

FUTURE OF AUTONOMOUS TRANSPORT IN BALTIC SEA REGION



AUGUST 27, 2020



TALLINN, ESTONIA

THE FUTURE IS NOW



Tallinn
Transport Department



EUROPEAN UNION
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The Future of Autonomous Transport in Baltic Sea Region conference 2020

The event looked into the obstacles and drivers for society to move towards autonomous publicmobility. The industry, policymakers and cities were invited to join the Sohjoa Baltic (Interreg BSR) project's finalizing conference. The event was held live in Tallinn and streamed online. Majority of the speeches were given pre-recorded.

The hybrid model event production was carried out by Tallinn Transport Department (Estonia) and Metropolia University of Applied Sciences (Finland).

On site, there were up to 100 delegates from Estonia, Latvia, Lithuania and Finland. Covid-19 travelling restrictions were effective and guest safety procedures taken into account.

This document contains the conference agenda and speaker biographies.

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Conference agenda

Registration open at 11.00 – Proto Invention Center, Peetri 10, Tallinn.

Welcome and key notes

- 12.00 – Welcome by moderators **Tanel Talve & Milla Åman Kyyrö**
- 12.15 – Opening words, City of Tallinn deputy Mayor **Andrei Novikov**.
- 12.30 – Key Note, [Henrik Hololei, Director-General for Mobility and Transport](#).
- 12.45 – Key Note, [Jacob Bangsgaard, CEO ERTICO ITS-Europe](#)
- 13.00 – 14.00 Lunch

1st session: Autonomous transport in the Baltic Sea Region

- 14.00 – Interview with operators of autonomous transport in Baltic Sea Region, [Clément Delbouys, Easymile](#) & [Damien Guerrero, Navya](#)
- 14.15 – [Legal framework in Baltic Sea Region](#): [Matthias Hartwig, IKEM](#), Berlin
- 14.30 – Using artificial intelligence to automate transportation operations: Chief Scientific Officer, [Samuel Pelletier, Blaise Transit](#)
- 14.45 – User Experience of pilots in Sohjoa Baltic, [Sami Mäkinen, FLOU](#), Helsinki
- 15.00 – First Estonian Self-Driving Vehicle Iseauto: [Raivo Sell, TalTech](#)
- 15.15 – Autonomous fleets as part of the public transportation: **Renske Martijnse-Hartikka**, Forum Virium Helsinki

15.30 – 16.00 coffee break

2nd session: Future transport

- 16:05 – Building the sustainable future of urban transport: [Sandra Särav, Bolt](#)
- 16:25 – Shaping urban mobility Together: [Chong Lee, Volkswagen Group Urban Solutions](#)

16:50 – Industry and investments: How to upscale the industry and what is the role of ecosystems?

- Moderator: Tanel Talve
- Panelists:
- [Kristjan Maruste, Tuul/COMODULE](#)
- [Sandra Särav, Bolt](#)
- [Gaspar Anton, ITS Estonia, EyeVi Technologies](#)

17.20 – How can we make robot buses helpful for public transport?

- Moderator: Milla Åman Kyyrö
- Panelists:
- [Marten Kaevats, Government Office of Estonia](#)
- [Raivo Sell, Iseauto the Estonian robot bus project](#)
- [Anssi Krooks, Proxion](#)
- **Pirko Konsa**, ITS Estonia, Modern Mobility
- 17.50 Closing words: Tanel Talve & Milla Åman Kyyrö

Afterwork: 18.00 -21:00 Doors open to cocktails and networking at Proto

The Venue | August 27th, 2020 | From 11.00 until 21.00 Proto Invention Factory – how to get there?
Check instructions from [proto.ee website](https://proto.ee).

Henrik Hololei, European Commission



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Henrik Hololei is the Director-General for Mobility and Transport in the European Commission. He is an economist by training and holds degrees from Tallinn Technical University and Aarhus University in Denmark.

He held various positions in the Estonian Government Office between 1995 and 2004. He was mainly responsible for coordinating the work for the Estonian accession to the European Union. In 2001-2002, he was Minister of Economy.

In 2004, he moved to the European Commission as Head of Cabinet of Vice President Siim Kallas until 2013, when he became Deputy Secretary General.

He is the key note speaker at the Future of Autonomous Transport conference in Tallinn on 27th August 2020.

[Learn more about Mobility and Transport in the EC](#)



Jacob Bangsgaard is the CEO of ERTICO, a multi-sector platform with 120 partners and with headquarter in Brussels, Belgium.

Mr Bangsgaard was from 2010-2016 Director General of FIA Region I. Before becoming Director General he worked as Director of International Relations at the FIA Foundation. He worked for ERTICO from 2001-2006 as Director of International Affairs and communications responsible for the international deployment support on markets like China, India, Russia, and Brazil. He has also represented mobility interests for a Danish regional authority and he worked for two years in the European Commission Transport Directorate.

Jacob Bangsgaard is President of the MaaS Alliance and Board member of INATBA aisbl. He was on the Board of Euro NCAP from 2010-2016 and Secretary General of the Belgian association eSafetyAware from 2009-2016. Mr Bangsgaard is a Danish national with a university background in international economics.

Clément Delbouys , Easymile

Clément Delbouys is the EasyMile Head of Sales for Western and Northern Europe and MEA. He holds a MSc in Big Data and an Advanced Master in Sales of the French National Institute of Applied Sciences.

He started his career working for the Public Transit Operator of Toulouse, France before he joined EasyMile in 2016. Since then, he helps the growth of autonomous shared mobility, the ideal complement to the public transit.

He shares views on the role of technology developers and service providers at the Future of Autonomous Transport conference in Tallinn on 27th August.

[Learn more about Easymile](#)

Damien Guerrero, Navya



Damien Guerrero is the Area Manager Nordics & Baltics, being in charge of the development of Navya's activities in the region. He has Master's degree in International trade at the university of Aix Marseille, France.

He will share knowledge on the role of autonomous transport operators from Navya's perspective in the Baltic Sea Region. He also acts as a panelist to discuss how to upscale the industry and what is the role of ecosystems in this development.

[Learn more about Navya](#)



Matthias Hartwig is lawyer by education and head of the Mobility Division at IKEM since 2014. He is currently responsible for various projects in the fields of decarbonization and digitalization of traffic, especially on automated and connected driving. Aim of his research is integrating new technologies into the legal, administrative, and economic framework. He studied Law and Economics.

He enlightens the legal framework concerning driverless driving in European landscape at the Future of Autonomous Transport in Baltic Sea Region Conference, on 27th August, in Tallinn.

[Get to know IKEM.](#)



Dr. Samuel Pelletier is Blaise Transit's Chief Scientific Officer and an operations research (OR) and machine learning (ML) scientist by training. His expertise lies in the application of OR and ML to transportation planning problems.

He completed his Ph.D. at HEC Montréal in decision science, where he received the best thesis award of 2019 by the university. He has published several papers in prestigious scientific journals such as Transportation Science, Transportation Research Part B & Part C that propose decision tools to deal with the integration of electric vehicles in city logistics.

[Learn more about Blaise Transit](#)



Sami Mäkinen is a solution architect at FLOU Solutions Ltd. He develops new methods and tools for the deeper understanding of transportation systems and to support decision-making processes.

Mäkinen's background is in Information Sciences, and his core competences include mathematical modelling and quantifying complex phenomena, processes and their governing dynamic effects.

Mäkinen will present the user experience study analysis from automated electric shuttle pilots conducted in cities of Baltic Sea Region (2018-2020).

[Learn more about FLOU](#)



Raivo Sell is Senior Researcher Scientist, Mechanical and Industrial Engineering at Tallinn University of Technology (TalTech). He received the Ph.D. degree in Product Development from Tallinn University of Technology in 2007. His research interest covers early design issues on mobile robotics and self-driving vehicles.

He is running Autonomous Vehicles lab-competence center in TalTech as a research group leader with strong experience and research background in mobile robotics and self-driving vehicles.

Raivo Sell has been visiting researcher in ETH Zürich, Aalto University and most recently at Florida Polytechnic University in the US. Recognized as a Chart Engineer and International Engineering Educator: ING-PAED IGIP he is an author of several books in the IoT and practical robotics and has been an educator of robotic teachers in vocational and higher education.

He will introduce the conference audience to the first Estonian self-driving vehicle, Iseauto.

[Learn more about Iseauto](#)

Sandra Särav, Bolt



Sandra Särav is the Head of Sustainability at Bolt, one of the fastest-growing transportation platforms in Europe and Africa with more than 30 million passengers in over 35 countries. Bolt has been nominated the TOP3 fastest growing European company two years in a row by Financial Times. In 2020, it was also nominated Europe's hottest unicorn. Sandra's task is to make sure that while growing rapidly, Bolt also acts sustainably and becomes carbon zero in its operations by 2030.

Prior to Bolt, Sandra served as the Global Affairs Director in the Government CIO Office of Estonia, leading Estonia's global ICT relations, and was part of Estonia's EU Presidency team in 2017.

Sandra is currently also a junior researcher at TalTech where she lectures on the topics of Legal Framework of e-Governance as well as EU law.

She talks about building the sustainable future of urban transport at the Future of Autonomous Transport conference in Tallinn on 27th August.

[Learn more about Bolt](#)

Chong Lee, Volkswagen Group

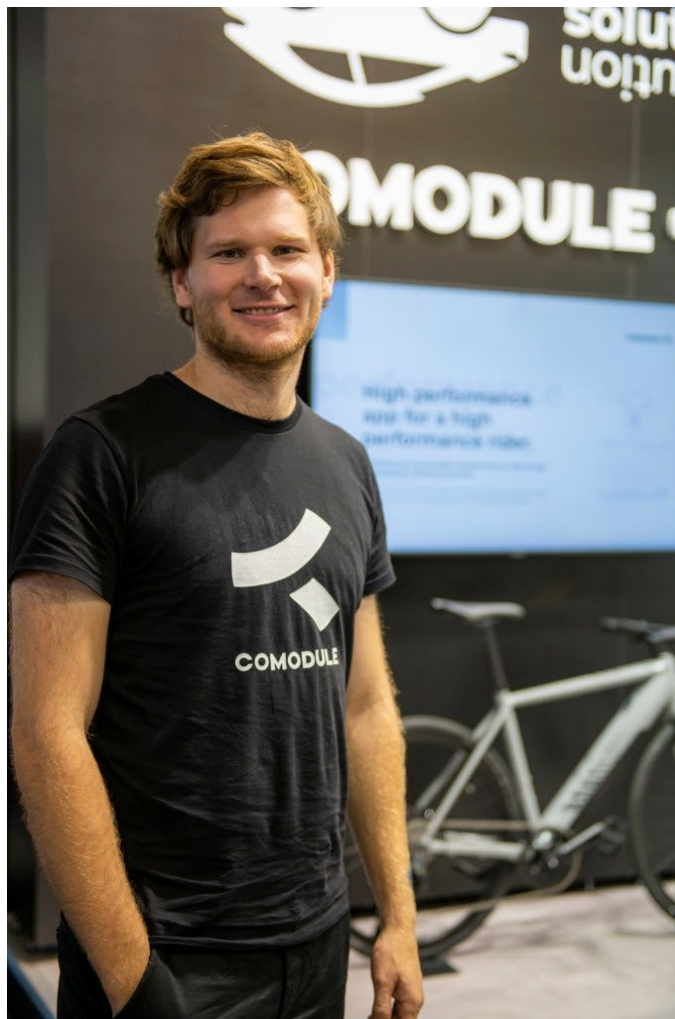


Chong Lee

is the Director, Head of Urban Solutions at Volkswagen Group. His objective to engage with cities and other relevant urban stakeholders to jointly improve the urban mobility.

He is the key note speaker at the Future of Autonomous Transport conference in Tallinn on 27th August 2020.

[Learn more about Volkswagen Group](#)



Kristjan Maruste is a tech-entrepreneur (honored to be selected Forbes 30 Under 30 Europe), the Co-Founder and CEO of COMODULE. Prior to starting his own company, he was the faculty advisor and project manager of an engineering and product development project called Formula Student. Maruste lead the development and construction of 6 Formula Student racecar prototypes, including a full-electric solution. Maruste and his team proved to be one of the best young automotive engineers in the world by ranking TOP5 amongst 500 teams globally.

From the electric racing car development experience, Maruste started to commercialize the technology by co-founding Prismattery LLC. The company focused on the development of energy storage solutions for electric vehicles and renewable energies. Later Maruste and his team developed a data monitoring platform for electric vehicles. COMODULE creates a universal operating system for light electric vehicles (e-bikes, e-kick-scooters and e-scooters). The company manufactures and offers electronic telematics hardware, mostly for fleet operators and vehicle manufacturers. COMODULE has connected over 200 000 e-scooters and has helped to launch fleets in over 60 cities worldwide. This year COMODULE launched its own developed and assembled kick-scooters called Tuul. Tuul is the first Estonian-made, most durable, and eco-friendly kick scooter on earth. Maruste is one of the panelists discussing how to upscale the industry. [Learn more about COMODULE](#)

Gaspar Anton, EyeVi Technologies



Gaspar Anton is the founder and CEO of EyeVi Technologies. EyeVi is a 3D mapping technology spin-off start-up that is empowering infrastructure digitization and building the future of transportation ecosystems. It enables cost effective and scalable mapping platform without requiring upfront investment. Currently operating with active projects in Estonia, Finland, U.S.A and Poland.

Gaspar is also the founding member of ITS Estonia and preparing Estonia for the next Tiger Leap in Digital Transformation. From his decade long experience of working with road authorities and their digital challenges he is now formulating the expertise into a testing ground to showcase what can be achieved by combining 3D data, AI and predictive road maintenance analytics platforms.

He is one of the panellists at the Future of Autonomous Transport conference in Tallinn on 27th August.

[Learn more about EyeVi Technologies](#)



Marten Kaevats is the National Digital Advisor in the Government Office of Estonia or unofficially the Chief Innovation Officer of Estonia. He, being responsible for information society and innovation in Estonia, is working on upgrading the interoperability system architecture of his country. The goal of all his work is to build adaptable and future-proof governance architecture, while acknowledging well that predicting that future in its complexity is impossible. Estonia, being a prime example of distributed governance architecture based on human-scale values where every end user is in control of their data, is perfect in testing out new forms of governance suitable for the 21st century.

He legalised the testing of self-driving vehicles on all public roads in Estonia in 2017 and is the initiator of the Estonian AI policy. He has a master's degree in architecture and city-planning from the Estonian Academy of Arts. Marten joined the Estonian governmental talent programme in 2015. He studies the impact of various scalable technologies on the socio-spatial behaviour of individual people and communities and describes his discipline as governance architecture.

Before joining the government, he was the chief of Tallinn Architectural Biennale 2015 "Self Driven City" curatorial team. Marten is also an active member of several civil society organisations; he was also one of the founding members of the Uue Maailma Selts (New World Society) in 2007 which triggered reformatory changes in participatory democracy and a revolution in civil society, also he founded and contributed to the creation of open source community web platform Community Tools, established in 2008.



Anssi Krooks is the Business Director at railway consulting company Proxion in Finland, with the academic background in satellite navigation and computer vision with M.Sc (Tech.) degree in Geoinformatics from Aalto University, Finland.

Anssi has been leading the digital transformation of the Finnish railway system since 2016. He acts as a panellist to discuss how the cities' public transport benefits from autonomous solutions.

[Learn more about Proxion](#)