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Excellence Initiative & Overhead: Shaking up the DFG

Dr. Robert Kuhn Director, Budget and Accounting Division, German Research Foundation





The Excellence Initiative – An Overview The Three Funding Lines Criteria of Evaluation

- Selection Procedure
- Reflections on the competition





# **Excellence Initiative**

- Established 2005
- Joint funding by the government (75%) and the federal states (25%)
- Input: 1.9 billion € for 5 years 380 million € per year
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Deutsche Forschungsgemeinschaft DFG

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# The Wissenschaftsrat



- advisory body to the federal government and the state governments
- Founded on 5 September 1957
- issues statements and recommendations, prepares reports on
  - scientific institutions
  - general questions relating to the system of higher education

# The Wissenschaftsrat



- co-funded by the federal government and the governments of the 16 states
- > consists of two commissions:
  - scientific commission (32 members, scientists)
  - administrative commission (22 members, governmental representatives)
- both commissions meet in the plenary assembly (45 members) to take decisions

Englisch Excellence Initiative

# The Wissenschaftsrat



headed by a chairperson elected for one year, re-election possible

Supported by the secretariat of the Wissenschaftsrat (staff about 70, about half of them with scientific background), that is headed by the secretary general

Seated in Berlin with the secretariat located in Cologne

www.wissenschaftsrat.de

#### **Goals of the Excellence Initiative**

- Strengthening the international visibility of German research
- Strengthening centres of excellence in research
- Creating an integrated approach to fostering the development of young researchers, especially their early independence
- Strengthening networks between universities, research organisations and industry
- Implementing more efficient management structures within universities
- Introducing a 20% contribution to the funding of the indirect costs of research



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Illustration taken from: http://img.meetup.com/photos/event/b/e/7/5/event\_168757.jpeg



## Three lines of funding:

- Graduate Schools
- Clusters of Excellence
- Institutional Strategies

### **Common Characteristics:**

- Large scope for unconventional ideas
- Boost research base (e.g. new chairs)
- Integration of non-university potential expected

(Max Planck and other institutes, industry)





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■ approx. 1 million €p.a. each

- approx. 30 Excellence Centres
  - approx. 6,5 million € p.a. each

	Deutsche Forschungsgemeinschaft DFG	German Exceller	y's ce Initiative	WISSENSCHAFTSRAT	
	Graduate Schools - Aims of the funding line				
	<ul> <li>Structured research training in an excellent research environment</li> </ul>				
	<ul> <li>Internationally competitive centres of top-level research by promoting young researchers</li> </ul>				
	<ul> <li>Instrument of quality assurance in graduate education</li> </ul>				
	Graduate Sch				
-	lighest level reseal approx. 40 Gradua approx. 1 million	ate Schools			

Germany's Deutsche Forschungsgemeinschaft **Excellence** Initiative DFG Clusters of Excellence – Aims of the funding line Concentrate research competence in particularly innovative fields Create internationally visible and highly competitive research priorities •Significantly raise a university's profile •Build on already existing strengths **Clusters of Excellence** Centres of excellence in research

- appr. 30 Clusters of Excellence
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Germany's Excellence Initiative



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#### Graduate Schools - Evaluation criteria

## **Research and Training Environment**

- Quality of the researchers and the research environment
- Contribution to the academic profile of the university and to the research areas involved
- Ability to develop and sustain a doctoral culture
- Interdisciplinary approach
- International visibility

## **Research Training**

- Quality and originality of the research training concept
- Integration of doctoral students into the research environment
- Supervision and strategies to promote research careers
- International networking

### **Structures**

- Organisation, management and support services
- Cooperation with non-university institutions
- Gender equality and affirmative action

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Excellence Initiative



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Germany's Excellence Initiative



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#### **Clusters of Excellence - Evaluation criteria**

## Research

- Quality of research; originality and coherence of the research programme
- Added value of interdisciplinary cooperation
- Impact on the scientific field in the future
- Plans for transferring research results into practical application

## People

- Highly qualified research groups and international visibility
- Career development opportunities and appeal to young investigators
- Research training concepts
- Gender equality

## **Structures**

Integration of local research capacities, e.g. non-university institutions

Organisation and management



Germany's

**Excellence** Initiative



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#### Institutional Strategies – Criteria of Evaluation

#### **Excellent track-record**

- in top level research: several internationally competitive research areas
- and graduate training

## **Convincing Institutional Strategy**

- innovative and unique approach to ameliorate the international position of the university
- distinctive profile
- international competitiveness as an institution during the funding period



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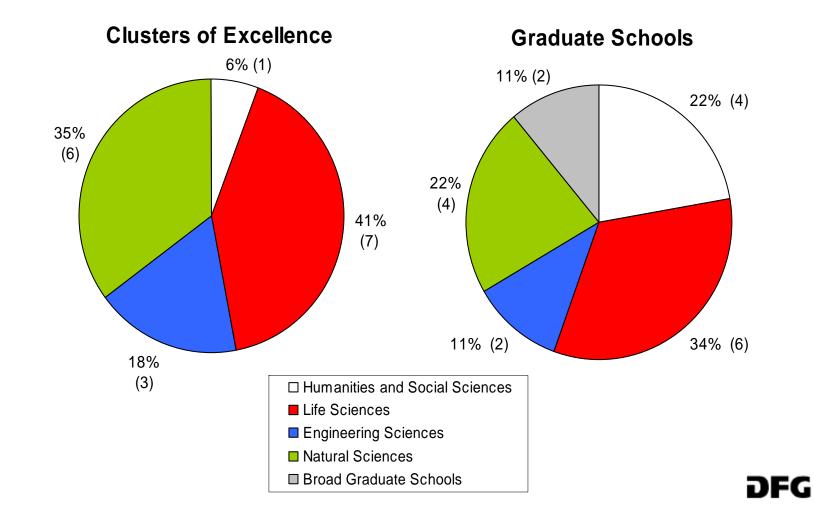


Deutsche Forschungsgemeinschaft DFG	Germany's Excellence Initiative	WISSENSCHAFTSRAT			
1. Phase: 07/05 – 10/06					
157 Clusters of Excellence (pre-proposals)	135 Graduate Schools (pre-proposals)	27 Institutional Strategies (pre-proposals)			
<ul> <li>20 Panels (1 year ago)</li> <li>Interdisciplinary Joint Commission</li> </ul>					
39 Clusters of Excellence	39 Graduate Schools	10 Institutional Strategies			
(full proposals)	(full proposals)	(full proposals)			
<ul> <li>24 Panels/ 10 evaluation g (→ June/.</li> <li>Interdisciplinary Joint Con</li> <li>Grants Committee</li> </ul>	July 2006)	Second Selection Phase			
(→ June/. Interdisciplinary Joint Con	July 2006)	Second Selection Phase 3 Institutional Strategies			

Germany's Excellence Initiative



#### **Proposals funded according to disciplines**

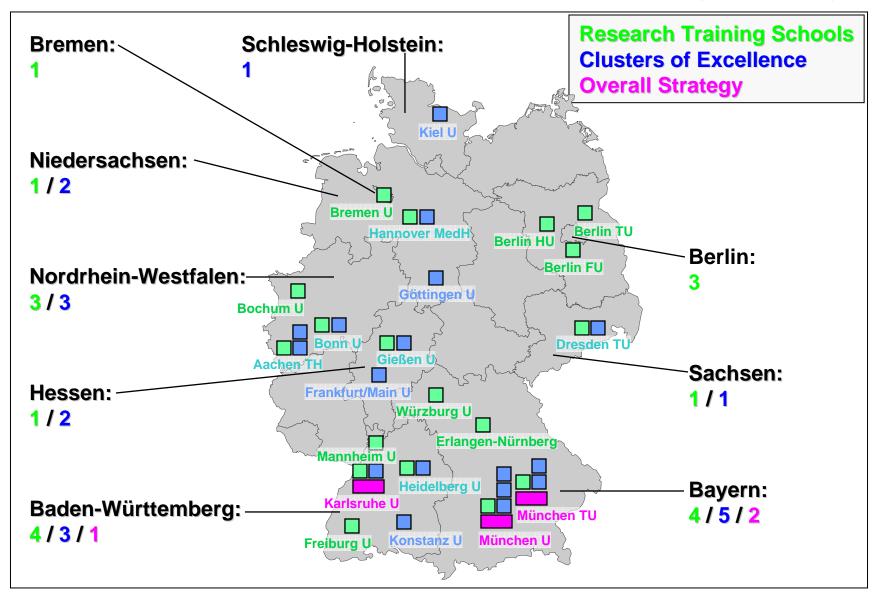


Deutsche Forschungsgemeinschaft DFG	Germany's Excellence Initiative
<b>Results Pha</b>	ase 1 - Graduate Schools

- Institute for Advanced Studies in Computational Engineering Science, Aachen
- Graduate School of North American Studies, Berlin FU
- Berlin School of Mind and Brain, Berlin HU
- Berlin Mathematical School, Berlin TU
- Ruhr University Research School, Bochum
- Bonn Graduate School of Economics, Bonn
- Global Change in the Marine Realm, Bremen
- International Graduate School for Biomedicine and Bioengineering, Dresden
- Graduate School in Advanced Optical Technologies, Erlangen-Nuremberg
- Molecular Cell Research in Biology and Medicine, Freiburg
- International Graduate Centre for the Study of Culture, Gießen
- Hannover Biomedical Research School, Hannover Medical School
- Graduate School of Fundamental Physics, Heidelberg
- Karlsruhe School of Optics and Photonics, Karlsruhe
- Empirical and Quantitative Methods in Economic and Soc. Sciences, Mannheim
- Graduate School of Systemic Neurosciences, Munich LMU
- International Graduate School of Science and Engineering, Munich TU
- Graduate School for Life Sciences, Würzburg



Deutsche Forschungsgemeinschaft <b>DFG</b>	Germany's Excellence Initiativ	Ve WISSENSCHAFTSRAT
<ul> <li>Integrative Proce</li> <li>Ultra High-Spee</li> <li>Mathematics: Fee</li> <li>From Cells to Tie</li> <li>Macromolecular</li> <li>Cardio-Pulmona</li> <li>Microscopy at the</li> <li>From Regeneration</li> <li>Cellular Networ</li> <li>Center for Funct</li> <li>The Future Ocea</li> <li>Cultural Foundat</li> <li>Munich Center for</li> <li>Munich-Centre for</li> <li>Nanosystems In</li> <li>Cognition for Term</li> </ul>	ks, Heidelberg tional Nanostructures, Karlsruhe	hication, Aachen s, Bonn herapy, Hannover Medical School stanz MU
		DFG



#### **Results in the 1<sup>st</sup> Round of the Excellence Initiative (Oct. 2006)**

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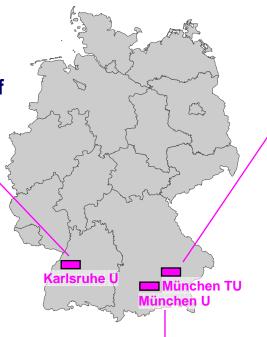
### Germany's Excellence Initiative



#### The Three "Institutional Strategies"

#### Karlsruhe: The foundation of the Karlsruhe Institute of Technology (KIT)

 merger of Karlsruhe University and the Research Centre Karlsruhe into KIT (modelled on MIT)



#### TUM: The Entrepreneurial University

- at the centre: TUM Institute of Advanced Study (modelled on the IAS in Princeton)
- establishing a researchfriendly administration

#### LMUexcellent: Working Brains – Networking Minds – Living Knowledge

- institutional strategy focussing on new proactive recruiting strategies (headhunting)
- cooperations with MPIs and other universities
- creating a Center for Advanced Studies (strengthening interdisciplinarity)

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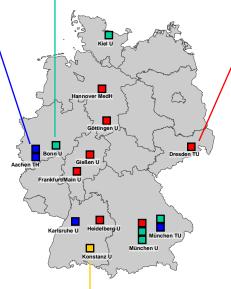
#### **Clusters of Excellence – 4 Examples**

#### Bonn U: Mathematics: Foundations, Models, Applications

- series of thematic priorities, interdisciplinarity
- cooperation of international guest professors with colleagues in Bonn e.g.: G. Faltings (Fields-Medal), R. Selten (Nobel prize economics)

#### Aachen TH: Integrative Production Technology for High-Wage Countries

- researching the conditions for producing successfully in high-wage countries
- building on the existing technology roadmap, incorporating 12 business and industry cases with partner companies

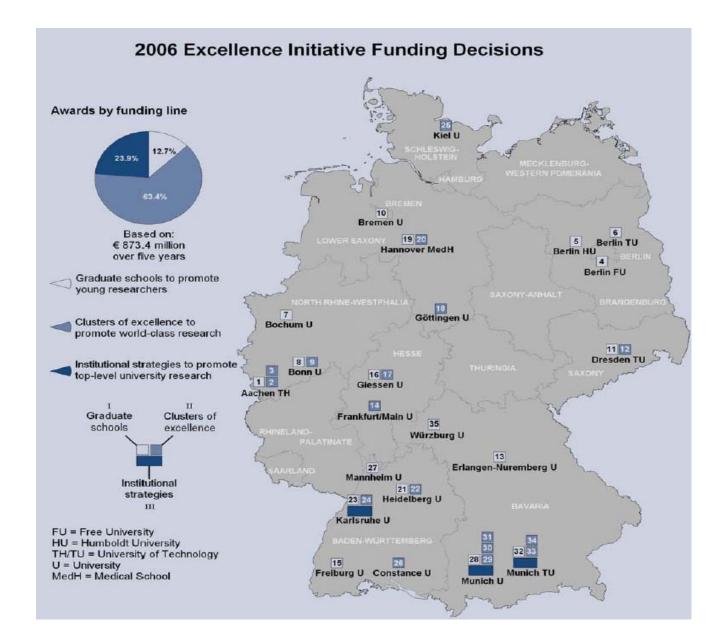


# Dresden TU: From Cells to Tissues to Therapies

- research on human stem cells
- top-up funding for the DFG Research Centre on Regenerative Therapies established in 2005

# Konstanz U: Cultural Foundations of Social Integration

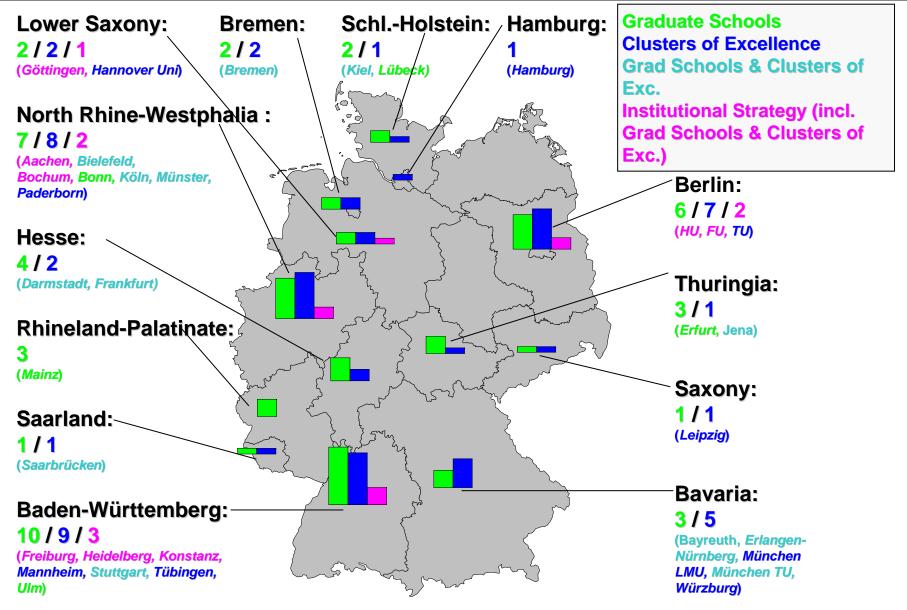
- social integration and desintegration on all social strata
- incorporating recent trends



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2. Phase: 04/06 – 10/07				
123 Clusters of Excellence	118 Graduate Schools	20 Institutional Strategies		
(pre-proposals)	(pre-proposals)	(pre-proposals)		
<ul> <li>27 Panels</li> <li>Interdisciplinary Joint Commission</li> </ul>				
~ 45 Clusters of Excellence (full proposals)	~ 45 Graduate Schools (full proposals)	~ 10 Institutional Strategies (full proposals)		
<ul> <li>XX Panels/ X evaluation groups         (→ June/July 2007)</li> <li>Interdisciplinary Joint Commission</li> <li>Grants Committee</li> </ul>				
~ 15 Clusters of Excellence	~ 20 Graduate Schools	~ Institutional Strategies		

#### 2<sup>nd</sup> Round: Invited to Submit Full Proposals





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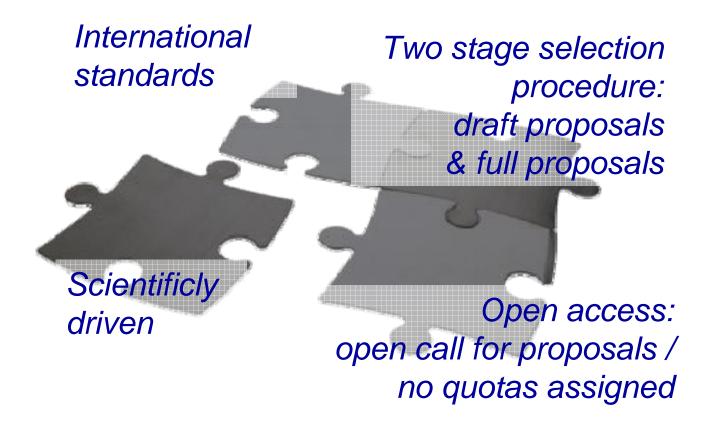
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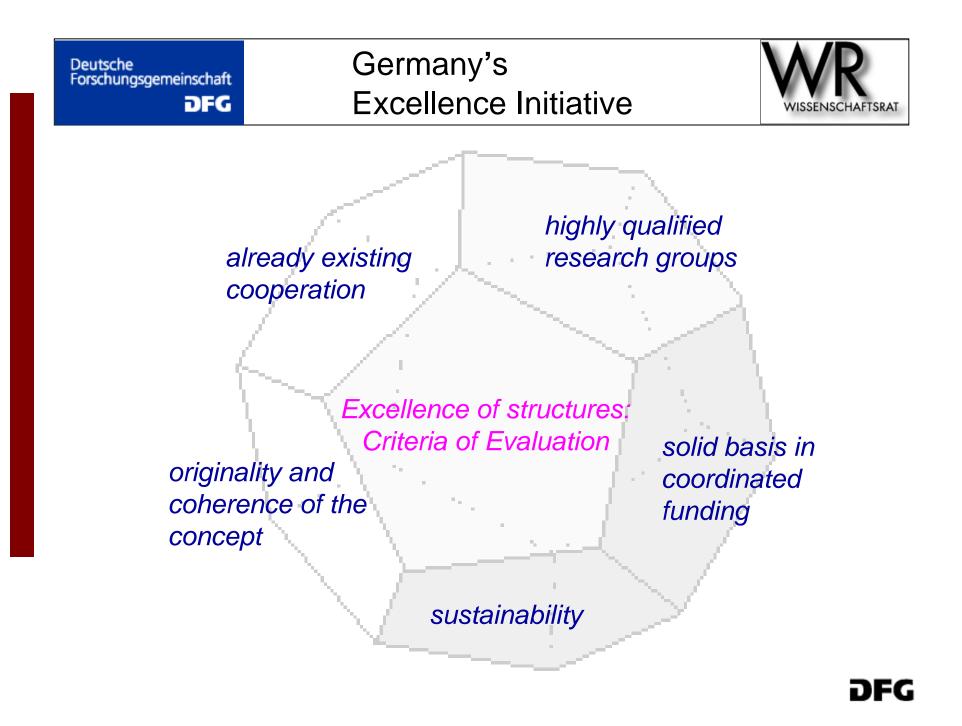
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#### **Characteristics of the competition**



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#### Paths to overheads – An Overview

the German higher education pact

- financial plan
- challenges

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#### The German higher education pact

## ➢Diagnosis:

Until the year 2020 the number of new a-levels in Germany will increase substantially due to demographic reasons and a change in the German school scheme (8 instead of 9 years grammar school).

≻Therapy:

Budget increases for the Universities

#### The German higher education pact

> two columns:
 Column one: teaching
 Column two: research

# **Column one: teaching**

- ➢ 90.000 additional freshmen expected for the year 2010 compared to the year 2005
- Federal government gives 565 Mio. € to the states (calculation base 22.000 € per freshman and year for 4 years)
- Apportionement between the states still under discussion

### **Column two: research**

- proposition by DFG to introduce "grant scheme lump sums" (i.e. overhead)
- unanimously accepted by the federal government and the states
- still pending because of a junctim between the two columns of the higher education pact

# **Column two: research**

➤ Basic idea:

A lump sum on top to cover indirect, additional and variable expenses caused by the project but not immediately and exclusively attributable to the project.

Grant scheme lump sum is 20 % of the granted direct project expenses.

# **Financial Plan**

Introduction of the grant scheme lump sums in several annual steps:

➢ for the year 2007 grants for Collaborative Research Centres, DFG Research Centres and Research Training Groups (i.e. annual grants)

➤ starting with year 2008 all new grants

## **Financial Plan**

#### >overall volume 703,5 Mio. €

2007	100,2 Mio €
2008	138,9 Mio €

2009 206,9 Mio €

# 2010 <u>257,5 Mio €</u>

703,5 Mio €

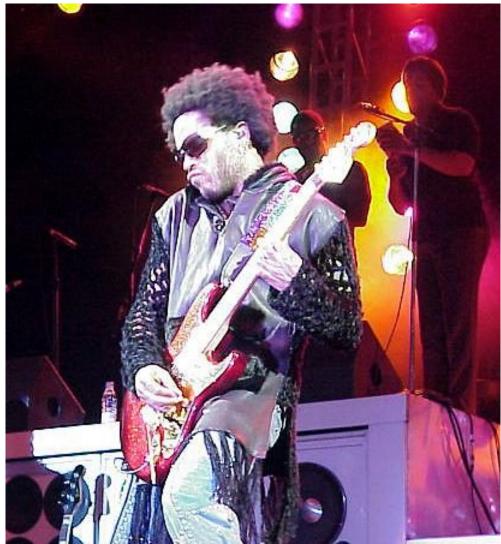
# **Financial Plan**

- 100 % reimbursement for DFG from the federal government, guaranteed until the year 2010
- Grant scheme lump sums to be continued from the year 2011, sharing of the costs between federal government and states to be decided then.

# Challenges

- possible lack of constitutional competence and hence financial responsibility of the federal government
- form of grant uncommon to German budgetary law/law of grants; requires only partial reimbursement of expenses
- Continued financing of the excellence initiative and the grant scheme lump sums may lead to a bigger share of the federal government in supporting DFG:

#### Who pays the piper calls the tune.....



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Thank you for your attention !

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