

## COMET: K-Project

<b>Amoree</b>	
<b>Aluminium and magnesium processing optimisation with special respect to resource and energy efficiency</b>	
<b>Main location</b>	Ranshofen, Upper Austria (UA)
<b>Other locations</b>	Braunau, Pucking, UA/Graz, Styria/St. Georgen bei Salzburg, Salzburg, Sbg/Vienna, Vienna / Zurich, Zurich (CH)/ Rostock, Mecklenburg-West Pomerania (GE)
<b>Research programme</b>	Materials Development, Prozess Development, Material Based Design in the Field of the Light Metals Aluminium and Magnesium
<b>Planned realisation and outcomes</b>	
<ul style="list-style-type: none"> <li>• Improvement of material properties as well as improvement of sustainability (energy efficiency)</li> <li>• Integrated numerical process modelling including mechanics of liquids and solids thermomechanics and microstructural analysis with respect to solidification, phase transformations and microstructure development</li> <li>• Development of advanced material characterisation methods</li> <li>• Validation of numerical models by experimental investigations with laboratory infrastructure</li> <li>• Improvement and new processing technologies for light metals</li> </ul>	
<b>History of establishment</b>	1994 Foundation as a part of Forschungszentrum Seibersdorf 1999 – 2008 Kplus-Center for High-Performance Light Metals 2005 – 2007 Leadership of the Project ALWS – Austrian Light Weight Structures 2008 Integration in the AIT structure (Mobility Department) 2010 – 2014 Comet K-Projekt AdvAluE
<b>Selected company partners</b>	<b>Selected scientific partners</b> 1. Paris Lodron University Salzburg (PLUS), Materials Sciences and Physics 2. Graz University of Technology, Institute for Electronmicroscopy and Nanoanalysis (FELMI) 3. Technical University of Vienna, Institute of Materials Science and Technology <b>Selected international partners</b> <sup>1</sup> 1. ETH Zürich, Laboratory of Metal Physics and Technology 2. University of Rostock, Faculty for Mechanical Engineering and Marine Technology
1. AMAG casting GmbH	
2. AMAG rolling GmbH	
3. Hammerer Aluminium Industries Extrusion GmbH	
4. HPI High Performance Industrietechnik GmbH	
5. Magna Steyr Fahrzeugtechnik AG & Co. KG	
6. MAS Maschinen- und Anlagenbau Schulz GmbH	
7. non ferrum GmbH	
<b>Planned start of the K-Project</b>	01.07.2014 (4 years)
<b>Planned number of personnel</b>	30 (FTE) are involved (27 FTE are scientists)
<b>Total costs</b>	EUR 5,34 Mio
<b>Leader of consortium:</b>	LKR Leichtmetallkompetenzzentrum Ranshofen GmbH, Prok. Dipl.-Ing. Richard Kretz, Senior Engineer
<b>Contact:</b>	Lamprechtshausenerstraße, Postfach 26, 5282 Ranshofen <a href="mailto:richard.kretz@ait.ac.at">richard.kretz@ait.ac.at</a> , 0043 50550 6912 <a href="http://www.lkr.at">http://www.lkr.at</a>

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