

COMET: K-Project

PAC	
Process Analytical Chemistry - Data Acquisition and Data Processing	
Main location	Linz (Upper Austria)
Other locations	Lenzing (Upper Austria), Vienna
Research programme	The PAC-consortium has set itself the goal to gain valid chemical information directly from the process streams in real-time. This information shall be used to open new optimization potentials for chemical processes in several industry sectors.
Planned realisation and outcomes	
(*) Innovative measurement principles for data acquisition: Enhanced NIR/MIR spectroscopy, implementation of WaGS, Quantum-Cascade-Laser detection, Tera-Hertz spectroscopy on solids, integration of micro sensors.	
(*) Novel approaches for integrated data processing: Novel chemometric models for quantification of substances in complex matrices, anomaly detection, detection of process convergence, predictive computational models	
History of establishment	The long term expertise of TU-Vienna, RECENDT and JKU-Linz was bundled and complemented by key-competences of additional partners. In conjunction with the userspecific competences of the company partners a competence- and technology platform was set up providing a reliable basis for the K-project PAC.
Selected company partners (max. 10)	Selected scientific partners (max. 5)
1. Brau Union AG	1. TU Wien
2. Metadynea Austria GmbH	2. RECENDT
3. Krems Chemie Chemical Services AG	3. JKU Linz
4. Lenzing AG	4. WOOD
5. Nufarm GmbH	5. SCCH
6. OMV Refining & Marketing GmbH	Selected international partners ¹ (max. 5)
7. Sandoz GmbH	1. Kelheim Fibres GmbH (Germany)
8.	2. Kemira Oyj (Finland)
9.	3.
10.	4.
	5.
Start Date	01.09.2010
Planned number of personnel	14 (FTE) thereof researcher 13
Total costs²	EUR 4,900 million
Leader of consortium:	RECENDT GmbH, Robert Holzer
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¹ Partners with headquarters outside Austria² First funding period: K1-Centres: 4 years, K2-Centers: 5 years;