

COMET-Project

RC-LowCAP	
Research Center for Low Carbon Special Powertrain	
Main location	Graz, Styria
Other locations	Wels , Upper Austria
Research programme	<p><u>De-carbonization of small powertrains for tools and utility, personal mobility vehicle and light transport</u></p> <ul style="list-style-type: none"> - Use of CO2 neutral fuels and their use in special application propulsions considering real world emission behaviour - Reduction of CO2 emission by hybridisation and electrification - Further minimization of pollutant emissions - Assessment of CO2 emission over the whole life cycle
Planned realisation and outcomes	
<p>Concept for power-sport motorcycle range extender, Range extender concept for hand-held tools Smart-tool concept for extended functionality and monitoring of hand-held tools, Engine control designed for adaption on various Zero CO2 fuels blends, Advanced data fusion concepts for extended sensor data information, CO2 Life Cycle Assessment methodology for early development stages, Ultra-fast aftertreatment system for light transport, stoichiometric CI combustion powertrain system</p>	
History of establishment	The core consortium was formed in 2009 for the k-Project ECO-Powerdrive and extended in 2014 for the successor project ECO-PowerDrive-2
Selected company partners (max. 10)	<p>Selected scientific partners (max. 5)</p> <ol style="list-style-type: none"> 1. Inst. f. elektrische Messtechnik und Messsignalverarbeitung, TU-Graz 2. Inst. f. Chemie, KF-Uni Graz 3. FH-Oberösterreich, Standort Wels Forschungsgruppe Control Engineering & Forschungsgruppe Mechatronic Designs <p>Selected international partners¹ (max. 5)</p> <ol style="list-style-type: none"> 1. BMW AG 2. Continental Emitec GmbH 3. Andreas Stihl AG & Co. KG 4. Heraeus Precious Metals GmbH & Co KG 5. Prüfrex
Selected company partners (max. 10)	<ol style="list-style-type: none"> 1. AVL List GmbH 2. 3. BRP-Powertrain GmbH & Co KG 3. OMV Refining & Marketing GmbH 4. Steyr Motors GmbH 5. Tsetinis Consulting
Start of the COMET-Project	1.10.2018 (4 years)
Number of personnel	16 (FTE) are involved (15 FTE are scientists)
Total costs	EUR 5.81 mio
Leader of consortium:	Dr. Stephan Schmidt, Inst. f. Internal Combustion Engines and Thermodynamics, Graz University of Technology
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¹ Partners with headquarters outside Austria