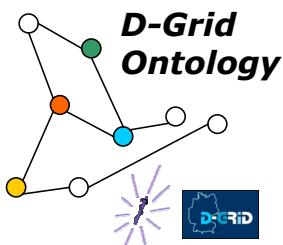


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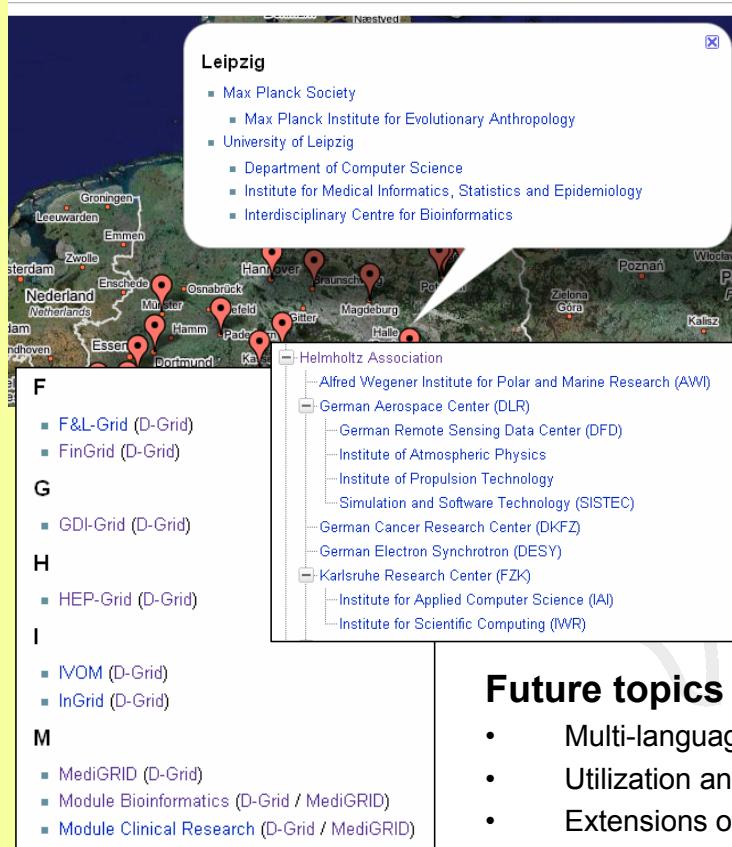
Motivation

- D-Grid is a nationwide and growing project (D-Grid I/II, ...) with hundreds of participants and resources
- Meta information in D-Grid is *heterogeneous* and *distributed*
 - Websites of different D-Grid projects
 - Register for D-Grid hardware resources
 - VOMRS for virtual organizations and persons
- Semantic linkage between the different information objects is missing, but would be particularly valuable for interdisciplinary communities and research
- Wiki-like collection of knowledge to ensure up-to-date content

Idea and Model

- Simple, web-based and collaborative development of a common D-Grid Ontology (DGO)
- Generic approach – applicable in several domains, e.g. medicine and life sciences (MediGRID)
- Meta model: Content Types with *data* and *relation attributes* + further meta information (UI, presentation)
- DGO Content Types: *Person*, *Project*, *Organization*, *Grid Resources*

Organization(s) involved in the D-Grid initiative



A map of Europe with various locations marked by red dots, representing D-Grid participants. A callout box is shown over the city of Leipzig, listing the following institutions:

- Max Planck Society
 - Max Planck Institute for Evolutionary Anthropology
- University of Leipzig
 - Department of Computer Science
 - Institute for Medical Informatics, Statistics and Epidemiology
 - Interdisciplinary Centre for Bioinformatics

Below the map, there is a legend and a list of additional participants:

- F**
 - F&L-Grid (D-Grid)
 - FinGrid (D-Grid)
- G**
 - GDI-Grid (D-Grid)
- H**
 - HEP-Grid (D-Grid)
- I**
 - IVOM (D-Grid)
 - InGrid (D-Grid)
- M**
 - MediGRID (D-Grid)
 - Module Bioinformatics (D-Grid / MediGRID)
 - Module Clinical Research (D-Grid / MediGRID)

Name - Name of the organization
Interdisciplinary Centre for Bioinformatics

Location - City or location (e.g. Leipzig)
Leipzig

Homepage - Organizations homepage (without http://)
www.izbi.de

SuperOrganization - The organization this organization belongs to, e.g. university (use autocomplete for Leipzig)

- University of Leipzig
- University of Leipzig/Department of Computer Science
- University of Leipzig/Institute for Medical Informatics, Statistics and Epidemiology
- University of Leipzig/Interdisciplinary Centre for Bioinformatics

biostatisticians, biomathematicians).

==== Research concept ===

[Change content](#)

Current realization and features

- Creation and edit of content with simple UIs (autocomplete, hierarchy paths)
- Automatic organization and presentation of knowledge in *articles*, *categories* and extended components, e.g. *maps* and *trees*
- Different *Query* and *Navigation* capabilities
- *Evolution environment* for administrators
- Every D-Grid participant is invited to contribute her/his knowledge to the current DGO system at

<http://buell.izbi.uni-leipzig.de/dgo>

Future topics

- Multi-language and enhanced evolution support
- Utilization and validation in other domains
- Extensions of the system based on community needs

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