

## COMET CENTRE (K2)

### AC2T RESEARCH GMBH

RESEARCH PROGRAMME: INTRIBOLOGY1 – TRIBOLOGY INTELLIGENCE –  
CUSTOMIZED TRIBOLOGY FOR INDUSTRIAL INNOVATION

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**Main location:** Wiener Neustadt (Lower Austria)

**Other locations:** Linz (Upper Austria)

**Thematic area:** Materials & production



#### Thematic focuses

- Integration of data-driven methods in tribo-diagnostics
- development of generic models for lubricant & 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

#### 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 A2T research GmbH as operating organization

2009: Kplus Center of Competence for Tribology

2010 - 2020: COMET K2 Excellence Centre of Tribology (XTribology)

## COMET FACTSHEET

### Selected company partners (max. 10):

1. voestalpine Stahl GmbH
2. AMAG rolling GmbH
3. OMV Exploration & Production GmbH
4. voestalpine Tubulars GmbH & Co KG
5. OMV Downstream GmbH
6. Magna Powertrain GmbH & Co KG
7. Siemens Mobility GmbH
8. Liebherr-Transportation Systems GmbH & Co KG
9. SKF Österreich AG
10. DAS Energy GmbH

### Selected scientific partners (max. 5):

1. TU Wien, 11 Institute (Austria)
2. University of California Merced, Dept. of Mech Eng (USA)
3. University of Leeds, School of Mech Eng (United Kingdom)
4. Universiteit van Amsterdam (Netherlands)
5. Luleå University of Technology, Dept. of Eng Sci&Math (Sweden)

### Selected international<sup>1</sup> partners (max. 5):

1. Robert Bosch GmbH (Germany)
2. SKF B.V. (Netherlands)
3. Toyota Motor Europe NV/SA (Belgium)
4. Total Marketing Service S.A. (France)
5. Oerlikon Surface Solutions AG, Pfäffikon (Switzerland)

**Duration:** 04.2020 – 03.2029 (9 years)

**Staff employed at the Centre:** 116 FTE, thereof 94 scientists

**Management:** Prof. DI Dr. Andreas Pauschitz, General Manager

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<sup>1</sup> Partners with headquarters outside Austria