

COMET: K-Project

HOPL Heuristic Optzation in Production and Logistics	
Main location	Upper Austria University of Applied Science, Campus Hagenberg, Research Group HEAL , Upper Austria
Other locations	JKU, Profactor, Risc SW (all Upper Austria) , V-Research (Vorarlberg)
Research programme	metaheuristics, matheuristics, hybrid modeling and algorithms, simulation-based optimization, nonlinear systems identification
Planned realisation and outcomes	
Modeling- and optimization-framework for modeling and optimization of integrative processes in production and logistics. New hybrids based upon metaheuristics, matheuristics and simulation based optimization. Concepts for the orchestration of single optimization components	
History of establishment	2002: Founding of research group at the JKU Linz and starting point of development of the optimization framework HeuristicLab 2005: Move of research group HEAL (Heuristic and Evolutionary Algorithms) to Upper Austria University of Applied Sciences: Main projects: 2005 – 2008: FWF, Translational, L284-N04 Genetic Programming- based techniques for the design of virtual sensors 2008 – 2013: FFG, Josef Ressel Centre, 818420 Heureka! - Heuristische Optimierung 2009 – 2010: FFG, 813760, Procomposite: Nachhaltige Produktionsregelung 2009 – 2011: FH OÖ (HEAL, Logistikum): Cover.CORE: Cost Efficient Vehicle Routing with Constraint relaxation 2012 – 2014: EU-FP7, 282873, BioBoost: Biomass Based Energy Intermediates Boosting Biofuel Production 2011 – 2012: FFG Bridge, 829679, NPR
Selected company partners (max. 10)	Selected scientific partners (max. 5)
1. voestalpine	1. FH OÖ Research Groups HEAL und Logistikum
2. rosenbauer	2. JKU (Institute PLM und FLLL)
3. Eurofoam	3. Profactor
4. Gebrüder Weiss	4. V-Research
5. carvatech	5. RISC Software
6.	Selected international partners ¹(max. 5)
7.	1. Technische Universität Riga, Latvia
8.	2. University of Calabria, Italy
9.	3. Universidad de Malagá, Spain
10.	4. Michigan State University, USA
	5. Uicersidad de La Curuna, Spain
Planned start of the K-Project	May 2014 (4 years)
Planned number of personnel	approx. 8 (FTE) are involved (approx.. 6 FTE are scientists)
Total costs	EUR 3.280.000
Leader of consortium:	Prof. Dr. Michael Affenzeller, Upper Austria University of Applied Science, Head of research group HEAL and professor for heuristic optimization and machine learning
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¹ Partners with headquarters outside Austria