## COMET: K-Project

### ECV

**Embedded Computer Vision**

<table>
<thead>
<tr>
<th>Main location</th>
<th>Vienna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other locations</td>
<td>Graz, Wels, Kapfenberg, Innsbruck</td>
</tr>
<tr>
<td>Research programme</td>
<td>Computer Vision, Embedded Systems</td>
</tr>
</tbody>
</table>

**Planned realisation and outcomes**

ECV aims at the joint development of computer vision algorithms and embedded hardware concepts for applications in demanding industrial contexts. Targeted applications impose strict constraints with respect to robustness and invariance against complex unconstrained (photometric, geometric) situations, while requiring fast computation on cost-efficient hardware. The focus is on (i) low-level methods for image and video analysis that are computationally efficient (ii) high level methods of video processing providing high robustness (iii) design methods for hardware/software co-design to achieve optimal system performance.

### History of establishment

Continuation of research of the Kplus competence centre "Advanced Computer Vision"

### Selected company partners

1. Fronius International GmbH
2. Böhler Edelstahl GmbH & Co KG
3. Dibit Messtechnik GmbH
4. BISO Schrattenecker GmbH
5. Siemens Österreich AG

### Selected scientific partners

1. AIT Austrian Institute of Technology GmbH
2. Joanneum Research Forschungsgesellschaft mbH
3. Technische Universität Graz
4. Technische Universität Wien
5. VRVis Zentrum für Virtual Reality und Visualisierung Forschungs GmbH

### Selected international partners

- Partners with headquarters outside Austria

### Start Date

January 1, 2008

### Planned number of personnel

13 (FTE) thereof researcher 12

### Total costs

EUR 5 Mio (for the full duration of the project – 5 years)

### Leader of consortium:

AIT Austrian Institute of Technology GmbH

### Contact:

Manfred Gruber
Donau-City-Straße 1, 1220 Wien
+43 50550 4183
manfred.gruber@ait.ac.at,
www.ait.ac.at