

## COMET Centre (K1)

<b>CEST</b>	
<b>CEST Competence Centre for Electrochemical Surface Technology</b>	
<b>Main location</b>	Wiener Neustadt, Lower Austria
<b>Other locations</b>	Linz, Upper Austria
<b>Research programme</b>	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.
<b>Planned realisation and outcomes</b>	
<ul style="list-style-type: none"> <li>• Cr(VI) replacement in electrochemical plating processes</li> <li>• Electrochemical biomimetic sensor for toxic contaminants in food, monitoring of seawater and medical applications</li> <li>• High performance metal coatings on carbon composites for application in aircraft and satellites</li> <li>• Advanced corrosion protection measures by elucidating corrosion mechanisms</li> <li>• Optimized copper layers on silicon wafers for semi-conductor applications</li> </ul>	
<b>History of establishment</b>	CEST was founded in 2008 as successor to K+Centre ECHEM established in 2000.
<b>Selected company partners</b> (max. 10)	<b>Selected scientific partners</b> (max. 5)
<ol style="list-style-type: none"> <li>1. Böhler Edelstahl GmbH &amp; Co KG</li> <li>2. Collini Gesellschaft m.b.H</li> <li>3. DELTA BLOC International</li> <li>4. Doka GmbH</li> <li>5. Fischer Edelstahlrohre Austria GmbH</li> <li>6. Glanzstoff Management GmbH</li> <li>7. JCT Analystechnik GmbH</li> <li>8. Rembrandtin Lack GmbH Nfg. KG</li> <li>9. voestalpine Wire Austria GmbH</li> <li>10. voestalpine Stahl GmbH</li> </ol>	<ol style="list-style-type: none"> <li>1. AC<sup>2</sup>T Research GmbH</li> <li>2. AIT Austrian Institute of Technology GmbH</li> <li>3. Bulgarian Academy of Sciences</li> <li>4. Johannes Kepler University Linz</li> <li>5. Vienna University of Technology</li> </ol>
	<b>Selected international partners</b> <sup>1</sup> (max. 5)
	<ol style="list-style-type: none"> <li>1. Liebherr Toulouse, France</li> <li>2. Infineon Technologies AG/ATV SC, Germany</li> <li>3. Klüber Lubrication München SE &amp; CoKG, Germany</li> <li>4. Schleifring und Apparatebau GmbH, Germany</li> <li>5. Umicore Galvanotechnik GmbH, Germany</li> </ol>
<b>Duration of the COMET Centre</b>	01/2015 – 12/2022 (8 years)
<b>Staff employed at the Centre</b>	38,5 FTE (thereof 32,3 scientists)- 2020
<b>Total costs</b>	1 <sup>st</sup> Funding period: EUR 19,38 Mio (4 years) 2 <sup>nd</sup> Funding period: EUR 20,4 Mio (4 years)
<b>Management of the Centre</b>	Mag. (FH) Alexander Balatka, CFO, Managing Director Priv. Doz. Prof. (FH) DI Dr. Christoph Kleber, CSO, Scientific Director
<b>Contact:</b>	2700 Wiener Neustadt, Viktor-Kaplan-Str. 2 <a href="mailto:office@cest.at">office@cest.at</a> ; <a href="http://www.cest.at">www.cest.at</a>

<sup>1</sup> Partners with headquarters outside Austria