we optimize how electricity is used. We also think the key for smart electrification – The Battery – shall be produced with trust and sustainability.



AUSTRALIA'S LONGEST EV HIGHWAY TO  
FEATURE KEMPOWER RAPID  
CHARGING TECHNOLOGY, KEMPOWER



FINNISH SMART CHARGING PLATFORM  
VIRTA OPENS AN OFFICE IN  
SINGAPORE, VIRTA





# SERVICIFICATION OF MOBILITY

- Greener future through mobility services
- Data and technology driven
- Flexible Payment
- The Home of MaaS

In Finland, we invented a new more sustainable and consumer wise way for mobility. The revolution to think mobility a bit different – as a Service.



ONE OF A KIND TRAM SERVES AS A  
TEST BED FOR MOBILITY SERVICES IN  
TAMPERE, SKODA TRANSTECH



HISTORY OF MAAS



FUTURE MOBILITY  
**FINLAND**



# AUTOMOTIVE INDUSTRY TECHNOLOGIES

- Software for Modern Automotive
- Vehicles Connected Everywhere
- Smart Cockpit Dashboards

In Finland, we didn't invent a car but we know how to speed up processes and get things connected – by software, connections and new emerging technologies.



BASEMARK SHOWCASING ITS  
LATESTS AUTOMOTIVE AR AND HMI  
GRAPHICS SOFTWARE, BASEMARK



MARELLI SHOWCASES MIND-XP  
COCKPIT DCU PLATFORM POWERED  
BY KANZI ONE, RIGHTWARE





# DATA & CONNECTIVITY

- Open Data
- Data Networks (5G, 6G..)
- Connected Infrastructure, Devices, People

In Finland, we build the trust on data and connectivity. Our strong background on mobiles enables to build our future towards trusted and safe digital transport system.



TELIA LAUNCHES SERVICE FOR  
DETERMINING CO2 EMISSIONS FROM  
ROAD PASSENGER TRANSPORT, TELIA



DIGITAL TWINS OPEN A NEW WORLD  
FOR URBAN DEVELOPMENT, VTT,  
SITOWISE





# ENVIRONMENTAL MEASURES

- Weather & Climate Measures
- Road, Rail, Air, Sea Conditions
- Forecasts

In Finland, we live with 4 seasons, we adapt to the weather, we forecast the weather and – the most important – we take care that society can smoothly go with all this.



VAISALA RANKS IN TOP 5 OF FINANCIAL TIMES' CLIMATE LEADERS 2022 LIST, VAISALA



USING DATA TO CONTROL TRAFFIC EMISSIONS IN VAASA, RAMBOLL





# DIGITALIZED RAIL SOLUTIONS

- Modern Urban Rail Systems
- Digitalized Rail Systems
- Life Cycle Rail Concept
- Autonomous Trains

In Finland, we think “rails” are not like they used to be –only iron. We think “rails” are smart, digitalized, sustainable mobility ecosystem -a part of modern, evolving ecosystem from iron rail roads to autonomous trains.

ONE OF A KIND TRAM SERVES AS A TEST BED FOR MOBILITY SERVICES IN TAMPERE, ŠKODA TRANSTECH & VTT



PROXION LED SUCCESSFULLY AUTONOMOUS TRAIN TESTS IN FINLAND, PROXION





# SMART PORTS AND MARITIME

- Optimized Port Operations
- Maritime Situation Awareness
- Autonomous Port Processes
- Data & Software Driven Safety, Efficiency and Green

In Finland, we live almost on an island – forced to sail on ice, navigate through thousand rocks, connect the world through our ports 24/7. This means optimization, efficiency, automation and smart in every level.

WÄRTSILÄ IS LEADING THE MARINE ECOSYSTEM TOWARDS ZERO EMISSIONS, WÄRTSILÄ

PORT APP THAT COLLATES SCHEDULE DATA HEADING TOWARDS INTERNATIONAL COOPERATION, FINTRAFFIC VTS





# DIGITALIZED LOGISTICS

- Optimized Logistics Chain
- Efficiency Through Automation and Autonomous
- Data, AI & Software Driven Safety, Efficiency and Green

In Finland, we are challenged with too long distances and too narrow freight and passenger flows. Challenges are tackled by data, innovations and optimization in every level.

A DIGITAL LEAP IN PARCEL TRAFFIC, CGI & MATKAHUOLTO



GERMAN CITY BECOMES FRONTRUNNER THROUGH SUSTAINABLE SOFTWARE FROM FINLAND, VEDIAFI





# Finnish Excellence in Mobility “One stop shop”

<http://www.futuremobilityfinland.fi/>

Your “One Stop Shop” for latest news, pilots and posts from Finnish mobility ecosystem





# ECOSYSTEMS TO ACHIEVE OUR SUSTAINABLE FUTURE

## SMART AND GREEN PORTS FROM FINLAND

#FINLANDWORKS

## FINNISH AVIATION LANDSCAPE

Global Innovation Partnership Program (GIPP)  
Sustainable Manufacturing Finland Program

BUSINESS  
FINLAND  
OK

## FINNISH SOLUTIONS FOR NEW SPACE ECONOMY

#FINLANDWORKS

## SMART AUTOMOTIVE AND MOBILITY SOLUTIONS FROM FINLAND

#FINLANDWORKS

## FINNISH SOLUTIONS FOR SMART SHIPS

COMPROMISING SUPPLYING  
EXPERTISE WITH STATE OF  
THE ART INNOVATION AND  
SMART SOLUTIONS FOR  
THE FUTURE OF SEAFARING

#FINLANDWORKS

## FINNISH SOLUTIONS FOR SITUATIONAL AWARENESS

#FINLANDWORKS

## SUSTAINABLE CAR SOLUTIONS FROM FINLAND

#FINLANDWORKS

## RAIL SOLUTIONS FROM FINLAND

**TRANSPORT SECTOR**  
Sustainable Growth Program



FUTURE MOBILITY  
**FINLAND**

[www.futuremobilityfinland.fi](http://www.futuremobilityfinland.fi)



# SETTLE DOWN FOR SUCCESS IN & WITH FINLAND

**#1**

**DESI INDEX**  
Digital Economy  
and Society  
Index 2022

**#1**

**BEST AVAILABILITY OF  
LATEST TECHNOLOGIES**  
WEF Global  
Competitiveness  
Report 2017–2018

**#1**

**BEST BUSINESS  
ENVIROMENT  
IN THE WORLD**  
Global Innovation  
Index 2019

**#1**

**HAPPIEST  
COUNTRY**  
5th time in a Row  
The World  
Happiness Report  
2023

**#1**

**IN SUSTAINABLE  
DEVELOPMENT**  
Digital Economy  
and Society  
Index 2022

**INNOVATION  
CHAMPION**

The Consumer  
Technology Association  
(cta)<sup>™</sup> 2023





# YOUR CONTACT TO FINNISH EXCELLENCE IN MOBILITY

Transport Sector Sustainable Growth  
Program

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