GMD: the German National Research Center for Information Technology

GMD was established in 1968.

GMD is a non-profit company

Owners are the Federal Republic of Germany (90%) and some federal states (Hesse, North-Rhine-Westphalia, Berlin)

Staff: about 1100 + 270 students

Annual budget: approx. _ 96 Million, about 32 % of this amount comes from project work and industrial cooperation.

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Mission of GMD

GMD's core functions are:

- **development of innovative ideas in the area of basic research,**
- **development of innovative prototypes as a basis for new products,**
- **training of talented research scientists**
- **transfer of knowledge to the business community and to society**

- **Co-operation with industry (100 national and international companies), universities and other research institutions**
- **GMD participates in over 70 European research projects,**
- **Office in Japan**
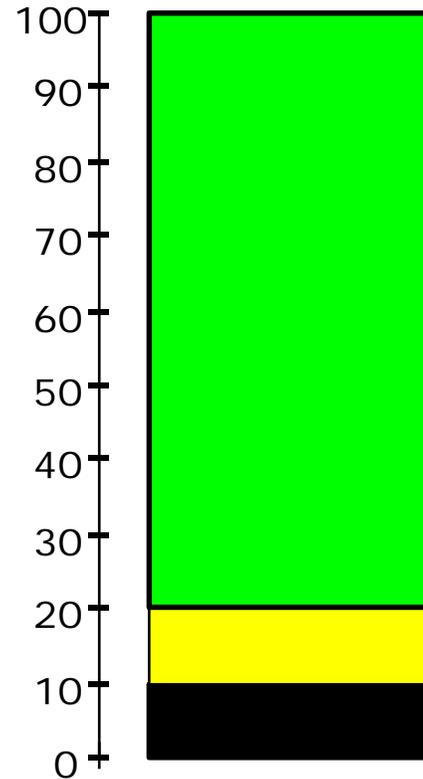- **18 spin off companies since 1995.**

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GMD Research Programme 2000

- Autonomous systems
- Computer simulation and virtual engineering
- Computing and biology
- IT security
- Information engineering
- Media technology
- Multimedia based co-operative teaching and learning
- Seamless communication
- Environment sensitive systems
- Virtual societies

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GMD Institutes

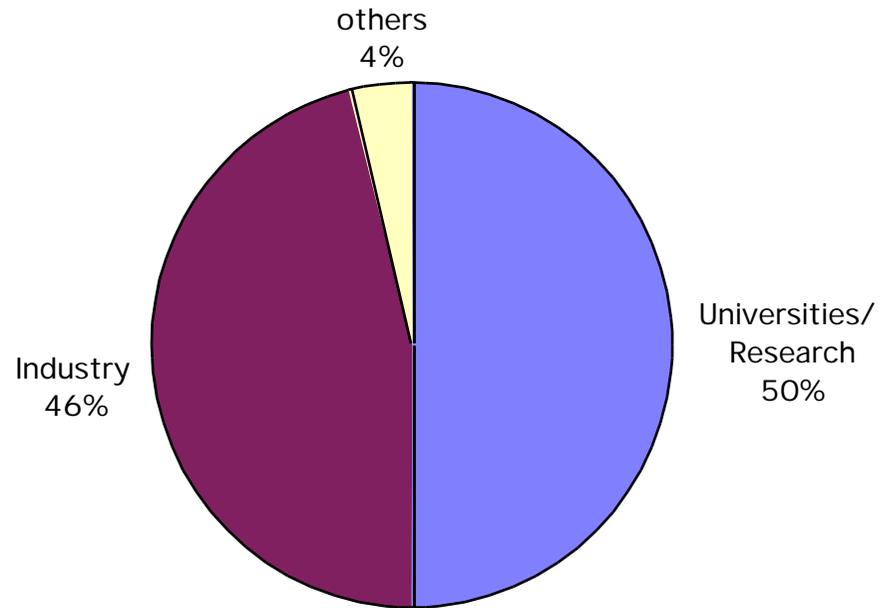|	
FIRST - Institute for Computer Architecture and Software Technology	**FIT** - Institute for Applied Information Technology,
FOKUS - The Institute for Open Communication Systems	**IMK** - Institute for Media Communication
IPSI - Integrated Publication and Information Systems Institute	**SCAI** - Institute for Algorithms and Scientific Computing
AiS - Institute for Autonomous intelligent Systems	**SIT** - Institute for Secure Telecooperation

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Value of Projects with GMD Participation

100 Mio Total Project Value

10 Mio from GMD Sources

10 Mio EU Funding

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GMD Partners in EU Projects

others
4%

Industry
46%

Universities/
Research
50%

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GMD Research Areas in the 5 FP

- **Electronic Commerce**
- **Data Mining**
- **Networking**
- **New Media**
- **E-Learning**

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Some EU Projects of GMD in the 5FP
Data Mining

- **Sol-Eu-Net**
  - ➜ Data mining and decision support for business
  - ➜ Competitiveness: Solomon Virtual Enterprise

- **SPIN**
  - ➜ Spatial Mining for Data of Public Interest

- **XML-KM**
  - ➜ XML-based Mediator Knowledge Extraction and Brokering

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Some EU Projects of GMD in the 5FP New Media

- ● Paperless
  - ➡ Tools for paperless animation

- ● Tower
  - ➡ Theatre of Work Enabling Relationship

- ● NexTV
  - ➡ New Media Consumption

- ● SAMBITS
  - ➡ System for Advanced Multimedia Broadcast Information

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Some EU Projects of GMD in the 5FP Electronic Commerce

- **FORM**
  - ➡ Engineering Intelligent Infrastructures to support Trusted On the Fly Federated Organisations Management

- **HARP**
  - ➡ Harmonisation for the Security of Web Technologies and Applications

- **PACE**
  - ➡ Public Administration and Electronic Commerce in Europe

- **COGITO**
  - ➡ E-Commerce with Guiding Agents based on Personalized Interaction Tools

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Some EU Projects of GMD in the 5FP Electronic Commerce

- ## EXTERNAL
  - ➡ Extended Enterprise Resources, Network Architectures and Learning

- ## FAIRWIS
  - ➡ Trade-Fair Web-based Information Services

- ## OPELIX
  - ➡ An Open Electronic Information Commerce System

- ## SoNG
  - ➡ Portals for the next Generation

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Some EU Projects of GMD in the 5FP Networking

- CORVAL2
  - ➜ Enhanced Techniques for COBRA Validation

- FAIN
  - ➜ Future Active IP Networks

- FANA
  - ➜ Future Active Networks Application

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Some EU Projects of GMD in the 5FP Networking

- **InHoMNet**
  - ➡ In House High Speed Multimedia Network Interfaces

- **E-home**
  - ➡ Electronic Home and Office for the Multimedia Era

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Some EU Projects of GMD in the 5FP
E Learning

- WINDS
  - ➡ Web based Intelligent Design tutoring System

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Some finished EU Projects of GMD

- Cooperative Wide Area Service Architecture **CWASAR**
  - ➡ http://set.gmd.de/SET/rs_f.html

- Basic Support for Cooperative Work on the WWW **BSCW**
  - ➡ http://orgwis.gmd.de/projects/BSCW
- Common Open Brokerage Architecture for the WWW **COBRA**
  - ➡ http://zeus.gmd.de/projects/cobra.html

- End-to-end Security over the Internet **E2S**
  - ➡ http://www.E2S.com
- Secure Electronic Marketplace **SEMPER**
  - ➡ http://www.semper.org/

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