## COMET: K-Project

### ECO-2
#### ECO-PowerDrive-2

<table>
<thead>
<tr>
<th>Main location</th>
<th>Graz, Steiermark</th>
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<tbody>
<tr>
<td>Other locations</td>
<td>Gunskirchen, OÖ; Langkampfen, T; Wien</td>
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<td>Research programme</td>
<td>Reduction of regulated emission and fuel consumption of extremely downsized automobile-, Two-Wheeler- and garden equipment applications. This comprises extremely small compression ignition, spark ignition engines and hybrid propulsion concepts as well as alternative fuels with focus on „Real World“ operating conditions.</td>
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#### Planned realisation and outcomes
- Technologies for the reduction of „Real Drive Emission“ of Two-Wheeler and extremely small compression ignition propulsion
- Control strategies for two-stroke engines
- Lean combustion concepts for two-stroke engines
- Combustion concepts for extremely downsized compression ignition engines for EU6+ incl. exhaust gas after treatment
- Hybrid propulsion for motorcycles under real world operating conditions.

#### History of establishment
Based on the successful k-project ECO-Powerdrive (3.rd Call) a research consortium for the reduction of real world emission of small automobiles and two-wheeler was founded.

#### Selected company partners (max. 10)
1. AVL-List GmbH
2. BMW AG
3. BRP Powertrain GmbH & Co KG
4. Emitec GmbH
5. Heraeus Precious Metals GmbH & Co KG
6. OMV Refining & Marketing GmbH
7. Andreas STIHL AG & Co KG
8. Viking GmbH

#### Selected scientific partners (max. 5)
1. Inst.f. Internal Combustion Engines and Thermodynamics / TU-Graz
3. Inst.f. Chemistry/ KF-Uni
4. Univ. of Applied Sciences Upper Austria (Wels)

#### Selected international partners ¹ (max. 5)
1. BMW AG
2. Emitec GmbH
3. Heraeus Precious Metals GmbH & Co KG
4. Andreas STIHL AG & Co KG

#### Planned start of the K-Project
30.9.2014 (4 years)

#### Planned number of personnel
12.5 (FTE) are involved (2-3 FTE are scientists)

#### Total costs
EUR 5.873 mio.

#### Leader of consortium:
Prof. Helmut Eichlseder (Head of Institute) / Dr. Stephan Schmidt (Consortium Leader)

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¹ Partners with headquarters outside Austria