



Tech Day

European Blueprints
& Leading Industry

European System, Software &
Service Process Improvement
& Innovation



01:06:03

Pop out Chat **People** 27 Raise React View Notes Rooms Apps More

Camera Mic Share **Leave**

Kiyoshi End... Damjan Ek... **Laura Aschbacher** Mikus Zelm... Dirk Mande... HASNA Sim... [Video Feed]

Participants

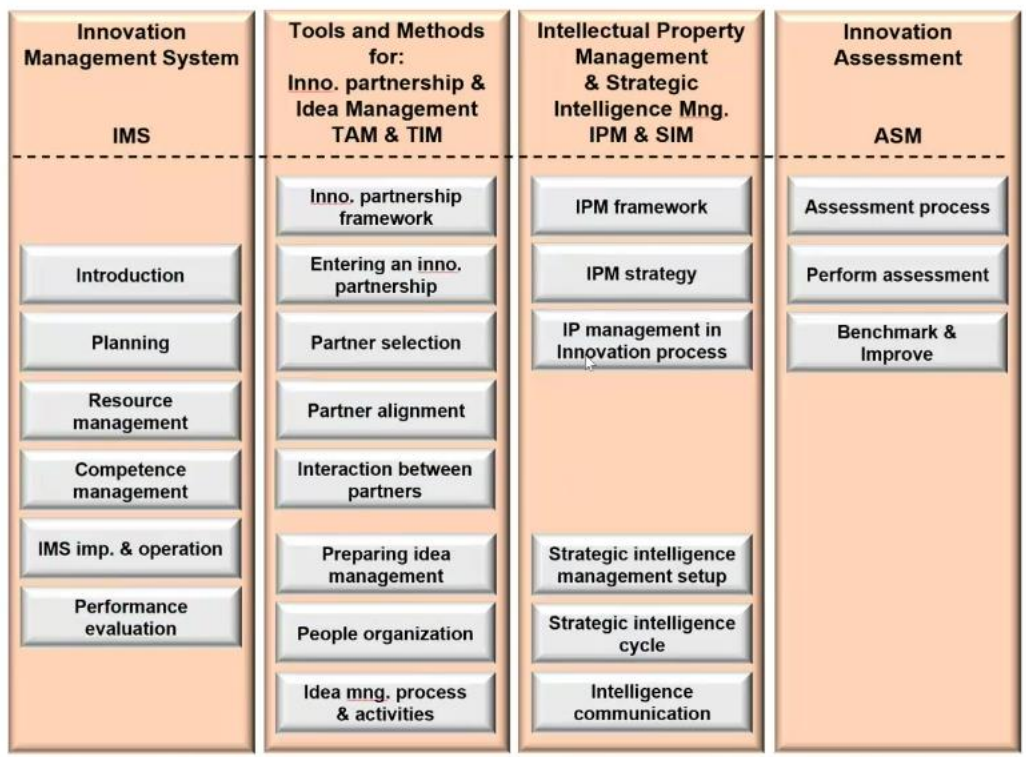
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In this meeting (27) Mute all

- Richard Messnarz (Organiser)
- Andreas Riel
- Bernhard Sechser (External)
- Damjan Ekert
- Dirk Mandery (External)**
- Dominik Feuer (External)
- Geipel Thomas (XC-AS/EPG1) (...)
- HASNA Simona Ralu... (External)
- Horvath Mate (XC/QMM-CE-H...)
- Jørn Johansen (External)
- Kiyoshi Endo (Unverified)

ISO 5600x Process Model



Laura Aschbacher



Participants

Type a name

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- Gulyas, Csaba AVL/HU (Unveri...)
- HASNA Simona Ralu... (External)
- Horvath Mate (XC/QMM-CE-H...)
- Jørn Johansen (External)

Conclusions

The main conclusions are:

- Companies **don't** have the necessary time to invest in innovation
- Companies **lack a business strategy** that includes innovation
- Without the time and focus, **innovation will be ad-hoc** rather than a mastered discipline

Companies don't lack innovative ideas - they lose them

Co-funded by the European Union



Jørn Johansen (External)

01:36:21

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Kiyoshi End... Damjan Ek... Laura Asch... Mikus Zelm... Jørn Johansen (...)

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- HASNA Simona Ralu... (External)

My experiences

Hints

- It can be **difficult to discuss the term "innovation"**
 - It is **everything** – for some organizations
- Use enough time to **design the assessment**, especially if it is the first time for the organization
 - Include management** in the interviews (but not too much)
 - Have interviews with **innovation projects** and people improving the innovation structure
- People **does not like new structure** of something they do not have in mind (like innovation processes). Even though they a moment later address the **need of improvement** in relation to innovation
- Start with an initial **Workshop** to discuss, agree on and identify innovation projects in the organization



n Johansen (External)

01:43:52

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Participant thumbnails: Kiyoshi End..., Damjan Ekert, Laura Aschbacher, Mikus Zelm..., **Stolfa Jakub (Ex...)**, Ravi Bopar..., and a large video feed of a man in a light blue shirt.

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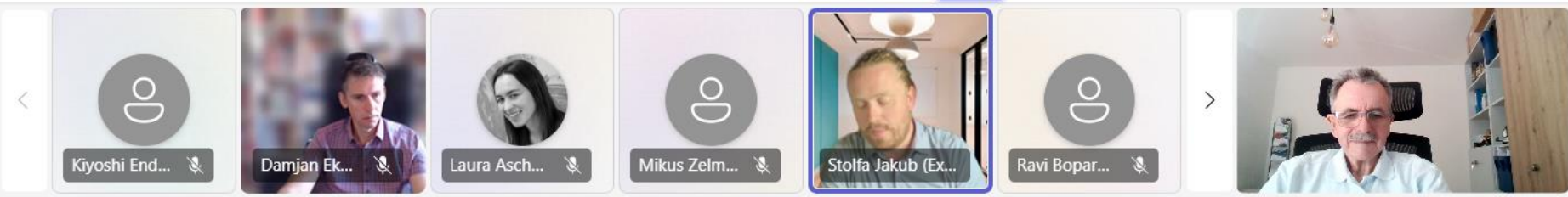
TRIEME
DIGITAL & GREEN SKILLS TOWARDS FUTURE OF THE MOBILITY ECOSYSTEM

Co-funded by the European Union

Sectoral Collaboration on Skills Agenda in the Automotive-Mobility Ecosystem

Dr. Jakub Stolfa, ASA, President, js@skills-alliance.eu

Stolfa Jakub (External)



Participants

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MOBILITY TRENDS

SOCIAL

- Greater boost to digital markets
- Gen Z on the rise
- Mobility solutions in broad sense
- Lack of key competences in the ecosystem
- Digital customization of vehicles and limited editions
- Vulnerable supply chains
- Road logistics facing a perfect storm
- Use of intelligent traffic management systems
- High dependence on US and Asia in the provision of raw materials on strategic components such as microchips
- Conflicts
- EU's unity under pressure
- Legislative framework as the main driver for the transition
- Skills required for the green transition

TECHNOLOGICAL

- Connected vehicles and its use as data generators
- Advance on autonomous driving and transport
- Applied artificial intelligence
- Electric and zero-emission vehicles
- IoT and IIoT Cybersecurity
- 3D printing
- Block chain
- Industrialised machine learning
- Use of humanoid robots
- Advanced connectivity
- Hybrid and edge computing

ECONOMIC AND BUSINESS

- Raw materials as key elements in the economy
- New era of opportunities for entrepreneurs & workplaces
- "Made in China" to "Made in Europe"
- Difficulty of suppliers to answer future challenges
- Enhancing agility and digital usability of value chain
- Globalization and economic dependence
- The increase of energy prices will remain unstoppable
- Demand aggregation platforms
- Power Purchase Agreements
- Green hydrogen as an energy vector
- Energy communities
- Common energy position in Europe

GREEN TRANSFORMATION

- Clean energy
- Energy autonomy
- Energy flexibility
- Rise of circular economy
- Sustainable logistics and delivery
- Decarbonization of business models
- Climate change
- Move towards a more sustainable consumption

Source:

www.automotive-skills-alliance.eu | 3 |

Stolfa Jakob (External)

01:48:35

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Project Information

4-year [ERASMUS+ Blueprint](#) Project (2024 – 2028)

31 project partners from the [Automotive Skills Alliance](#) partnership

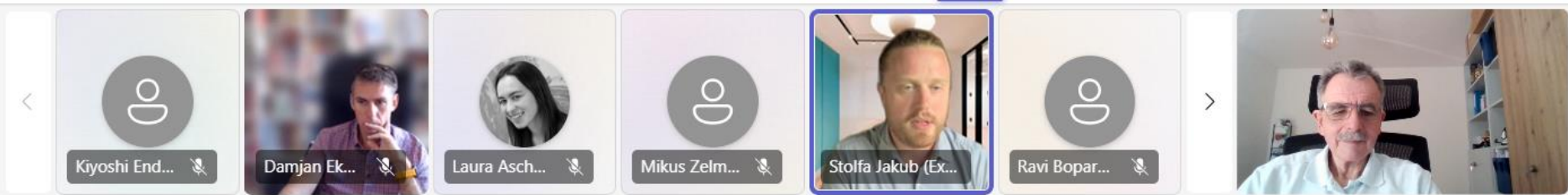


Support skills agenda in the Automotive-Mobility Ecosystem through the Large-scale Pact for Skills Partnership



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

Stofa Jakub (External)



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Project Scope: Trends Influencing the Ecosystem



Digitalisation

- Connected vehicles (Internet of Things, V2X coms, Cloud)
- Autonomous Driving (ADAS, Full Autonomy, sensors)
- AI, Machine Learning, Data Analytics
- Cybersecurity (vehicle security, data privacy)
- Digital twins and simulation
- Industry 4.0/5.0
- Virtual/augmented reality (VR/AR)

Green, Sustainability and Circular Economy

- Electromobility (electric vehicles)
- Hybrid Vehicles (PHEVs, mild hybrids)
- Other alternative fuels and propulsion (hydrogen, e-fuels, CNG, etc.)
- Circular economy (sustainable manufacturing, green manufacturing practices, lifetime maximisation through predictive maintenance, repair and remanufacturing, use of recycled materials)
- Charging Infrastructure (expansion of fast-charging networks, development of smart grids for EV charging, V1G, V2G)
- Eco-Friendly Innovations (material innovation, tyre performances, aerodynamic design, energy efficiency)
- Corporate sustainability goals (life cycle assessment and management, carbon footprint reductions, carbon neutrality)
- Public perception of Green Transition
- Supply chain sustainability (corporate sustainability due diligence, due diligence vs deforestation and forced labour)

Resiliency of Value Chains

- Supply Chain Optimisation (AI & IoT use for real-time monitoring)
- Local Sourcing and Production (local supply, dependency reduction, diversification of suppliers)
- Inventory Management (just-in-time inventory systems, advanced analytics for demand forecasting)
- Risk Management (scenario planning, strategic stockpiling)
- Manufacturing and production technologies innovation (robotisation, scaling and production ramp-up)
- Predictive maintenance
- Testing and approval (homologation, current vehicle norms and standards, legislation)

New Business Models

- Digital Retail (online sales platform, virtual showrooms, dynamic customer retail models, car-configurators)
- Subscription Services (vehicle subscriptions, flexible leasing options)
- Mobility as a Service (ride-hailing services, car-sharing platforms, integrated mobility solutions)
- Tyre as a Service
- Maintenance as a Service
- Aftermarket Services (digital platforms for maintenance and repairs, on-demand parts and service delivery)
- Dynamic customer preferences (Total Cost of Ownership, Total Cost of Mobility, infotainment)
- Customer services innovations and adaptations (aftersales, car modifications, EV-cars maintenance, etc.)
- Fleet management

Participant thumbnails: Kiyoshi End..., Damjan Ekert, Laura Asch..., Mikus Zelm..., **Stofla Jakub (Ex...)**, Noha Mose..., and a larger video feed of Stofla Jakub.

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AUTOMOTIVE SKILLS ALLIANCE

- Large-scale Pact for Skills Partnership in the Mobility-Transport-Automotive Ecosystem to strengthen collective actions on skills
- Announced and officially launched in November 2020
- ASA became legal entity (non-profit organization) in January 2022, established by ACEA, CECRA, CLEPA, ETRMA
- More than 110 members up to now

INDUSTRIAL ECOSYSTEMS

Diagram showing sectors: RETAIL, TOURISM, AEROSPACE AND DEFENCE, AGRI-FOOD, CONSTRUCTION, CULTURAL AND CREATIVE INDUSTRIES, DIGITAL, ELECTRONICS, ENERGY INTENSIVE INDUSTRIES, ENERGY-RENEWABLES, HEALTH, MOBILITY - TRANSPORT - AUTOMOTIVE, PROXIMITY, SOCIAL ECONOMY AND CIVIL SECURITY, TEXTILE.

Partnership model: BUSINESSES, SOCIAL PARTNERS, EDUCATION AND TRAINING PROVIDERS, RESEARCH, PUBLIC AUTHORITIES.

PACT FOR SKILLS leader
An initiative of the European Commission
www.automotive-skills-alliance.eu | 15 |

Stofla Jakub (External)

02:00:48

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Kiyoshi End... Damjan Ek... Laura Asch... Mikus Zelm... **Stofla Jakub (Ex...** Noha Mose...

Participants

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- Waiting in lobby (1)
- Griessnig, Gerhard AVL/A...
- In this meeting (33)
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TOOLS

Skills Hub

- One-stop shop database for training courses in the Automotive-mobility ecosystem
- Definition and recognition of job roles and skills/competence concepts using micro-credentials (digital badges).
- More than 180 courses linked - by providers according to coherent structure and mapping exercise

Skills Hub

- Courses catalogue
- Reference Job Roles Definitions
- Digital Badges (microcredentials) in addition to existing full cert

Plug-In

Learning Platform | **EUIO SPI² Academy** | **TU Graz** | **educam** | ...and much more

<https://skills-framework.eu>

www.automotive-skills-alliance.eu | 23 |

Stofla Jakub (External)

02:14:19

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Kiyoshi End... Damjan Ek... Laura Asch... **Gruessnig, Gerh...** Stofla Jaku... Staudinger...

Participants

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- In this meeting (34) **Mute all**
- Richard Messnarz
Organiser
 - Adabala, Bhargav AVL/AT (Unv...)

Bernhard Sechser
External

Send a quick message

Busy

Contact >

bernhard.sechser@processfellows.de

Show more

AVL ComplyGuard and Capability Adviser
ASPICE 4.0 + Safety Integrated

Dr. Gerhard Griessnig

AVL List GmbH

Public

Griessnig, Gerhard AVL/AT (Unverified)

02:25:57



Participant gallery showing avatars and video feeds for: Kiyoshi End..., Damjan Ek..., Laura Asch..., Griessnig, Gerh..., Stolfa Jaku..., Staudinger,...

Participants

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Advantage to reuse existing information



Detailed information maintained in the project execution or independent safety assessment about:

- Safety activities and their status
- All evidences
- Tailoring
- Responsibilities
- Assessments results
- ...

- Work immediately on findings by creating open issues
- Consider gained ASPICE results for safety assessments

Detailed information gained in an ASPICE assessment or independent safety assessment about:

- ASPICE assessment results
- Safety assessment results (if applicable)
- Evidences checked

- Reuse names and paths from imported evidences
- Understand responsibilities and safety activities

Public / 10

Dr. Gerhard Griessnig; Dr. Richard Messnarz | 02 September 2024 |

AVL

Griessnig, Gerhard AVL/AT (Unverified)

Participant gallery showing: Gulyas, Csaba A..., Damjan Ekert, Laura Asch..., Stolfa Jaku..., Staudinger..., Kiyoshi End..., and a live video feed of a participant.


Participants

Type a name

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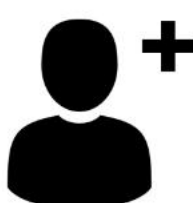
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- Dirk Mandery (External)
- Doaa Badawy (Unverified)
- Dominik Feurer (External)



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TEAM ROLES

<p>Assessor</p>  <ul style="list-style-type: none"> ✓ Can perform (team) assessments and generate reports ✓ Has only access to assessments where he/she is an assessor 	<p>Organisation</p>  <ul style="list-style-type: none"> ✓ Creates and edits assessments ✓ Creates and assigns assessors ✓ Tailors domains 	<p>Content Provider</p>  <ul style="list-style-type: none"> ✓ Adds and imports new process assessment models ✓ Edits existing process assessment models 	<p>Administrator</p>  <ul style="list-style-type: none"> ✓ Create new organization (business unit) accounts ✓ Generates benchmarking data
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7

Damjan Ekert

Participant thumbnails: Gulyas, Csaba A..., Damjan Ekert, Laura Aschbacher, Stolfa Jaku..., Staudinger..., Kiyoshi End..., and a live video feed of Damjan Ekert.


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EXPORTS TO WORD, EXCEL & POWERPOINT

- ✓ Generation of Microsoft Word assessment reports
- ✓ Usage of company templates
- ✓ Export of ratings and comments to Microsoft Excel
- ✓ Generation of a summary presentation in Microsoft Powerpoint
- ✓ Export of attributes and profile ratings to Adobe PDF and Microsoft Excel

W

X

P

Statement by HELLA Manager about using CapAdv:
 CapAdv is perfectly integrated into our internal processes due to its capability to filter and export benchmarking data in an easy to use format. This drives our improvement.

Damjan Ekert

03:05:32

Take control Pop out Chat **People** 41 Raise React View Notes Rooms Apps More

Camera Mic Share **Leave**

Participant thumbnails: Gulyas, Csa... (muted), **Damjan Ekert** (active), Laura Asch... (muted), Stofla Jaku... (muted), Staudinger,... (muted), Tobias Dan... (muted), and a live video feed of Damjan Ekert.

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- Dirk Mandery (External) [muted]
- Doaa Badawy (Unverified) [muted]
- Dominik Feurer (External) [muted]

SoQrates SOFTWARE OFFENSIVE BAYERN EURO SPI² Academy

Automotive SPICE[®] 4.0 Analysis

Presentation at the EuroSPI Tech Day's, 2.9.2024

SoQrates Team

1

Damjan Ekert

Participant avatars and video thumbnails:

- Gulyas, Csa...
- Damjan Ekert** (Active)
- Laura Asch...
- Stolfa Jaku...
- Staudinger,...
- Niamh St J...
- Video thumbnail of a man in a white shirt.

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Building a Community of SPI* Knowledge

*SPI ... System, Software, Service, Safety, Security Process, Product Improvement, Innovation and Infrastructure



<https://www.eurospi.net>



<https://soqrates.eurospi.net>



<https://academy.eurospi.net>

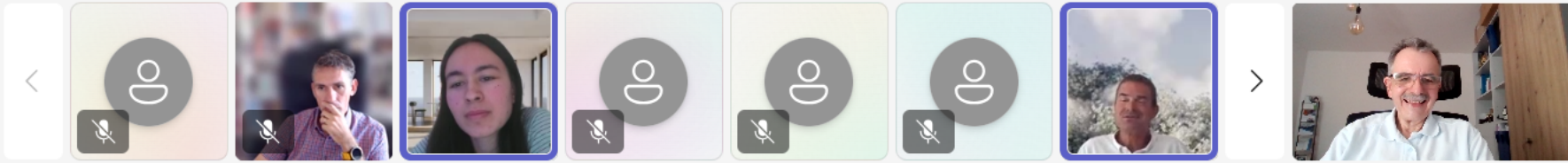
–Conference and book series since 1994.
 –Working part of leading suppliers and experts since 2003.
 –Online Campus with ECQA since 2008 and own academy
 –portals since 2020.

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03:47:22

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- Bernhardt Steger
- Braunersreuther Mat... (External)
- Damjan Ekert
- Dirk Mandery (External)

Experiences with ASIL C/D architectures for non-deterministic systems (e.g. machine learning)

EuroSPI Tech Day, 2.9.2024

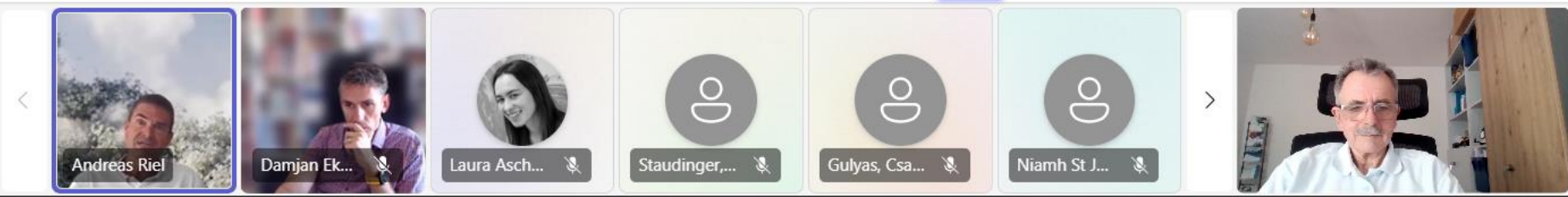
Dr Andreas Riel, Grenoble INP & ISCN Group,
 Dr Georg Macher, TU Graz & ISCN Group,
 Dr Richard Messnarz, ISCN & EuroSPI GmbH



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Andreas Riel



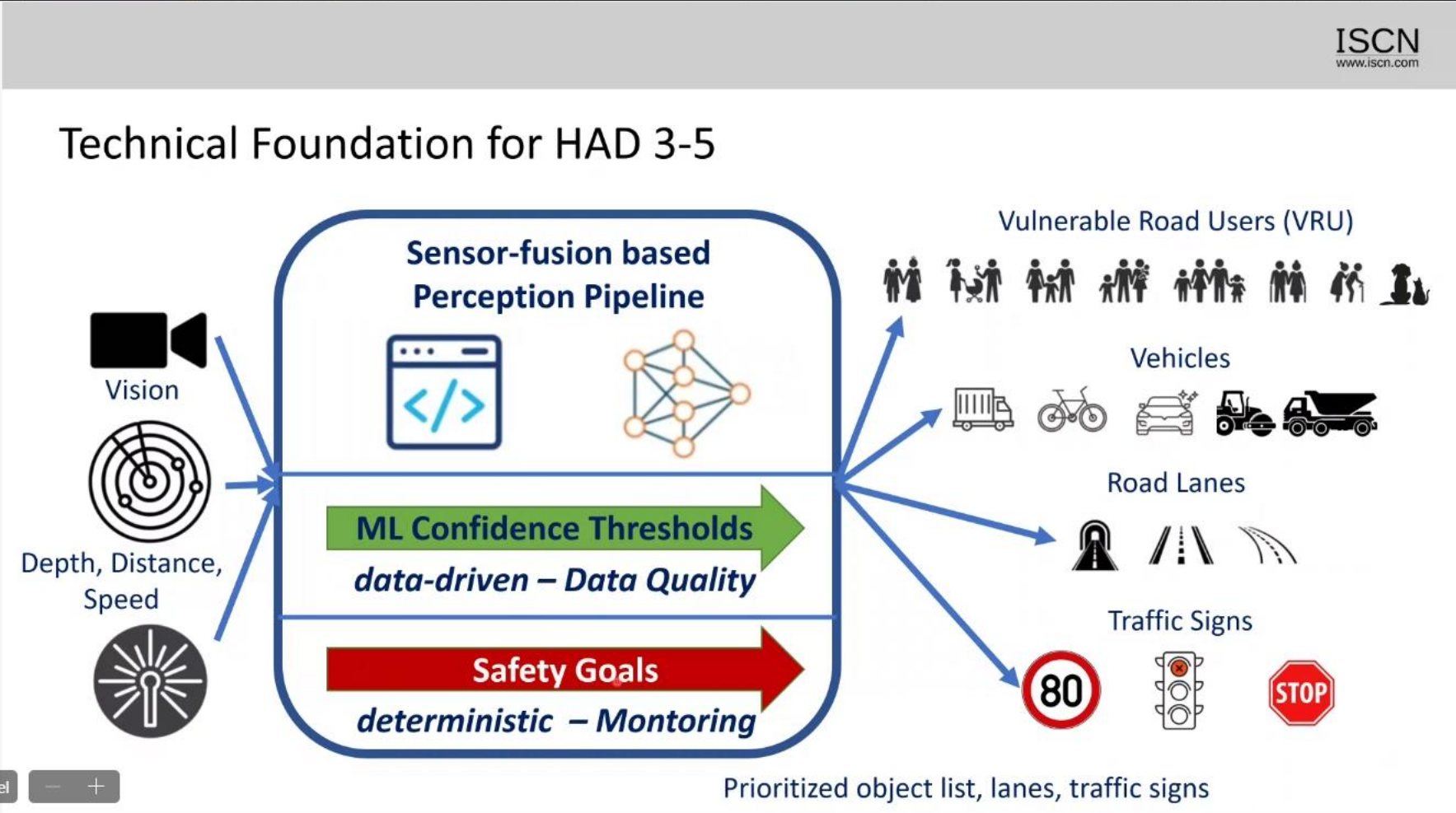
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Doaa Badawy (Unverified)
Dominik Feurer (External)
Geipel Thomas (XC-AS/EPG1) (...)



04:11:26

Take control Pop out Chat **People** 34 Raise React View Notes Rooms Apps More

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Participant thumbnails: Andreas Riel, Damjan Ek..., Laura Asch..., **Thomas Liedtke...**, Gulyas, Csa..., Niamh St J..., and a large video feed of Thomas Liedtke.

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magility cyber security

Consistency for more than one **TARA** - new content of **Automotive SPICE** for Cybersecurity

EURO SPI² 2024
European System, Software & Service Process Improvement & Innovation
In cooperation with initiatives in Asia, Africa and USA

Online Technology Day

2nd of September 2024

Thomas Liedtke (PhD)
Prof. Dr. Richard Messnarz

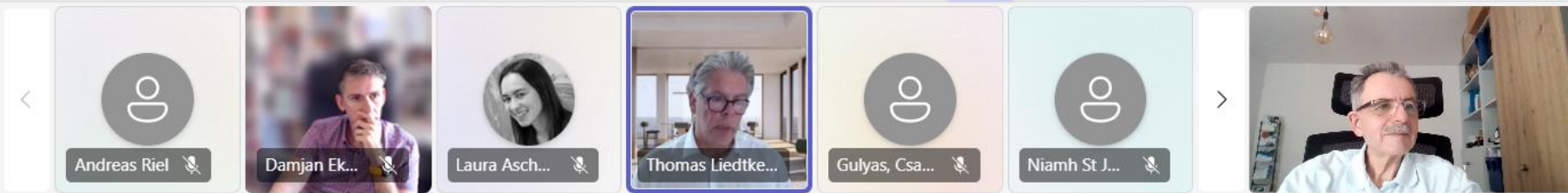
ISON

Thomas Liedtke (External)

04:12:21

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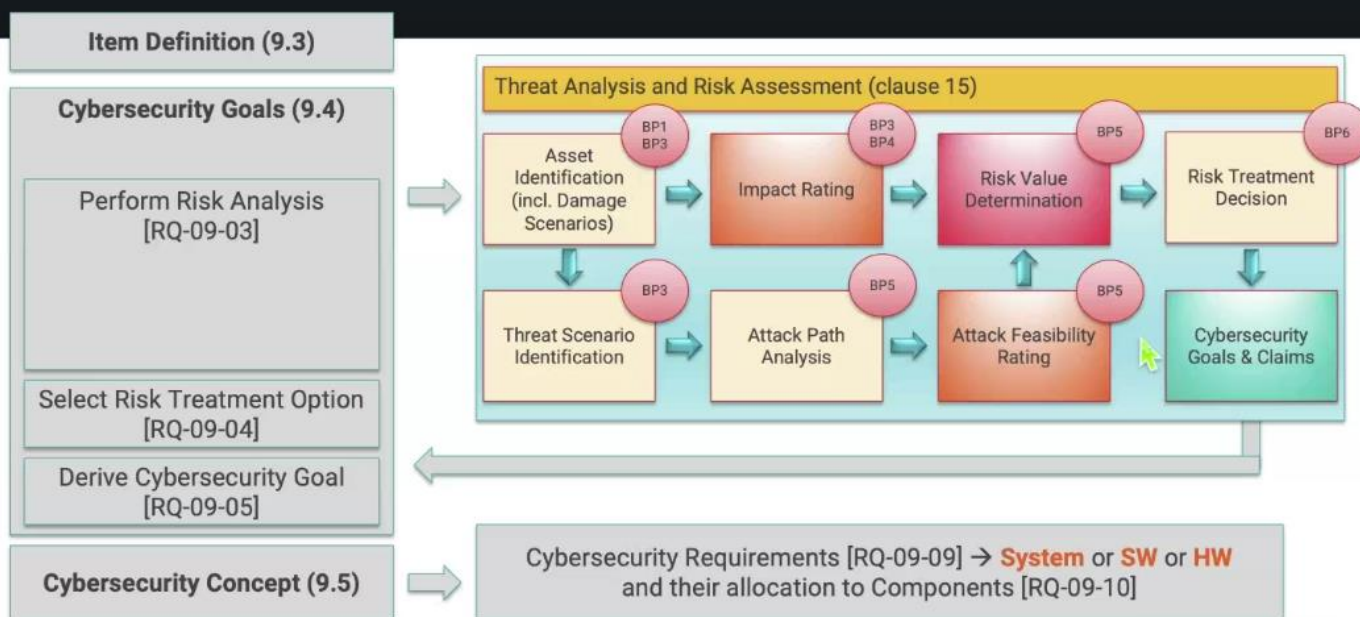
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ISO/SAE 21434-clause 15: Threat analysis and risk assessment – Mapping to Automotive SPICE® MAN.7-BPs

Introduction and Items at Different Level



magility

[ASPIICE-CS.ISO21434;LiMe24] - 2 -

Thomas Liedtke (External)

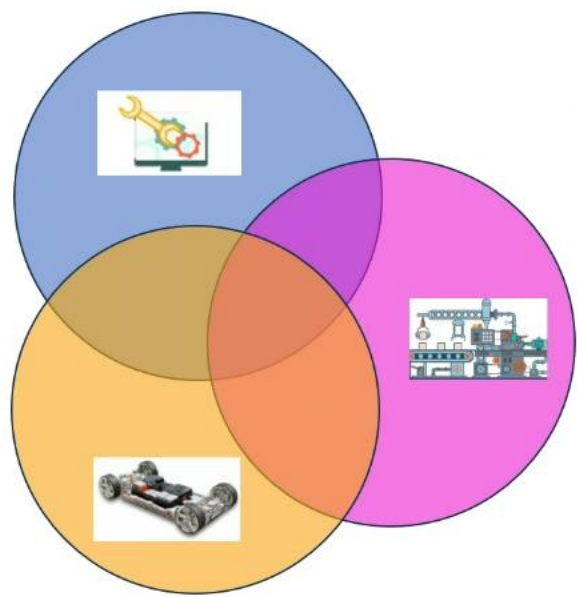
Participant gallery showing: Andreas Riel, Damjan Ek..., Laura Asch..., Thomas Lie..., **Bernhardt Steger** (highlighted), Niamh St J..., and a large video feed of Bernhardt Steger.



(Cyber)Security – (Simplified) Overview

IT (Information Technology) Security is the protection of computer software, systems and networks from threats that may result in unauthorized information disclosure, theft of (or damage to) hardware, software, or data, as well as from the disruption or misdirection of the services they provide.

Product Security includes the policies, processes and practices used to protect a product's software, hardware and digital services from malicious attacks, data breaches and other security risks.



OT (Operational Technology) Security refers to the measures and controls used to protect OT systems - which use specially developed software to automate industrial processes - from cyber security threats.

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04:43:25

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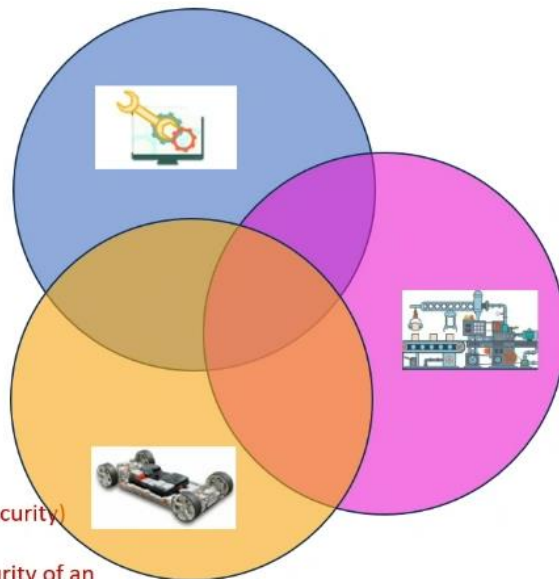
Mute all

- Richard Messnarz (Organiser)
- Andreas Riel
- Antonia Demele (Unverified)
- Bernhard Sechser (External)
- Bernhardt Steger**
- Damjan Ekert
- Detlev Aust (Unverified)
- Dirk Mandery (External)
- Doaa Badawy (Unverified)
- Dominik Feurer (External)
- Geipel Thomas (XC-AS/EPG1) (...)



Security and Certificates – (Simplified) Overview

IT (Information Technology) Security



OT (Operational Technology) Security

Product Security



Cybersecurity Audit
 (e.g.: Automotive SPICE® for Cybersecurity)
 Cybersecurity Assessment
 (judges independently the cybersecurity of an item or component)

Bernhardt Steger

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