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# German Healthgrid Activities

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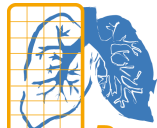
Created by: Dagmar Krefting



# Structure of German LS Grid Activities

ForumGrid

(working group of the TMF)



PneumoGrid

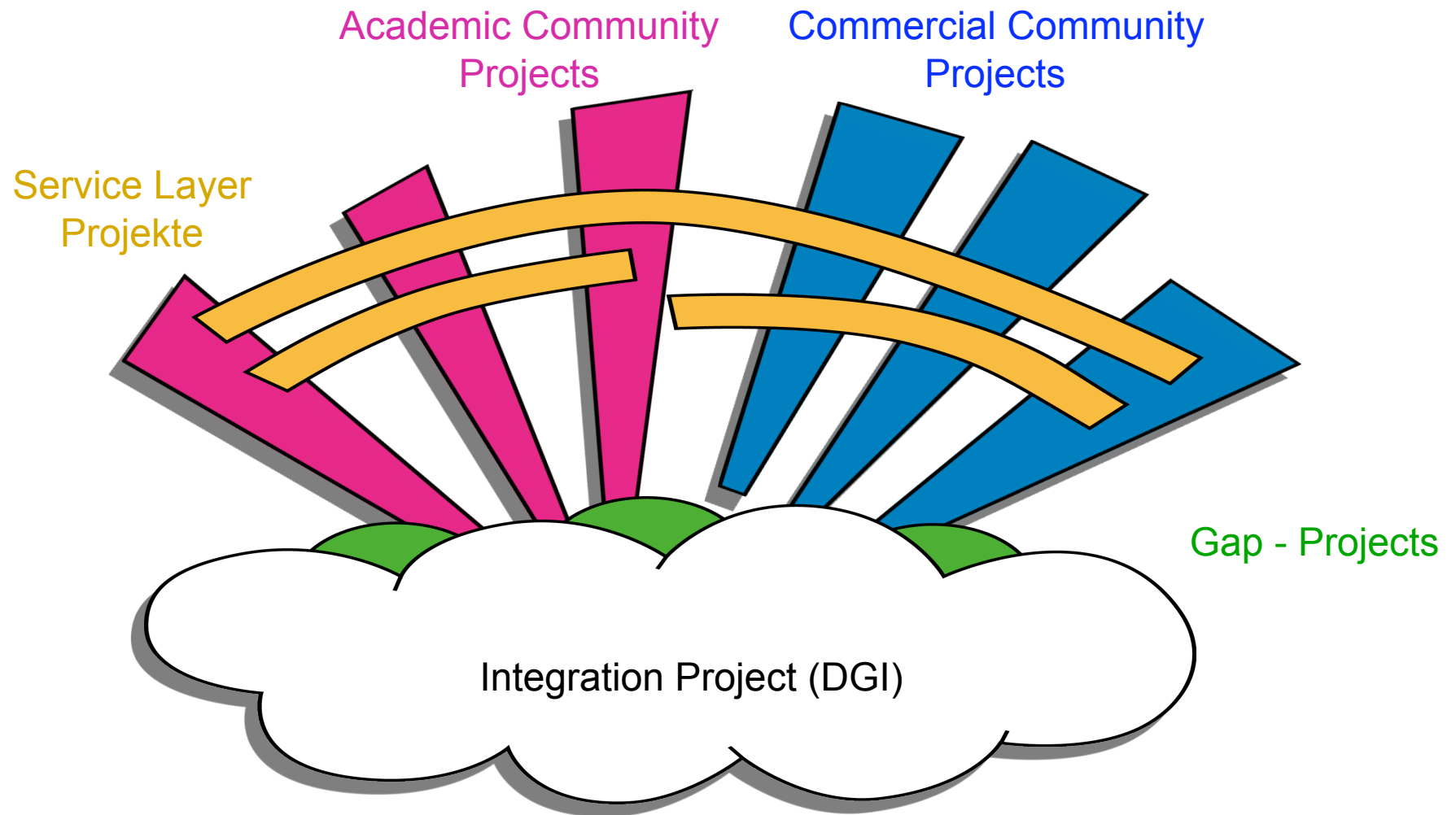
**WISDOM**



UNICORE

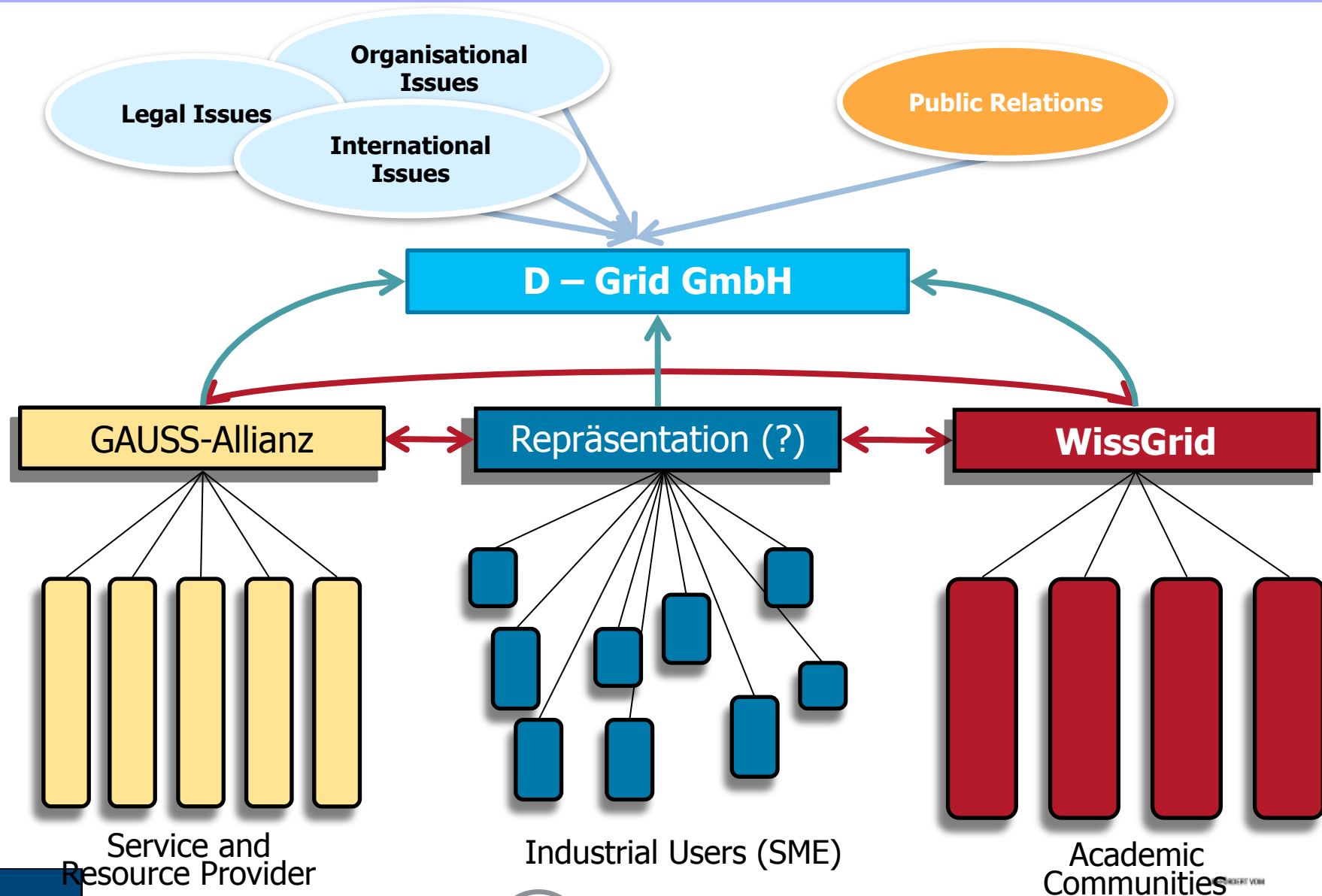


# D-Grid Project Structure



All projects are funded by the German Ministry of Research and Education

# D-Grid Organization - Concept



# Future Structure of German NGI within EGI

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D-NGI is formed by the *Gauss Allianz*

- *sees itself in the role of DGI*
- *will not provide own resources*
- *will provide support for generic middleware components*
- *will operate central grid services (VOMRS)*
- *User advisory board is planned but not concretized*



# Assumptions about Healthgrids

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- LS communities want to *use* infrastructure for research rather than do research on the infrastructure
- LS end-users are not computer-experts but domain researcher
- Publicly funded grids are always also testbeds for research on grids
- Publicly funded project on grid components always end up with „proof-of-concept“ prototypes (no funding for „release“ of components)

# Assumptions about Healthgrids

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- A lot of expert knowledge and support is required to make an application run reliably on the grid
- Many problems are similar in different projects
- There is few information about all the existing HG/LS projects
- Most successful HG/LS grid applications are still mainly compute-intensive applications, many resources used by few users
- Many applications and data could be of interest for other researchers
- Like the grid components, the HG/LS grid applications are not „ready-to-use“.

# Do we need a European structure for grid-related Health and LS communities ?

## Need for an international Healthgrid structure

- Share and exchange knowledge and expertise
- Define domain specific requirements
- Develop and interconnect reliable domain specific components
- Reach the critical mass for a lively user community

## Need for a European structure

- Strong user representation within EGI
- Common strategies how to make EGI usable for HG/LS applications





# What would be its role ?

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## Community level

- Provide collaborative tools for the community
- Collect and provide information about research activities
- Serve as a contact point for interested users

## Organizational level

- Represent HG/LS community within EGI
- Lobbying for HG/LS requirements (in particular: funding for closing current gap between proof-of-concept components and functioning IT research infrastructure)

## Technical level

Provide a common VO

Negotiate with resource providers or act as an agent for negotiation



# Who would be the targeted user communities ?

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Grids are not limited to specific applications or biomedical field, nor are the current HG/LS projects

## Development and Utilization of

- Image/Biosignal analysis
- Genetics
- Data mining
- Simulation of biomedical systems
- ....



# What would be the supporting infrastructures ?

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Such a structure should be

- strongly user-driven
- not dependent on specific temporarily funded projects
- Light-weight basic infrastructure
- Financial aspects/sustainability
  - Longterm-sponsors
  - Public funding via current projects
  - Personal/institutional membership

# How would it be organized and how would it interact with the existing initiatives ?

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## *HealthGrid* would be a good basis

- already set up, existing infrastructure
- Many Healthgrid actors are already organized
- Objectives overlapping strongly with objectives presented here
- A European subsection could take over specific tasks related to EGI:
  - Technical issues: VO management, negotiation or negotiation support.

