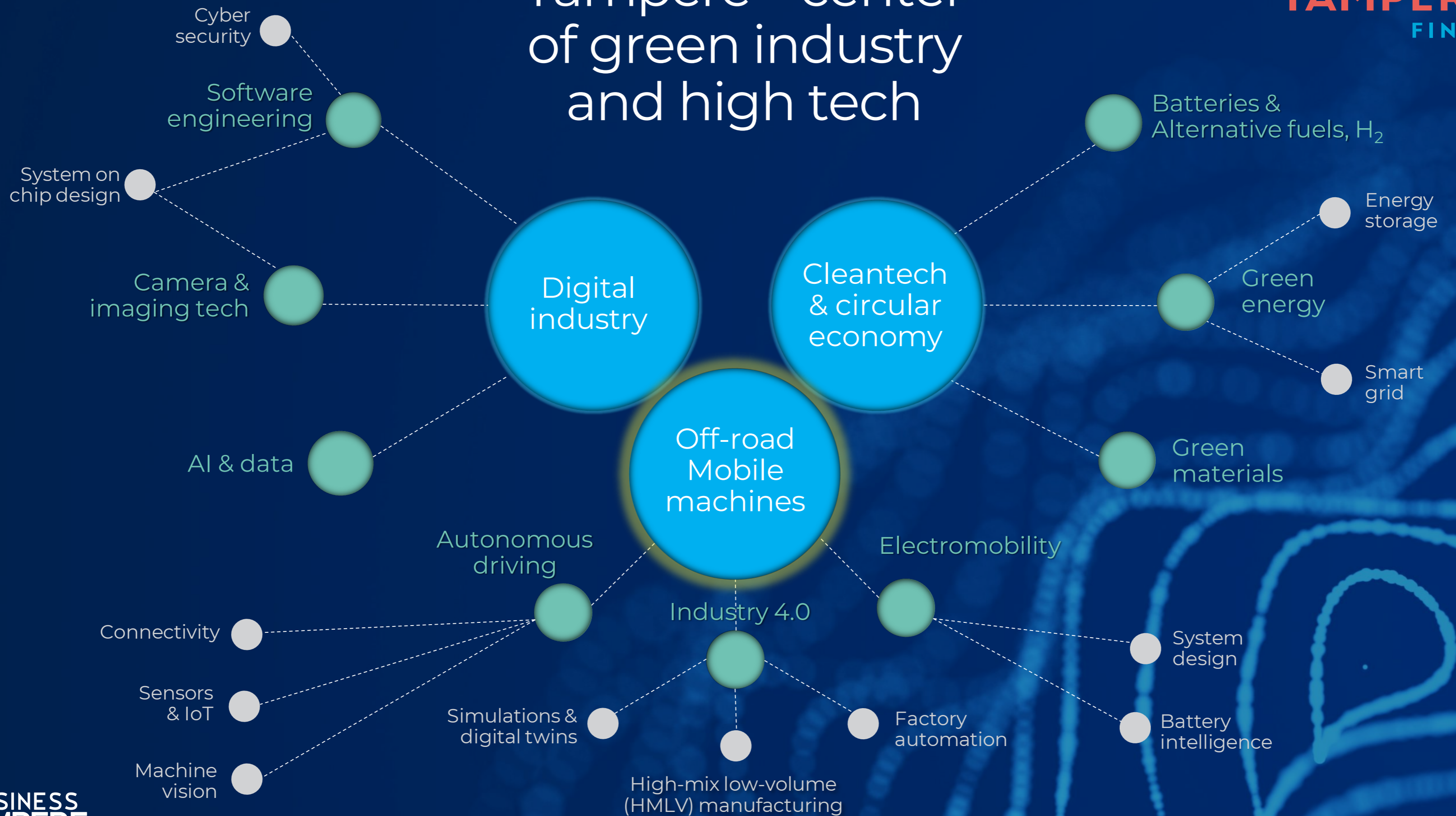


Tampere Automotive Cluster

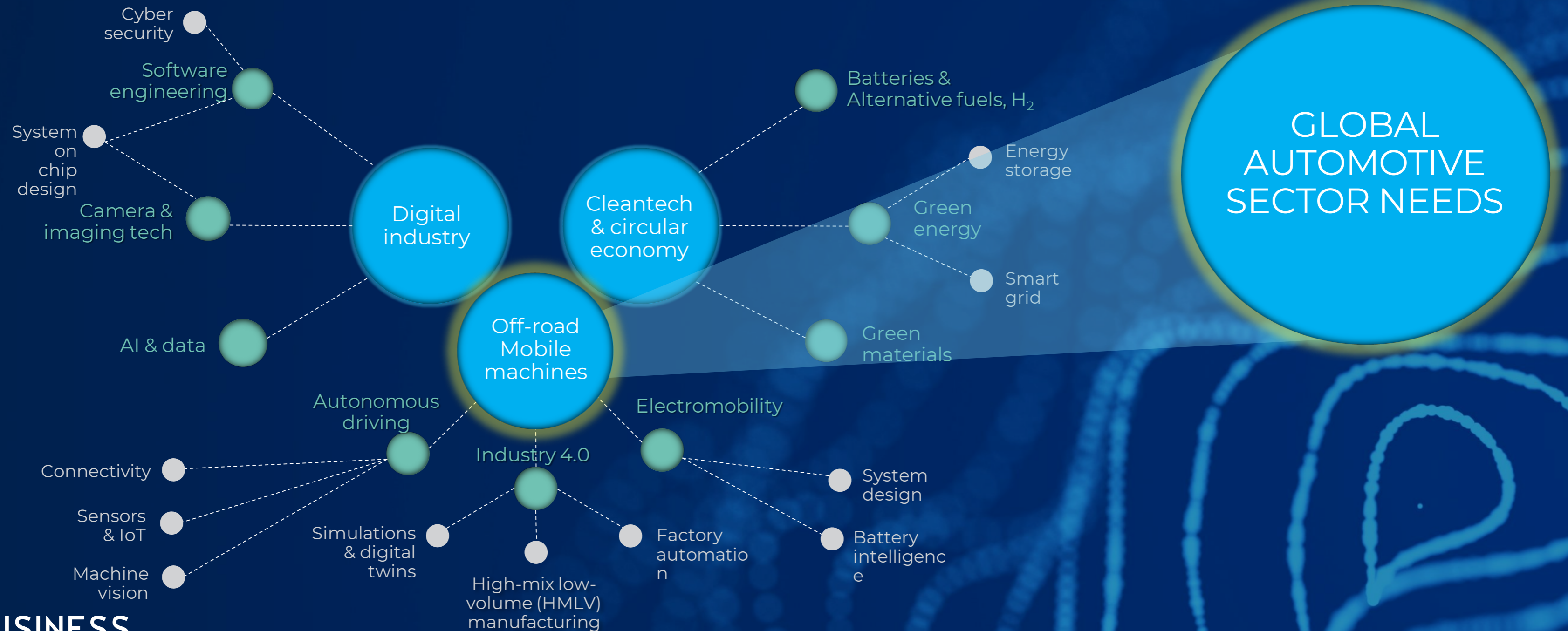


Ari Lylynoja
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Tampere – center of green industry and high tech



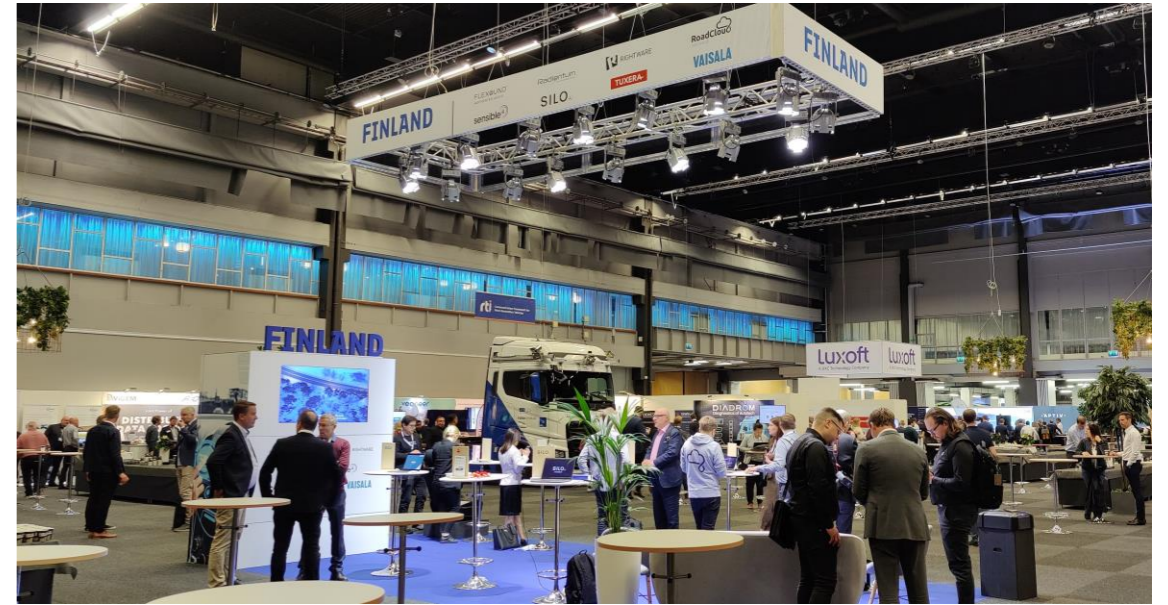
Same knowhow transferred to automotive sector!



Tampere Automotive Cluster

**One of the top automotive hubs in Finland
+130 organizations, +200 members:
high-tech companies, academia and research institutes**

- Promotes Tampere region as one of the top automotive development hubs in Finland
- Arranges networking, partner scouting and matchmaking events
- Collaborates with international mobility clusters
- Help members in finding new business and collaboration opportunities



TAC & Automotive events

Intelligent Solutions for Automotive

A close-up, low-angle shot of a blue car's front wheel and tire. The wheel has a multi-spoke design, and the tire is black with visible tread. The car's body is a vibrant blue, and the background is a blurred white surface, possibly a showroom floor.

- Digital cockpit
- Autonomous driving, ADAS
- Connected car
- Data analytics, AI
- Automotive software
- Advanced engineering
 - electronics, sensors, LIDARs, cameras,
- Smart mobility
- and more..

INTELLIGENT SOLUTIONS
FOR AUTOMOTIVE

CONNECTIVITY, ANTENNA TECHNOLOGY **ublox**

CoreIoT **Radientum** **STEALTHCASE** **CONFIDEX** **unseen**

COMPONENTS

tamware **nmc** **Leomuovi Group** **GRANITE DEVICES** **JOUKA** **TEKNOWARE**

EV CHARGING BATTERY MGMT ENERGY SOLUTIONS

DRIVE **echargie** **Bittium** **KEMPOWER** **AKKURATE+**

SMART MOBILITY SOLUTIONS
ADVANCED ENGINEERING

ROADSCANNERS **swarco** **ELOMATIC** **ACTIONECO** **robo** **SAFETY4TRAFFIC** **DA GROUP** **Etteplan** **ALSO** **SITOWISE** **UNIGRAF** **ITS Finland** **eSend** **EVA Global** **Tampere University** **tath** **vedia** **COMATEC** **infoTripla** **VINKA** **robots.expert** **KIHO**

AUTOMOTIVE GLAZING

glaston **NSG GROUP**

SENSORS, ELECTRONICS

FORCIOT **CANATU** **MELUTA** **CoreHW** **TACTOTEK** **NORDIC INERTIAL**

AUTONOMOUS DRIVING, ADAS

UNIKIE **VTT** **tietoevry**

DIGITAL COCKPIT INSTRUMENT CLUSTER

BHTC **RIGHTWARE** **here** **Qt** **VAPO** **TAUCHI**

LIDARS, CAMERA TECHNOLOGIES

AAC Technologies **NOISELESS IMAGING** **AXON** **modulight** **GRUNDIUM**

AUTOMOTIVE SW, DATA ANALYTICS, AI, CYBER SECURITY

BITWISE **SOLITA** **Qentinel** **Bittium** **INSTA** **VINCIT** **FUTUR:OT** **tietoevry** **futurice** **SIILI AUTO** **GOFORE** **VAISTO** **crosshill** **Microsoft** **RCPSW** **haltu** **exafore** **ATOSTEK** **irdeto** **SYMBIO** **SILO AI** **eficode**

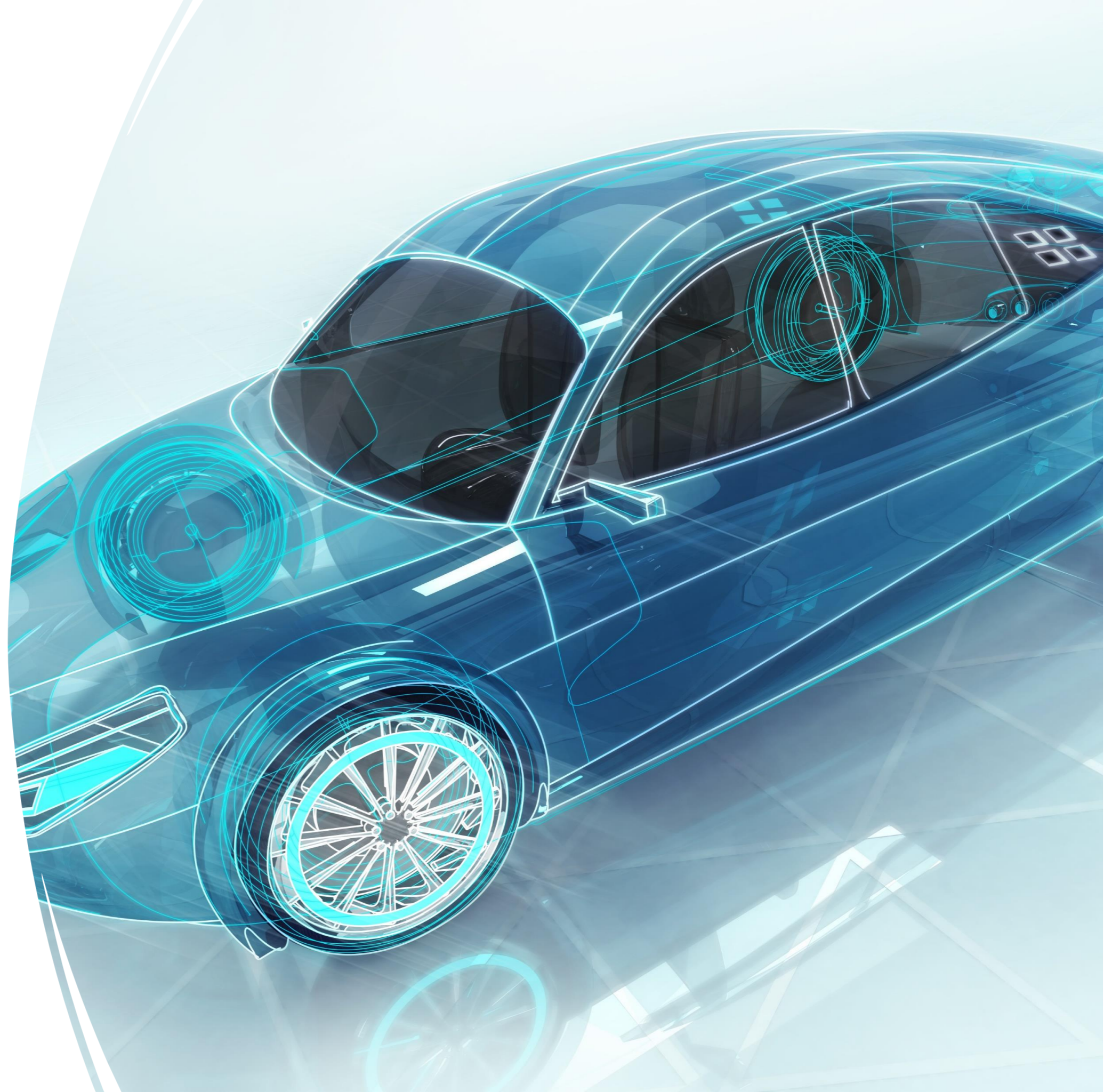
CONTROL SYSTEMS, AIR QUALITY MONITORING, TESTING, SIMULATION

stepone tech **DEKATI** **CROSSCONTROL** **NOVATRON** **TOPTESTER** **OPTOFIDELITY** **DELFOI**

INTELLIGENT TYRES

nokian TYRES

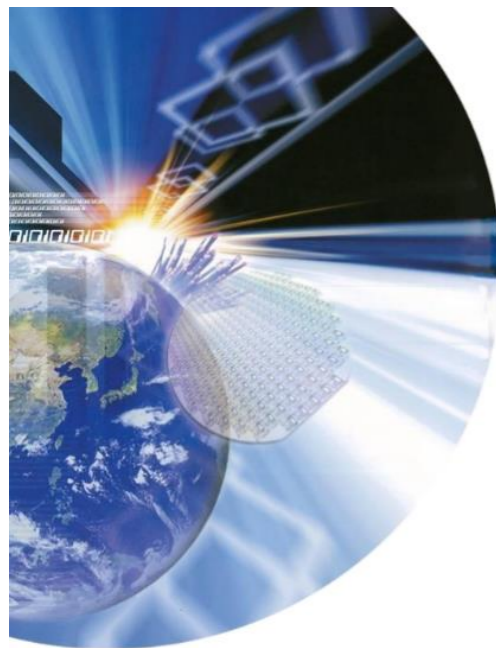
Key activities



Partner scouting events & company visits, matchmaking



- Valeo France
- Volvo Cars Tech Fund
- CEVT
- Magna
- Seiren
- Actia Group
- Hyundai Cradle Innovation Hub
- Koeniggsegg
- ...





Automotive Pitch Sessions

Case Volvo CampX


- Volvo Group – Trucks, Busses, CE, Penta, Energy, Autonomous Solutions, Financial Services, Renault Trucks, Mack Trucks...
- CampX by Volvo Group is a global innovation arena for technology and business transformation.
- Within CampX, Volvo invites partners including customers, startups, suppliers, academia and authorities to collaborate with Volvo Group experts to develop future transport solutions.
- Live pitch sessions
 - Oct 2021 Electromobility
 - Oct 2022 Autonomous Solutions, ADAS




International cluster collaboration

- Introductions, networking, offering reviews
- Visits, joint events
- Opportunities for collaboration

Automotive Solution Center for Simulation e.V.
established 2008



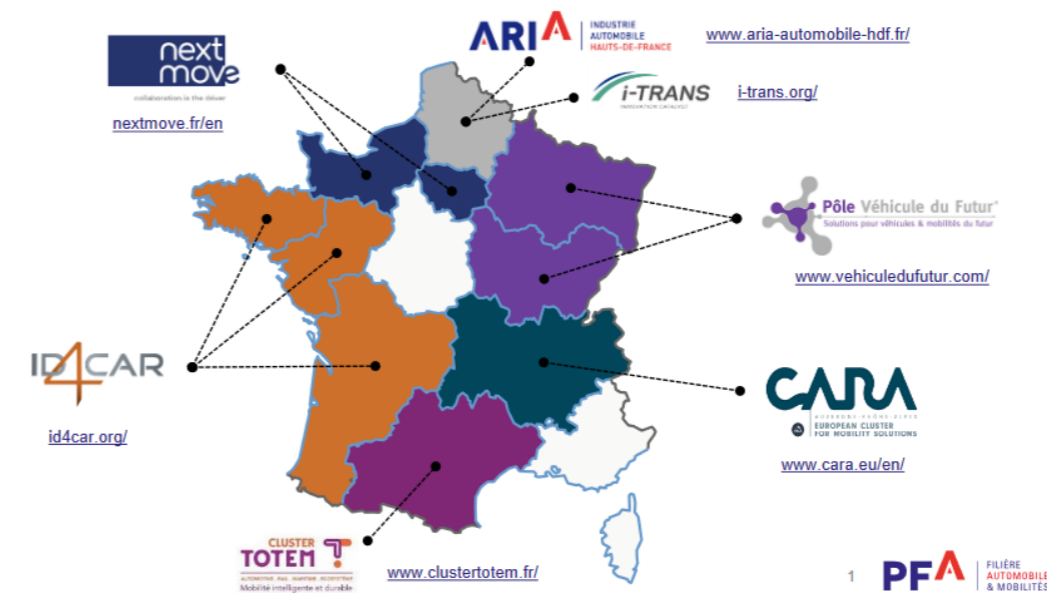


Cross-border Introduction and Cooperation asc(s) / ENVITED Marketplace and Tampere Automotive Cluster




Clúster de la Indústria d'Automoció de Catalunya

Le réseau des pôles de compétitivité automobile et ARIA en France



ORGANIZATION STRUCTURE



MEMBERS

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Pilots & export support

- Germany – 2021
- U.S.A. – 2022
- Canada – 2023
- Spain – 2023

**AUTOMOTIVE
TAMPERE**

Partners
**BUSINESS
FINLAND**



Consulate General of Finland
New York

Hodgson
ATTORNEYS

RENIUS

**BUSINESS
TAMPERE** Finland




KPMG



2021

Workshops

On top of the presentations we will have 3 Workshops BETA CAE, TAC and Cognata.
Please participate in the workshops on-site here in Hanau and online!


Make your choice!

We hope you take home ideas and inspirations for your work in automotive CAE!

© 2021 carhs.training gmbh

carhs
Engineering Engineers



A close-up, low-angle shot of a blue car's front wheel. The wheel features a multi-spoke alloy design with a central hubcap. The tire is black with visible tread patterns. The car's body is a vibrant blue, and the background is a blurred white floor, suggesting an indoor exhibition or showroom setting.

Some members of
Tampere Automotive Cluster

BHTC GmbH Automotive R&D center

The German automotive system integrator **BHTC**, Behr-Hella Thermocontrol GmbH, is one of the world's leading companies in climate control, thermal management and HMI for the automotive industry.

bhtc.com/en/locations/tampere-finland



”

“The local technical expertise and automotive-related ecosystem brought BHTC to Tampere. The region’s software companies understand well the needs of automotive industry and excel in software productisation.”

Vesa Pelli
Managing Director, BHTC Finland



The Škoda ENYAQ iV's central touchscreen - Designed in Tampere.



CES Innovation Award 2023:
Driver Monitoring System With Invisible Camera - Designed in Tampere.

FORCIOT

Advanced sensor solutions

- Solution provider of integrated and connected sensor systems.
- Stretchable electronics solutions can be embedded into car interiors and connected to car systems.
- Invisible touch-based user interface with multi-touch, swipe, press/force and tap functions.

www.forciot.com



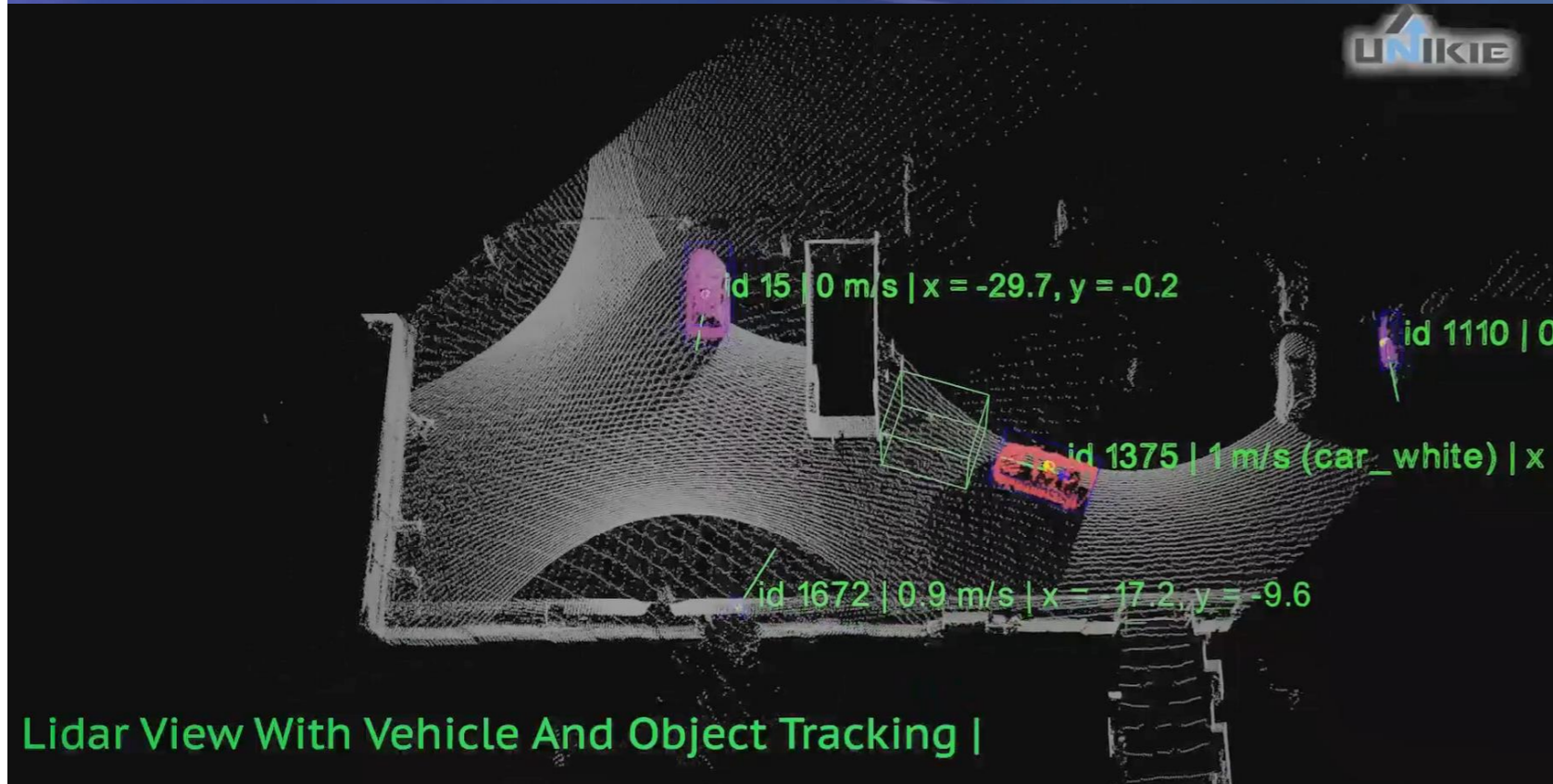
Photos: Forciot



UNIKIE

- Autonomous driving (AD)
- Advanced driver assistance systems (ADAS)
- Control hub (Vehicle mission control platform)
- Driver monitoring system
- Dead reckoning
- Automated valet parking
- Automated factory parking

www.unikie.com



Lidar View With Vehicle And Object Tracking |

SILO_{AI}

Largest private
AI lab in the Nordics



TAMPERE.
FINLAND

SILO AI

- AI-Driven solution provider
- Expertise fields
 - Sensor fusion for autonomous driving
 - Perception, prediction, and planning
 - Computer Vision
 - Algorithm Library

siloi.ai

**AUTOMOTIVE
TAMPERE**



TAUCHI Next Model Future Automotive Interaction

TAUCHI = Tampere Unit for Computer – Human Interaction

ARTO HIPPUA, INDUSTRIAL LIAISON OFFICER
PROF. ROOPE RAISAMO (ROOPE.RAISAMO@TUNI.FI)
TAMPERE UNIVERSITY, FINLAND

Thank you!



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