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VERNE'S PATHWAY AND MILESTONES FROM 2011 TO 2026



THEN:

- Verne develops the transport systems with the means of science
- Verne is networking with actors nationally and internationally raising important research areas for the society
- With its education Verne is securing that graduates from TUT are respected M. Sc.'s (Tech.) in the field of transport

NOW:

Mission

Verne promotes developing a sustainable transport system and logistics through research, education activities and societal impact.



THEN:

- Verne is the most significant transport research centre in Finland, also recognised internationally
- Verne is proactive, future-oriented and strongly interacting with students and other interest groups
- Verne works with relevant issues and is therefore a desired place to work

NOW:

Vision

Verne is societally impactful and internationally renowned research centre in transport and logistics. Verne educates respected professionals who understand societal needs and promote sustainable transport and logistics. Societal impact origins from proactive, future-oriented and independent research in collaboration with stakeholders. Verne's staff do meaningful work in encouraging and enabling community.



THEN:

- Bridge between the scientific community and society
- Research covers the whole transport system
- Specialises in understanding of the system – analysing and managing the transport system as an entirety
- Educates about half of the Masters of Science (Eng.) in transport sector in Finland

NOW:

Verne's role

- Specialises in research on the systems – analysing and managing the transport system as an entirety
 - Participates in both scientific and societal discussion and development
- Educates about half of the masters in transport sector in Finland and logisticians who understand freight transport
 - Is the most inviting place for transport doctoral studies in Finland

Being a Vernian

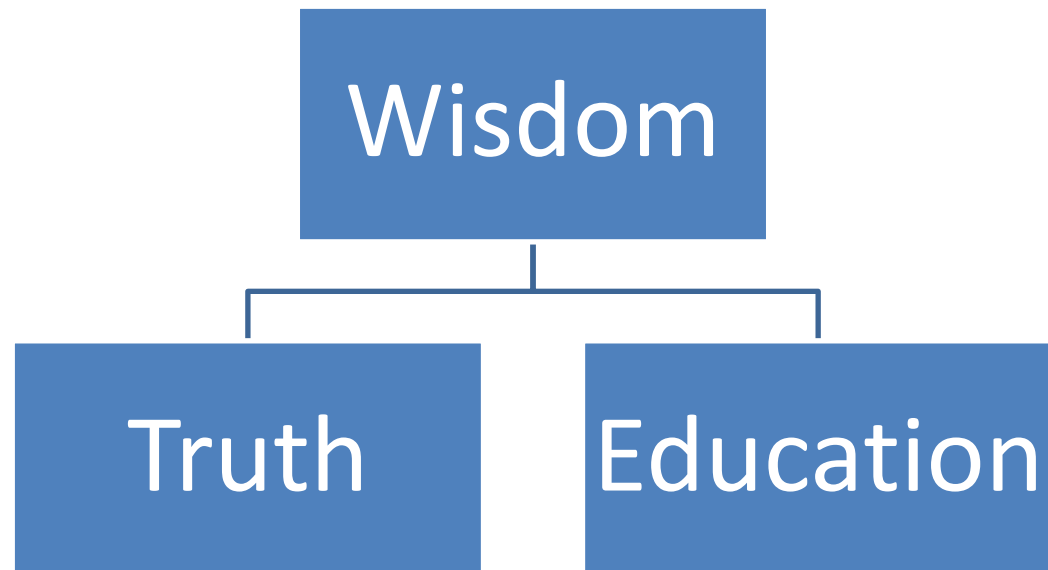
Personnel:

2 Professors,
1 Lecturer, 2 University instructors,
3 Postdoctoral researchers,
11 (Doctoral) researchers,
3 Master's thesis workers,
1 course assistant.

- We, alike Jules Verne, see ourselves as research-based visionaries. We give the decision makers analytical information and new points of view in the field of transport. Together with the actors of the field, we want to build a better future of transport.*



Photograph of Jules Verne
by Félix Nadar, circa 1878



What has changed?

Tutkimusprojekteja 2015-2016: SOHJOA – robottibussit, 6aika-ohjelma, Metropolia, Aalto, 55000 €

JEE - Joukkoliikenteen edistämisen parhaat Eurooppalaiset käytännöt, WSP, 36000 €

Liikenteen CO2-päästöjen vähentäminen (2 projektia), Ilmastopaneeli, HY, SYKE, 100000 €

Kuljetusyritysten vastuullisuusmalli (4 projektia), Trafi, 150000 €

WHOLE – Kokonaisvaltainen kaupunkirakenteen resurssitehokkuusmalli, VNK, YM, Liikennevirasto, TTY RAK/ARK, 110000 €

Tampereen Messujen liikenne- ja pysäköintiselvitys, Tampere, 18000 €

Asiakasarvon hallinta toimitusketjussa, Tekes, LUT, VTT, 200000 €

Liikenteen markkina, Trafi, 80000 €

Julkaisuja 2015-2016: 2 kpl jufo 2/3, 3 kpl muu kv-kirjaluku/artikkeli, 2 kpl kv-konferenssif, 7 kpl tutkimusraportteja liikennealan virastoille tai vastaaville

Current research projects

Sustainable logistics, emissions reporting and electric cars and trucks

- MADLESS (EU NetZeroCities), zero emission city logistics, 195 000 €, 9/2026
- SECHA (Business Finland), electric truck and car scenarios and charging infrastructure, 300 000 €, 6/2027
- Liikenne2045 (Climate Panel), emission and cost scenarios until 2045, 70 000 €, 9/2027

Sustainable mobility and modal shift

- FinnCycle1+2 (Finnish cities), cycling infrastructure planning and winter maintenance, 290 000 € + 140 000 €, 10/2028
<https://www.tuni.fi/fi/tutkimus/finncycle>
- DeMo (Business Finland), regional traffic models and [emissions scenario tool](#), 275 000 €, 5/2026
- SmartRail3 (Business Finland, VTT), effects of tram to citizens and businesses, 200 000 €, 12/2026
- ECADEC (Business Finland), electric vehicle charging in energy communities, 80 000 €, 10/2026
- ChiFamTravel (Research Council of Finland), promoting sustainable modes among children and families, 400 000 €, 8/2028
- PlanB (Kone Foundation) good living environments for people and pollinators, 300 000 €, 12/2028

Automated public transport

- EMBRACER (Interreg Europe), supporting automated bus pilot and SUMP development in partner cities, 176 000 €, 5/2027 <https://www.interregeurope.eu/embracer>
- metaCCAZE (Horizon Europe), operating automated buses for 12 months, 682 000 €, 12/2027 <https://www.metaccaze-project.eu/>

Publications: 10+ peer-reviewed scientific articles per year

Let's organise a conference – see where it leads



Verne's education

- **Sustainable Urban development B.Sc. from 2020**
- **Sustainable Transport M.Sc. from 2023**
- **ENACT Education Network for Automated and Connected Transport for Sustainable Cities from 2023**
- **Master's theses 10-15 per year, almost half by international students in 2025**
- **Doctoral dissertations:**
 - Heikki Liimatainen 2013
 - Kalle Vaismaa 2014
 - Timo Liljamo 2020
 - Roni Utriainen 2021
 - Hanne Tiikkaja 2024
 - Mehdi Jahangir Samet 2026
 - Henri Kervola 2026

Verne's university community impact

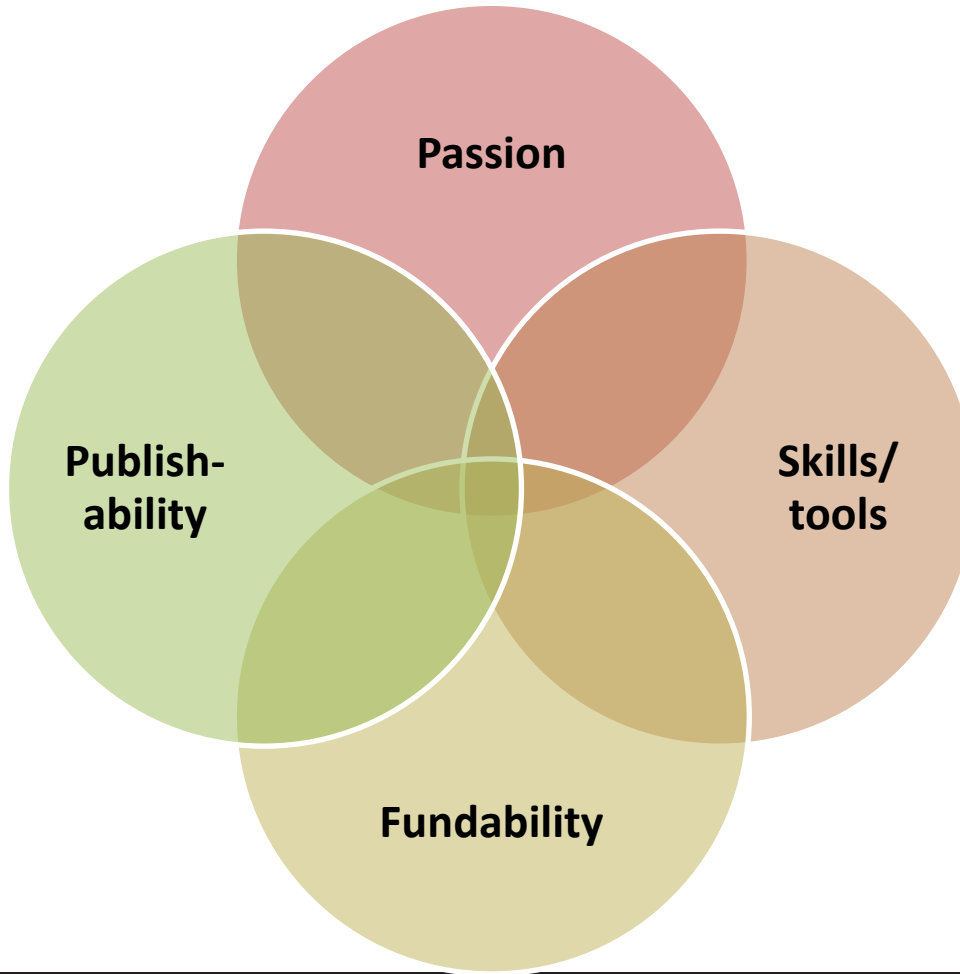
- **University's Data Protection Group**
- **Degree Programmes' Planning Groups**
- **University's Education Council**
- **Faculty Council**
- **Faculty Vice Dean**
- **Finnish Publication Forum**

Verne's societal impact

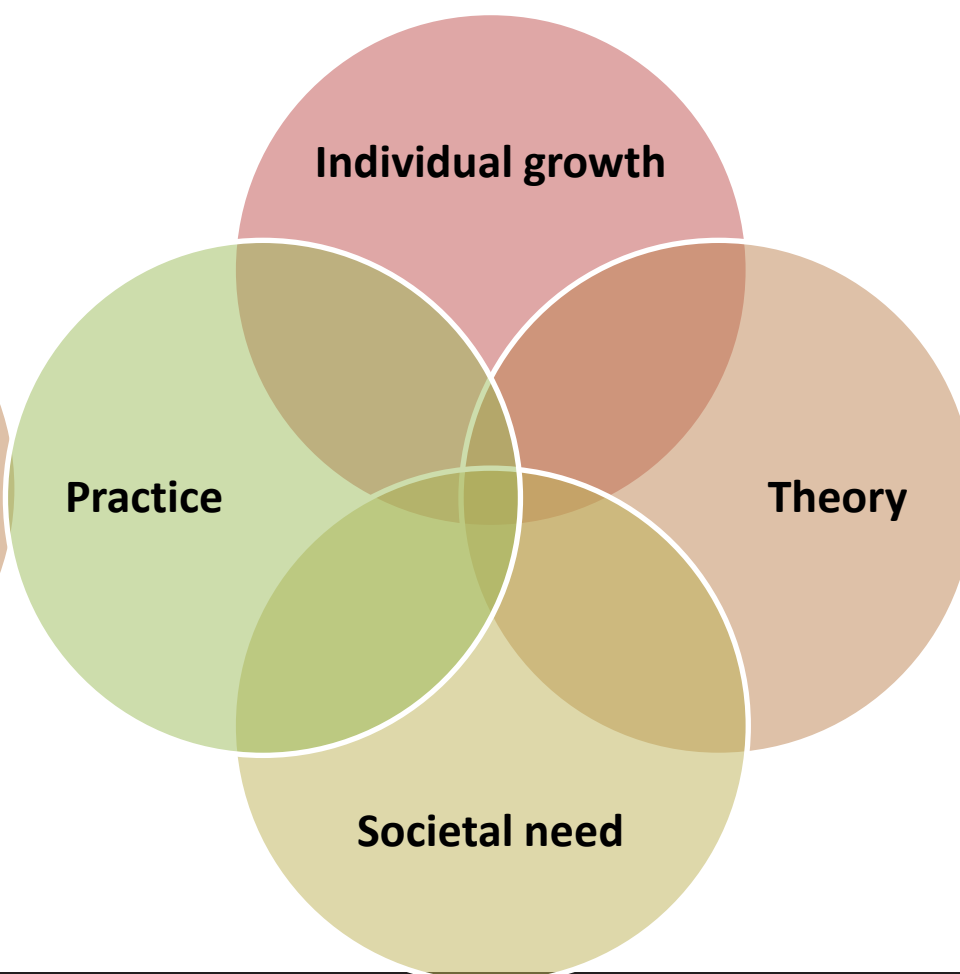
- **Memberships in**
 - Finnish Climate Panel
 - Ombudsman for Children's Research Working Group
 - IPCC Finnish working group
 - Ministry of Transport and Communication's working group on Automated Transport Regulation
 - Ministry of Transport and Communication's working group on Logistics Digitalisation
 - The Nordic Road Association (NVF)
 - Finnish Crash Data Institute's expert group, Road safety forum in Tampere Region
 - ITS Finland, ITS Factory,
 - Finnish Association of Purchasing and Logistics (LOGY)
- **>10 invited presentations for cities, regional governments, political parties**
- **>15 appearances per year in national media (YLE radio+TV, HS, STT)**

Where do we go from here?

Research



Education



Together towards triple vision zero!

