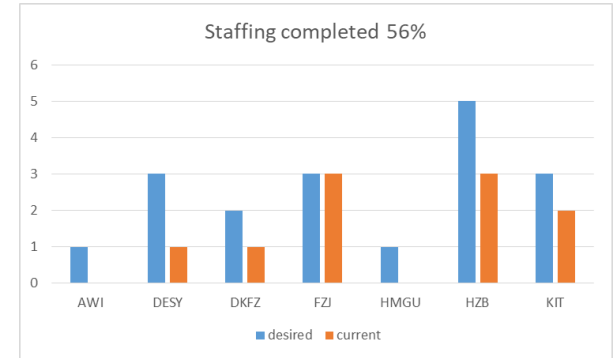




Cloud Services

- target 18 FTE from 7 centres
- Status now: 10 positions filled
- 56 % of the jobs are staffed.



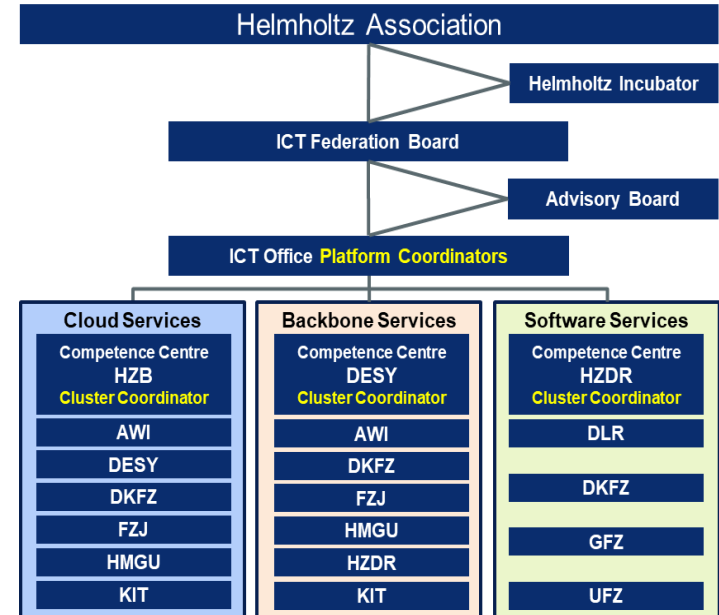
- team organizers:

- AWI: Jörg Matthes
- DESY: Patrick Fuhrmann
- DKFZ: Marc Hemberger
- FZJ: Daniel Mallmann
- HZB: Ingo Heinzl
- KIT: Klaus Scheibenberger

- team member known so far:

- FZJ: André Giesler,  
Franz Bläsen,  
Sander Apweiler,  
Tim Kreuzer
- HZB: Andreas Klotz,  
Annette Spicker,  
Laura Schollmaier
- KIT: Claudius Laumanns,  
Matthias Knoll

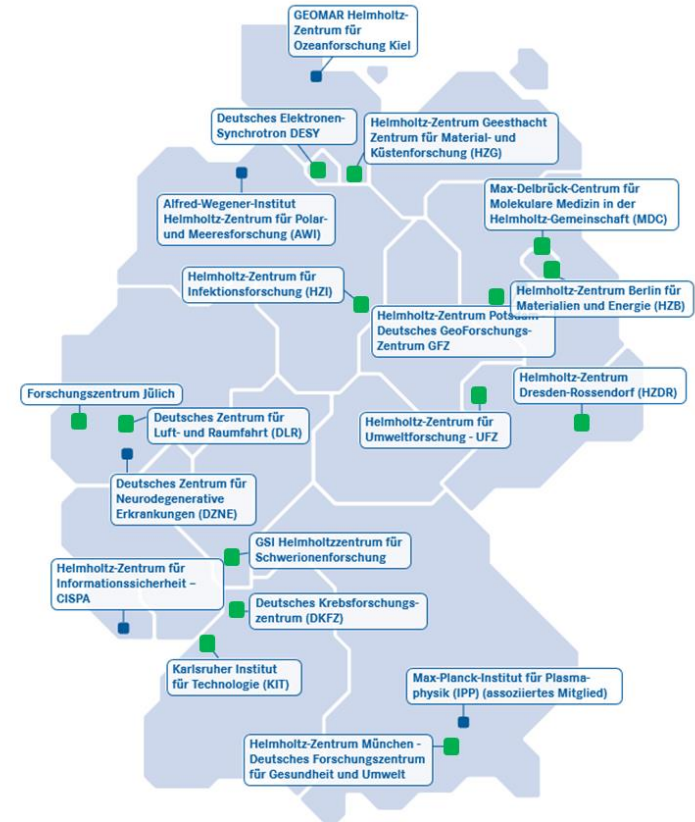
- Kick off - Workshop of all HIFIS Centres (January)
- Setting up of
  - competence teams
  - communication structures
  - governance structures
- Workshop on common approach for access to Helmholtz Cloud resources at KIT (April)
- AAI in collaboration with Backbone started in April
- Phone conferences of the Cloud Service Centres every two weeks (since June)
- HIFIS Communication platform was set up in June: [nubes.Helmholtz-Berlin.de](http://nubes.Helmholtz-Berlin.de)
- Cloud-Portal Technology activities started with a meeting with EGI on their Marketplace in August
- Start of the survey of offers and needs in all Helmholtz Centres (June)



- As announced in the proposal, we travel to each centre to record needs and offers.
- First service ideas have been taken from the proposal to fill a spreadsheet which served as a basis for the survey.
- The workshops in the centres are divided into two parts (about 2 hours each)
  - In the first part, we discuss with the representatives of the IT departments in order to identify possible offers and known requirements.
  - In the second part, we talk to representatives from the scientific community to find out what cloud services are already in use and where future needs are seen.
- We currently capture every service idea, regardless of any rating or relevance to others.

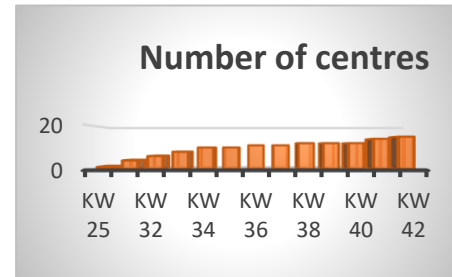
# Survey Journey - Statistics

- The tour started at the end of June at the UFZ in Leipzig.
- Yesterday we visited the **15th** centre with the Helmholtz Zentrum Geesthacht.
- still open: AWI, CISPA, DZNE, Geomar
- So far, we have spoken with a total of **85** IT representatives and
- **97** people from the scientific community took part in the workshops.
- We have already seen all research areas in the HGF
- Completion is planned until the end of 2019.



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- So far, we have found an outstanding interest in infrastructure services and better collaboration services.
- Of particular interest are high-quality combined services composed of various services or building blocks (scientific data, Algorithms (e.g. Software, Jupyter notebooks), execution infrastructure (e.g. hpc, htc, gpu))
- The state of provision and usage of cloud services varies greatly in the centres, so there are many institutes that will benefit from offered services.
- pain points of the scientists are e.g.
  - easily usable compute & storage resources (OpenStack, Docker, ...)
  - sync & share solutions involving external parties
  - solutions for collaborative document processing



# Survey – Counts

At the moment a total of  
**57 Services** in 4 Servicegroups and  
**99 particular Services**  
 are in the survey.

- **98** Service offerings
- **301** Service requests

Proposal based Services Overview					
Service Group	Datum	Initiator	Anzahl Provider	Anzahl User	Comment
Cloud Instance e.g.					
<b>Infrastructure Services</b>					
On demand storage					
On demand compute	Storage (HDF)	Proposal	2,00	9,00	
Analytic machines	OpenStack	Proposal	3,00	11,00	
GPU compute Service	OpenStack/Storage/HAF (e.g. HeAT Library)	Proposal	3,00	6,00	
Virtual Desktop Infrastructure	GPU Cluster	Proposal	5,00	10,00	
Backup/Archive Redundancy Service		UFZ	2,00	3,00	
Large Data Transfer Service	NetBackup	UFZ	5,00	7,00	
<b>Community Services</b>					
Software Development Services	z.B. Globus Toolkit	DESY	2,00	6,00	
Helmholtz Metadata Service Reference Data Sets	GitLab, GitLab-CI		3,00	8,00	
Software Catalog System		Proposal	0,00	5,00	
Sample Management		Proposal	0,00	4,00	
Elektronisches Laborbuch (LIMS)	IGSN Service	FZJ	2,00	3,00	
Online Survey Service	OpenBIS	GFZ	5,00	6,00	
<b>Science Services</b>					
R-Studio, R-Shiny, R-Project	LimeSurvey	HZB	2,00	6,00	
Data Repository mit DOI Service		FZJ	1,00	6,00	
JupyterHub Service	Rodare	UFZ	1,00	6,00	
<b>Collaboration Services</b>					
Sync & Share plus Cloud Office		HZDR	2,00	4,00	
Cloud Latex Writing/Citing		Proposal	3,00	7,00	
Event Management	Nextcloud mit OnlyOffice				
Discussion Channel	ShareLaTex				
Project Management	Indico	Proposal	4,00	10,00	
Ticketing Tool	Mattermost	Proposal	3,00	7,00	
Mailinglisten Tool	Redmine	Proposal	1,00	8,00	
Projekt Webseiten	Request Tracker	UFZ	4,00	9,00	
Prozessmanagement/ Workflow Engine / Web-Templates	Sympa	HGF-GS	4,00	8,00	
Proposal - System		HZDR	6,00	6,00	
e-Learning / Instruction	Gate	HZDR	3,00	6,00	
Tele-Webconferencing worldwide without registration	ILIAS	HZI	0,00	3,00	
Literature Management	Zoom	HZB	0,00	4,00	
	Zotero	HZB	2,00	3,00	
		DESY	1,00	4,00	
		FZJ	1,00	4,00	
			3,00	4,00	

- Top 3 Infrastructure Services

- On demand compute (14)
- GPU compute Service (13)
- On demand storage (12)

- Top 3 Community/Scientific Services

- Software Development Services (14)
- JupyterHub Services (9)
- R-Studio, R-Shiny, R-Project (8)

- Top 3 Collaboration Services

- Sync & Share incl. Cloud Office (12)
- Discussion Channel (12)
- Project Management (11)



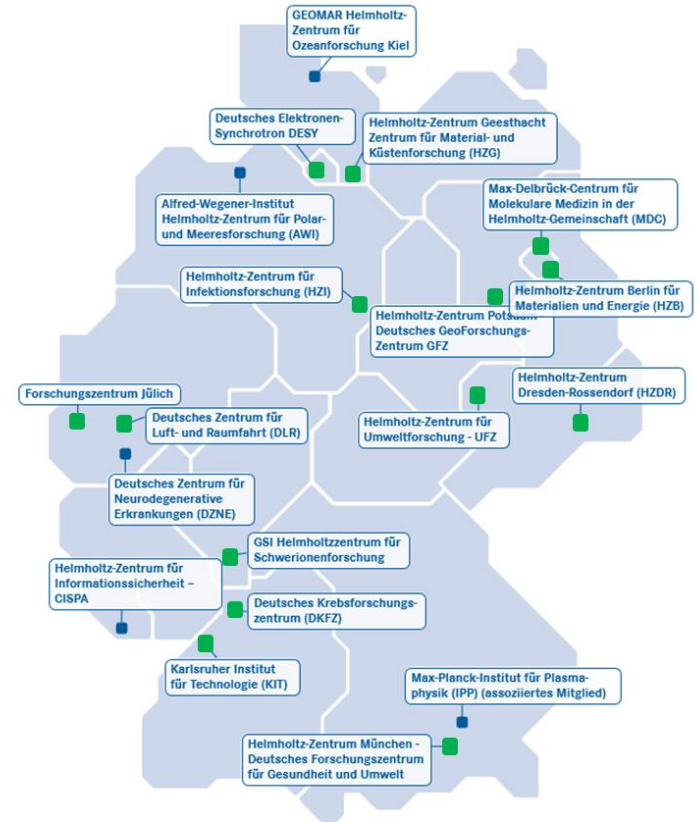
- Complete the survey, revise it and send it to the centers again for a vote
- Evaluation and prioritisation
- Complete a service canvas with the potential service provider
- Providing Cloud platform implementation timeline
  - First common AAI
  - Agreement on the depth of integration
  - Implementation prototype
- HIFIS Cloud Governance structure
  - HGF Governance Framework for Cloud provider (by HGF management)
  - Agreement on compensation of additional external cost

# Survey Journey – Special Thanks to

- my congenial travel companion

## Uwe Konrad (HZDR)

- the **UFZ**, which agreed to be the first center where we could verify our procedure
- all the centres visited** for their helpful organisation, warm welcome and productive cooperation.



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Thank you

Questions?

**HZB** Helmholtz  
Zentrum Berlin

**Ants Finke**

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