

COMET: K-Project

METAL JOINING	
JOIN - Network of Excellence for Metal JOINING	
Main location	Graz, Styria
Other locations	Linz, Sattledt, Attnang-Puchheim – Upper Austria Vienna – Vienna Schwechat – Lower Austria Reutte – Tyrol Bruck an der Mur, Leoben, Kapfenberg – Styria Aachen, Eberdingen, Hartenstein, Ingolstadt – Germany
Research programme	COMET
Planned realisation and outcomes	
Joining of refractory metals (Molybdenum), Development of high strength and tough materials and weld metals Coating systems for joining of dissimilar materials Friction welding of chains Software development for visualisation of weldments based on physical real time modelling	
History of establishment	Joining, especially welding of metallic materials is a significant industrial sector in Austria. The proposed K-Projekt Network of Excellence for Metal JOINING (JOIN) is the logical continuation of the previously running and very successful K-net JOIN ((K-Net; 2005 - 2009) and K-Projekt JOIN4+ (COMET K-Projekt; 2010 - 2014).
Selected company partners (max. 10)	Selected scientific partners (max. 5)
1. Air Liquide Austria GmbH 2. Fronius International GmbH 3. Inocon Technologie GmbH 4. Pewag Austria GmbH 5. PLANSEE SE 6. voestalpine Austria Draht GmbH 7. voestalpine Böhler Welding Austria GmbH 8. voestalpine Stahl Linz GmbH 9. voestalpine Schiene GmbH	1. FH JOANNEUM 2. Montanuniversität Leoben 3. TU Graz 4. TU Wien
	Selected international partners ¹ (max. 5)
	1. Audi AG 2. Eckard Effekt Pigments 3. Klaus Raiser GmbH 4. RWTH Aachen
Planned start of the K-Project	2014 (4 years)
Planned number of personnel	14,3 (FTE) are involved (10,6 FTE are scientists)
Total costs	EUR 6.29 million
Leader of consortium:	Univ.-Prof. DI Dr.techn. Christof Sommitsch Institute for Materials Science and Welding Graz University of Technology Head of the Institute
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¹ Partners with headquarters outside Austria