COMET: K-Project

AEDA
Advanced Engineering Design Automation

<table>
<thead>
<tr>
<th>Main location</th>
<th>V-Research GmbH, Stadtstraße 33, 6850 Dornbirn, Vorarlberg, Austria</th>
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<td>Other locations</td>
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<td>Research programme</td>
<td>The project will contribute to the following topics: Decision matrix for selecting methods and tools of design automation; automated knowledge acquisition; integrated collections of knowledge representation formalisms, reasoning methods, and design model analysis techniques; solution space exploration; integration of upstream and downstream processes regarding engineering design; evaluation of design-automation project results.</td>
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Planned realisation and outcomes
AEDA aims at providing an integrated platform for the automation of engineering design tasks. The platform will consist of a conceptual framework, including generative methods and algorithms for design automation as well as a software framework based on the implementation of those methods. Additionally, it will include methods for knowledge acquisition as to the rules and procedures used by domain experts during the engineering design process.

History of establishment
V-Research is a non-university research institution and stands for applied research in the areas Design Automation and Tribo-Design. It was founded in 2004 to strengthen the innovation potential in production.

Selected company partners (max. 10)
1. Doppelmayr Seilbahnen GmbH, Wolfurt
2. Hans Künz GmbH, Hard
3. Längle Glas GmbH, Götzis
4. Liebherr-Werk Nenzing GmbH
5. LTW Intralogistics GmbH, Wolfurt
6. Schelling Anlagenbau GmbH, Schwarzach
7. Techsoft Datenverarbeitung GmbH, Linz

Selected scientific partners (max. 5)
1. Technische Universität Wien, Institut für Konstruktionswissenschaften und Technische Logistik
2. Fraunhofer Austria, Visual Computing Laboratory
3. Johannes Kepler Universität Linz, Abteilung für Wissensbasierte Mathematische Systeme
4. Fachhochschule Vorarlberg, Forschungszentrum Prozess- und Produkt-Engineering
5. Fachhochschule Oberösterreich, Heuristic and Evolutionary Algorithms Laboratory

Selected international partners (max. 5)
1. Eidgenössische Technische Hochschule Zürich, Engineering Design and Computing Laboratory

Planned start of the K-Project: 01.11.2014 (4 years)
Planned number of personnel: 46,5 (FTE) are involved (31,6 FTE are scientists)
Total costs: EUR 5,477,120,--
Leader of consortium: Dr. Vaheh Khachatouri, Managing Director
Contact: V-Research GmbH, Stadtstraße 33, 6850 Dornbirn, +43 5572 394159 vaheh.khachatouri@v-research.at www.v-research.at

1 Partners with headquarters outside Austria