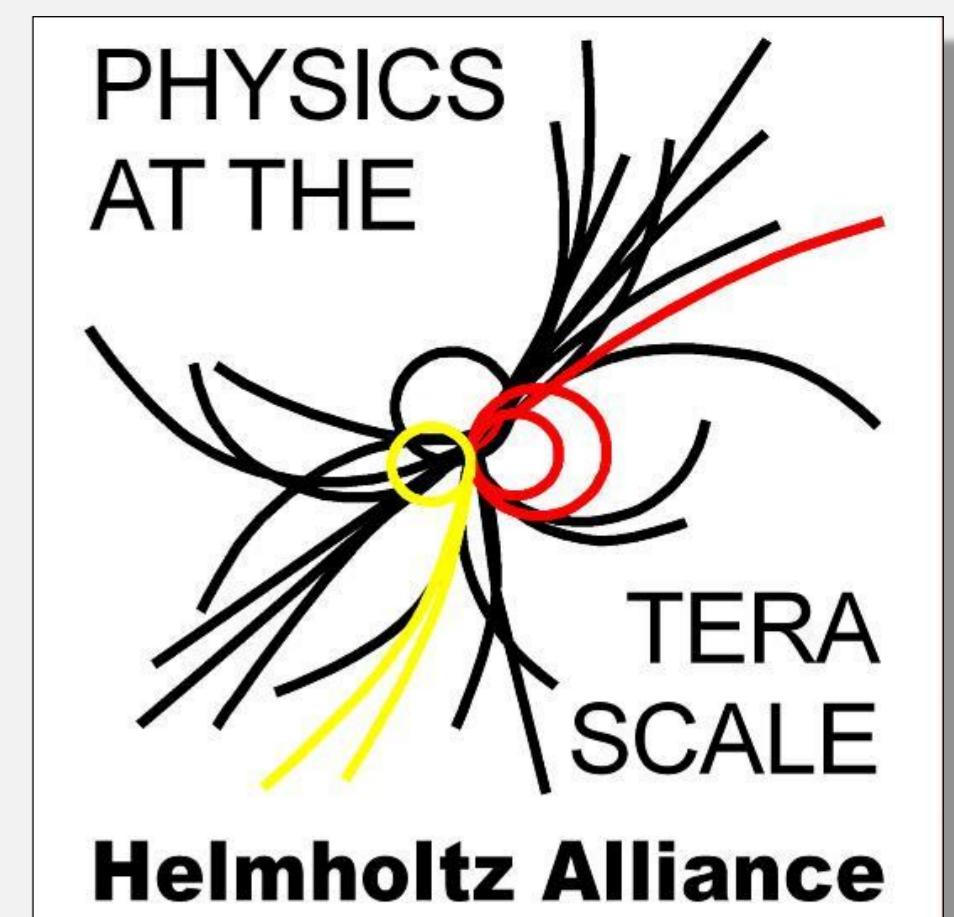


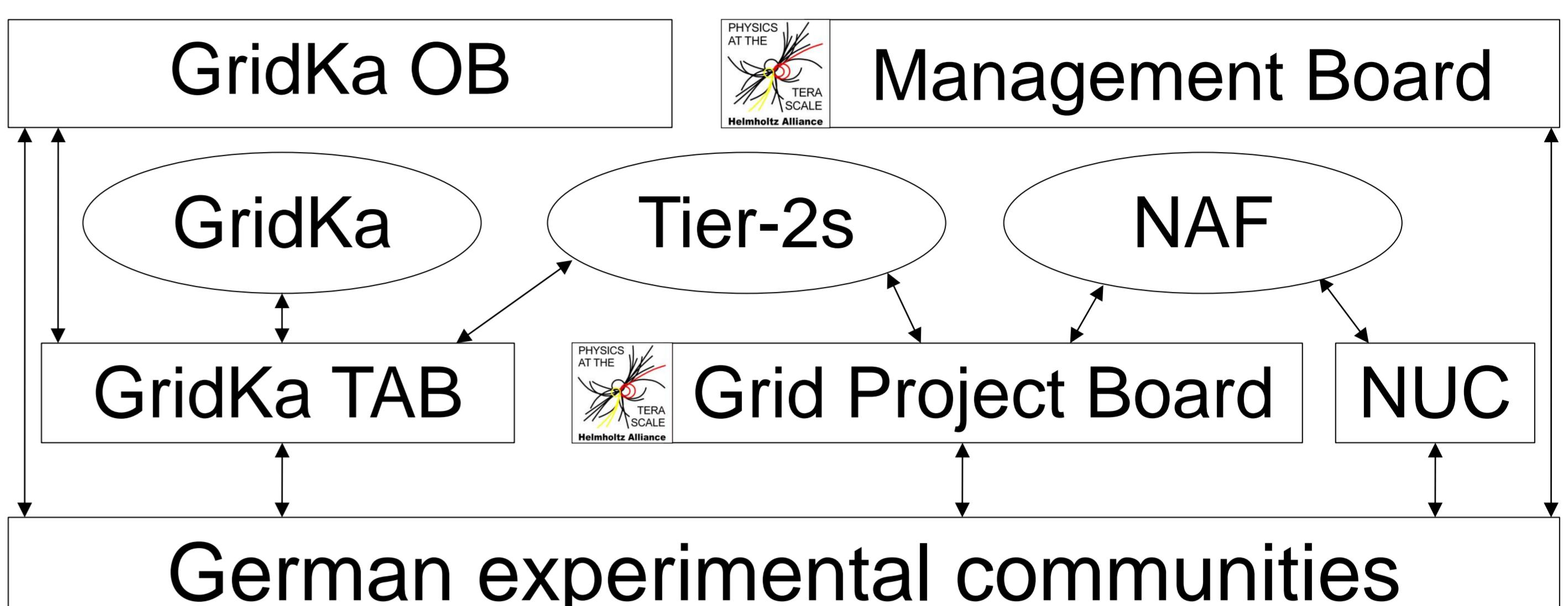
# Grid Computing in the HGF Alliance



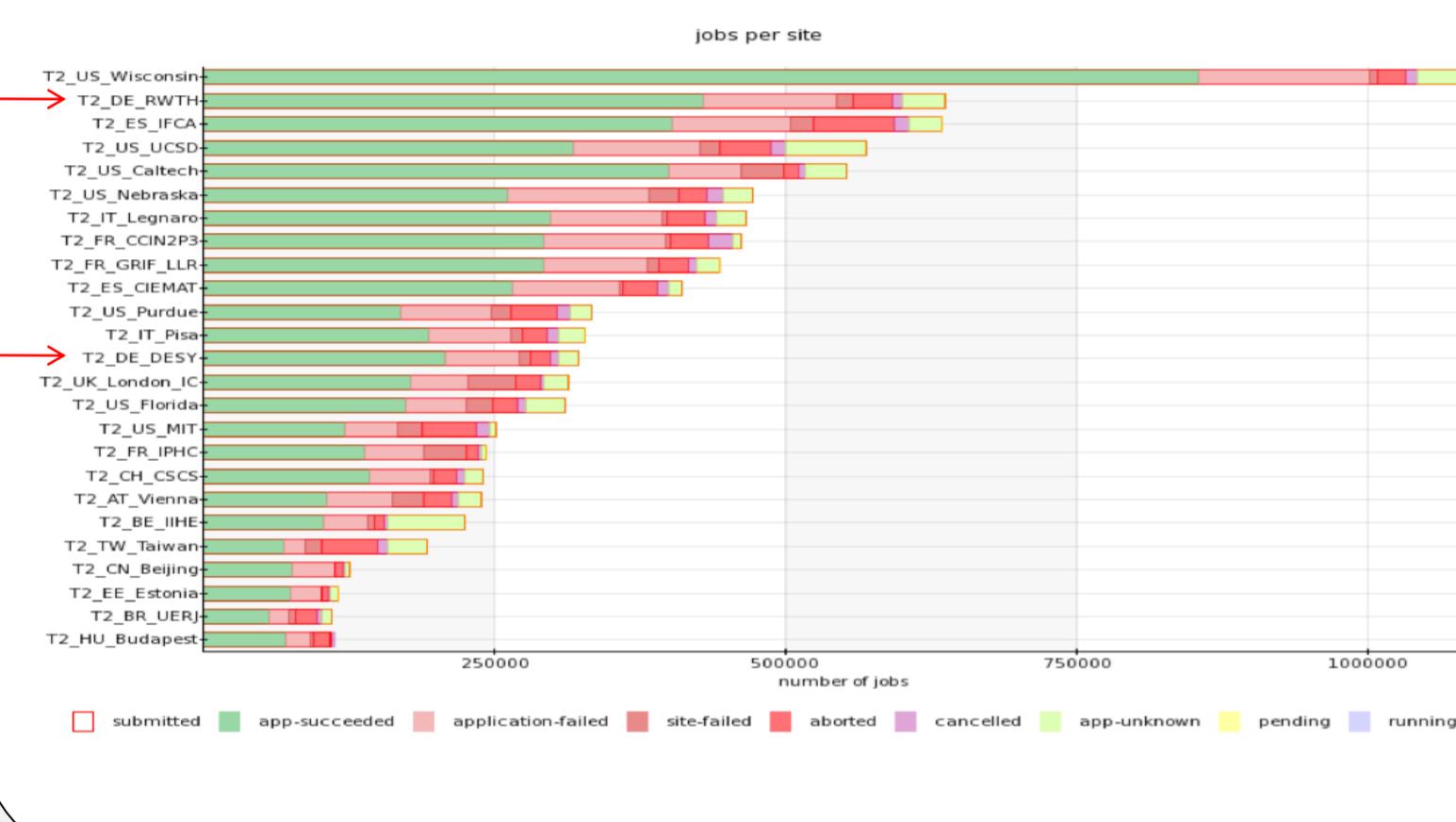
## Original Scientific Goals and Work Packages

<b>Improved Grid</b>	<b>Virtual Computing Center</b>
• Virtualization	• Computing Resources Tier-2
• Application-driven Monitoring	• National Analysis Facility
• Development of NAF-Tools	• High Performance Network
<b>Data Storage + Retrieval</b>	• User Friendliness
• Mass storage	• Grid-based Mass Storage
• Data Access	
<b>R&amp;D on Grid tools:</b>	
• Virtualization of Resources	
• Application Driven Monitoring	
• Data Access Management	
<b>Grid Training</b>	

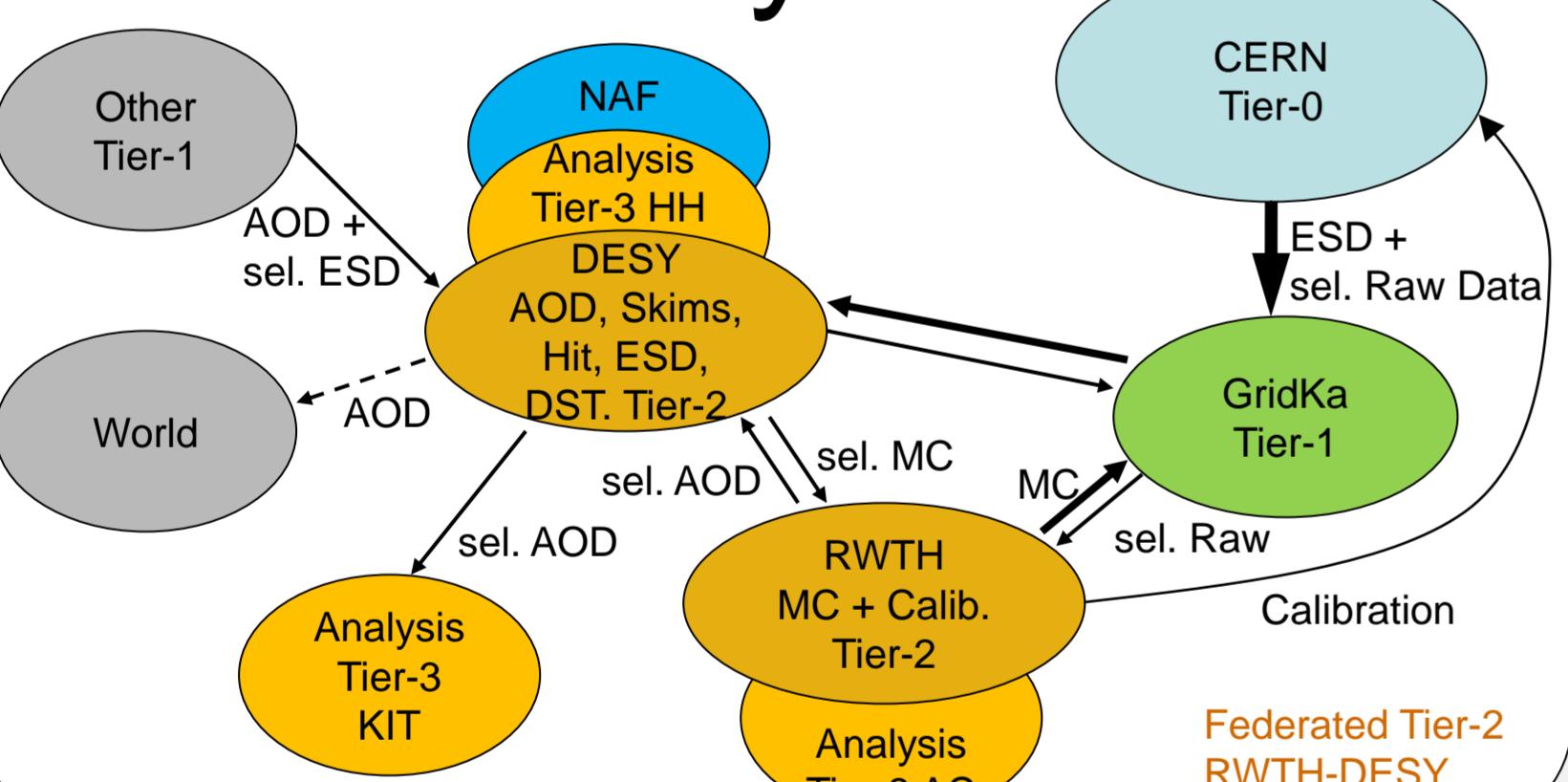
## Organizational Structure in Germany



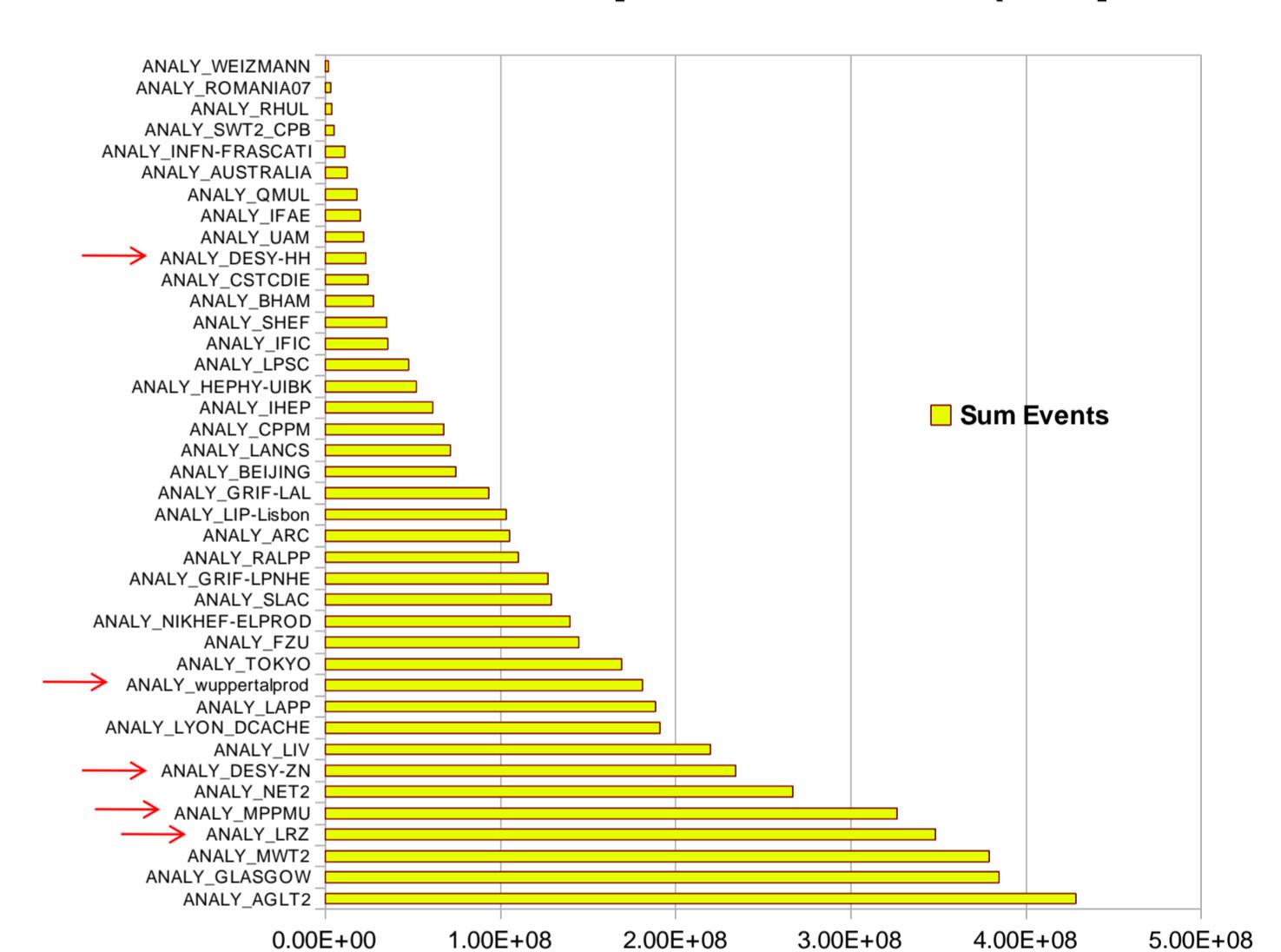
## CMS MC Tier-2 jobs (Jan – Oct 2009)



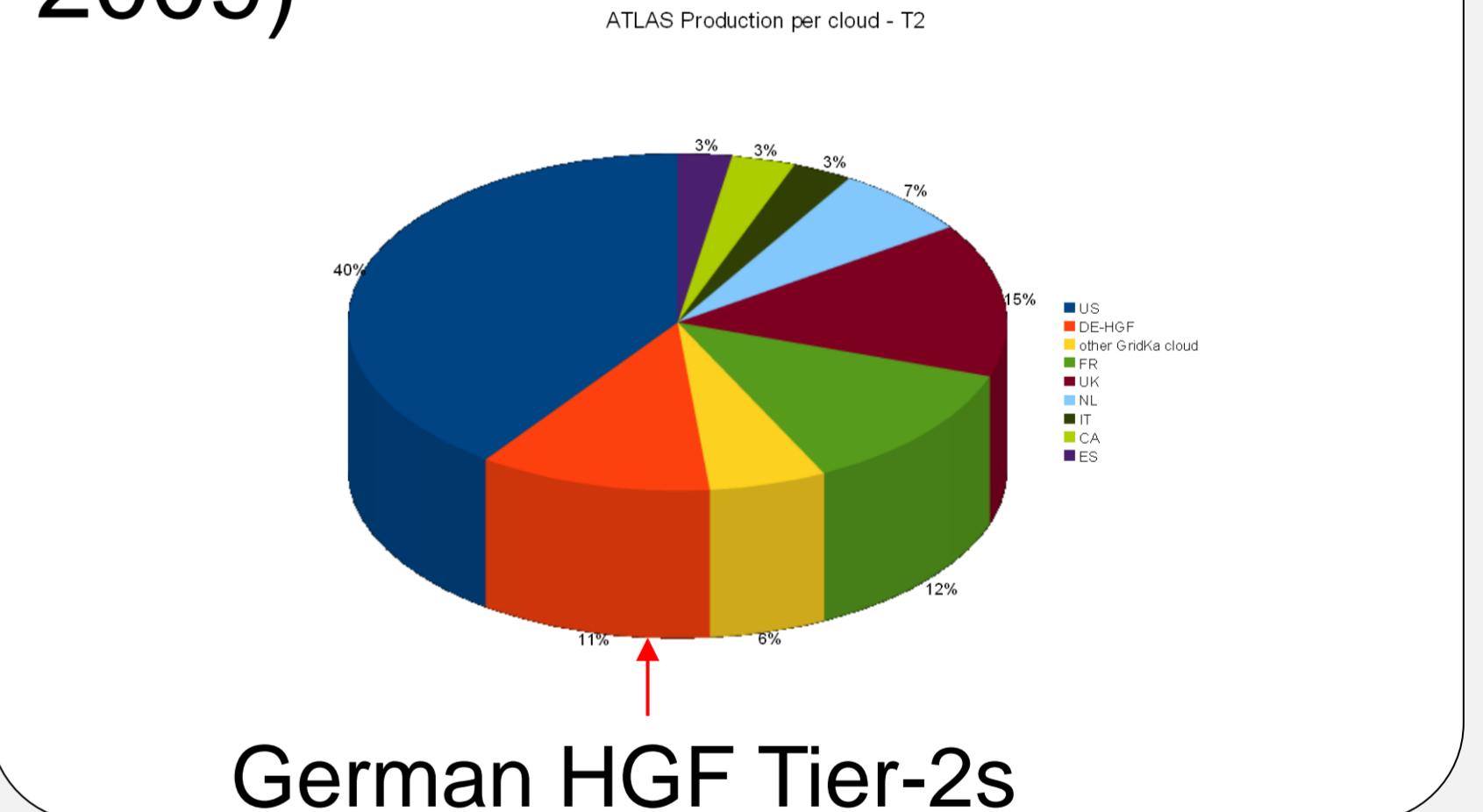
## CMS Tier-2 Structure in Germany



## ATLAS User Analysis Test Nov 2009 - Events per site (top 40)



## ATLAS Production (Jan-Nov 2009)



## Activities:

- Building Tier-2 Structure: Aachen, DESY, Freiburg, Göttingen, LMU, Wuppertal
- Experimental Support for NAF (*-> see poster*)
- High Performance Network: all institutes
- dCache: RWTH, LMU, DESY, KIT (*-> see poster*)
- Virtualization: DESY, KIT (*-> see poster*)
- Monitoring: Aachen, Göttingen, Hamburg, KIT, Wuppertal (*-> see poster*)

## Training, Talks and Schools

- Talks at conferences, e.g. CHEP 2009
- Annual Grid Computing School ‘GridKa School’ at KIT (incl. courses on NAF, virtualization and dCache)
- Advanced dCache trainings