

Integrated Models of Teaching, Research and Technology Transfer

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ETH Zurich, June 6, 2007

European Rector's Conference

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TU

TU Graz: Facts and Figures (2006)

Founded in 1811 Autonomy in 2004

7 faculties

104 institutes

1900 employees (1200 academic, 700 non-academic)

9200 students (14% foreigners from 72 countries, 20% female)

36 Bachelor / Master programs, PhD programs

Degrees awarded: 750 B/M, 150 PhD

University board (supervisory, advisory)

Research advisory board

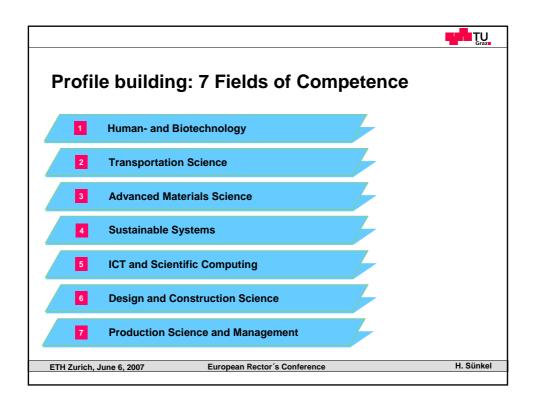
Total budget: 140 Mill €

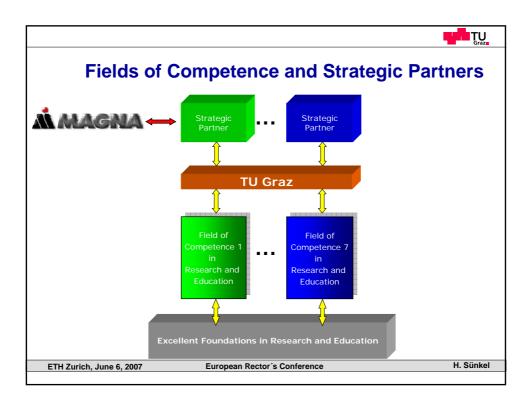
Federal: 92 Mill € (flat 2004 – 2006) Project: 38 Mill € (doubled in 4 years)

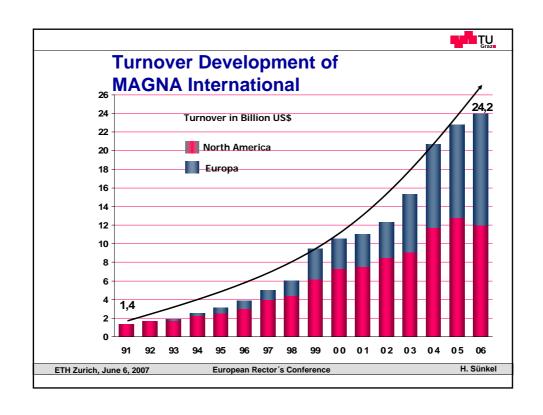
Study fees: 6 Mill € Other: 4 Mill €

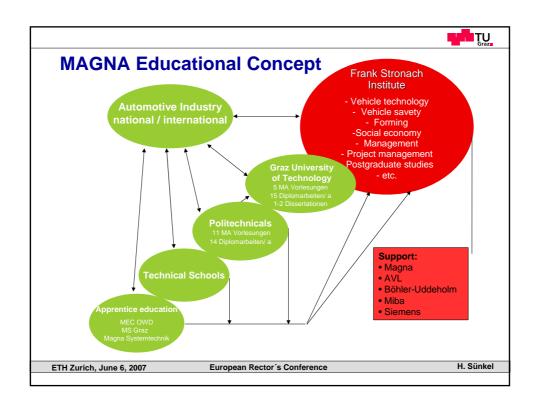
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Ideas for the Frank Stronach Institute (FSI)

- To secure the long-term demand for top university graduates in automotive engineering in general
- To secure the long-term access of MAGNA to top-level university graduates in automotive engineering with management capabilities
- Strong link between education and research with emphasis on application
- Long-term partnership between MAGNA and Graz University of Technology

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Cooperation between MAGNA and TU Graz



- Contract signed in 2003
- Total amount of contributions for FSI: 24 Mio. € in 10 years

Foundation of the "Frank Stronach Institute" and establishment of the Study Program "Production Science and Management"

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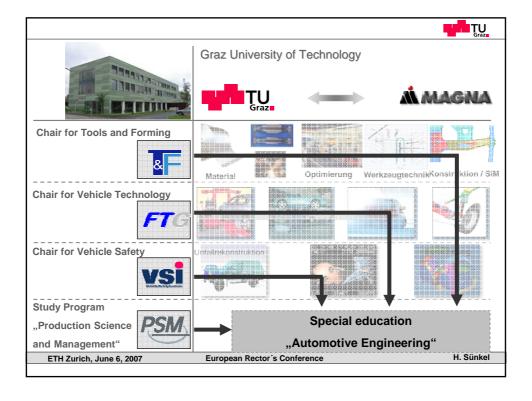


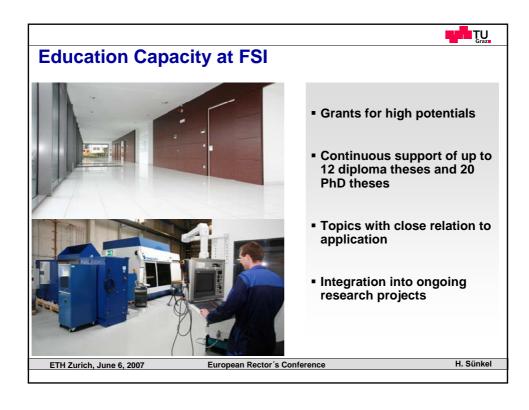
The Frank Stronach Institute: win-win for MAGNA and TU Graz

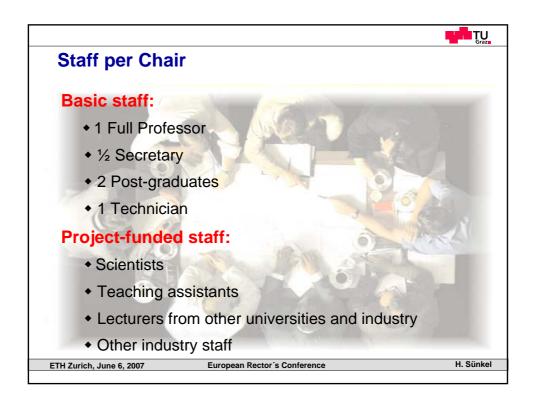
- Hi-tech investment by MAGNA: 4 Mio €
- Hi-tech co-investment by the Ministry of Science and Research and the State of Styria: 2,4 Mio €
- 10 years commitment of MAGNA to place research and education contracts to the Frank Stronach Institute of 2 Mio €p.a.
- Commitment of TU Graz to develop competence in automotive technology at highest international level
- Study program "Production Science and Management" tailored to specific profile of leader's positions in industry

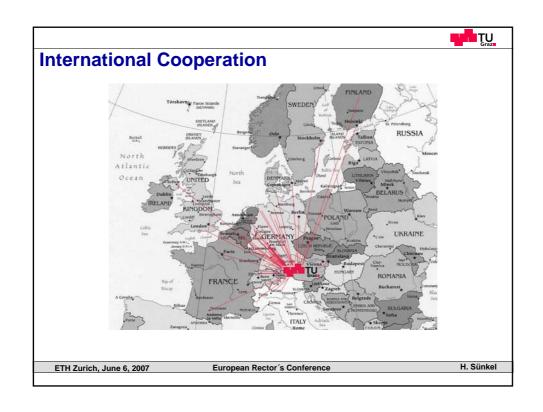
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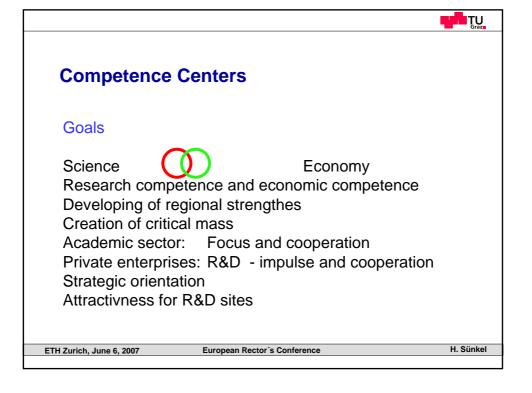
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Competence Centers

Characteristics

Cooperation of researchers with > 4 enterprises

Joint research programs

Creation of research competence and excellence

Quality assurance (peer review, evaluation)

Duration: 7 yr (4 + 3)

Yearly budget: approx. 3.5 M€ Financing: public 60%, private 40%

Staff: approx. 40 Initiative: BMVIT

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Competence Centers

Current program lines: K-Plus, K-Ind, K-Net

Total number: 40

17 K-Plus12 K-Ind11 K-Net

> 1500 Researchers

Cooperation with > 450 companies

Volume 2005: 110 M€

Participation of TU Graz: 17

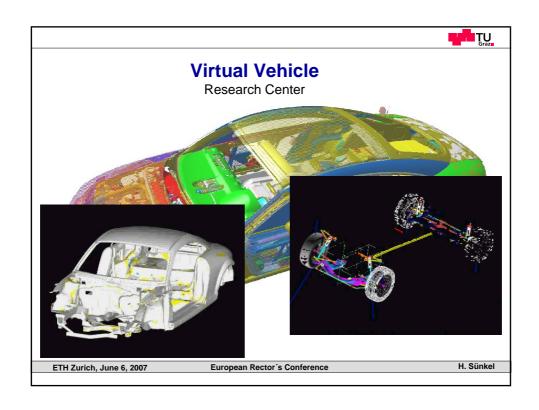
8 K-Plus 3 K-Ind 6 K-Net 550 Scientists

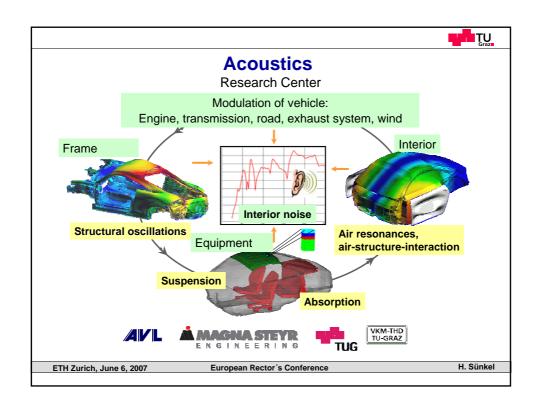
Financial envelope: 193 M€

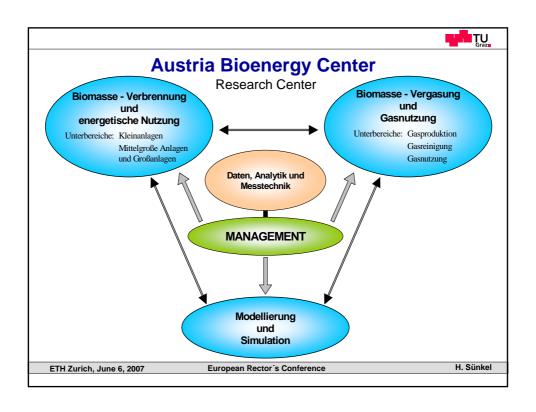
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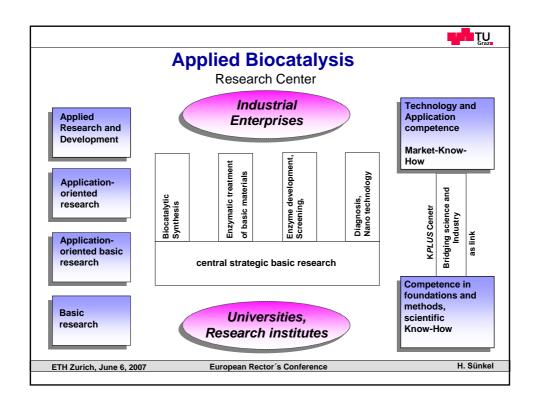
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Competence Centers: Participation of TU Graz			
Applied Biocatalysis	K-plus	Graz	
Knowledge Management	K-plus	Graz	
Virtual Vehicle	K-plus	Graz	
Austrian Bioenergy	K-plus	Graz	
Materials Center	K-plus	Leoben	
Polymer Engineering	K-plus	Leoben	
Virtual Reality and Visualization	K-plus	Wien	
Applied Electrochemistry	K-plus	Wr. Neustadt	
Acoustics	K-ind	Graz	
Large Stationary Engines	K-ind	Graz	
Timber Technology	K-ind	Graz	
Combustion Engines	K-net	Graz	
Water	K-net	Graz	
JOIN	K-net	Graz	
Metallurgy	K-net	Leoben	
Advanced Computer Vision	K-net	Wien	
Telecommunication	K-net	Wien	











- Strengthen cooperation between science and industry
- Support of high risk innovation
- Strengthen the position in international competition
- · Centers with strong international visibility
- · Segment of coming excellence strategy
- · Link key players
- Public private financing
- Start: 2007

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COMET: Competence Centers / new program line

K-Projects:

Max. number: 15-30 Public support: 40 – 50%

Duration: 3 years

K1-Centers:

Max. number: 10-15 Public support: 40 - 55%

Duration: 7 years

K2-Centers:

Max. number: 2-5 Public support: 45 - 60% Duration: 10 years

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COMET: Competence Centers / expectations

- · Link university and industry
- · Link research and teaching
- Increase attraction of region for researchers, graduates and top-level students
- Important labor market for scientists
- Important for decision making of international enterprises
- Improve the academic / research profile of a location
- TU Graz:

K1-Center "Pharmaceutical Engineering"
K2-Center "Mobility for a sustainable environment"

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