

ECSEL-Austria

ECSEL-Italy Workshop, 19 May 2021, online

Stefan Rohringer, Chairman



ECSEL
Austria

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)
- Legal Status: **Verein**
- currently **42 Members**



ECSEL
Austria

Our mission:

Secure supply of key technologies and critical knowhow in the field of electronic components and systems to support innovation in all major sectors of the economy and society in Europe.

Our vision:

European leadership
in electronic based
systems

Electronic Based Systems in Austria

100+

R&D organisations

4000+

Researchers

70000+

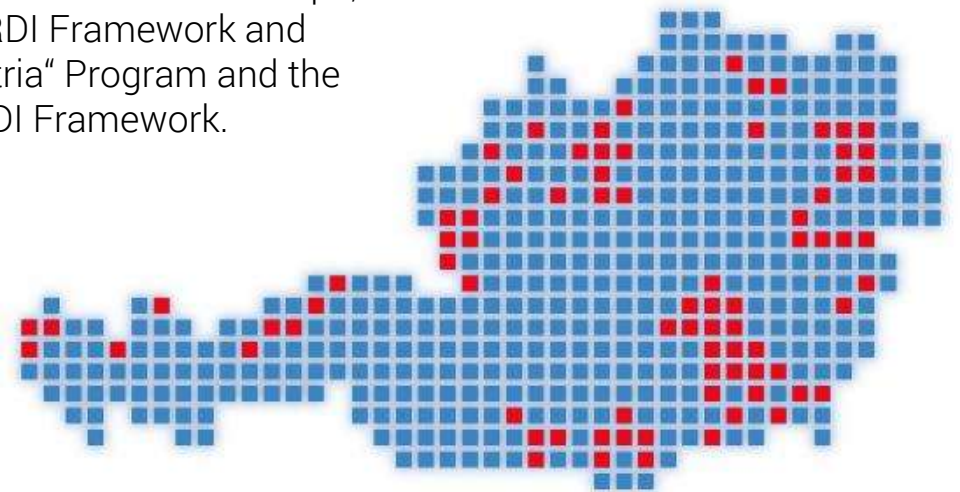
people employed
in EBS-relevant
companies



ECSEL
Austria

Partners & members

The network of ECSEL Austria consists of Austrian Stakeholders, Austrian Clusters and Silicon Alps, the BMVIT RDI Framework and „Silicon Austria“ Program and the European RDI Framework.






Activities ECSEL-Austria 2021

Events

- 22 Apr ECSEL-Austria Conference "Industrial Cyber Security" (incl. GA), online
- Oct Fall event ECSEL-Austria (hybrid)

Network/Strategy

- Cooperation & coordination Silicon Austria Labs (SAL) 
- Quantum Communication Infrastructure (QCI)
- MASRIA 2022 Workshop
- Interaction with other platforms
- Close cooperation with public authorities on national level (BMK – federal ministry of climate action)

(External) visibility

- 17 Jun IMAGINE21 – „Be the change“, Klagenfurt/hybrid
- Ebs-Study „ECSEL-funded projects and their impact: Case studies of Austrian companies“
- ECSEL-Austria „(ebs) FH Preis 2021“ (award for ebs-related project, university of applied studies)
- Call & awarding of 3 ebs-related Bachelor/Master Thesis with ebs focus

IPCEI on Microelectronics (& Communication technologies)



- IPCEI (Important Projects of Common European Interest)
- IPCEI enable research and development in a key economic sector of strategic importance (microelectronics) across several Member States
- EU stated that investment in research and innovation in microelectronics carries a considerable element of risks.
- Public support is appropriate and necessary to incentivize companies to carry out research, development and innovation activities in this sector.
- IPCEI on Microelectronics¹ was decided in 2018 (Germany, France, Italy, UK, Austria joined in 2021)
- IPCEI on Microelectronics and Communication Technologies is currently under preparation. 16 European countries showed interest to participate

www.ecsel-austria.net



IPCEI on Microelectronics (& Communication technologies)



Why Europe needs IPCEI as a strategic instrument to gain back Sovereignty, Sustainability, Safety and Security in various industries ?

- Valley of Death:
Europa has many excellent R&D&I activities, but implementation and exploitation is often done in the US and in Asia
- FID (First industrial Deployment):
IPCEI includes R&D&I before and within the Industrialization phase on a larger scale than other funding instruments, like ECSEL, KDT, HEU

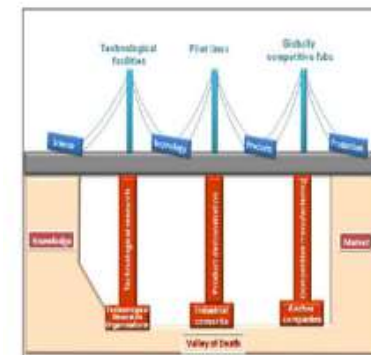


Figure 8: A European integrated initiative to pass through the R&D valley of death



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Thank you!

ECSEL-Austria

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Climate Action, Environment,
Energy, Mobility,
Innovation and Technology