COMET: K-Project

METAL JOINing
JOIN - Network of Excellence for Metal JOINing

<table>
<thead>
<tr>
<th>Main location</th>
<th>Graz, Styria</th>
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| 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)
1. Air Liquide Austria GmbH
2. Fronius International GmbH
3. Inconor 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

Selected scientific partners (max. 5)
1. FH JOANNEUM
2. Montanuniversität Leoben
3. TU Graz
4. TU Wien

Selected international partners *(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