

ESBS
AUSTRIA



ELECTRONICS AND SOFTWARE BASED SYSTEMS AUSTRIA

```
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
elif_operation == "MIRROR_Z":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = False  
    mirror_mod.use_z = True
```

```
if deselected mirror_mod:  
    mirror_ob.select = 1  
    modifier_ob.select = 1  
    bpy.context.scene.objects.active = modifier_ob  
    print("Selected" + str(modifier_ob)) # modifier ob is the active  
    #mirror_ob.select = 0  
    bpy.context.scene.objects.active = mirror_ob
```

Who we are?

ESBS-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 **46 members**



Fachverband der Elektro- und Elektronikindustrie

Federal Ministry Republic of Austria Climate Action, Environment, Energy, Mobility, Innovation and Technology



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 electronics and software based systems

Electronics and Software Based Systems in Austria

Source: ‚Electronic Based Systems – Update der Daten zu Unternehmen
– Kurzanalyse 2023‘ Joanneum Research

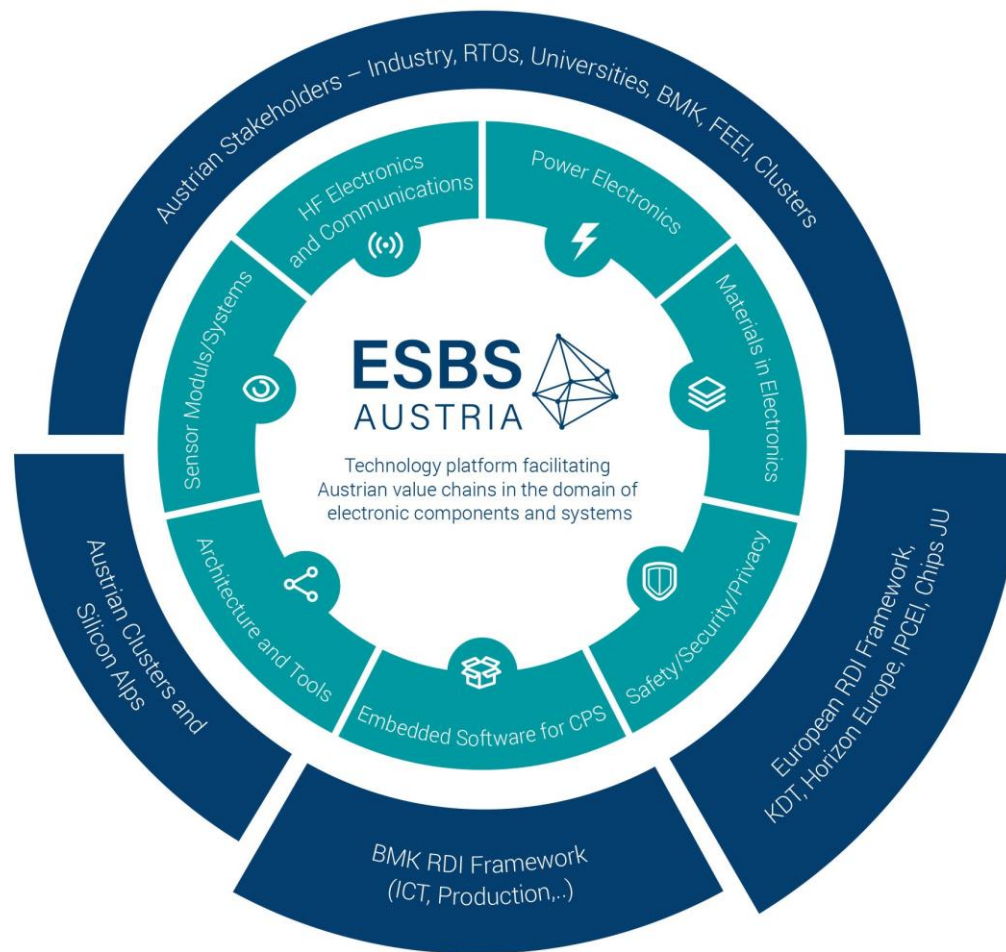
100
R&D Organisations

+4400
Researchers

+72.000
People employed
in esbs-relevant
companies

Our network

The network of ESBS-Austria consists of Austrian Stakeholders, Austrian Clusters and Silicon Alps, the BMK, RDI Framework and „Silicon Austria“ Programme and the European RDI Framework.



Our Strategic Goals & Objectives

- strengthen the **international competitiveness** of Austrian companies in the European ESBS funding/innovation system creating added value
- **support cooperation, focus and performance** of Austrian R&D institutions and enterprises along the value-chain of ESBS
- **develop inputs for the European and Austrian research programmes** based on the strengths of Austrian ESBS eco system
- **increase the international visibility** of Austrian enterprises and R&D facilities due to leading edge technologies and solutions
- **strengthen the Austrian ESBS eco system** as valuable partner in large collaborative European projects

Six areas of strength identified by the Austrian ESBS community

- Power electronics and control
- Hybrid integration & process
- Sensing, photonic sensors, quantum sensors
- Open software vehicle platform
- Development and testing of trustably AI based real-time systems
- Secure & energy efficient connectivity, communication & processing



ESBS-Austria Technical Position Paper

- Technical Positions Paper

Download the full document and abstract at
www.esbs-austria.eu/positionpaper1



KDT Calls – successful contributions from Austria

KDT 1. Call

- Partners in 17 submissions
- 9 projects selected by EC
 - 6 funded by BMK/FFG
 - € 6 Mio national contribution

KDT 2. Call

- Partners in 18 submissions
- 11 projects selected by EC
 - 5 funded by BMK/FFG
 - € 7 Mio national contribution



KDT 1. Call – successful contributions from Austria

<u>A-IQ Ready</u>	Artificial Intelligence using Quantum measured Information for realtime distributed systems at the edge
<u>AGRARSENSE</u>	Smart, digitalized components and systems for data-based Agriculture and Forestry
<u>PowerizedD</u>	Digitalization of Power Electronic Applications within Key Technology Value Chains
<u>TRISTAN</u>	Together for RISC-V Technology and Applications
<u>EdgeAI</u>	Edge AI Technologies for Optimised Performance Embedded Processing
<u>OPEVA</u>	OPEVA - OPTimization of Electric Vehicle Autonomy
<u>Listen2Future</u>	Acoustic sensor solutions integrated with digital technologies as key enablers for emerging applications fostering society 5.0
<u>HICONNECTS</u>	Heterogeneous Integration for Connectivity and Sustainability
<u>SHIFT</u>	Sustainable technologies enabling Future Telecommunication applications

KDT 2. Call – successful contributions from Austria

<u>AIMS5.0</u>	Artificial Intelligence in Manufacturing leading to Sustainability and Industry5.0
<u>ALL2GaN</u>	Affordable smart GaN IC solutions as enabler of greener applications
<u>ARCHIMEDES</u>	Trusted lifetime in operation for a circular economy
<u>EcoMobility</u>	Intelligent, Safe and secure connected Electrical Mobility solutions: Towards European Green Deal and Seamless Mobility
<u>NEUROKIT2E</u>	Open source deep learning platform dedicated to Embedded hardware and Europe
<u>R-PODID</u>	Reliable Powerdown for Industrial Drives
<u>SUSTRONICS</u>	Sustainable and green electronics for circular economy
<u>Arrowhead FPVN</u>	Arrowhead Flexible Production Value Networks
<u>EECONE</u>	European ECOSystem for greenN Electronics
<u>14AMI</u>	14 Angstroms Module Integration
<u>ISOLDE</u>	High Performance, Safe, Secure, Open-Source Leveraged RISC-V Domain-Specific Ecosystems

What we offer to our members?

- first level contact for stakeholder's issues in the area of R&D for ESBS
- a lively network offering various options for proactive participation
- a platform to share RD&I project ideas, get inspired by others and gain information
- active contribution to KDT programs and ESBS strategies
- joint preparation/coordination of common positions
- 2 symposia/conferences a year (international & national focus)

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THANK YOU!