

COMET: K2 Centres

XTribology	
Excellence Centre of Tribology	
Main location	Wiener Neustadt (Niederösterreich), Research and Technology Centre
Other locations	-
Research programme	Tribology; Lubricants and Interface Mechanisms, Wear Processes and Protection, Friction Surface Phenomena and Tribodiagnostics, Computation and Experimental Simulation
Planned realisation and outcomes	
The centre will carry out an ambitious research programme with high international visibility. Major achievements will be i.a.:	
a) novel lubricant formulation (i.a. ionic liquids/additives) and sensors for condition monitoring	
b) functional characterization and design of tribo-active surface structures	
c) design concepts (material mechanics/component design) avoiding abrasive wear and tribocorrosion	
d) techniques for in-situ nano wear volume measuring	
e) customized friction models for powertrain design	
f) multi-scale modelling of tribosystems covering material physics (ab initio) to structural dynamics	
History of establishment	07/2002: formation of AC2T research GmbH as operating organization for the projects: 2002 - 2009: Kplus Center of Competence for Tribology 2010 - to date: COMET K2 Excellence Centre of Tribology
Selected company partners (in total approx. 65)	Selected scientific partners (in total approx. 40)
1. voestalpine Stahl GmbH (A)	1. Vienna University of Technology (A)
2. AVL List GmbH (A)	2. Johannes Kepler University Linz (A)
3. OMV Refining & Marketing GmbH (A)	3. Luleå University of Technology (S)
4. OMV Exploration & Production GmbH (A)	4. Cardiff University (UK)
5. Castolin Gesellschaft m.b.H. (A)	5. Saarland University (D)
6. Linde Gas AG (A)	Selected international partners ¹ (in total approx. 25)
7. LUKOIL Lubricants Austria GmbH (A)	1. Robert Bosch GmbH (D)
8. Leobersdorfer Maschinenfabrik GmbH & Co. KG (A)	2. AB SKF (S)
9. Semperit Technische Produkte Gesellschaft m.b.H. (A)	3. Evonik Industries AG (D)
10. GE Jenbacher GmbH & Co KG (A)	4. E-T-A Elektrotechnische Apparate GmbH (D)
	5. GKN Sinter Metals SPA (I)
Duration of the K2 Centre	April 2010 – March 2020 (5 + 5 years)
Staff employed at the Centre	approx. 140 people on average, resp. 120 FTE (thereof approx. 90 FTE scientists)
Total costs	1 st funding period: € 47.7 Mio (5 years), 2 nd funding period: € 54 Mio (5 years)
Management of the Centre	AC2T research GmbH, Dr. PAUSCHITZ Andreas, Prof. Dr. FRANEK Friedrich
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¹ Partners with headquarters outside Austria