



Technische  
Universität  
Braunschweig



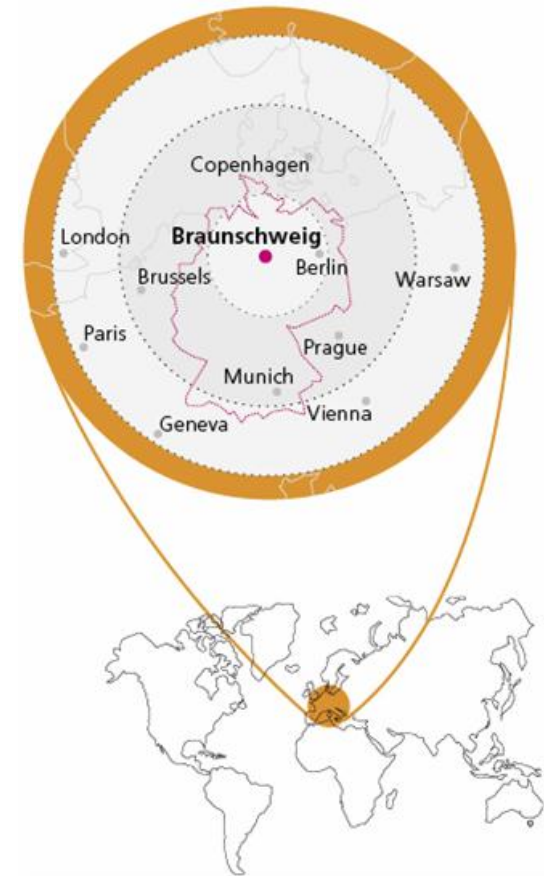
## **SynWiN – Combining research funding and structural funds for win-win solutions**

**National Event of Slovakia, 25.06.2015 Bratislava**

**Andreas Hebbelmann, TU Braunschweig, Research Service and EU-Office**

# Braunschweig is one of Europe's most active research regions

- 27.000 persons are employed in research and development
- Largest number of inhabitants nationwide holding a university degree
- One of the regions with the highest expenses for research and development within Europe

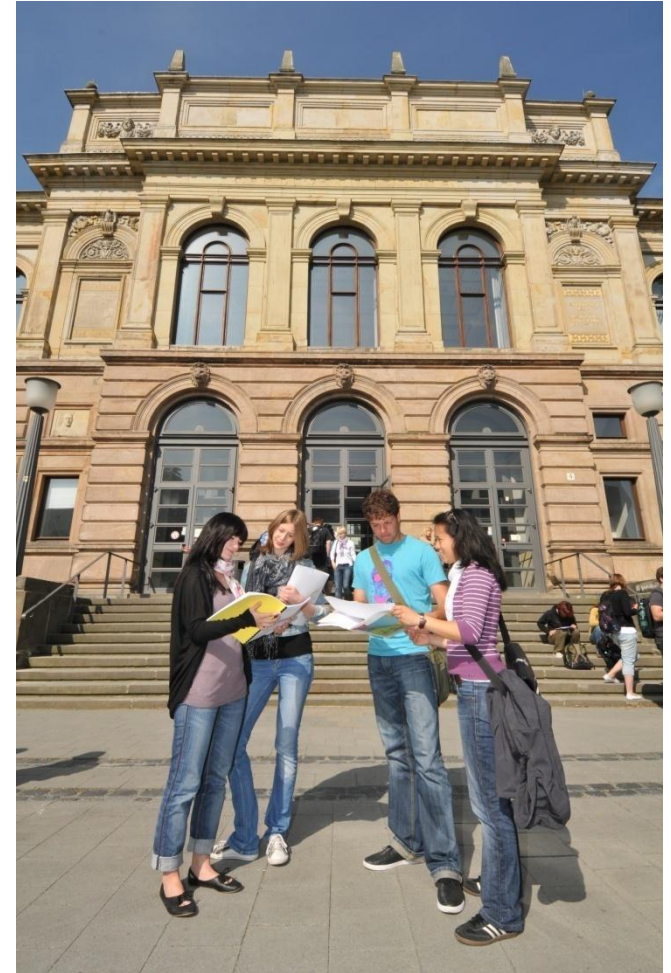


# Technische Universität Braunschweig

**1** University  
**6** Faculties  
**71** Study programmes

**235** Professors  
**2,092** Scientists  
**3,536** University employees  
**4,730** First semester students  
**18,474** Students (2007: 13,000)

**80,000,000** Euro external funding  
**300,000,000** Euro overall budget



# Research Service and EU-Office

- One stop shop for EU (Horizon 2020 and Structural funds) and national funding
- Responsible for four universities in the region (EU funding): Ostfalia, HBK, Leuphana und TU Braunschweig
- Involved in Horizon 2020 set up process as spokesperson of BAK (Network of EU-Advisors at German Universities)
- Involved in development of Operational Programme for Niedersachsen and member of ESIF-Committee



# Combining research funding and structural funds



Horizon  
2020



**B-Cool**

Collaborative  
Project FP6



**Real Time Models**

SME University  
Cooperation

Proposal

Call Green Vehicles 1  
Horizon 2020



**Battery Lab**  
Infrastructure

Cultures of Computer  
Simulation  
DFG German Research  
Foundation

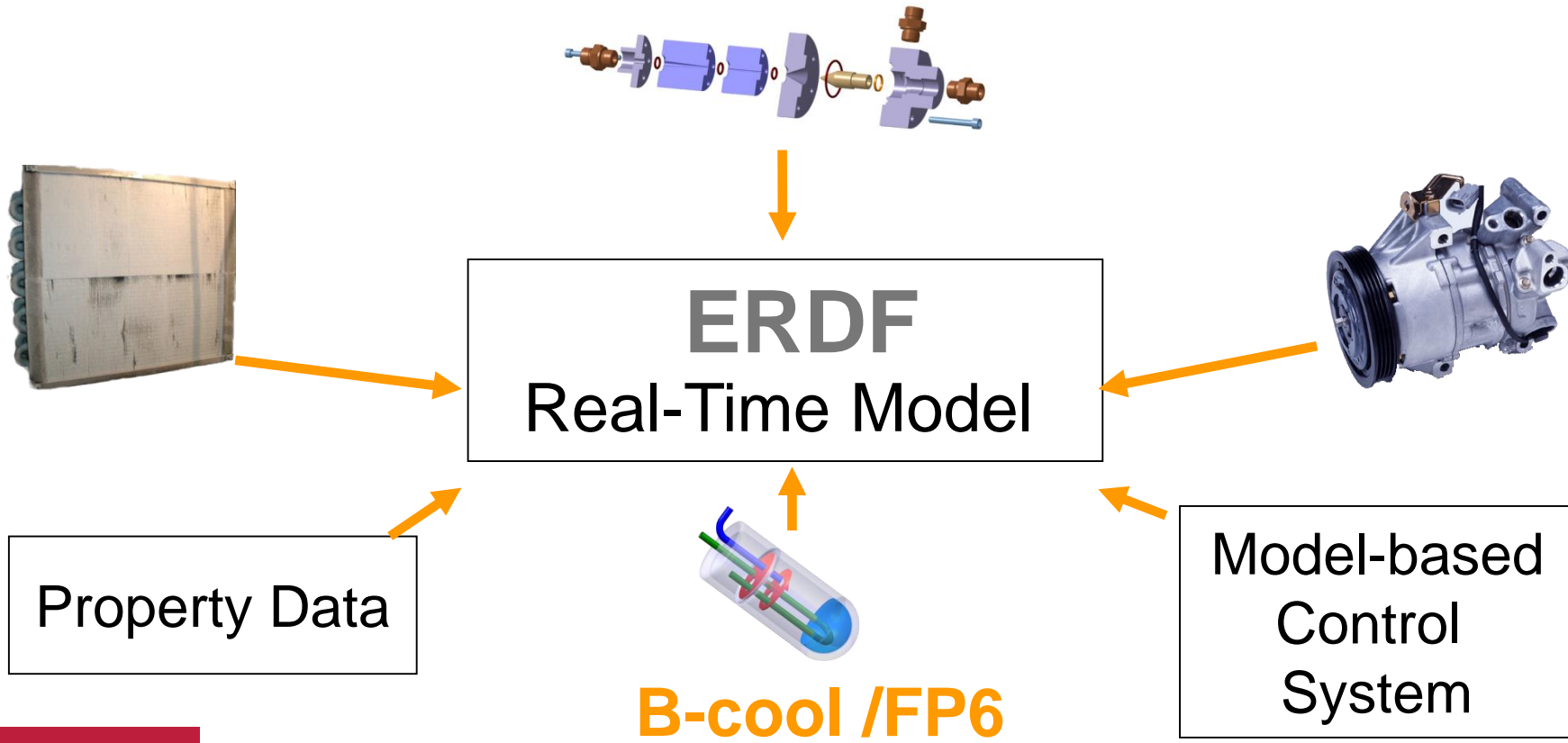


**Lüneburg Innovation**  
Incubator  
Capacity Building



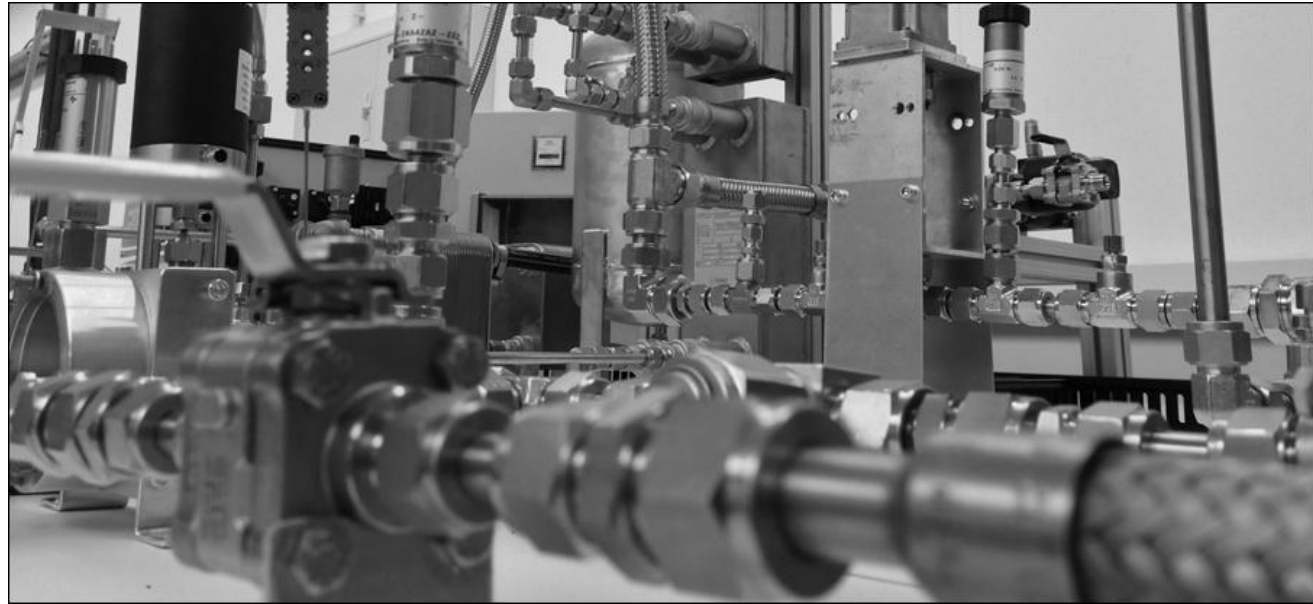
# From B-Cool to ERDF Project 2008-2010

Development and use of real-time simulation models for stationary and mobile CO<sub>2</sub> heat pumps



## ..... 5 years later – SME win

- Established department at TLK Thermo GmbH
- CO<sub>2</sub> real time test-rigs on the market
- New customers from car industry use the technology of CO<sub>2</sub> real time test-rig



# Battery LabFactory Braunschweig – Infrastructure

- **Global Aim:**
  - Scientific analysis of the entire value chain from active material preparation along electrodes, cell manufacturing and battery module up to system integration
- **Proposal:**
  - Ministry of Education and Science (ERDF)
- **Funding:**
  - 3,8 Mill. €, 50% ERDF and 50% TU Braunschweig



Niedersächsisches Ministerium  
für Wissenschaft und Kultur

Dieses Projekt wird mit Mitteln des Europäischen Fonds für regionale Entwicklung gefördert.



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Europäischer Fonds für regionale Entwicklung



Europa fördert  
Niedersachsen

[www.eu-foerdert.niedersachsen.de](http://www.eu-foerdert.niedersachsen.de)

iPAT  
Institut für Partikeltechnik

WWF  
IÖNC

InES

ifs

IK  
INSTITUT FÜR  
KONSTRUKTIONSTECHNIK

e|enia  
Institut für Hochspannungstechnik  
und Elektrische Energieanlagen

PTB



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## ... what happened at TU Braunschweig

- Horizon 2020, deadline Call Green Vehicles, 28.08.2014  
Topic: Next generation of competitive Li-ion batteries to meet customer expectations
- Car industry as coordinator asked two institutes of TU Braunschweig to participate in a collaborative project
- Why: existing know-how and new infrastructure in the Battery LabFactory Braunschweig
- Unfortunately the proposal was not successful!!!

# Innovation Incubator - part digital media

- About 17 million euros in grants, about 60 people addressed the question of change in the digital culture
- Main component competence tandems with internationally staffed research groups in cooperation with Leuphana scientists and based on an interdisciplinary approach
- Application oriented research projects with high innovation potential for the Lüneburg region



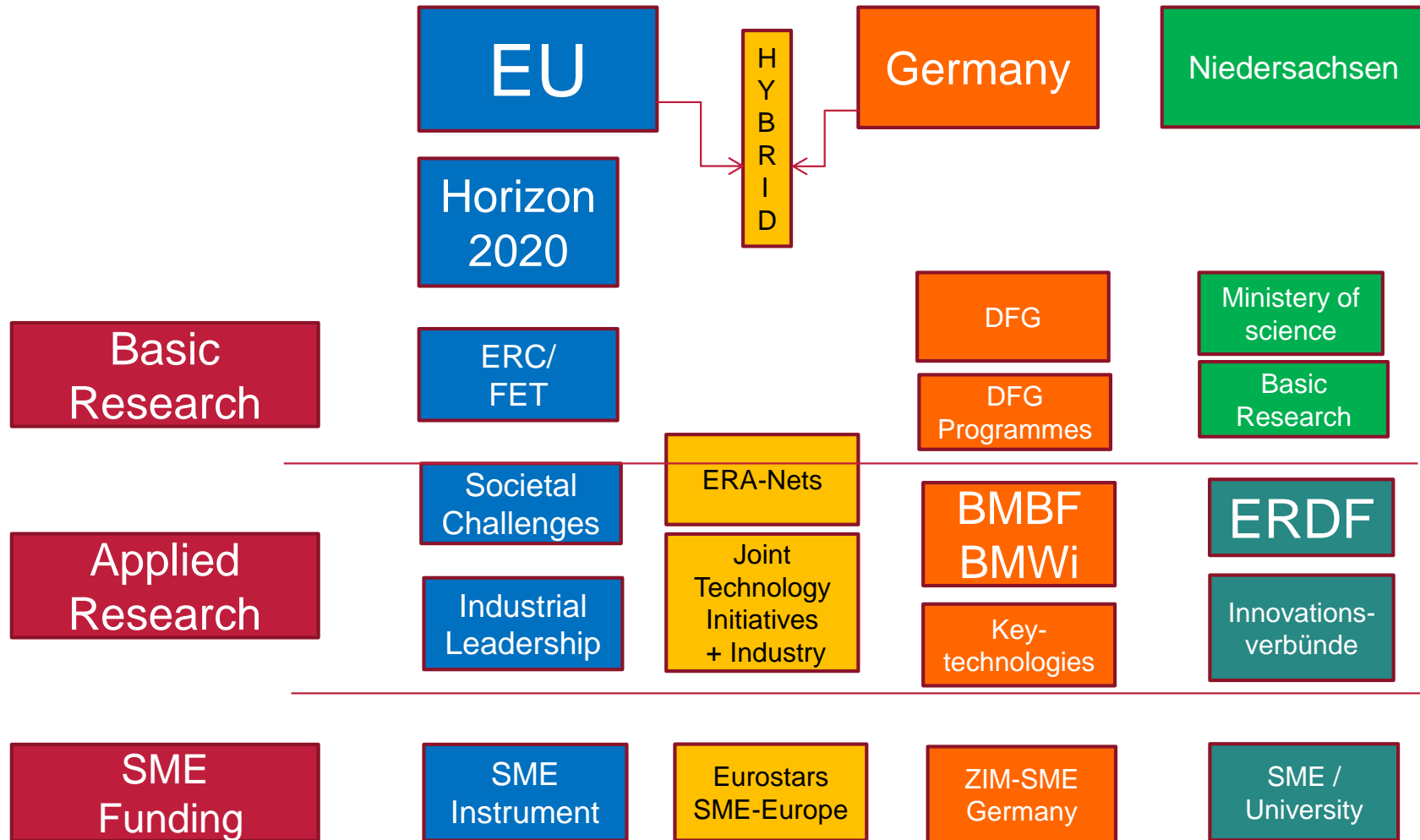
## 2015 at Leuphana University Lüneburg

- Leuphana succeeded in consolidating research and structures relating to digital sciences
- Successful in national funding: Ministry of Science Niedersachsen and DFG (Basic Research)

# Combining EU funding: What makes it difficult?

- Different responsibilities for call for proposals
  - > EU Commission: Horizon 2020
  - > Regional authority: ERDF
- Different deadlines
- Different funding rules
- Other national funding opportunities in Germany

# Funding in Germany at a glance



# The new ESIF funding period in Niedersachsen

- The new ESIF programme foresees (PA 1 Innovation) dedicated measures to strengthen the cooperation between universities and the regional economy
- Upstream  
through the setting up of infrastructures in scientific fields that are relevant in Horizon 2020
- Downstream  
through the use of results stemming from Horizon 2020 projects for the use of SMEs and industry

Cooperation is the key -

The region is the winner!



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