

COMET Centre (K1)

CEST	
CEST Competence Centre for Electrochemical Surface Technology	
Main location	Wiener Neustadt, Lower Austria
Other locations	Linz, Upper Austria
Research programme	Development of advanced materials by combinatorial electrochemistry, measures against materials degradation due to corrosion, development of novel electrochemical sensors, implementation of sustainable green surface technology, preparation and characterization of nano-catalysts for electrocatalytic and photoelectron catalytic applications.
Planned realisation and outcomes	
<ul style="list-style-type: none"> • Cr(VI) replacement in electrochemical plating processes • Electrochemical biomimetic sensor for toxic contaminants in food, monitoring of seawater and medical applications • High performance metal coatings on carbon composites for application in aircraft and satellites • Advanced corrosion protection measures by elucidating corrosion mechanisms • Optimized copper layers on silicon wafers for semi-conductor applications 	
History of establishment	CEST was founded in 2008 as successor to K+Centre ECHEM established in 2000.
Selected company partners (max. 10)	Selected scientific partners (max. 5)
<ol style="list-style-type: none"> 1. Böhler Edelstahl GmbH & Co KG 2. Collini Gesellschaft m.b.H 3. DELTA BLOC International 4. Doka GmbH 5. Fischer Edelstahlrohre Austria GmbH 6. Glanzstoff Management GmbH 7. JCT Analystechnik GmbH 8. Rembrandtin Lack GmbH Nfg. KG 9. voestalpine Wire Austria GmbH 10. voestalpine Stahl GmbH 	<ol style="list-style-type: none"> 1. AC²T Research GmbH 2. AIT Austrian Institute of Technology GmbH 3. Bulgarian Academy of Sciences 4. Johannes Kepler University Linz 5. Vienna University of Technology
	Selected international partners ¹ (max. 5)
	<ol style="list-style-type: none"> 1. Liebherr Toulouse, France 2. Infineon Technologies AG/ATV SC, Germany 3. Klüber Lubrication München SE & CoKG, Germany 4. Schleifring und Apparatebau GmbH, Germany 5. Umicore Galvanotechnik GmbH, Germany
Duration of the COMET Centre	01/2015 – 12/2022 (8 years)
Staff employed at the Centre	38,5 FTE (thereof 32,3 scientists)- 2020
Total costs	1 st Funding period: EUR 19,38 Mio (4 years) 2 nd Funding period: EUR 20,4 Mio (4 years)
Management of the Centre	Mag. (FH) Alexander Balatka, CFO, Managing Director Priv. Doz. Prof. (FH) DI Dr. Christoph Kleber, CSO, Scientific Director
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¹ Partners with headquarters outside Austria