Federal Ministry
Republic of Austria
Digital and
Economic Affairs

Federal Ministry
Republic of Austria
Transport, Innovation
and Technology

FFG
Promoting Innovation.

COMET: K-Project

ZPT+ - K-Project for non-destructive testing and tomography Plus - Quantitative and in-situ methods for inspection and materials characterization

Main location	Wels, OÖ
Other locations	Linz, Wien, Dresden/DE
Research programme	X-ray computed tomography- and Laser Ultrasonics-data evaluation Combination of NDT-expertise and materials know-how (NDT = non-destructive testing) In-situ NDT methods and coupling with materials simulation Extraction of quantitative materials data from NDT-measurements

Planned realisation and outcomes

Verified methods for X-ray computed tomography- and Laser Ultrasonics-data evaluation

Developed and tested in-situ NDT methods and methods for combining NDT and materials simulation

Methods for accurate determination of quantitative materials data (elastic modulus, porosity, grain size, fiber orientation and length, hardening depth,…) from NDT-measurements

Tested multi-modal approaches

History of establishment	ZPT+ is the follow-up project of the K-project for nondestructive testing and tomography

Selected company partners

1. Borealis Polyolefine GmbH
2. Böhler Schmiedetechnik GmbH
3. Böhler Edelstahl GmbH
4. Delphi Automotive Systems Austria GmbH
5. Dräxlmaier Group – EKB Elektro- u. Kunststoff-technik GmbH
6. FACC Austria GmbH
7. ÖGfZP – Österreichische Gesellschaft für zerstörungsfreie Prüfung
8. Voestalpine Stahl GmbH

Selected scientific partners

1. FH OÖ Forschungs & Entwicklungs GmbH
2. TU Wien, Institute of Materials Science and Technology
3. RECENDT GmbH
4. Fraunhofergesellschaft IKTS-MD Dresden/GE

Selected international partners [1]

1. Carl Zeiss Industrielle Messtechnik GmbH/GE
2. Kolbenschmidt GmbH/GE
3. PVA TePla Analytical Systems GmbH /GE
4. TU München - Institute for Carbon Composites/GE
5. ZF Friedrichshafen AG/GE

Planned start of the K-Project	September 2014 (Duration: 4 years)
Planned number of personnel	14 FTE are involved (13.2 FTE are scientists)
Total costs	EUR 5.4 Mio
Leader of consortium:	FH OÖ Forschungs & Entwicklungs GmbH
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[1] Partners with headquarters outside Austria