## COMET Centre (K2)

### InTribology

**Tribology Intelligence – Customized Tribology for Industrial Innovations**

<table>
<thead>
<tr>
<th>Main location</th>
<th>Wiener Neustadt, Niederösterreich</th>
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<tbody>
<tr>
<td>Other locations</td>
<td></td>
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<tr>
<td>Research programme</td>
<td>Integration of data-driven methods in tribo-diagnostics; development of generic models for lubricant &amp; interface mechanisms and friction surface phenomena; investigation of wear processes and wear reduction strategies; development of application-oriented digital models for the modelling of tribological systems relevant for industrial practice.</td>
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**Planned realisation and outcomes**

*InTribology* will intensify trend-setting the research on and validation of tribological systems through data-driven methods, thereby enabling customized solutions and fostering industrial innovation in European and Austrian industry. This will lead tribology into an era of digital transformation, and the high potential of tribology to make a significant contribution to the global challenge of “decarbonisation” is significantly raised and made visible to customers and the society.

**History of establishment**

- 2002: formation of AC2T research GmbH as operating organization
- 2002 – 2009: Kplus Center of Competence for Tribology
- 2010 – 2020: COMET K2 Excellence Centre of Tribology

### Selected company partners (max. 10)

- voestalpine Stahl GmbH (A)
- AVL List GmbH (A)
- OMV Exploration & Production GmbH (A)
- voestalpine Tubulars GmbH & Co KG (A)
- Wittmann Battenfeld GmbH (A)
- Magna Powertrain GmbH & Co KG (A)
- Siemens Mobility GmbH (A)
- Liebherr-Transportation Systems GmbH & Co KG (A)
- Knorr-Bremse GmbH (A)
- Linde Gas GmbH (A)

### Selected scientific partners (max. 5)

- Technische Universität Wien – 11 Institute (A)
- Univ. of California Merced, Dept of Mech Eng (US)
- University of Leeds, School of Mech Eng (UK)
- VTT Technical Research Centre of Finland Ltd. (FIN)
- Luleå University of Techn., Dept of Eng Sci&Math (S)

### Selected international partners ¹ (max. 5)

- Robert Bosch GmbH (D)
- SKF B.V. (NL)
- Toyota Motor Europe NV/SA (B)
- Total Marketing Service S.A. (F)
- GKN Sinter Metals S.p.A. (IT)

### Duration of the COMET Centre

- April 2020 – March 2028 (8 years)

### Staff employed at the Centre

- 140 FTE (thereof 120 scientists)

### Management of the Centre

- Prof. Dr. Andreas Pauschitz, AC2T research GmbH, General Manager

### Contact

- Viktor-Kaplan-Straße 2/C, 2700 Wiener Neustadt, Austria
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¹ Partners with headquarters outside Austria

The COMET Centre is funded within COMET – Competence Centers for Excellent Technologies – by BMK, BMDW as well as co-financing federal provinces. The COMET programme is managed by FFG. >> www.ffg.at/comet

Status: 02/2020