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Assessment of Research Focal Areas at TU Wien

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Facts & Figures (2015)

Finances

ca. 216 Mio. € global budget

ca. 84 Mio. € third party funds

Staff (Heads)

3.675 scientific staff

thereof 143 professors

1.134 non-scientific staff

4.809 total staff

Students

29.141

thereof 32 % foreigners

thereof 28 % women

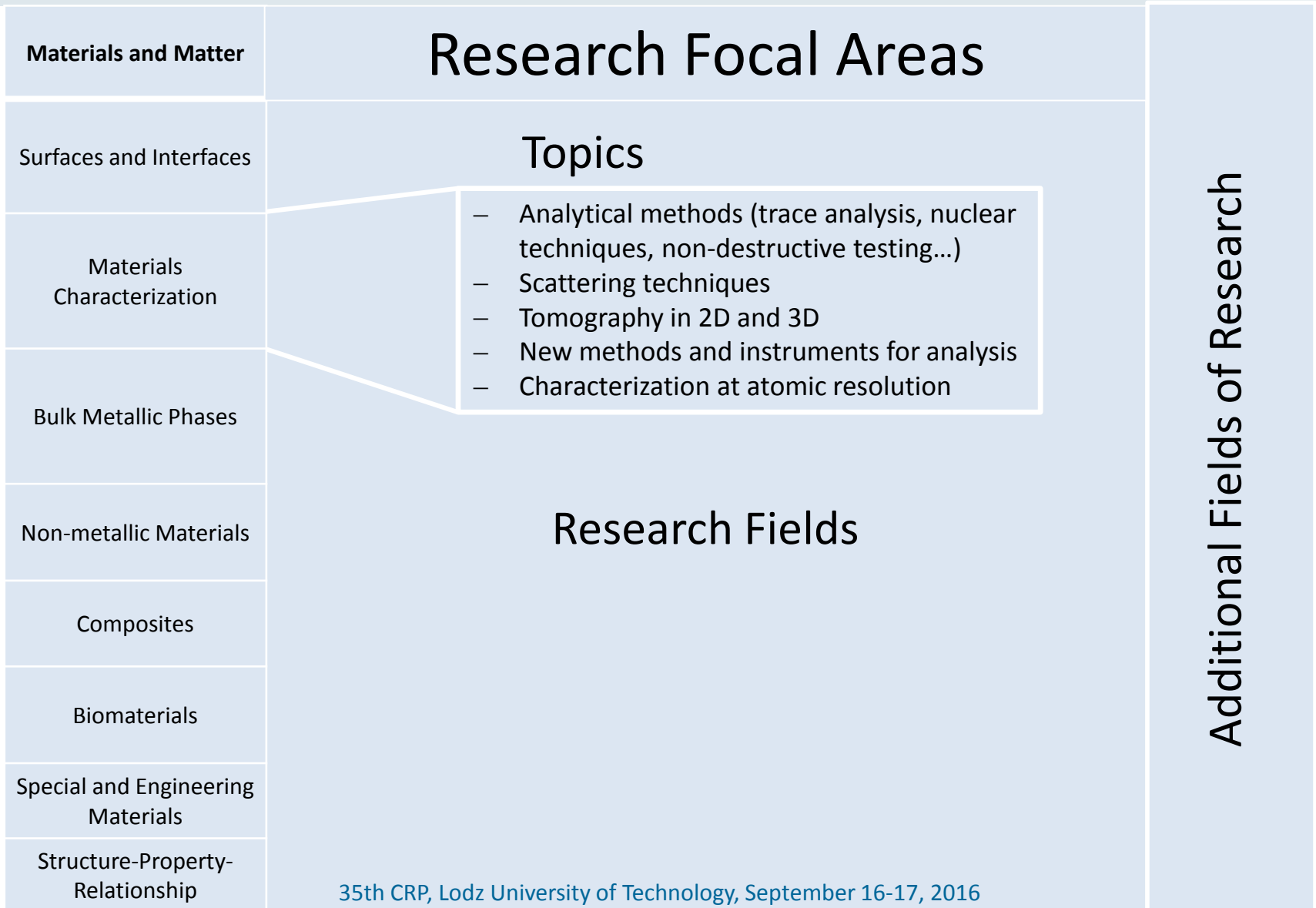
Graduations (Term 2014/15)

2.768 first and second degrees, Bologna System

thereof 1.384 BSc, 1.011 MSc, 113 Diploma Engineer, 260 PhD

1. Computational Science and Engineering
2. Quantum Physics and Quantum Technologies
3. Materials and Matter
4. Information and Communication Technology
5. Energy and Environment

The TUW Research Matrix





The TUW Research Matrix

Computational Science and Engineering	Quantum Physics and Quantum Technologies	Materials and Matter	Information and Communication Technology	Energy and Environment	Additional Fields of Research
Computational Materials Science	Photonics	Surfaces and Interfaces	Computational Intelligence	Energy Active Buildings, Settlements and Spatial Infrastructures	Development and Advancement of the Architectural Arts
Computational Fluid Dynamics	Quantum Metrology	Materials Characterization	Computer Engineering	Sustainable and Low Emission Mobility	The European City - between Self-Organization and Controllability
Computational System Design	Quantum Modeling and Simulation	Bulk Metallic Phases	Cognitive and Adaptive Automation and Robotics	Climate Neutral, Renewable and Conventional Energy Supply Systems	Fundamental Mathematics Research
Mathematical and Algorithmic Foundations	Nano-electronics	Non-metallic Materials	Distributed and Parallel Systems	Environmental Monitoring and Climate Adaptation	Mathematical Methods in Economics
Computer Science Foundations	Design and Engineering of Quantum Systems	Composites	Media Informatics and Visual Computing	Efficient Utilisation of Natural Resources	
Modeling and Simulation	Quantum Many-body Systems	Biomaterials	Business Informatics	Sustainable Technologies, Products and Production	
Risk Based Design		Special and Engineering Materials	Telecommunication		
		Structure-Property-Relationship	Sensor Systems		

Objectives

- Internal Evaluation (SWOT)
 - Identification of fields of excellence
 - Identification of structural deficits
- Development of research strategy and funding measures

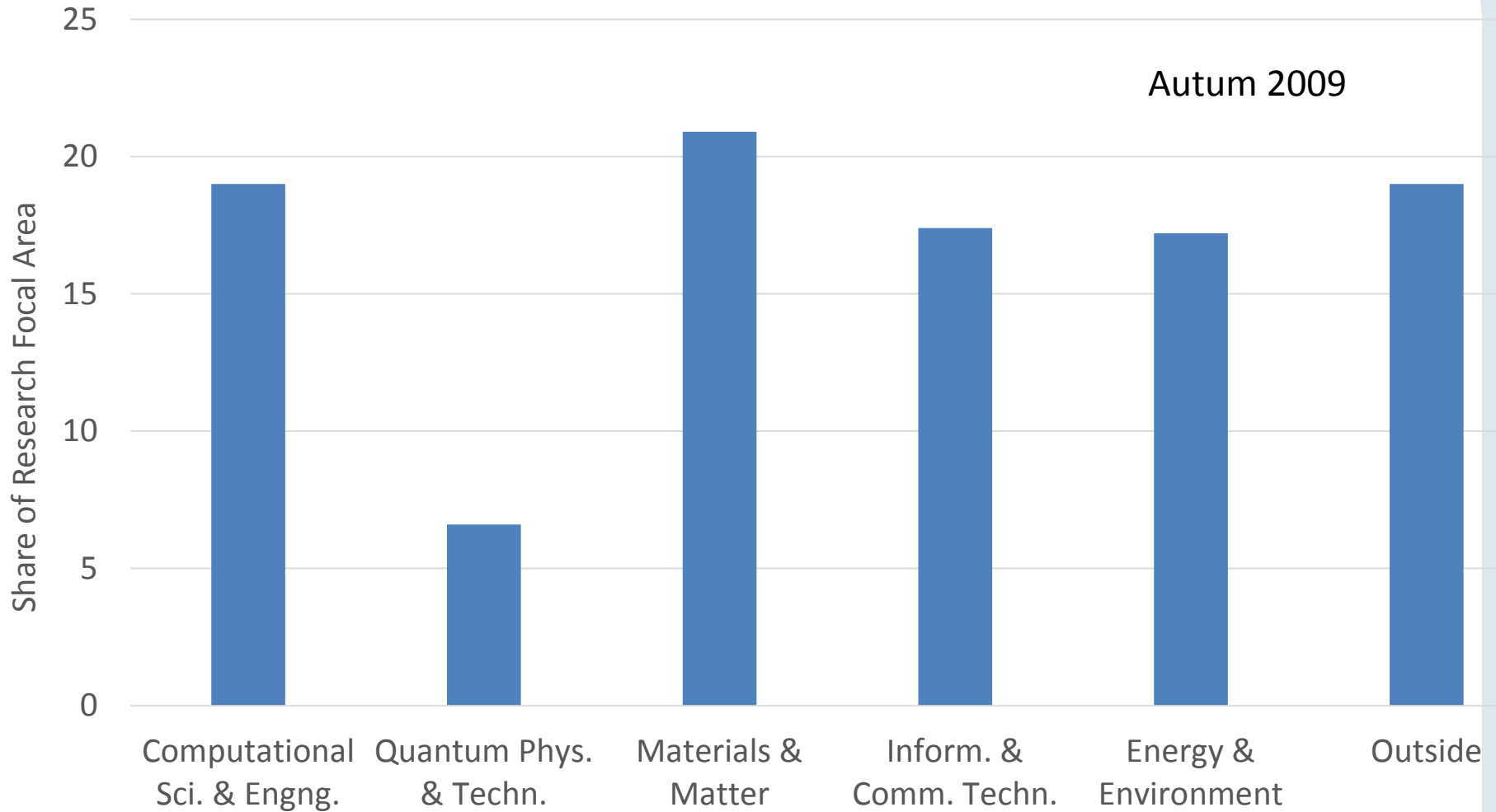
Data Acquisition

- 1. Step: Self-evaluation for gathering the initial situation
- 2. Step: Data acquisition as a „mirror“ of self-evaluation
 - Project data base
 - Publication data base
 - TISS (TU inf. and service system: courses, staff & institute profiles, proj. ..)
- 3. Step: Measuring

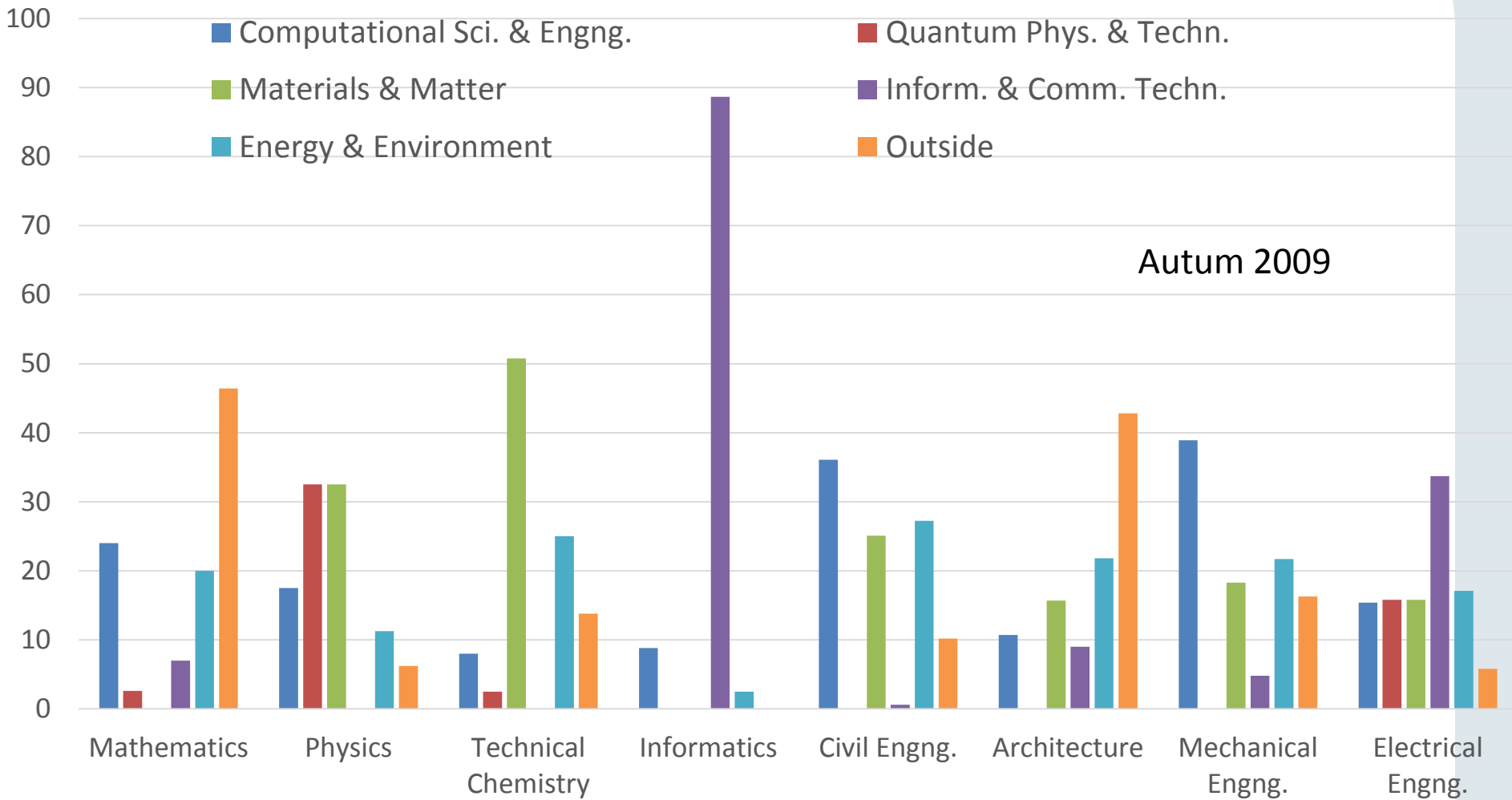
Realization:

- Input/output evaluation
 - Input: employees, budget, rooms
 - Output: Publications, conferences, dissertations, external funding, research and company cooperation
 - Faculty based weighting of these variables, e.g. consideration of theoretical or experimental orientation of research topics
- Assessment of Research Performance

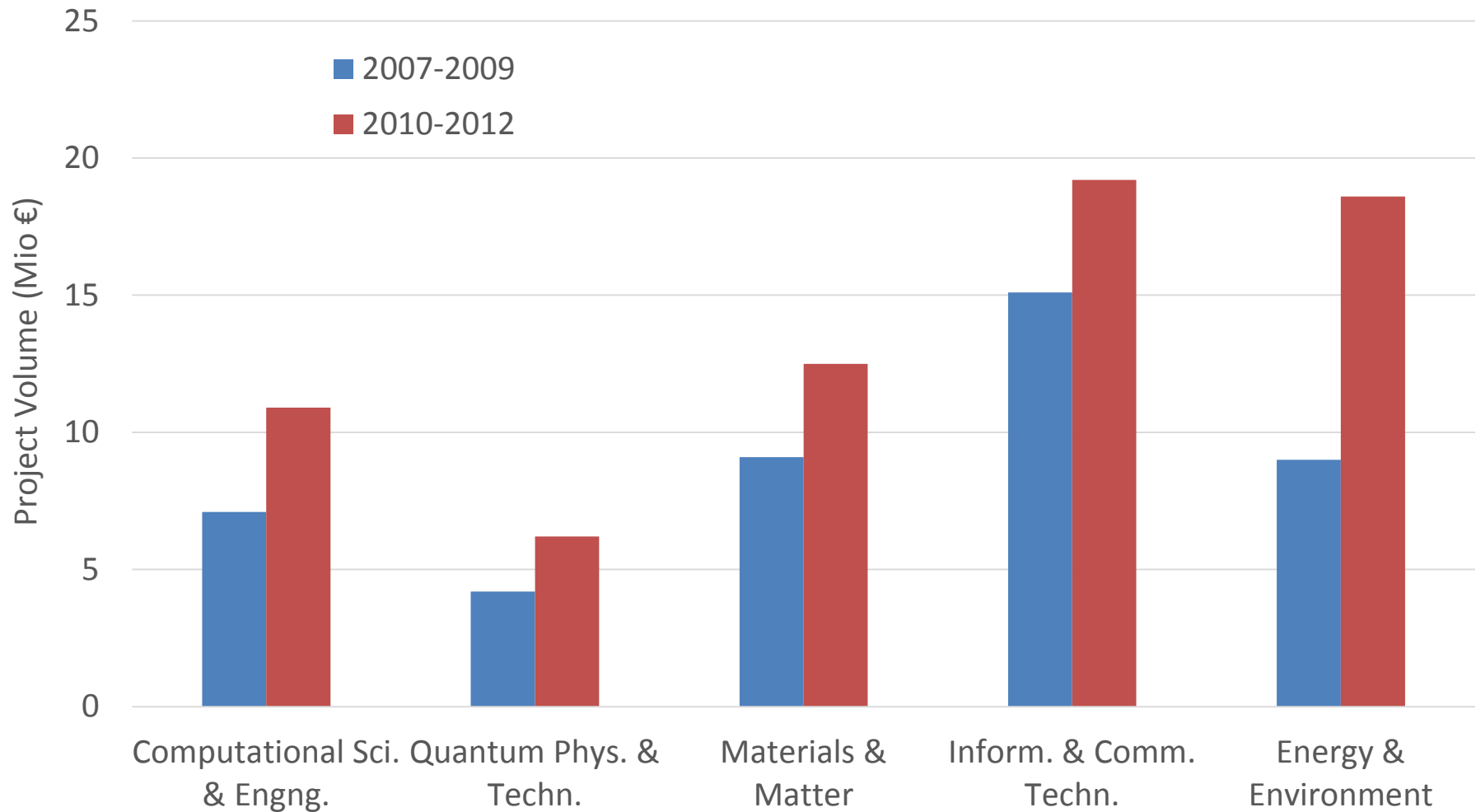
Results Step 1: Self-Evaluation – Overview



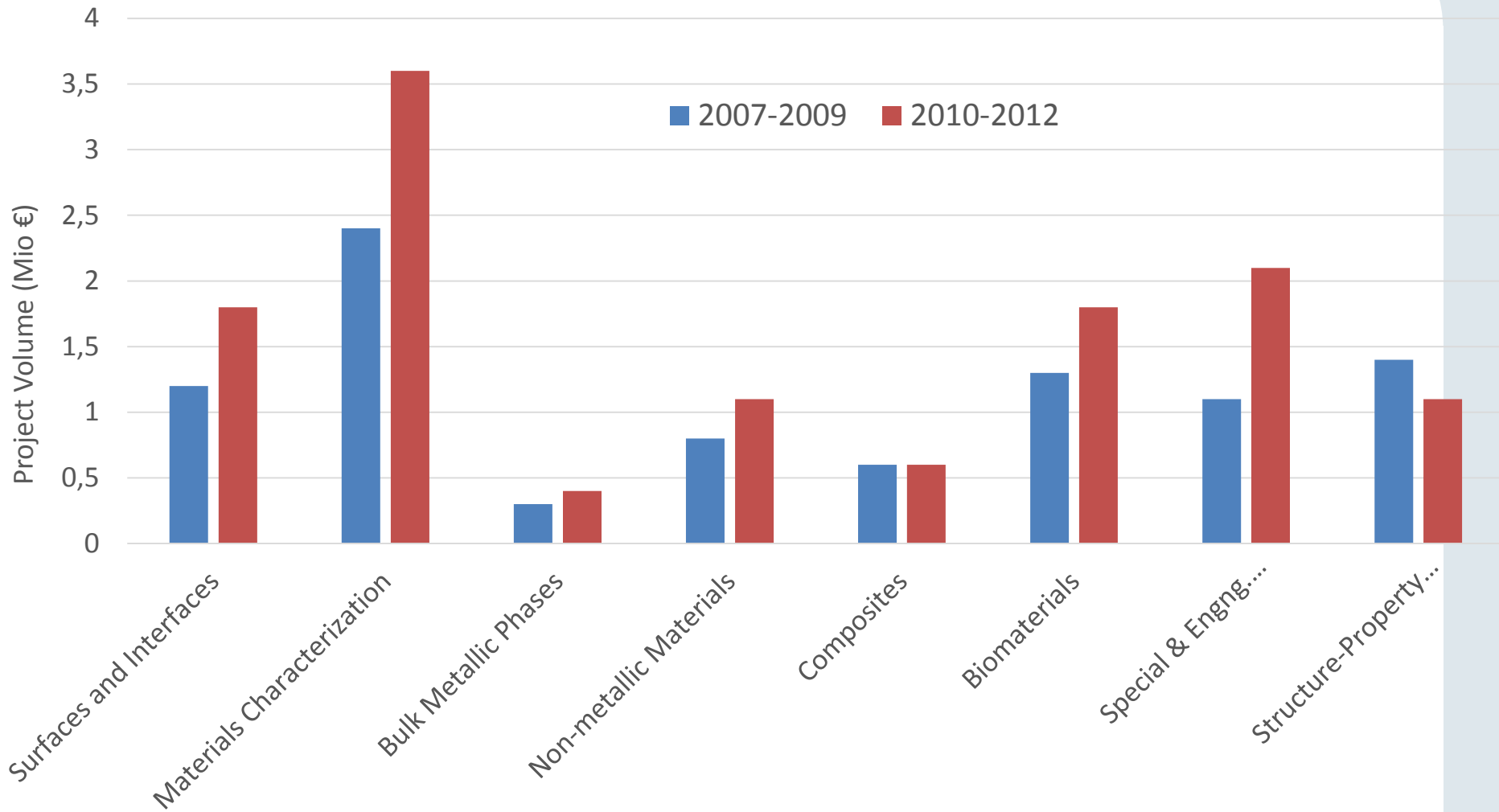
Results Step 1: Self-Evaluation – Distribution



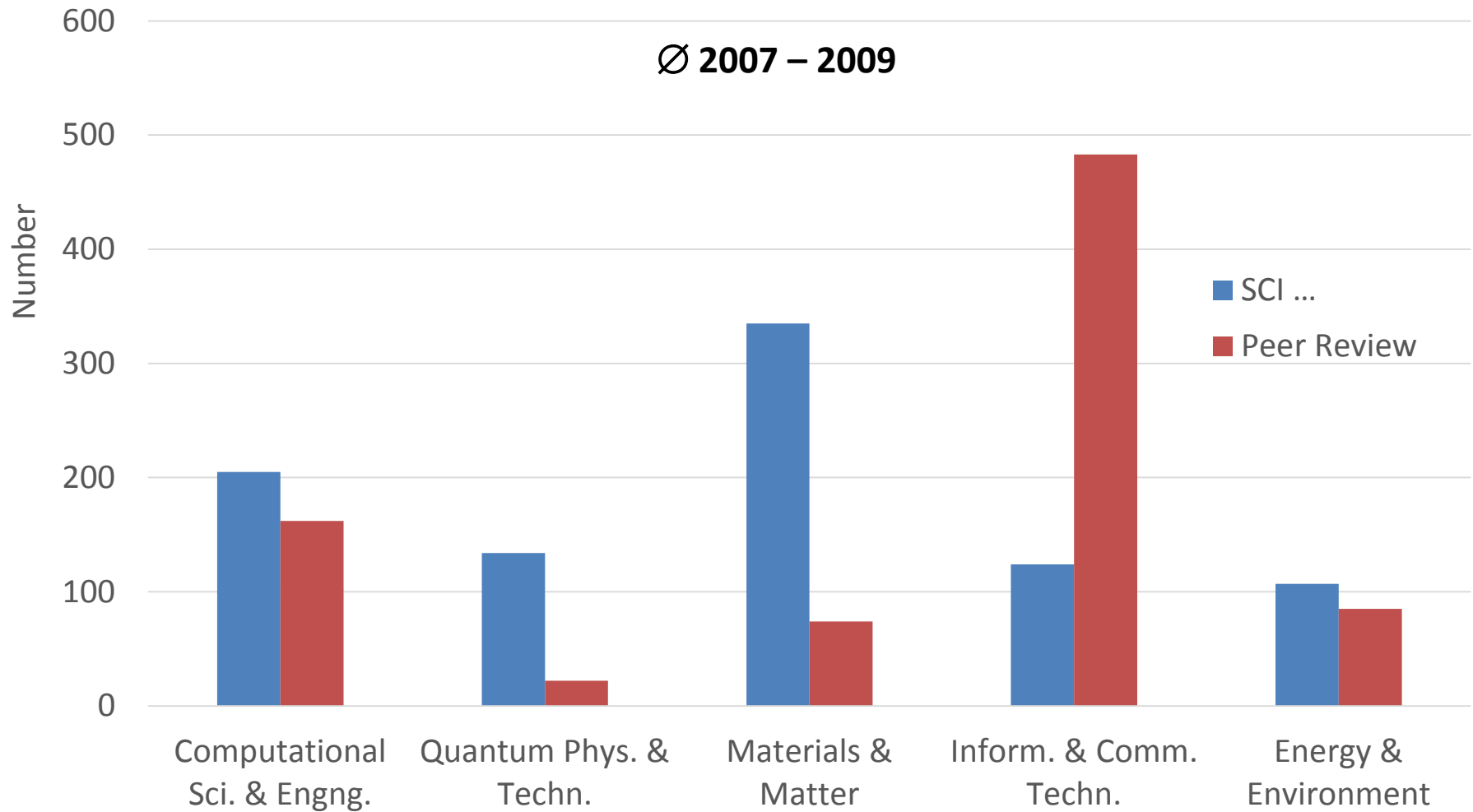
Step 2: Output – Project Volume (Mio €)



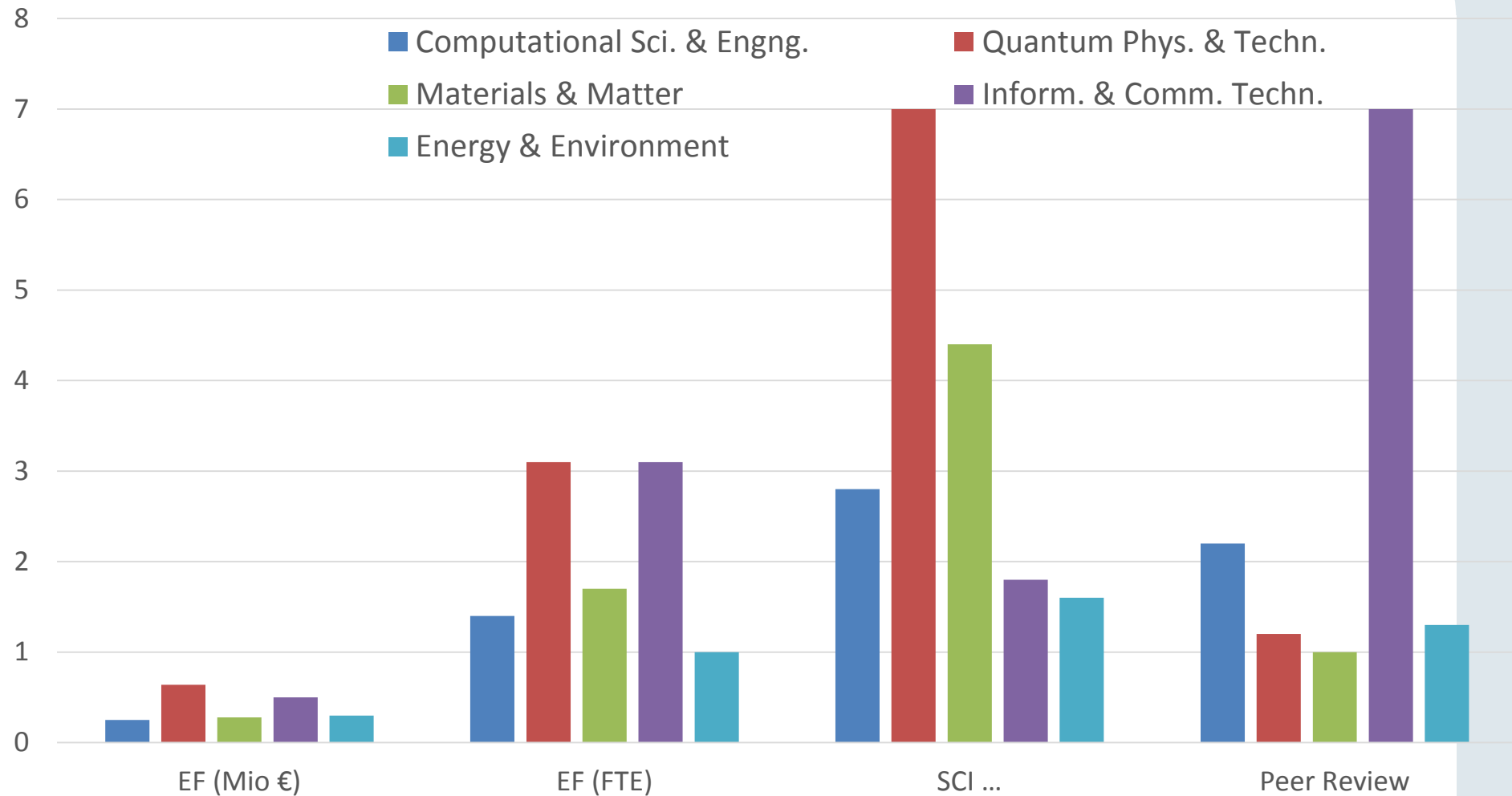
Materials and Matter – Research Fields, Project Volume (Mio €)



Output – Publications



Output/Input (Head Prof. & Ass. Prof.) – Overview (Ø 2007-2009)





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Thank You for Your Attention!!!

