



CENTROPE_TT SME INNOVATION GUIDE

A **GUIDELINE** THROUGH THE R&D
LANDSCAPE OF THE CENTROPE REGION



DEAR READER,

The centrop_e_tt SME Innovation Guide is one of the outputs of the transnational EU funded project [**centrop_e_tt**] and it gives an insight into the diversity and strength of research & development (R&D) institutions from the Centrop_e Region. The SME Innovation Guide in particular targets SMEs who are looking for potential cooperation partners. As any sustainable and profitable cooperation is based on good personal contacts and trust, these qualities can best be developed with partners within geographical proximity - from the R&D sector in the Centrop_e Region.

The SME Innovation Guide is based on the already existing R&D project [**database**] and comprises around 100 detailed profiles of R&D institutions and their projects from the Austrian, Czech, Slovak and Hungarian parts of Centrop_e. Each profile covers valuable information about:

- Contact data
- Research focus
- Developed technologies
- Number of research positions
- Key research equipment
- Main projects
- Achievements
- Main cooperation partners
- Expectations of cooperation partners

THE PROFILES ARE DIVIDED INTO THE FOLLOWING 7 BRANCHES:

- Life science
- Chemistry and non-metal materials
- Information technologies
- Electronics and instruments
- Physics, metal materials and machinery
- Bioenergy, agriculture and food technology
- Other

The published profiles are only an extract of the great R&D potential in the Centrop_e Region. Our centrop_e_tt R&D Database already consists of more than 2,400 R&D contacts and it is growing regularly. However, we are convinced that the centrop_e_tt SME Innovation Guide helps to visualise and promote the great R&D potential to

be found in Centrop_e Region and it will help our target groups to start and foster interregional cooperation among one another.

THE SELECTION OF THE PUBLISHED PROFILES WERE BASED ON THE FOLLOWING CRITERIA:

- Choice of project partners of centrop_e_tt
- Willingness of R&D institutions to fill in the profiles
- Regional main focus on research & development
- Vienna: Please find the full range of R&D institutions in Vienna on www.centrop_e_tt.info/rd-database-en. Since there is no Viennese partner in the centrop_e_tt project the institutions presented in this guide constitute a selection of R&D institution receiving funding by the City of Vienna.

THE FOLLOWING ORGANISATIONS PROVIDED THEIR PROFILES TO THE SME INNOVATION GUIDE:**LIFE SCIENCE**

- Aeroworks [CZ]
- Analysis of Biologically important molecular complexes [CZ]
- Automated Analysis and Verification on Research Group - Veri FIT [CZ]
- Brno Epilepsy Centre [CZ]
- Cardiovascular Animal Research Centre [CZ]
- Cytokinetics [CZ]
- Danube University Krems / Faculty of Health and Medicine [AT]
- Department of Biology [CZ]
- Department of Biophysical Chemistry and Molecular Oncology [CZ]
- Department of Free Radical Pathophysiology [CZ]
- Institute of Biostatistics and Analyses [CZ]
- Laboratory of Cell Differentiation [CZ]
- Laboratory of Molecular Plant Physiology [CZ]
- Laboratory of Recombination and DNA Repair [CZ]
- Loschmidt Laboratories [CZ]
- Medicinal Chemistry [CZ]

- National Centre for Biomolecular Research (CZ)
- University of West Hungary / Faculty of Natural Sciences / Biological Institute / Zoology / Neurobiology Research Group (HU)

CHEMISTRY AND NON-METAL MATERIALS

- Austrian Research Institute for Chemistry and Technology (OFI) / Surface Technology & Material Analysis (AT)
- Biocolloids (CZ)
- Department of Bioanalytical Instrumentation (CZ)
- Holzforschung Austria, Research institute and accredited testing and inspection body of the Austrian Society for Wood Research (ÖGH) (AT)
- Institute of Advanced Materials (CZ)
- Polymer Group (CZ)
- Research group of smart materials for organic electronics, photonics and sensors (CZ)
- Slovak University of Technology in Bratislava / Faculty of Chemical and Food Tehcnology (FCHFT STU) / Institute of Analytical Chemistry (SK)
- Slovak University of Technology in Bratislava / Faculty of Chemical and Food Tehcnology (FCHFT STU) / Institute of Chemical and Environmental Engineering (SK)
- Slovak University of Technology / Faculty of Chemical and Food Technology / Institute of Organic Chemistry, Catalysis and Petrochemistry / Department of Organic Technology (SK)
- Slovak University of Technology in Bratislava / Faculty of Chemical and Food Tehcnology (FCHFT STU) / Instiute of polymer materials / Department of chemical technology of wood, pulp and paper (SK)
- Slovak University of Technology in Bratislava / Faculty of Mechanical Engineering / Institute of Process and Fluid Engineering (SK)

INFORMATION TECHNOLOGIES

- Austrian Academy of Sciences / Institute for Integrated Sensor Systems (AT)
- BUT Speech @ FIT (CZ)
- Centre for Biomedical Image Analysis (CZ)

- CURE Center for Usability Research and Engineering (AT)
- Forschungszentrum Telekommunikation Wien GmbH / FTW (AT)
- Graphics and Video Group: Graph@FIT (CZ)
- Hardware-Software Co-design Research Group: Lissom@FIT (CZ)
- Laboratory of Searching and Dialogue (CZ)
- Natural Language Processing Research Group (CZ)
- SBA Research GmbH (AT)
- Széchenyi István University / Faculty of Engineering Sciences/ Jedlik Ányos Institute of IT, Electrical and Mechanical Engineering / Department of Mathematics and Computational Sciences (HU)
- University of West Hungary / Faculty of Geoinformatics (HU)
- Verein Softnet Austria (AT)
- VRVis Center for Virtual Reality and Visualization Research, Ltd (AT)

ELECTRONICS AND INSTRUMENTS

- AIT Austrian Institute of Technology GmbH (AT)
- Brno group of research centre DAR (CZ)
- Coherent Lasers and Interferometry (CZ)
- Department of Radio Electronics (CZ)
- Detection Systems (CZ)
- Measurement and Data Processing in Medicine (CZ)
- University of Vienna / Faculty of Physics / Physics of Nanostructured Materials / Nanomaterials, Micromaterials (AT)
- Széchenyi István University / Faculty of Engineering Sciences/ Baross Gábor Institute of Built Environment and Transport / Department of Logistics and Forwarding (HU)

PHYSICS, METAL MATERIALS AND MACHINERY

- AC2T research GmbH (AT)
- Advanced Nanotechnologies and Microtechnologies (CZ)
- Brittle Fracture Group (CZ)
- CEST Centre of Electrochemical Surface Technology (AT)
- Department of Physical Electronics (CZ)
- Electrical and Magnetic Properties Group (CZ)
- Group of Tomáš Tyc (CZ)

- Heat Transfer and Fluid Flow Laboratory (CZ)
- Institute of Process and Environmental Engineering (CZ)
- Slovak University of Technology in Bratislava / Faculty of Materials Science and Technology in Trnava / Institute of Industrial Engineering, Management and Quality (CZ)
- Slovak University of Technology in Bratislava / Faculty of Materials Science and Technology in Trnava / Institute of Materials Science / Materials Science (SK)
- Slovak University of Technology in Bratislava / Faculty of Materials Science and Technology in Trnava / Institute of Production Technologies / Production Technologies (SK)
- Slovak University of Technology in Bratislava / Faculty of Mechanical Engineering / Institute of Applied Mechanics and Mechatronics (SK)
- Széchenyi István University / Faculty of Engineering Sciences / Regional University Knowledge Centre for Vehicle Industry (JRET) (HU)
- Tribology research group (CZ)
- University of West-Hungary (UWH) and Pannon Development Foundation (PDF) / Technology Center (HU)
- Analytical Chemistry / Christian Doppler Laboratory for Immunoanalytics and Food (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Center for Analytical Chemistry / Water Analysis and QA-Systems (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Center for Analytical Chemistry / Analyse of Indoor Moulds (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Center for Analytical Chemistry / Christian Doppler Laboratory for Mycotoxin analysis (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Environmental Biotechnology / Anaerobic Digestion (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Environmental Biotechnology / Ecotoxicology and microbiology (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Institute for Biotechnology in Plant production (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Institute for Environmental Biotechnology / Contaminated Land Management (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Institute for Natural Materials Technology (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Institute of Animal Nutrition, Products, and Nutrition Physiology (AT)
- Vienna University of Technology / IFA-Tulln / Center for Analytical Chemistry / DNA Analysis Group (AT)
- VUJE, a.s. (SK)

BIOENERGY, AGRICULTURE and FOOD TECHNOLOGY

- Austrian Centre of Industrial Biotechnology (acib) (AT)
- Bioenergy 2020+ GmbH (AT)
- ERBER AG/BIOMIN/ROMER LABS/BIO-FERM (AT)
- ESM-YZAMER, energy services and monitoring (SK)
- Francisco Josephinum Secondary College and Research Institute / Food Technology Centre (AT)
- University of Applied Sciences Wr. Neustadt / Degree Programme Biotechnical Processes, (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Center for Analytical Chemistry (AT)
- University of Natural Resources and Life Sciences, Vienna (BOKU) / Department for Agrobiotechnology, IFA-Tulln / Center for Analytical Chemistry / Christian Doppler Laboratory for Mycotoxin Metabolism (AT)
- University of Natural Resources and Life Sciences, Vienna / Department for Agrobiotechnology, IFA-Tulln / Center for

OTHER

- Güssing Energy Technologies - GET (AT)
- University of Applied Sciences – Fachhochschulstudiengänge Burgenland Gesellschaft m.b.H. (AT)
- University of Applied Sciences – Fachhochschulstudiengänge Burgenland Gesellschaft m.b.H., Forschung & Technologietransfer Pinkafeld GmbH / Core Competence Energy & Environmental Management / Josef-Ressel-Zentrum: CFD-Centre Austria (AT)
- University of West Hungary / Faculty of Natural Sciences / Institute of Geography and Environmental Sciences, Department of Physical Geography and Department of Biology / Jakucs Laszlo Karst Research Group (HU)

On behalf of the centrop_e_tt project team ecoplus. The business Agency of Lower Austria in its role as leadpartner of centrop_e_tt would like to offer many thanks to all the institutions who made the effort to provide all the information for this interesting insight into their activities!

Enjoy reading and good luck for successful interregional cooperation in the Centrop_e Region!

St. Pölten, October 2011



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CENTROPE_TT PROJECT PARTNERS ARE:



CHECKLIST FOR SUCCESSFUL TRANSNATIONAL TECHNOLOGY COOPERATION*

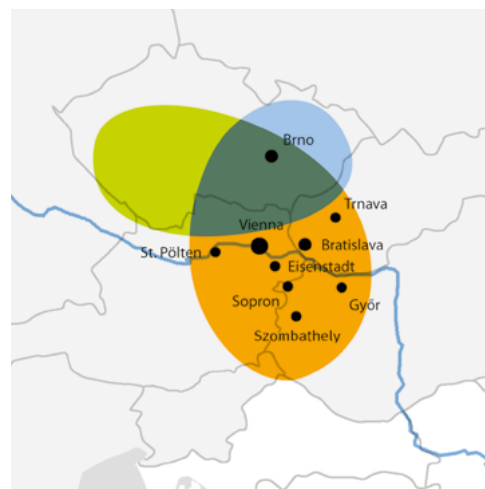
- Search for cooperation partners within the own geographic proximity. This allows frequent personal contacts.
- Openness for new ways of thinking and flexible approach towards new partners and new business activities.
- Accordance of planned cooperation with the strategy of the own organisation.
- Clarity about own core competences and therefore about own cooperation needs.
- Transparency about needs, demands and expected goals between all partners involved.
- Allocation of adequate capacities to the cooperation project, in particular of personnel resources.
- Availability of good communication skills in English language or in the mother tongue of cooperation partners.
- Frequent personal communication during project implementation.

* Based on the experience of centrope_tt project partners during the implementation of the innovation voucher (transnational cooperation cheque).

CENROPE REGION

The Kittsee Declaration of September 2003 marked the launch of the CENTROPE initiative. This meeting of political decision-makers of (then) 14 provinces, regions, counties and cities was dedicated to the fundamental intention of building the **Central European Region** (CENTROPE). Above all, it was agreed to

- establish CENTROPE as a common region of growth and prosperity and support all measures towards the attainment of this goal,
- create an attractive, internationally respected quality location covering all areas of life and improve the frame conditions for cross-border cooperation and
- intensify cooperation by networking existing initiatives, communicate the future potential of the region to the public and strengthen social and entrepreneurial commitment to the Central European Region.



CENTROPE is located in the heart of Europe encompassing the border quadrangle between four European countries:

- Austria
- Slovakia
- Hungary
- Czech Republic

Centrope is a living and working space for about six and a half million people. Its convenient

location and expanding market make CENTROPE an economic and investment space that offers excellent opportunities both for large-scale international corporations as well as for small medium-sized enterprises. Situated at the crossroads of important European transport corridors and enjoying efficient international airports, CENTROPE offers excellent accessibility and short distances to all European key markets.

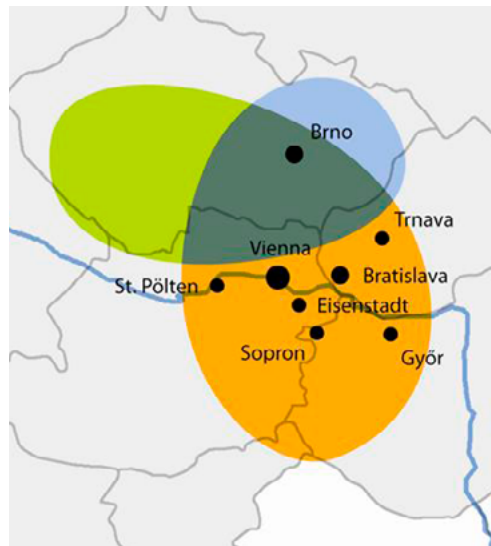
CENTROPE is inter alia characterised by a staggering number of research and higher education institutions, which together constitute a valuable potential for the future development of the region. For example, it is home to 25 public universities and art academies as well as numerous extramural research facilities, universities of applied science, innovation centres and R&D-oriented enterprises. Within the last years the amount of sustainable cooperations between economy, research and educational institutions of the Central European Region has significantly arisen. By working together, CENTROPE can evolve into a strong know-how and knowledge region in the European higher education and research area. A coordinated approach and common transnational cooperation in CENTROPE will help all four countries to prevail in a globalised competitive situation.

For manifold reasons, all efforts should be taken to create a prospering European Region, where the existing strengths in economy, society and politics as well as the diversity of languages and culture, are utilised for a dynamic development.

[[Further information](#)]

ABOUT CENTROPE_TT

centrope_tt is an international experts community for technology transfer and innovation support acting in the neighbouring regions of Austria, Czech Republic, Hungary and Slovakia - **called CENTROPE**. Supported by a 2 mil. EUR EU-project, 15 Centrope_tt partner institutions have been establishing different tools for stimulation of cross-border technology transfer between enterprises and universities/research institutes since 2009. The project is realized in the **CENTRAL EUROPE European Territorial Cooperation 2007 – 2013 program**. For further information about centrope_tt see: [www.centrope-tt.info]



THE FOLLOWING SERVICES / TOOLS HAVE BEEN DEVELOPED IN THE FRAME OF CENTROPE_TT:

CENTROPE_TT VOUCHER - A CROSS BORDER FINANCING INSTRUMENT

The centrope_tt voucher is a newly developed R&D cooperation tool established by the centrope_tt voucher team to provide access to financial support for 50 transnational science to business cooperations in Centrope. The target of these innovation vouchers was to help SMEs and R&D institutions in the Centrope region to develop a transnational cooperation and to enhance knowledge transfer between the stakeholders. The voucher is used for financing inter alia the following activities such as developing

a new product / prototype, a business plan for an innovative product, tailoring training in new technologies, analysing technology transfer potential etc.

To facilitate the search for a suitable research institution in the Centrope Region, Centrope experts have developed the centrope_tt map database. Via the project website, interested parties can find free online access to this R&D database.

[Further information]

CENTROPE TT R&D MAP- A DATABASE WITH MORE THAN 2.400 R&D CONTACTS

The centrope_tt map offers an online database listing over 2,400 R&D institutes and enterprises in the Centrope Region at its site [[LINK](#)]. Searching by region and discipline enables both company executives and scientists of research institutions to obtain quick and targeted information about research providers in the adjoining regions. Through centrope_tt, the potential for interregional cooperation is to be optimally utilised and exploited.

The centrope_tt map has been set up in cooperation with CentropeMAP.

The registration and publishing of a profile in the database is free of charge!

CENTROPE TT SOCIAL NETWORK ANALYSIS

The "Centrope R&D cooperation network- A Social Network Analysis" study was conducted within centrope_tt.

Target of this study was to analyse the R&D landscape within the Centrope Region. The main questions were:

- Do cooperations exist between the R&D players within the Centrope Region respectively in the Europe Union (EU)?
- Does one R&D Network or do single / isolated cooperation initiatives exist in the Centrope Region?

- Who works together with whom? Who is the leading force when establishing and supporting R&D cooperations among R&D providers within Centrope?

The SNA Analysis report and its summary are available on: [www.centrope-tt.info]

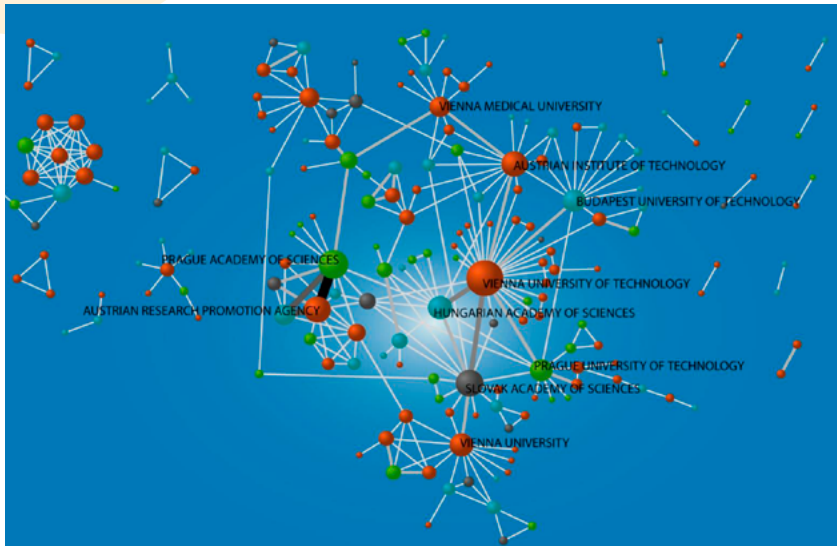


FIGURE: Internal CENTROPE R&D network

CENTROPE TT COMMUNITY IN XING

An own technology transfer community was founded in XING. Since being founded, the number of members has been ever rising- even without active advertising by the XING Group. Each member gets free space for posting information about technology transfer and important technology topics. An electronic newsletter is regularly prepared for the XING community.

CENTROPE TT ACADEMY - A TRAINING TOOL FOR R&D EXPERTS

The centrope_tt Academy is a training service that provides technology experts with a comprehensive understanding of the different subsidy and financing structures in the Centrope countries. Moreover, the experts also receive intercultural communication training.

The core target of this 4 session training is to provide experts with profound information on how to assist companies / institutes in finding

the correct R&D contacts and successfully establishing communication and collaboration between these two parties.

THE FOUR TOPICS ARE:

- Innovation Support Services
- Funding & Financing
- Technology Transfer and Research
- Intercultural skills

The courses are held in four sessions, 2 days each, in all four Centrope-countries. All courses are accompanied by innovation clubs: site excursions to innovation leaders, meeting with local experts and successful start-ups.

[More information]

MATCH MAKING EVENTS - BRINGING TOGETHER ECONOMY AND RESEARCH

The centrope_tt project team has organised several kinds of international match making events during the project duration.

Target of these events is to offer economists and researchers an optimized platform to get in contact with each other and to start new cooperations.

AUSTRIA

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HUNGARY

Chamber of Commerce and Industry for Győr-Moson-Sopron Country

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