

# R&D in Lower Austria

Speaker: Rainer Gotsbacher, M.Sc.  
Date: June 2010



# ecoplus. The Business Agency of Lower Austria

Managing Director Helmut Miernicki  
100% owned by the province of Lower Austria, 77 employees

## companies & technology

Claus Zeppelzauer

- ▶ networks & clusters
- ▶ internationalization
- ▶ technopols

## business locations & services

Martin Fassl

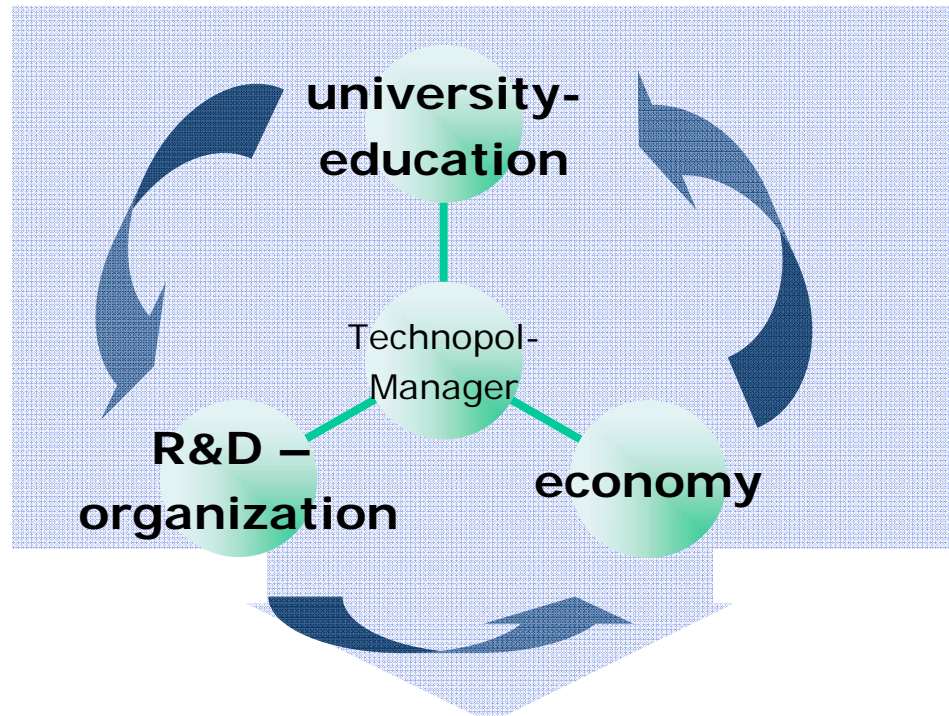
- ▶ investor services
- ▶ business parks

## projects & initiatives

Werner Bauer

- ▶ regional support
- ▶ financial management and control

## Duties of a Technopolmanager



R&D - Projects

PR and key account

Know how transfer/Start up

Technological site development

# How to find Partners from Lower Austria

**R&D Facilities and Locations**

**Hightech-Companies**

## CENTROPE TT R&D Database: LOWER AUSTRIA

<b>Non-university research</b>	<b>31</b>
<b>Other</b>	<b>7</b>
<b>Private company</b>	<b>135</b>
<b>University</b>	<b>9</b>

Per 30.06.2010

# Forschungsatlas.info

## Herzlich willkommen!

Der Forschungsatlas Niederösterreich bietet eine Übersicht über eine Vielzahl von Forschungseinrichtungen in den unterschiedlichsten wissenschaftlichen Disziplinen. Über die Wahl der Forschungsfelder oder Forschungsschwerpunkte oder über die Suche gelangen Sie mit nur wenigen Klicks zu dem Forschungsdienstleister Ihrer Wahl.

- |   |  |
|---|--|
| ■ <a href="#">Ackerbau, Pflanzenzucht, Pflanzenschutz</a>               | ■ <a href="#">Pädagogik, Erziehungswissenschaften</a>                      |
| ■ <a href="#">Anatomie, Pathologie</a>                                  | ■ <a href="#">Pharmazie, Pharmakologie, Toxikologie</a>                    |
| ■ <a href="#">Angewandte Statistik, Sozialstatistik</a>                 | ■ <a href="#">Physik, Mechanik, Astronomie</a>                             |
| ■ <a href="#">Architektur</a>   | ■ <a href="#">Politische Wissenschaften</a>                                |
| ■ <a href="#">Bautechnik</a>  | ■ <a href="#">Psychiatrie und Neurologie</a>                               |
| ■ <a href="#">Bergbau, Metallurgie</a>                                  | ■ <a href="#">Psychologie</a>  |
| ■ <a href="#">Biologie, Botanik, Zoologie</a>                           | ■ <a href="#">Raumplanung</a>  |
| ■ <a href="#">Chemie</a>  | ■ <a href="#">Rechtswissenschaften</a>                                     |
| ■ <a href="#">Elektrotechnik, Elektronik</a>                            | ■ <a href="#">Sonstige philologisch-kulturlinguistische Richtungen</a>     |
| ■ <a href="#">Forst- und Holzwirtschaft</a>                             | ■ <a href="#">Sonstige und interdisziplinäre Geisteswissenschaften</a>     |
| ■ <a href="#">Gartenbau, Obstbau</a>                                    | ■ <a href="#">Sonstige und interdisziplinäre Humanmedizin</a>              |
| ■ <a href="#">Geographie</a>  | ■ <a href="#">Sonstige und interdisziplinäre Land- und Forstwirtschaft</a> |
| ■ <a href="#">Geologie, Mineralogie</a>                                 | ■ <a href="#">Sonstige und interdisziplinäre Naturwissenschaften</a>       |
| ■ <a href="#">Historische Wissenschaften</a>                            | ■ <a href="#">Sonstige und interdisziplinäre Sozialwissenschaften</a>      |
| ■ <a href="#">Hydrologie, Hydrographie</a>                              | ■ <a href="#">Sonstige und interdisziplinäre Technische Wissenschaften</a> |
| ■ <a href="#">Hygiene, medizinische Mikrobiologie</a>                   | ■ <a href="#">Soziologie</a>   |
| ■ <a href="#">Klinische Medizin</a>                                     | ■ <a href="#">Sprach- und Literaturwissenschaften</a>                      |
| ■ <a href="#">Kunstwissenschaften</a>                                   | ■ <a href="#">Technische Chemie, Brennstoff- und Mineralöltechnologie</a>  |
| ■ <a href="#">Maschinenbau, Instrumentenbau</a>                         | ■ <a href="#">Theologie</a>  |
| ■ <a href="#">Mathematik, Informatik</a>                                | ■ <a href="#">Verkehrswesen, Verkehrsplanung</a>                           |
| ■ <a href="#">Medizinische Chemie, Medizinische Physik, Physiologie</a> | ■ <a href="#">Veterinärmedizin</a>   |
| ■ <a href="#">Meteorologie, Klimatologie</a>                            | ■ <a href="#">Viehzucht, Tierproduktion</a>                                |
|   | ■ <a href="#">Wirtschaftswissenschaften</a>                                |



### ? Tastenkombinationen zur Steuerung der Karte

Aktivierung der Karte:	<b>Alt K</b>
Auswählen/Aktivierung der Standorte:	<b>Tabulator-Taste</b>
Blättern durch die Kurzinformation:	<b>Bild auf/Bild ab</b>
Detailinformation:	<b>Umschalt+I</b>
Öffnen der Homepage:	<b>Umschalt+H</b>
Kartenansicht vergrößern/verkleinern:	<b>Pluszeichen/Minuszeichen</b>
Karte nach links/rechts/oben/unten verschieben:	<b>Cursor</b>
Vergrößerte Darstellung der Karte im Popup öffnen:	<b>Umschalt+Pluszeichen</b>



## Main R&D locations in Lower Austria



## **Bridging Institutions in Lower Austria e.g.**

**ecoplus. Business Agency of Lower Austria**

**→ Technopolmanagers**

**→ Cluster Managers**

**Chamber of Commerce**

**→ TIP, Technology and Innovation Partners**

**tecnet GmbH**

**others....**



## **R&D & Hightech Industry in Lower Austria**

**Exzerpt of R&D located in Lower Austria**

**This list is not exhaustive!**

# **AIT Austrian Institute of Technology**

## **Departments**

**Energy**

**Mobility**

**Safety & Security**

**Health & Environment**

**Foresight & Policy Development**

**900 employees (Vienna, Seibersdorf, Wr. Neustadt, Ranshofen, Leoben)**

**[www.ait.ac.at](http://www.ait.ac.at)**

# **IST - Institute of Science and Technology Austria**

## **Science**

**Life Sciences, Physics, Chemistry, Mathematics, and  
Computer Science**

**Pure, curiosity-driven research**

**Focus on multidisciplinary approaches**

**Independent research groups led by Professors and  
tenure-track Assistant Professors**

**[www.ist.ac.at](http://www.ist.ac.at)**

# Technopol Wiener Neustadt

## Modern Industrial Technologies

- materials
- process and chemical engineering
- medical technology
- sensory technology and actuators
- surfaces



# Technopol Krems

## Medical Biotechnology

- Blood purification systems
- Tissue engineering (biocompatible materials)
- Cell therapy
- Cell biology and cellular physiology

## New fields

- Building physics/energy and systems
- ICT and visual computing.



## Technopol Tulln

### Agro- Environmental Biotechnology

- Bioanalytics
- Environmental technology
- Crop breeding
- Renewable natural resources

## Wieselburg

- Renewable Energy Sources





## Technopol Tulln: Facts & Figures

330	Workplaces
270	R&D - Workplaces
170	Students
5	universitary Institutes
10	Technology Companies
3 500 m <sup>2</sup>	Rentable office- and labspace



# Technopol Tulln

## Research establishments

- IFA Tulln – Interuniversity Research institute for Agrobiotechnology
- CD Laboratory for mycotoxin-research
- CD Laboratory for detection of allergenic food contaminants
- University of Applied Sciences Wiener Neustadt/ location Tulln
- Zuckerforschung Tulln

## University education

- University of Applied Sciences WN/ Tulln
- IFA Tulln (BOKU / Marie Curie trainings-site)
- Landwirtschaftliche Fachschule Tulln



## Technopol Tulln: Companies



55pharma Drug Discovery & Development AG



bio-ferm GmbH



Biomini Holding GmbH



Romer Labs Holding GmbH



Riviera GmbH



Sealife Pharma GmbH



Sciotec Diagnostic GmbH

## UFT – research center of university BOKU Tulln

...comming soon.....

Total area app. 15.000 m<sup>2</sup>

- **Start of research - spring 2011**
- Estimated costs 54,8 mill Euro
- 350 – 450 additional researchers at Tulln

[www.boku.ac.at](http://www.boku.ac.at)



# Technopol Krems

## Medical Biotechnology

- Blood purification systems
- Tissue engineering (biocompatible materials)
- Cell therapy
- Cell biology and cellular physiology

## New fields

- Building physics/energy and systems
- ICT and visual computing.



# Danube University Krems



15 Departments

Total number of students: >4.700



## Dpt. of Clinical Medicine and Biotechnology

- Center for Bioinformatics and Biostatistics
- Center for Biomedical Technology
- Center for Regenerative Medicine<sup>20</sup>



# IMC University of Applied Sciences



7 Departments

Total number of students: >1.800



- Health Management
- Medical & Pharmaceutical Biotechnology

## Biotechnology Companies

Arthro Kinetics GmbH

Fresenius Medical Care Adsorber Tec GmbH

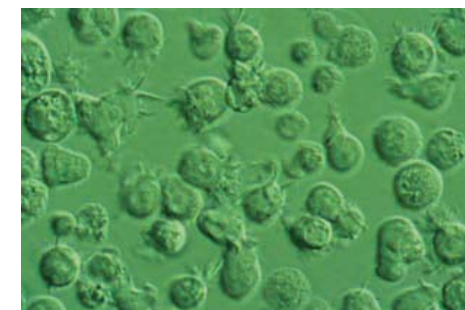
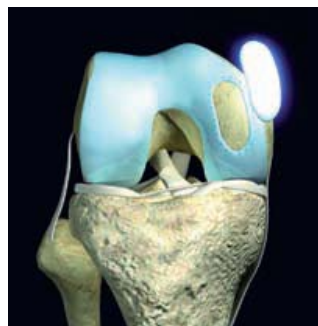
Tissuemed Bioscience GmbH

Cells+Tissue Bank Austria

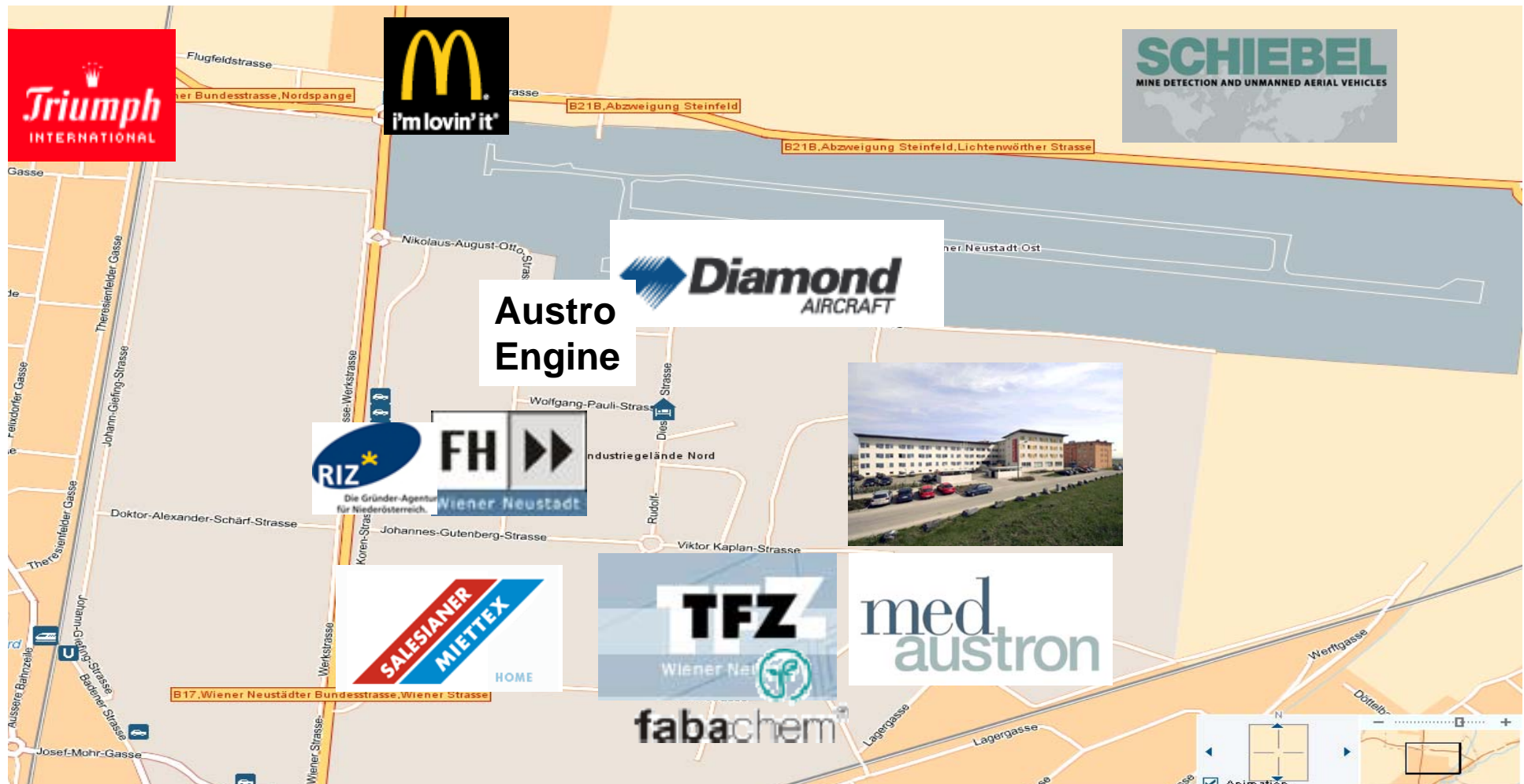
Cellmed Research GmbH



Fresenius Medical Care



## Technopol Wiener Neustadt | The narrow area



## Technopol Wiener Neustadt | Univ. of Appl. Sciences

### Key course elements

economy

technology

health

security

sport and management

2.500 students –  
59 countries

[www.fhwn.ac.at](http://www.fhwn.ac.at)

**~350 employees**





## Technopol Wiener Neustadt | Univ. of Appl. Sciences

Technology, e.g.

Mechanics / Microsystems

IT

Surface Engineering and Tribology

Simulation

[www.fhwn.ac.at](http://www.fhwn.ac.at)

**~350 employees**



## Technopol Wiener Neustadt | R&D Center

- ~ 16 Companies / R&D Facilities
- ~ 300 employees
- ~ 250 Scientists





# Austrian Institute of Technology Unit Biomedical Systems

## Core competencies and focuses



Medical Systems Development

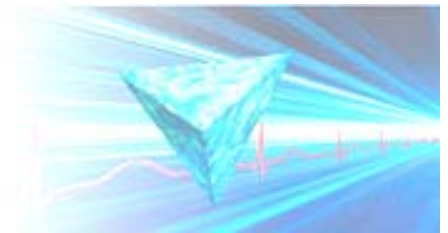
Rehabilitation-technologies

Bio-Signal-processing and Telemonitoring

Medical Informatics

Clinical simulation and e-learning

**[www.ait.ac.at](http://www.ait.ac.at)**



**~22 employees**

# Austrian academy of sciences Institute for Integrated Sensor Systems



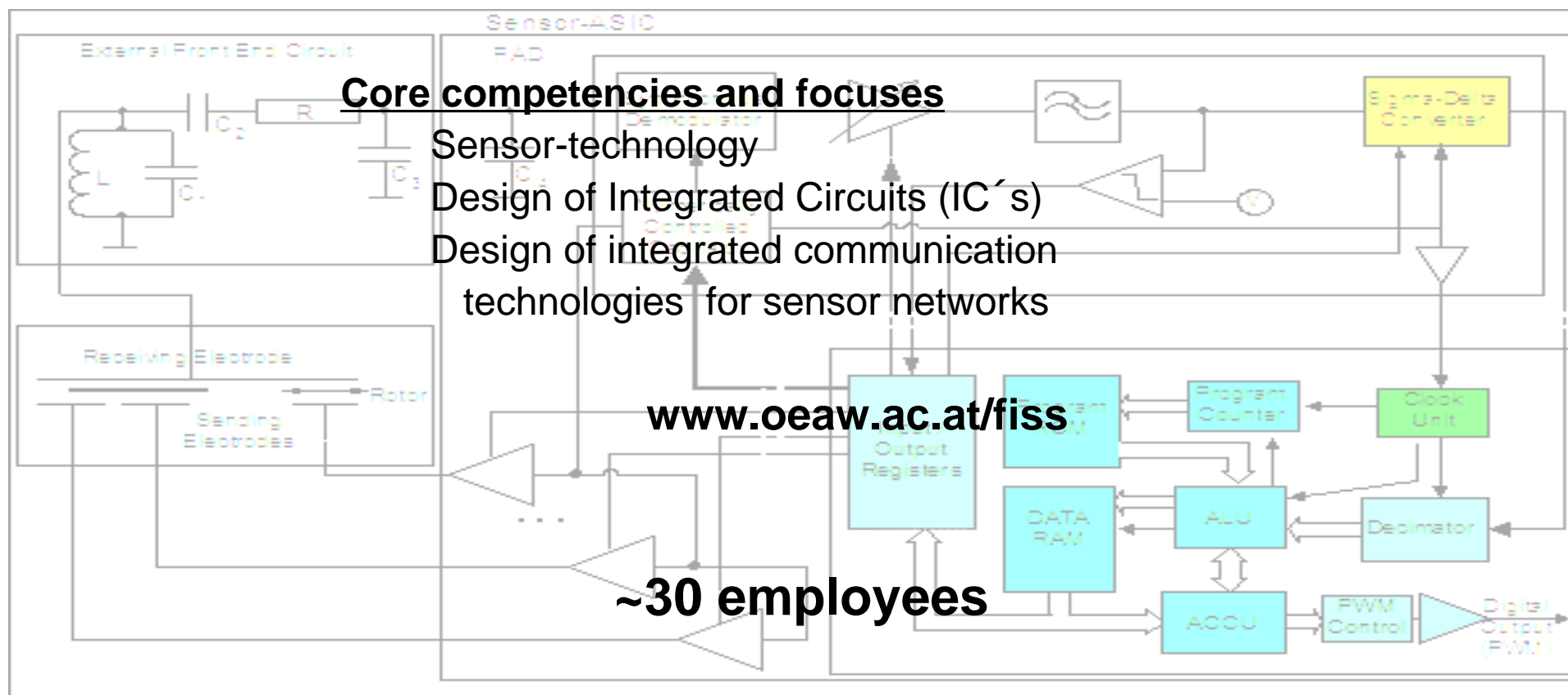
AUSTRIAN ACADEMY OF SCIENCES

## Core competencies and focuses

Sensor-technology  
Design of Integrated Circuits (IC's)  
Design of integrated communication technologies for sensor networks

[www.oeaw.ac.at/fiss](http://www.oeaw.ac.at/fiss)

~30 employees



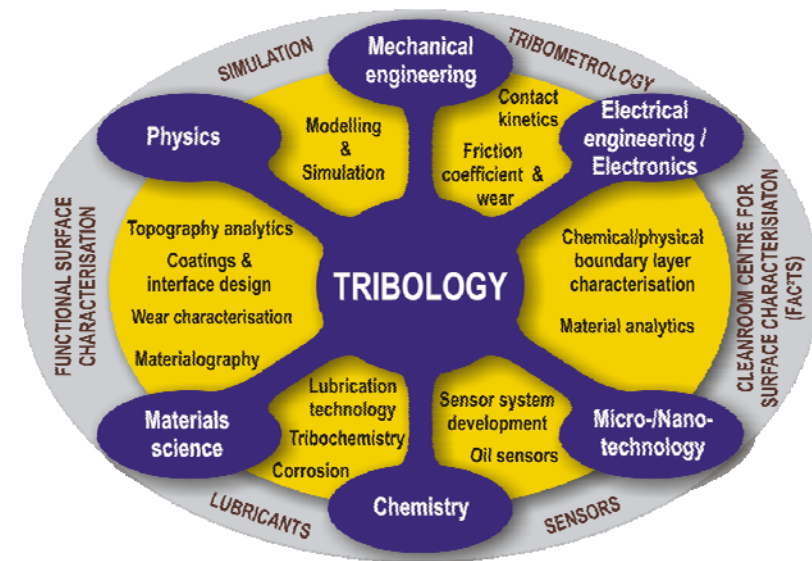
## Excellence Center of Tribology XTriology



### Core competencies and focuses

Lubricants and lubrication  
Functional surfaces  
Tribo-system characterization  
Tribo-sensors  
Tribo-simulation

[www.ac2t.at](http://www.ac2t.at)



~80 employees

# Centre of Electrochemical Surface Technology CEST

## Core competencies and focuses

crome IV free corrosion protection  
functional coatings  
non liquide electrolytes  
electrochemical in situ methods

[www.cest.at](http://www.cest.at)



**~70 employees**

# Center of Competence in Medical Innovation and Technology

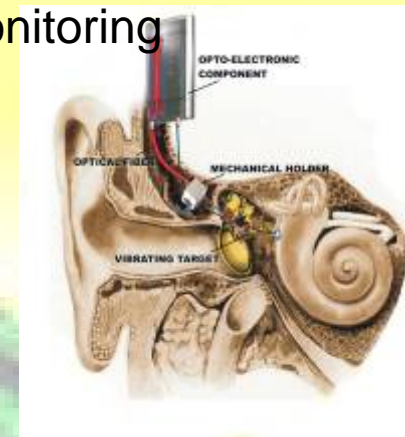
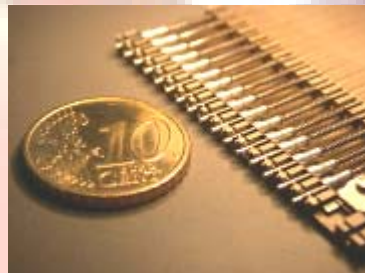
## Core competencies and focuses

Minimally Invasive Procedures (MIP)

Instruments for MIP

Medical Robotics, Sensors for Patient & Process Monitoring

Work-Flow & Simulations



**~25 employees**



# Research and technology- transfer plc.

**fotec**  
research + technology

## Core competencies and focuses

Micro-Injection-Mouling-Technologies  
Powder-Moulding  
Improvement of plastification-processes  
Micro Tooling

**[www.fotec.at](http://www.fotec.at)**



**~15 employees**

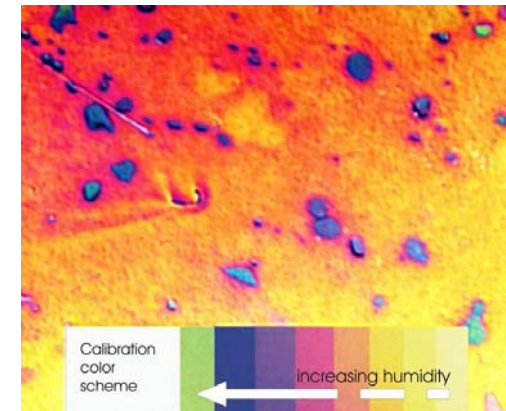




# Attphotonics Biosciences

## Core competencies and focuses

Smart Sensor Materials  
Nano-Color-Effects  
LASER Structuring  
Bio-Nano-Chips



[www.attphotonics.com](http://www.attphotonics.com)

~7 employees

## NOTE:

This präsentation shows only selected R&D and industry in Lower Austria and is not exhaustive!

Also the presentation of the Support System of Lower Austria is not exhaustive!

## Further Information

**ecoplus.**

**The Business Agency of Lower Austria**

Niederösterreichring 2, Haus A  
3100 St.Pölten, Austria

DI (FH) Rainer Gotsbacher, M.Sc.

[r.gotsbacher@ecoplus.at](mailto:r.gotsbacher@ecoplus.at)

[www.ecoplus.at](http://www.ecoplus.at)

[www.wirtschaftszentrum.at](http://www.wirtschaftszentrum.at)

