**ASSIC Austrian Smart Systems Integration Research Center**

<table>
<thead>
<tr>
<th>Main location</th>
<th>Villach, Carinthia</th>
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<tbody>
<tr>
<td>Other locations</td>
<td>(none)</td>
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<tr>
<td>Research programme</td>
<td>Smart Systems Integration, Microsystem Technologies, Heterogeneous Integration, Packaging, Smart Systems Solutions</td>
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</tbody>
</table>

**Planned realisation and outcomes**

Micro- and nano-electronic components and systems are essential to modern digital products and services. Mastering the technologies of smart systems integration is thus becoming a key issue for the future of the Austrian and European economy. ASSIC targets a holistic R&D approach from single components to complete system solutions. Concrete outcomes comprise the:

- development of components, micro-modules and integrated smart systems demonstrating increased functionality and advanced performance
- development and optimisation of related process technologies for microsystem device and packaging manufacturing
- development and refinement of tools and methods for design and integration of smart systems

**History of establishment**

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1997</td>
<td>Foundation of the non-university research centre CTR Carinthian Tech Research</td>
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<td>1998</td>
<td>Austria’s first Kplus Competence Centre</td>
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<td>2007</td>
<td>COMET K1 Competence Centre ‘Advanced Sensor Technologies’</td>
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<td>2015</td>
<td>COMET K1 Competence Centre ‘ASSIC’</td>
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<td>2017</td>
<td>62 CTR employees, 18 PhD’s, 7.95 Mio. Euro turnover</td>
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</table>

**Selected company partners** (max. 10)

1. AT&S Austria Technologie & Systemtechnik AG
2. AVL LIST GmbH
3. BHM-Tech Produktionsgesellschaft mbH
4. EPCOS OHG
5. High Tech Coatings GmbH
6. Infineon Technologies Austria AG
7. Liebherr-Hausgeräte Lienz GmbH
8. Ortner Reinraumtechnik GmbH
9. Philips Austria GmbH
10. VARTA Micro Innovation GmbH

**Selected scientific partners** (max. 5)

1. Alpen-Adria-Universität Klagenfurt (SST)
2. Graz University of Technology (IES)
3. Johannes Kepler University Linz (IME, ZONA)
4. University of Freiburg (IMTEK, INATECH)
5. Vienna University of Technology (ISAS)

**Selected international partners** (max. 5)

1. OSRAM Opto Semiconductors GmbH
2. RF360 Europe GmbH - A Qualcomm - TDK Joint Venture
3. TOMRA Sorting GmbH
4. UNISENSOR AG
5. ZF Friedrichshafen AG

**Duration of the COMET Centre**

January 2015 – December 2022 (8 years)

**Staff employed at the Centre**

63.4 FTE (thereof 56 scientists)

**Total costs**

1st Funding period: EUR 18.4 Mio (4 years)
2nd Funding period: EUR 20.4 Mio (4 years)

**Management of the Centre**

Dr Werner Scherf, CTR Carinthian Tech Research AG, CEO

**Contact:**

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info@ctr.at, www.ctr.at

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1 Partners with headquarters outside Austria