

ELECTRONICS AND SOFTWARE BASED SYSTEMS AUSTRIA

6 March 2023, KDT Italy Day, F. Flamigni (TTTECH)

Who we are? – What's new?

ESBS-Austria (former ECSEL-Austria) is an industry-driven national research, development and innovation platform representing the technology areas of micro and nanoelectronics, embedded systems and systems integration.

- **Founded 2013** based on ARTEMIS-Austria (embedded software and software architecture) and ENIAC-Austria (micro- and nanoelectronics)
- **2022**: renamed into programme-independent name: **ESBS-Austria** (Electronics and Software Based Systems)
- currently **45 members**



Fachverband der Elektro- und Elektronikindustrie



Activities ESBS-Austria 2023 (planned)

Events

- Jan Austrian IPCEI Day, organized in cooperation w/ AT&S AG, Leoben
- May ESBS-Austria spring conference & General Assembly
- Oct Fall event ESBS-Austria

Network/Strategy

- Cooperation & coordination Silicon Austria Labs (SAL)
- Workshops: SRIA – identification of Austrian focus topics, esbs strategy, Gaia-X, ...
- New target group-oriented communication strategy ongoing – new website online
- Interaction with other platforms (e.g Green Tech cluster, AC Styria, Photonics Austria, Silicon Alps,...)
- Close cooperation with public authorities on national level (BMK – federal ministry of climate action)

(External) visibility

- Jun IMAGINE23, Vienna, target group researchers and students
- Publication of ESBS-Austria technical position paper (online/flyer)
- 2023 Call & awarding of 3 ebs-related Bachelor/Master Thesis with esbs focus

Six areas of strength identified by the Austrian ESBS community (result of SRIA Workshop 2022)

- Power electronics, its control and testing
- Next generation of hybrid integration
- Sensing, photonic sensors, quantum sensors
- Open software vehicle platform
- Development and testing of trustable AI based systems
- Secure & energy efficient connectivity, communication & processing



First KDT Call – successful contributions from Austria

- Partners in 17 submissions
- 8 projects are funded



The Initiative

THE | AUTONOMOUS

The Purpose:

TACKLING THE BIGGEST SAFETY CHALLENGES

The Autonomous brings together the world's major mobility stakeholders to shape the future of safe autonomous vehicles.

- is an open platform initiated by TTTech Auto
- is a global community shaping the future of safe autonomous mobility
- aims at building an ecosystem of all actors involved in the development of safe autonomous mobility
- will develop Global Reference Solutions facilitate the adoption of safe autonomous mobility on a grand scale (Complementary to standardization organizations)

Ricky Hudi – Chairman: Joining forces will help to develop safe technology, share the substantial costs and lay the basis for sustainable customer trust and unified standards.



The Autonomous Main Event (in-person and **virtually** simultaneously)

SAVE the DATE – **September 14, 2023, Vienna, Austria**

- ✓ Hybrid **keynotes and panel discussions** (virtual & in-person)
- ✓ Unique **networking opportunities** with leading executives and experts from the industry
- ✓ **On-site workshops + virtual** roundtables

Registration is already open!



Event Stream



Innovation Stream

Research & Innovation in Autonomous Mobility workshop @



- Focus on cooperation for sustainable solutions in autonomous mobility
- Taking stocks from the results of completed or ongoing projects (i.e. Sys2Wheel, AI4CSM, AITHEA) and programmes (i.e. CCAM European Partnership)
- The European vision for smart, shared and green mobility, including funding opportunities in ongoing and future programmes such as KDT JU and Chips-JU

For more information visit

www.the-autonomous.com
www.tttech.com/ta2022-sustainable-mobility

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**New
website! ->**

THANK YOU!