

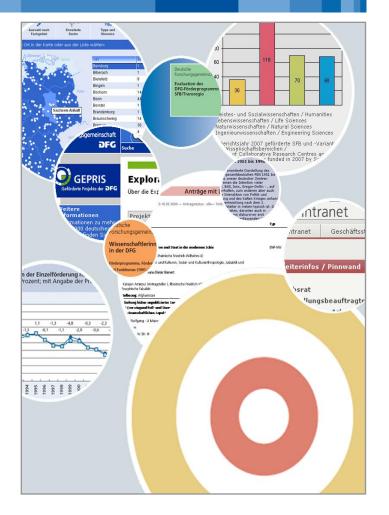
# DFG – Funding Ranking: Integrating Various Data Sources from Funding Agencies for Monitoring Purposes

ESF-Member Forum on Evaluation of Funding Schemes and Research Programmes, Dublin, 16-17 November 2009



### Agenda

- 1. Background
- 2. DFG at a Glance
- 3. The DFG's New Funding-Ranking
- Research Explorer A New Information Resource of the DFG





### Background

growing need for statistical data that inform on

- trends in research
- research profiles of regions and institutions
- collaboration in science
- gender aspects ...

most studies rely on bibliometrics (publications and citations), but:

- difficulties in data handling; data are not as easy to interprete as many people think
- lack of up-to-date information; often activities in the long past are described (e.g. citations mainly refer to publications five years and older)
- problems of coverage for certain disciplines and types of publications (esp. books)
- surveys on that topic help but who likes surveys? ;-)
- what other solutions are possible?

### Why is the DFG Engaged in Monitoring Science?

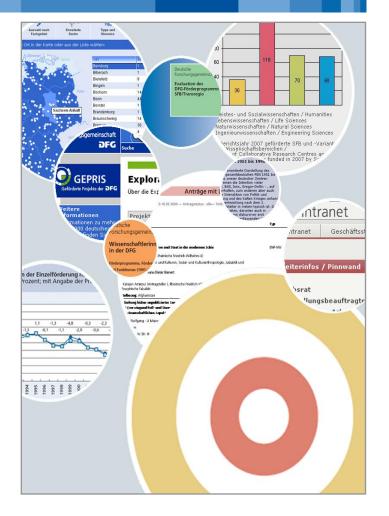
important target groups for services described above:

- science managers at universities
- research planners at ministries
- representatives from professional disciplinary associations
- DFG has very close links to these target groups:
  - private association: members are universities and other research organisations
  - important statute of the DFG: to give advise to parliaments and public authorities on scientific matters and to foster relations with the private sector and between scientists and academics at home and abroad
  - DFG is funding research in all disciplines. Disciplinary structured "Review Boards" (e.g. Economics, Mathematics) play an important role in the review process.
- So the DFG decided to develop an own statistical monitoring service.



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### **DFG Programme Portfolio and Budget (2007)**

29.3%: Individual Grants Programme54.6%: Coordinated Programmes06.3%: Promoting Young Researchers

01.2%: Scientific Prizes07.2%: Scientific Instrumentation and Infrastructure01.4%: Encouraging Scientific Contacts (and other)

➔ programme portfolio and budget:

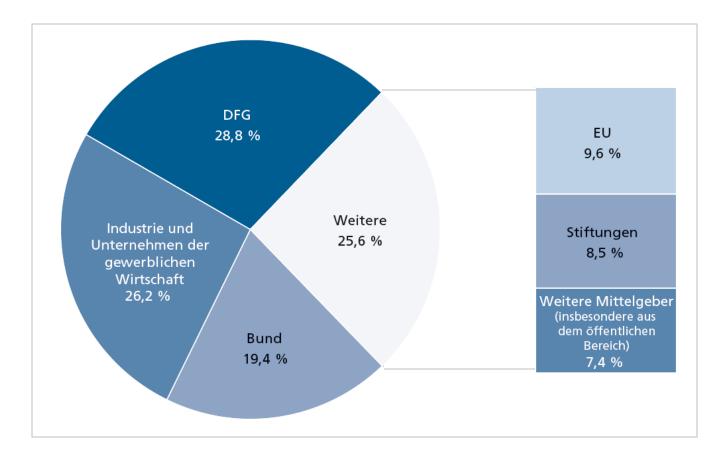
~2 Billion €, more than 1.000 programmes and 20.000 projects funded



DEG



# Third-Party Funding Income of German Higher Education Institutions (HEI) by Source (2006)

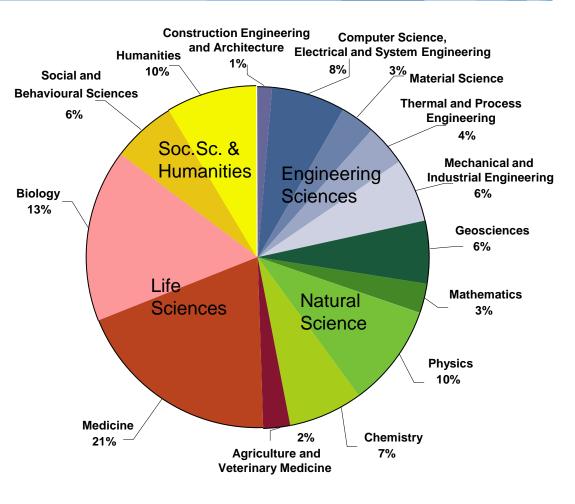




### DFG Awards by Scientific Discipline (2007)

### **Research Fields:**

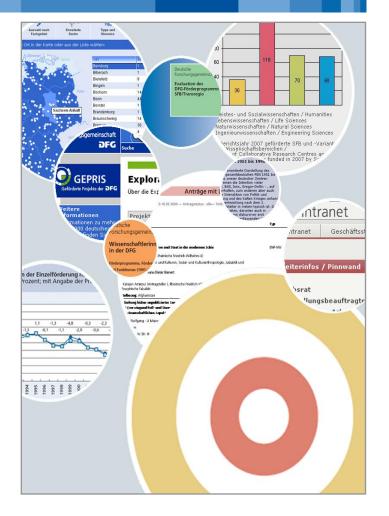
- Soc.Sci.+ Humanities 16%
- Engineering Sciences 22%
- Natural Sciences 26%
- Life Sciences 36%





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## **The DFG Funding Ranking** Targets

Planning tool for universities and other actors engaged in research planning and strategy

Helps to identify research profiles by means of:

- institutional profiles: information about research profiles and main research fields covered by German HEIs
- regional profiles: unveil regional profiles and clusters of excellence
- structural profiles: inform about networks in science
- disciplinary profiles: detailed analysis on research activities in different disciplines and fields of research (e.g. biotechnology)

#### Deutsche Forschungsgemeinschaft

#### Förder-Ranking 2009 Institutionen – Regionen – Netzwerke

Fachliche Profile von Hochschulen und außeruniversitären Forschungseinrichtungen im Licht öffentlich geförderter Forschung



D)E(

### Database of the Funding-Ranking ElektrA – the DFG-Internal Data Source

### **Facts and Figures**

- DFG internal electronic proposal processing system
- in use since 2005 (integration of data as from 1982)
- used for all funding programmes
- used by about 500 staff members
- data source for all information products published by the DFG

### Contains data on (continiously growing):

- ▶ 500,000 proposals
- 150,000 scientists
- 30,000 national and international university and non-university institutes

Funding-Ranking, J. Guedler Dublin, Nov., 16-17<sup>th</sup> 2009

#### Suchen Extras Hilfe 🕈 🔲 INST 217 Rheinische Friedrich-Wilhelms-Universität Bonr • 🗂 EXC. Übersicht Kerndaten Kommunikation Beziehungen Hierarchie Bemerkungen Doku • 🗖 FUGG Art der Zugehörigkeit ' ohne Übergeordnete 🕈 🖾 GRK Institutionsart Universität ▼ <u>GRK 1150</u> (gaf. Bew.Empfänger) Rheinische Friedr-Wilhelms-Uni Bonn V GRK 1470 Kurzname <sup>1</sup> Rheinische Friedr-Wilhelms-Uni Bonn ▼ GRK 1497 Name-Deutsch \* **GRK 1514** V GRK 1572 Name-Englisch \* **W** GRK 1577 \* ▼ GRK 246 Name-Postanschrift ' Rheinische Friedrich-Wilhelms-Universität Bonn ▼ GRK 437 ▼ GRK 519 -V GRK 629 Listenname **V** GRK 677 Gründungsdatum 01.01.1818 Postaustausch Γ Auflösungsdatum **W** GRK 721 Web-Adresse www1 uni-bonn de/startseite/isp/index isp ▼ <u>GRK 722</u> SB-Fachgebiet Institution all gemein V GRK 804 MACH-Institution Γ $\nabla$ Globalabruf Programmpauschale Abrechnungsverfahren Drittmittelbewilligung 109 32 HIS/Sigel HRK-Kennung SB-Kennund • 🗂 2003 Bearbeiten • 🗂 <sub>2002</sub> • 1 2001 Telefonverzeichnis PLZ-Suche Neue ElektrA Instanz Team-Administration Statistik-Seiten Inbox ISR-Find Anfang



# Database of the Funding-Ranking Internal Databases from Other Funding Agencies

- The Funding Ranking relies on DFG-data as well as data from other funding agencies.
- Data are matched by use of matching-tables developed within the DFG.
- so: DFG-service for member institutions developed into a "service from funders to the funded"





Deutscher Akademischer Austausch Dienst German Academic Exchange Service







Federal Ministry of Education and Research



### The Institutional Repository (IRD) of the DFG

#### The Idea of the IRD

- In Germany a lot of actors are involved in the organisation and funding of research at universities and non-university research institutions e.g. DFG, DAAD, German Rector's conference (HRK), Alexander-von-Humboldt-Foundation (AvH).
- Since the late 1990's there is a growing need for exchanging data on an institutional base between these organisations.
- The DFG itself was in need of a standardised institutional classification of proposals and reviewers for statistical purposes.

#### Result

- Introduction of a common key for institutional affiliations as a helpful tool
- Matching data form different institutions by using this tool
- Some institutions will use the original key in near future (e.g. AvH)



### **IRD Based DFG-Internal Products**

Individual Letters to Applicants, Reviewers and Board Members

#### **Characteristics**

- letters to applicants, reviewers, and members of the Statutory Bodies of the DFG
- adresses used are based on the IRD
- ease of use by selecting adresses via interface
- central quality assurance
  Contribution to Data Quality Management
- active use of adresses when sending letters
- about 30.000 proposals per year resulting in about 100.000 letters to people involved in the application process
- 80% of all adresses held in the IRD are used at least once a year
- letters with incorrect adresses are returned and quality process is triggered

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| Herrn<br>Professor Dr. Heinz-Werner Dämmer             | Gesch.Pistalle<br>Kennedysber 44<br>Benn – End Gedesburg   |
| Universität zu Köln                                    |  |
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# IRD Based DFG-Internal Products University Report

#### **Characteristics**

- database driven report
- sent to DFG's member institutions every year
- gives information on all funding approvals by the DFG sorted by department and institute

#### **Contribution to Data Quality Management**

- reflects the structure of the university
- missing institutes can be detected easily by target audience
- immediate feedback by the central contact person at the university

|                    | Universität Dortmund (INST 212)<br>je Organisationseinheit und Antrag   |                 |        |
|--------------------|---|-----------------|--------|
| Zeitraum 🕨 1.1.2   |   |                 |        |
|                    | Gesamtbewilligungssumme im Berichtszeitraum: 19.385.494 €   |                 |        |
| Aktenzeichen       |   | achsystematik** | bewi   |
| Universität Dortm  | und (unmittelbar)***  |                 |        |
| GRK 1032/1:3       | Statistische Modellbildung (Graduiertenkolleg)  | 312             | 265.   |
| GRK 254/4:2        | Allokationstheorie, Wirtschaftspolitik und kollektive Entscheidungen (Graduiertenkolleg)  | 112             | 13.    |
| GRK 298/3:4        | Struktur-Dynamik-Beziehungen in mikrostrukturierten Systemen (Graduiertenkolleg)  | 303             | 36.    |
| GRK 298/4:1        | Struktur-Dynamik-Beziehungen in mikrostrukturierten Systemen (Graduiertenkolleg)  | 303             | 21.    |
| GRK 726/2:3        | Materialeigenschaften und Konzepte zur Quanteninformationsverarbeitung (Graduiertenkolleg)  | 307             | 240.   |
| GRK 841/1:4        | Physik der Elementarteilchen an Beschleunigern und im Universum (Graduiertenkolleg)   | 307             | 58.    |
| GRK 841/3:1        | Physik der Elementarteilchen an Beschleunigern und im Universum (Graduiertenkolleg)   | 309             | 84.    |
| SFB 475/3:4        | Komplexitätsreduktion in multivariaten Datenstrukturen (Sonderforschungsbereich: Rahmenantrag)  | SOZ             | 826.   |
| SFB 475/4:1        | Komplexitätsreduktion in multivariaten Datenstrukturen (Sonderforschungsbereich: Rahmenantrag)  | SOZ             | 986.   |
| SFB 531/4:1        | Design und Management komplexer technischer Prozesse und Systeme mit Methoden der Computational<br>Intelligence (Sonderforschungsbereich: Rahmenantrag)   | ELE             | 1.357. |
| SFB 559/3:3        | Modellierung großer Netze in der Logistik (Sonderforschungsbereich: Rahmenantrag)   | MAS             | 1.262. |
| SFB 696/1:1        | Forderungsgerechte Auslegung von intralogistischen Systemen - Logistics on Demand<br>(Sonderforschungsbereich: Rahmenantrag)  | MAS             | 319.   |
| TRR 10/1:4         | Integration von Umformen, Trennen und Fügen für die flexible Fertigung von leichten Tragwerkstrukturen (S<br>/ Transregio: Rahmenantrag)  | SFB MAS         | 1.037. |
| TRR 10-T01-1:1     | T01 Verbesserung der Werkstoff- und Bauteileigenschaften von Luftfahrtstringern durch Verbundstrangpres<br>(SFB / Transregio: Transferprojekt)  | sen 40102       | 58.    |
| TRR 30/1:1         | Prozessintegrierte Herstellung funktional gradierter Strukturen auf der Grundlage thermo-mechanisch<br>gekoppelter Phänomene (SFB / Transregio: Rahmenantrag)   | MAS             | 280.   |
| Fachbereich Bio- u | und Chemieingenieurwesen  |                 |        |
| INST 212/122-2:1   | Guido Sand (Teilprojektleiter), Belegungsplanung verfahrenstechnischer Mehrproduktanlagen unter<br>Berücksichtigung von Unsicherheiten mit hybriden Algorithmen (Sonderforschungsbereich: Einzelantrag / SF<br>531)                         | 40901<br>B      | (58.8  |
| INST 212/122-2:1   | Professor DrIng. Sebastian Engell (Teilprojektleiter), Belegungsplanung verfahrenstechnischer<br>Mehrproduktanlagen unter Berücksichtigung von Unsicherheiten mit hybriden Algorithmen<br>(Sonderforschungsbereich: Einzelantrag / SFB 531) | 40901           | (58.8  |
| INST 212/141-1:1   | Professor DrIng. Sebastian Engell (Teilprojektleiter), Management von MINLP-Problemen durch evolutionär<br>Strategien (Sonderforschungsbereich: Einzelantrag / SFB 531)   | e 40901         | (58.8  |
| INST 212/141-1:1   | Guido Sand (Teilprojektleiter), Management von MINLP-Problemen durch evolutionäre Strategien<br>(Sonderforschungsbereich: Einzelantrag / SFB 531)   | 40901           | (58.8  |
| KE 837/11-1:1      | Privatdozent DrIng. Eugeny Kenig, Theoretische und experimentelle Untersuchung der Tropfenkoaleszenz i<br>Flüssig-Flüssig-Systemen (Einzelförderung: Einzelantrag)  | in 40301        | 224.   |
| TU 269/1-1:1       | DrIng. Feelly Tumakaka, *Oiling-out* bei der Kristallisation -<br>Experimentelle Untersuchung und Modellierung (Einzelförderung: Einzelantrag)  | 40402           | 135.   |
|                    | Anlagensteuerungstechnik  |                 |        |
| EN 152/35-1:1      | Professor DrIng. Sebastian Engell, Optimal Control of Periodic Adsorption Processes via a reduced<br>Newton-Picard scheme (Schwerpunktprogramm: Einzelantrag / SPP 1253)  | 31201           | 61.    |

### **Objectives, Approach and Databases of the Funding-Ranking** Subject-Related Analyses, Analyses by Source and Recipients

Indicators cover approximately 90 percent of the third-party funding income of scientific and higher education institutions in Germany.

Huge set of additional non-monetary indicators (international appeal, scientific expertise...)

No costly and laborious data collection from the research institutions but direct processing of data concerning funding activities of central sources

# subject-related analyses

classification according to four scientific disciplines

#### specifics:

DFG: 48 research fields German government: 12 funding fields EU: 8 funding fields AvH / DAAD a.o: 14 research areas

Funding-Ranking, J. Guedler Dublin, Nov., 16-17<sup>th</sup> 2009

#### analyses by source

Deutsche Forschungsgemeinschaft German government European Union European Research Council German Federation of Industrial Reserach Organizations Alexander von Humboldt Foundation German Academic Exchange Service

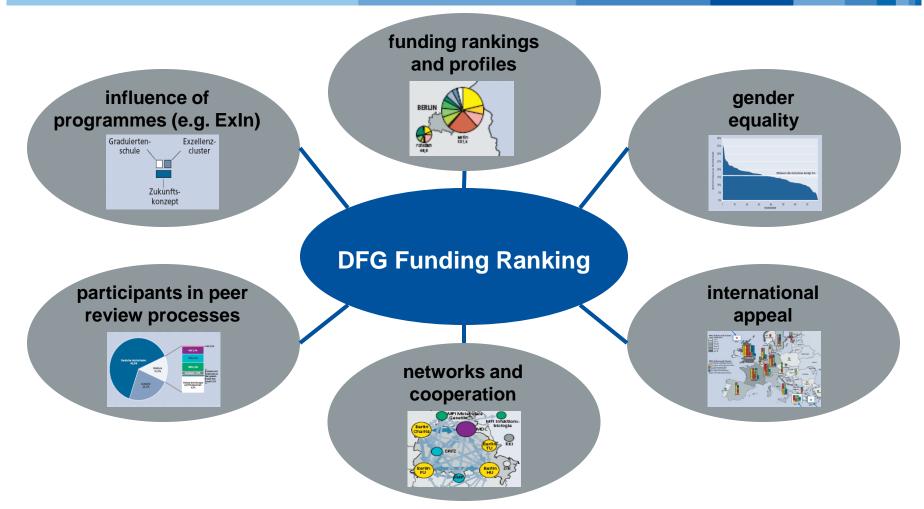
### analyses by recipients

#### dimensions of differentiation:

countries, states, regions, institutions.

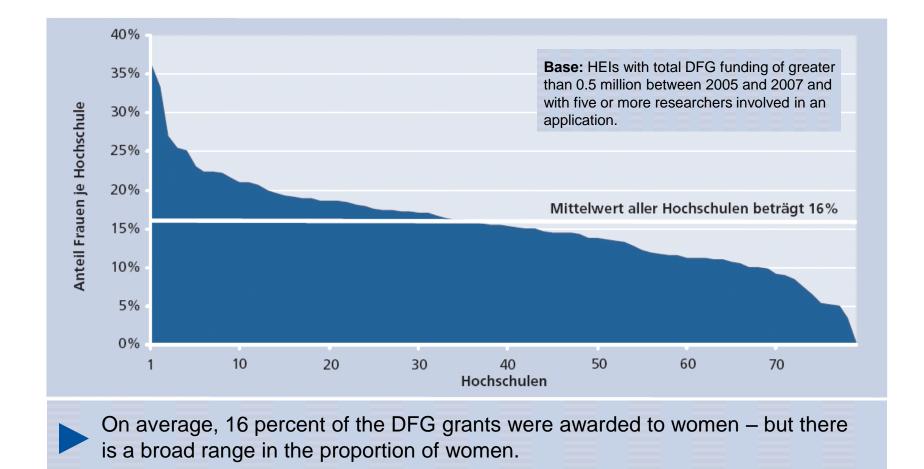


### Aspects of Statistical Reporting Within the DFG Funding Ranking



**DFG** 

## A Contribution to Ensuring Transparency in Gender Equality Issues Share of DFG Awards Allocated to Women

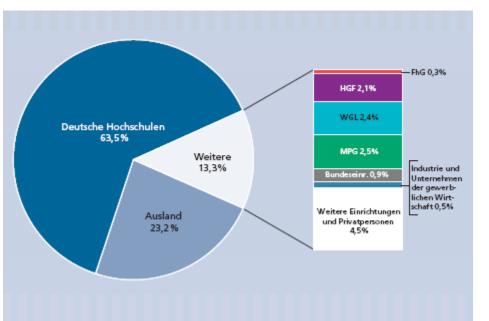


Funding-Ranking, J. Guedler Dublin, Nov., 16-17<sup>th</sup> 2009

# DFG

## Participation of Researchers in the DFG's Review System An Indicator for Scientific Expertise

- Between 2005 and 2007 the DFG's decisionmaking bodies relied on the expertise of more than 15,000 reviewers.
- The figure illustrates the broad range of institutional origins.
- The number of reviewers per HEI or nonuniversity reserach institution is used as an indicator for scientific expertise.
- Another indicator reports the institutional origin of the just under 600 members of the DFG Review Boards.



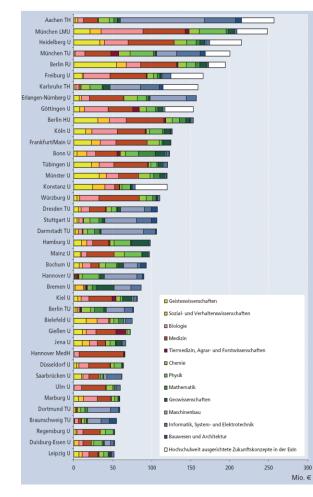


### **Disciplinary Profiles of Universities** Different Forms of Data Presentation - e.g. amount of funding by discipline

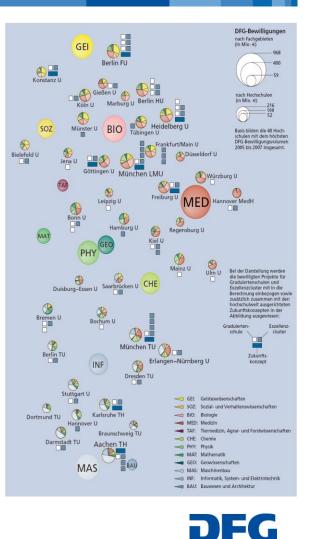
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|--------------------------|---------------|-----------------|----------------|-----------------------------------|--------------------------------|-------------------------------|-----------------------|---------------------------------------|
|                          | Rang          | Mo.C            | kum. %         | Mo.C                              | His. C                         | Mo.C                          | Mo.C                  | Mo.C                                  |
| Aathen TH                | 1             | 257,1           | 31             | 5,4                               | 26,4                           | 28,0                          | 155,7                 | 41,5                                  |
| München LMU              | 2             | 249,0           | 10,0           | 25,1                              | 112,0                          | 58,2                          | 2,9                   | 29,0                                  |
| Heidelberg U             | - 2           | 215,4           | H <sub>2</sub> | 20,5                              | 41,5                           | 29,0                          | 6,2                   | 41,2                                  |
| München TU               | - 4           | 200,4           | 10,2           | 1,0                               | 55,8                           | 48,7                          | 62,6                  | 21,4                                  |
| Berlin FU                | 5             | 194,4           | 22,0           | 67,6                              | 66,0                           | 27,1                          | 2,1                   | 21,7                                  |
| Freiburg U               | 6             | 165,5           | 25,2           | 12,7                              | 41,2                           | 14,2                          | 12,2                  | 41,0                                  |
| Karlaruhe TH             | 7             | 159,4           | 28,4           | 2,9                               | \$,9                           | 26,9                          | 67,6                  | 45,1                                  |
| Erlangen-Nümberg U       | - 4           | 157,6           | 21,5           | 18,0                              | 54,6                           | 22,2                          | 59,0                  |                                       |
| Göttingen U              | 9             | 152,5           | 24,5           | 12,6                              | 71,2                           | 21/4                          | 2,4                   | 26,7                                  |
| Berlin HU                | 10            | 152,4           | 27,5           | 45,9                              | 71,9                           | 21,0                          | 4,5                   |                                       |
| KölnU                    | - 11          | 126,4           | 40,0           | 22,2                              | 61,6                           | 21,2                          | 2,2                   |                                       |
| Frankfurt/Main U         | 12            | 124,8           | 42,5           | 24,2                              | 61,2                           | 24,6                          | 1,6                   |                                       |
| Bonn U                   | 12            | 122,6           | 44,9           | 16,4                              | 49,2                           | 57,8                          | 5,0                   |                                       |
| Tübingen U               | 14            | 120,4           | 47,2           | 22,0                              | 62,1                           | 17,5                          | 6,0                   |                                       |
| Münster U                | 15            | 119,9           | 49,6           | 41,7                              | 41,0                           | 24,8                          | 2,4                   |                                       |
| Konstanz U               | 16            | 119,7           | 52,0           | 48,0                              | 18,9                           | 15,9                          | 2,9                   | 48,9                                  |
| Würzburg U               | 17            | 110,4           | 54,2           | 7,6                               | 76,8                           | 22,6                          | 2,5                   |                                       |
| Dreaden TU               | 18            | 107,2           | 56,2           | 9,7                               | 21,9                           | 14,6                          | 45,9                  |                                       |
| Stuttigart U             | 19            | 106,7           | 58,4           | 6,6                               | \$,0                           | 27,2                          | 67,0                  |                                       |
| Darmatadt TU             | 20            | 106,1           | 90,5           | 61                                | 6,1                            | 22,2                          | 70,7                  |                                       |
| Hamburg U                | 21            | 96,7            | 62,4           | 16,9                              | 28,9                           | 48,5                          | 2,2                   |                                       |
| Maire U                  | 22            | 97,5            | 64,2           | 11,2                              | 41,6                           | 44,5                          | 1,2                   |                                       |
| Bochum U                 | 22            | 92,8            | 66,2           | 11,2                              | 217                            | 217                           | 29,4                  |                                       |
| Harmover U               | 24            | 90,2            | 67,9           | 2,1                               | 4,6                            | 22,9                          | 50,6                  |                                       |
| Gremen U                 | 25            | 86,7            | \$2,7          | 12,6                              | 2,6                            | 25,6                          | 24,7                  |                                       |
| Kiel U                   | 26            | 61,6            | 71,2           | 9,4                               | 45,0                           | 28,1                          | 7,1                   |                                       |
| Berlin TU                | 27            | 77,1            | 72,0           | 5,2                               | 5,2                            | 21,2                          | 25,2                  |                                       |
| Gielefeld U              | 20            | 74,1            | 74,2           | 20,0                              | 16,0                           | 17,2                          | 10,8                  |                                       |
| Gießen U                 | 29            | 72,4            | 75,7           | 16,2                              | 51,2                           | 5,0                           | 0,4                   |                                       |
| Jens U                   | 20            | 66,4            | 77,0           | 20,1                              | 21,0                           | 20,1                          | 5,6                   |                                       |
| Harmover MedH            | 31            | 65,8            | 70,2           | 0,4                               | \$4,2                          | 0,2                           | 0,8                   |                                       |
| DüsseldorfU              | 22            | 62,6            | 79,6           | 6,0                               | 41,1                           | 15,4                          | 1,4                   |                                       |
| Saarbrücken U            | 22            | 61,9            | 80,8           | 12,2                              | 20,1                           | 6,0                           | 22,7                  |                                       |
| UmU                      | 24            | 59,5            | 61,9           | 0,6                               | 41,0                           | 11,4                          | 6,5                   |                                       |
| Marburg U                | 25            | 59,2            | 82,1           | 12,2                              | 25,7                           | 11/A                          | 0,9                   |                                       |
| Dortmund TU              | 26            | 56,6            | 54,2           | 2,2                               | 2,6                            | 12,2                          | 40,6                  |                                       |
| Braunedtweig TU          | IJ            | 54,8            | 85,4           | 1,2                               | 9,0                            | 7,2                           | 27,2                  |                                       |
| RegeraburgU              | 20            | 52,5            | 35,4           | 41                                | 28,7                           | 18,5                          | 0,1                   |                                       |
| Duisburg-Eusen U         | 20            | 52,2            | 87,4           | 6,7                               | 15,9                           | 17,0                          | 12,7                  |                                       |
| LeipdgU                  | 40            | 52,2            | 30,4           | 11,6                              | 21,2                           | 15,5                          | 45                    |                                       |
| Hochechulen ine geeenst  | 01-159        | 5.676,7         | 100,0          | 769,4                             | 1.722,7                        | 1.170,6                       | 1.074,7               | 229,4                                 |
| Basis: H Hochschulen     |               | 159             |                | 124                               | 70                             | 06                            | 97                    | 9                                     |
| Legende der Ranggrupperz |               |                 |                |                                   |                                |                               |                       |                                       |
|                          | la 20.<br>rej | 21. bla<br>Rans |                | 21. bla 44.<br>Rang               |                                | ang de                        | 61. una<br>weitere Rá |                                       |



## **Disciplinary Profiles of Universities** Example Humanities & Social Sciences

range of information:

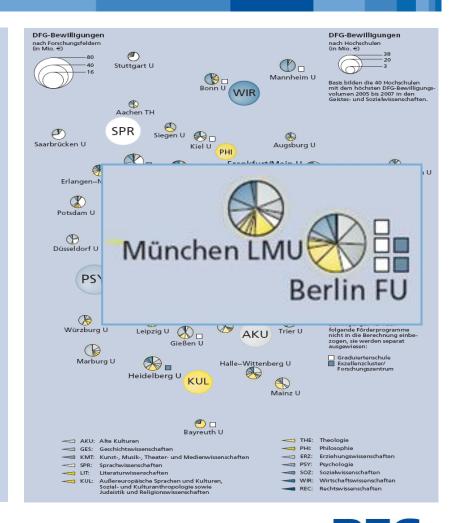
- funding volume
- spectrum of disciplines of each HEI
- participation of HEI in "Excellence Initative"
- FU Berlin LMU Munich:

similar volume of funding

and

similar disciplinary profile

- different participation in ExIn



### **Networks and Cooperation Structures within DFG Funded Programmes: Humanities & Social Sciences**

very dense coll. cluster in Berlin Fraunhofer-Gesellschaf = Berlin capitalizes its local ressources be BBAW Berlin FU MPI Bildungsforschung Berlin TU MPI Wissenschaftsgeschichte Berlin HU SW7Potsdam U Potsdamurg U Babelsberg HFF MPI Ethnologische Forschung

Art der Einrichtung

Gemeinsame Beteiligun von Einrichtungen (N ≥ 3

**Deutsches** 

Archaologisches Institut

Hertie School

of Governance

WIAS

Frankfurt/Oder U

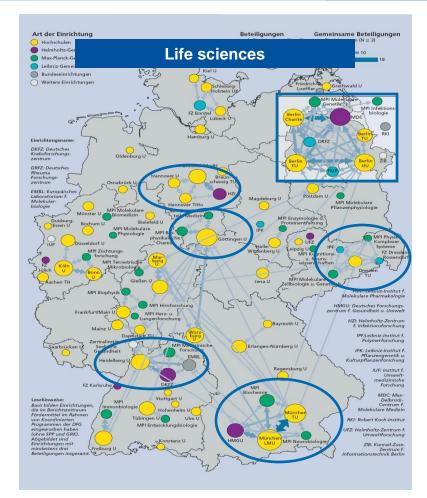
Berlin

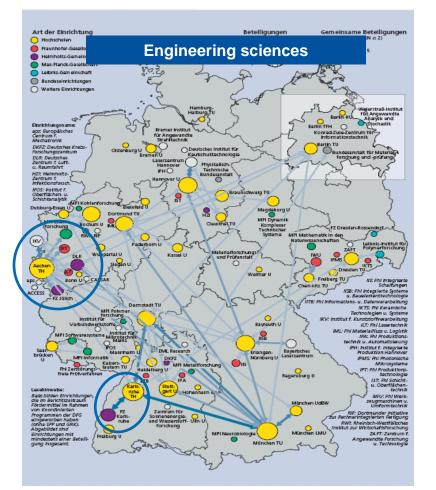
Charité

WZB

Funding-Ranking, J. Guedler Dublin, Nov., 16-17th 2009

# Networks and Cooperation Structures Within DFG Funded Programmes Life Sciences and Engineering Sciences

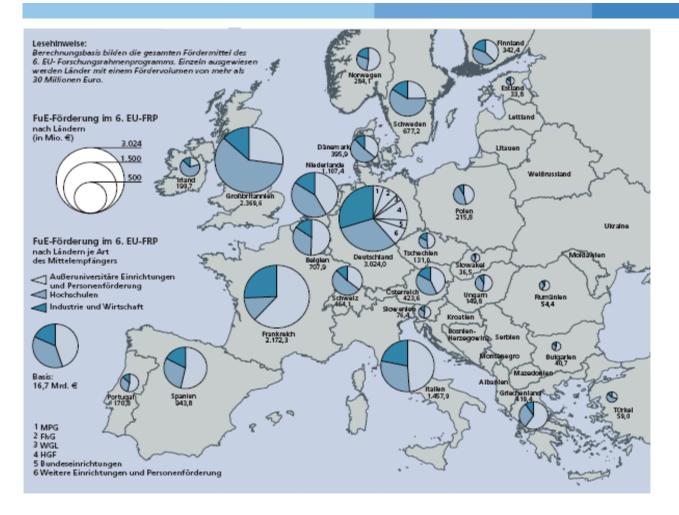




Funding-Ranking, J. Guedler Dublin, Nov., 16-17<sup>th</sup> 2009

# DFG

### The European Dimension 6th Framework Programme of the European Union



Funding-Ranking, J. Guedler Dublin, Nov., 16-17<sup>th</sup> 2009

#### Ranking of countries

| Country        | Mio. €   | cum. % |
|----------------|----------|--------|
| Germany        | 3.024,0  | 18,1   |
| United Kingdom | 2.369,6  | 32,4   |
| France         | 2.172,3  | 45,4   |
| Italy          | 1.457,9  | 54,1   |
| Netherlands    | 1.107,4  | 60,8   |
| Spain          | 943,8    | 66,5   |
| Belgium        | 707,9    | 70,7   |
| Total          | 16.665,3 | 100,0  |

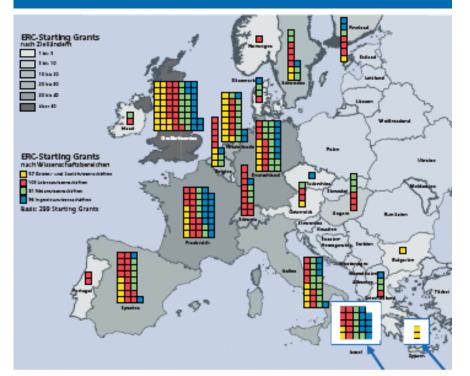
#### **Recipients in Germany**

| Type of institution            | Mio. €  | %     |
|--------------------------------|---------|-------|
| HEI                            | 947,9   | 31,3  |
| Non-univ. research institution | 1.173,5 | 38,8  |
| Max-Planck-Society (MPG)       | 154,3   | 5,1   |
| Fraunhofer-Society (FhG)       | 216,4   | 7,2   |
| Helmholtz-Association (HGF)    | 316,9   | 10,5  |
| Leibniz-Association (WGL)      | 94,5    | 3,1   |
| Federal institutions           | 128,1   | 4,2   |
| Other institutions             | 263,2   | 8,7   |
| Business institutions          | 900,9   | 29,8  |
| Non-institutional recipients   | 1,7     | 0,1   |
| Total                          | 3.024,0 | 100,0 |

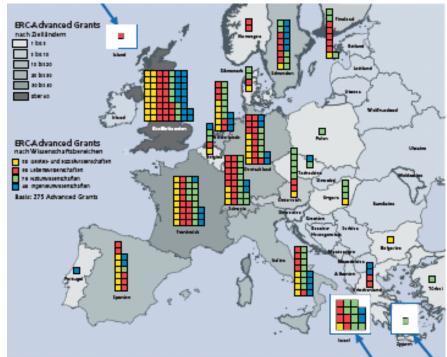


### The European Dimension European Research Council

#### **Starting Grants**



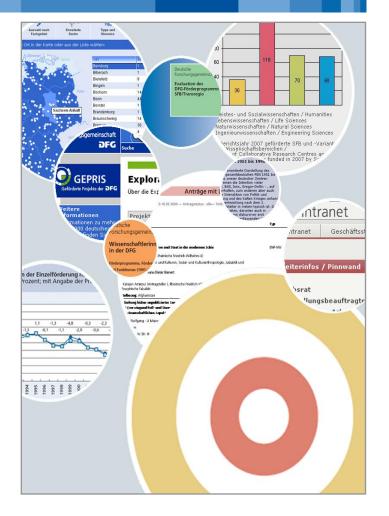
#### **Advanced Grants**





### Agenda

- 1. Background
- 2. DFG at a Glance
- 3. The DFG's New Funding-Ranking
- 4. Research Explorer A New Information Resource of the DFG

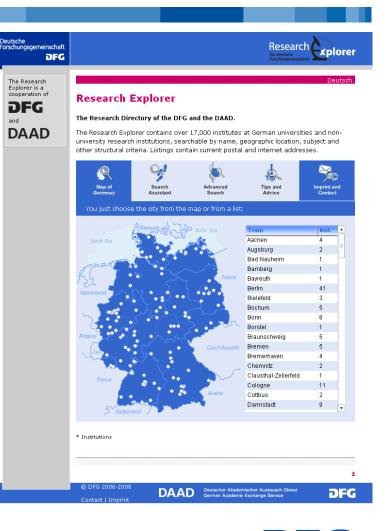




# **New Information Resources Offered by DFG** Research Explorer (REx): www.research.explorer.dfg.de

### **Characteristics**

- bilingual database (German / English) on research institutes at German HEIs and other institutions
- detailed information on nearly 20,000 institutes at these institutions
- links to GEPRIS (Abstract-Database on DFG-funded projects)



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# New Information Resources Offered by DFG Search Example

### Search

- research area = "mathematics"
- federal state = "Brandenburg"

14 hits

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|  | g University of Tecl  |   |                     |                     |
| Faculty 1:   | Mathematics, Scier  | ice and Computer !                                      | Science             |                     |
| selected ins   | titution  |   |                     |                     |
| Institute o  | of Mathematics  |   |                     |                     |
| Address  |   |   |                     |                     |
|  | g University of Techn<br>Mathematics  | ology in Cottbus  |                     |                     |
| Universitäts   | platz 3-4   |   |                     |                     |
| D-03044 Cot  | ttbus   |   |                     |                     |
| Phone  |   |   |                     |                     |
| +49 355 69-<br>F <b>ax</b>   | 3153  |   |                     |                     |
| 49 355 69-   | 3164  |   |                     |                     |
| Vebsite<br>vww.math.t  | :u-cottbus.de/  |   |                     |                     |
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# Thank you for your attention

### **More informations**

- On DFG: www.dfg.de
- On DFG-funded projects: www.dfg.de/gepris/
- On nearly 20.000 research institutions in Germany: www.dfg.de/research\_explorer/

