

COMET CENTRE (K1)

KOMPETENZZENTRUM HOLZ GMBH

FORSCHUNGSPROGRAMM: WOOD – TRANSITION TO A SUSTAINABLE BIOECONOMY

Main location: Linz (Upper Austria)

Other locations: St. Veit/Glan (Carinthia), Tulln (Lower Austria)

Thematic area: Material & Production



Thematic focuses

- Bio-based materials, wood and wood-based materials
- Bio-composite materials
- Process technologies & biorefinery (digitalisation)
- Modern analytics
- Bioeconomy
- Circular Economy

Planned realisation and outcomes

Future challenges from a scientific and technological point of view are seen as (1) the holistic and cascading use of renewable raw materials, (2) the increasing demands on functionality and properties of materials and products, and (3) new process technologies that take into account the aspects of the circular economy including recycling.

The research programme "WOOD - TRANSITION TO A SUSTAINABLE BIOECONOMY" takes up these challenges and aims at (1) new or improved production processes, (2) new bio-based products and materials, (3) new or improved methods (e.g. in analytics) with a (4) higher resource efficiency (saving of raw materials, energy, machine load and personnel). The targeted innovations should make a significant contribution to the sustainability and strengthening of the bioeconomy, as the participating partner companies use them in their production plants and successfully market the resulting products on an international level.

History of establishment

The centre was founded in 2001 as a non-profit organisation within the framework of the K plus programme. (2001 - 2007). Subsequently, the work as a COMET K1 centre was continued from 2008 - 2014 and then 2015 – 2022. The Non COMET area was built up with many national and international research projects to a volume of over € 4.5 million per year. Currently, more than 120 employees work at Wood K plus for over 100 corporate partners together with a large network of renowned scientific institutions.

COMET FACTSHEET

Selected company partners (max. 10):

1. Fritz Egger GmbH & Co
2. FunderMax GmbH
3. Heraeus Deutschland GmbH & Co.KG
4. Henkel & Cie.AG
5. Lenzing AG
6. Mondi Frantschach GmbH
7. Schunk Carbon Technology GmbH
8. Stora Enso Wood Products GmbH
9. STAEDTLER Mars GmbH & Co. KG
10. TEAM7 Natürlich Wohnen GmbH

Selected scientific partners (max. 5):

1. University of Natural Resources and Life Sciences
2. Johannes Kepler Universität Linz
3. TU Wien
4. TU Graz

Selected international¹ partners (max. 5):

1. ETH Zürich
2. Spanish National research Council (CISC)
3. University of Helsinki
4. University of Tennessee
5. University of Toronto

Duration:	01.01.2023 bis 31.12.2030 (8 years)
Staff employed at the Centre:	110 FTE, thereof 82 scientists
Management:	DI Boris Hultsch (Managing Director; CEO) Prof. Dr. Wolfgang Gindl-Altmutter (Scientific Director)
Contact:	Kompetenzzentrum Holz GmbH Altenbergerstraße 69, A-4040 Linz Tel.: +43(0)732 2468 – 6751: Mail: zentrale@wood-kplus.at Website: www.wood-kplus.at

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The COMET Centre is funded within COMET – Competence Centers for Excellent Technologies – by BMK, BMAW as well as the co-financing federal provinces [federal province 1, federal province 2, federal province 3]. The COMET programme is managed by FFG. www.ffg.at/comet

¹ Partners with headquarters outside Austria