

Gegenstand und Ziele des kick off

- Gemeinsamer Start der HIFIS Plattform
- Weitere Detaillierung der Planungen
- Operationalisierung und Abstimmung der Arbeiten

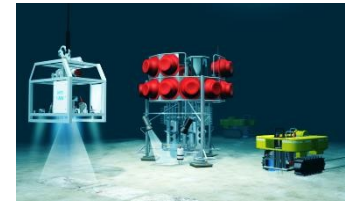
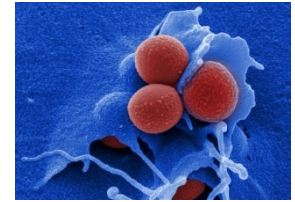
29. Januar 2019	
14:00	Begrüßung, Inhalte und Ziele des kick-off
14:15	Einführung HIFIS Mission, Organisatorisches
15:15	Beiträge der Plattformpartner (Teil 1)
16:15	Pause
16:35	Beiträge der Plattformpartner (Teil 2)
17:35	Status HDF
Gemeinsames Abendessen	
30. Januar 2019	
09:00	Arbeiten der Competence Cluster: Parallelsessions
11:00	Pause
11:20	Plenary Berichte der Sessions
12:20	HIFIS-Kontext - Kontext der HIFIS-Plattform
12:45	Next steps (Plattformebene), Wrap up

Einführung HIFIS Mission, Organisatorisches

HIFIS - Helmholtz Infrastructure for Federated ICT Services

Starting position

- Top position of Helmholtz research relies increasingly on cross-centre collaboration and international cooperation
- Growing importance of cloud access to common data treasure and -services
- Rapidly growing data exchange from research instruments requires excellent data networking
- Recognise the significance of a sustainable software development for the research process



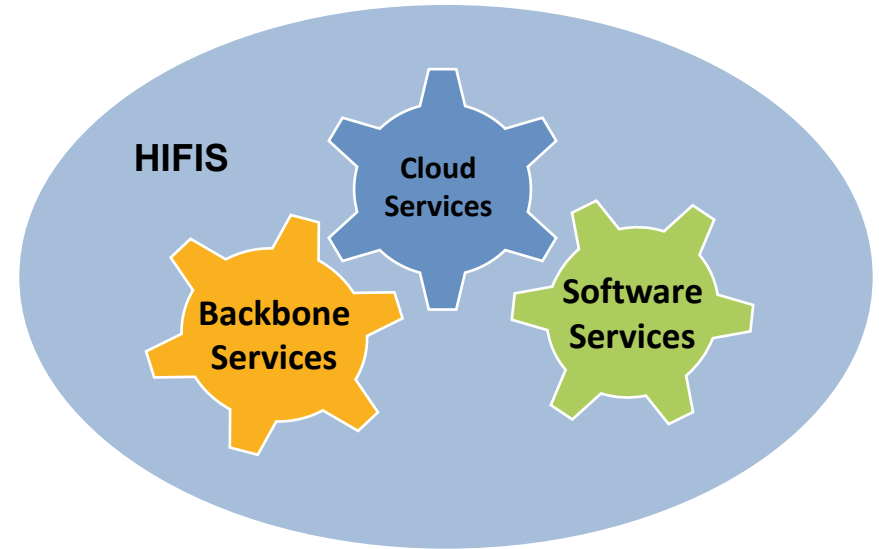
- Excellent information environment for outstanding research in all Helmholtz research fields
- Top level information services for getting the „best brains“ to the Helmholtz Centres
- Seamless and performant information environment connecting knowledge from all centres
- Secure and easy-to-use collaborative environment
- Efficiently accessible ICT services from everywhere
- Research software with a high level of quality, visibility and sustainability



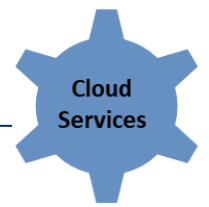
HIFIS - Approach

HIFIS: Services enabling networking

- **Cloud Services**
federated platform for proven first class cloud services
- **Backbone Services**
high-performance trusted network infrastructure with unified basic services (e.g. authentication)
- **Software Services**
platform, training and support for high-quality, sustainable software development

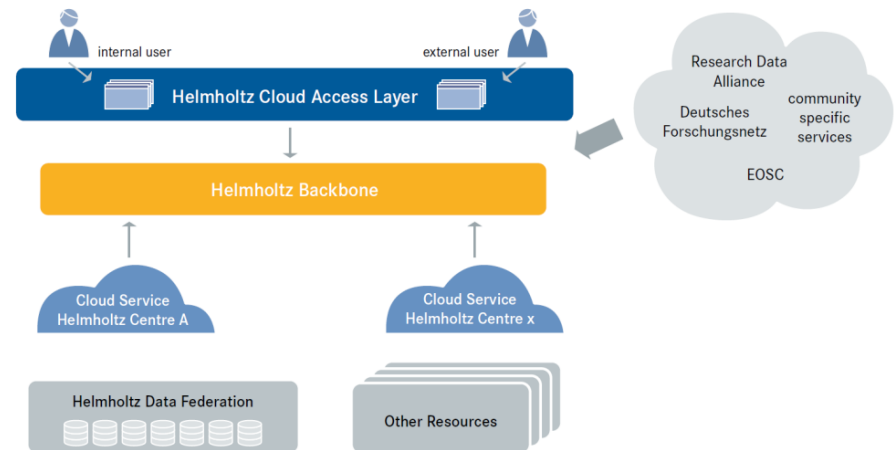


HIFIS: WP 1 Helmholtz Cloud Services



Task: Development of a federated Cloud Infrastructure

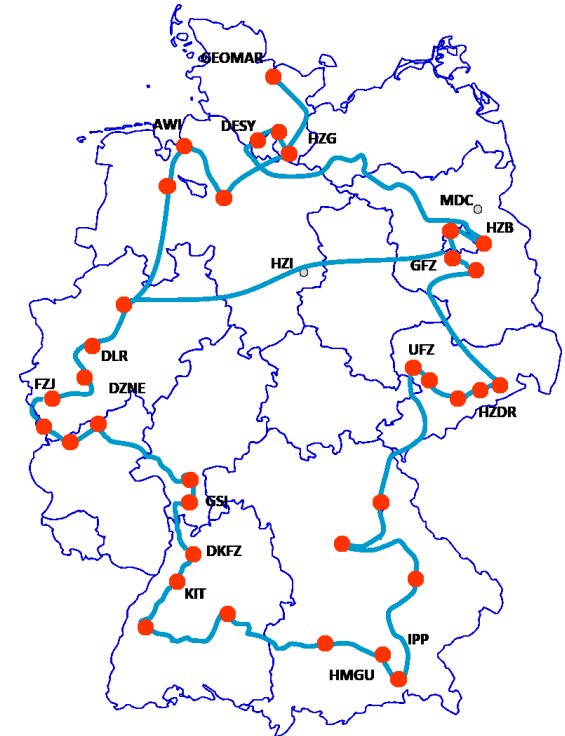
- **Infrastructure as a Service**
 - On demand Cloud Storage
 - Cloud Computing
- **Scientific Services**
 - Analysis Pipelines,
 - Data and Software Repositories,
 - Experiment Frameworks,
 - Simulation & Visualisation
- **Collaborative Services**
 - Sync&Share and *Cloud Office*,
 - Persistent chat tools



HIFIS: WP 2 Helmholtz Backbone Services

Task: Provision of a common high bandwidth network

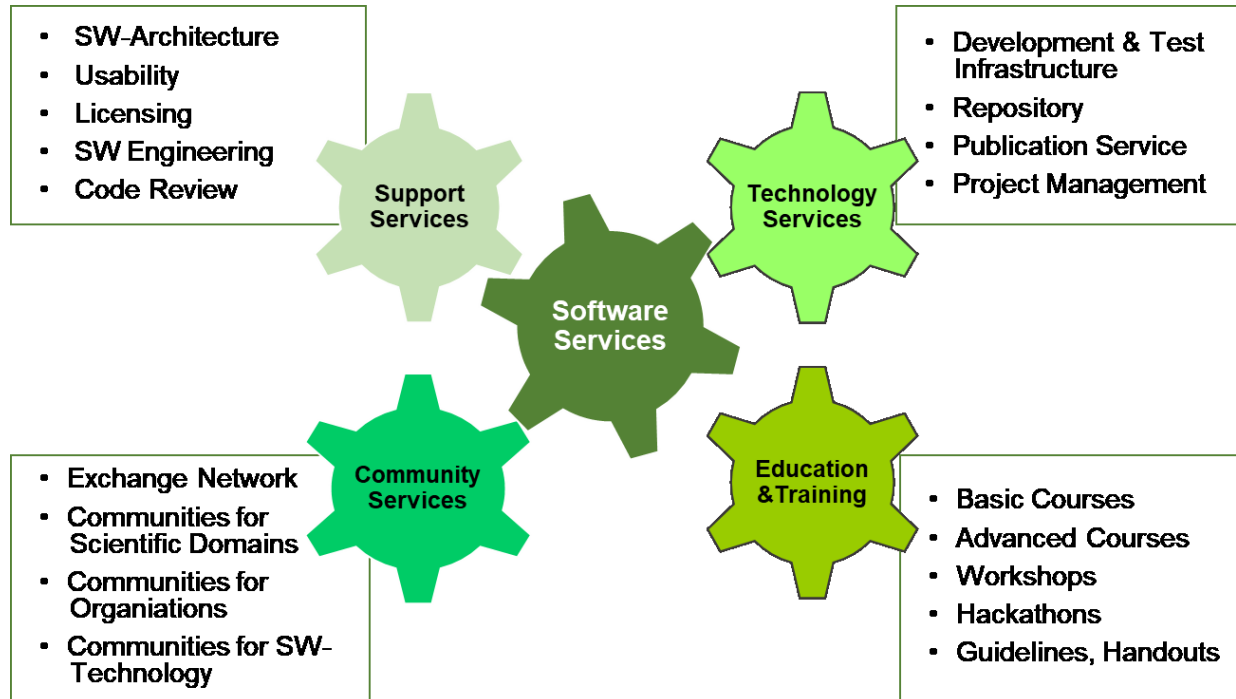
- **Physical Layer**
 - Helmholtz Virtual Private Network backbone interfacing local resources with 10 Gb/s → 40 Gb/s → 100Gb/s, Quality-of-Service
- **Services**
 - Trust and secure relationship
 - Common Authentication and Authorisation Infrastructure (AAI)
 - National and international compatibility
 - Backup and file transfer services
 - Operational Services



HIFIS: WP 3 Helmholtz Software Services



Task: Establish and support a professional software development



HIFIS: Complementing HDF

HIFIS

- Asked for personnel
- Servicing all Helmholtz Communities and Centres
- Utilise HDF and other resource providers

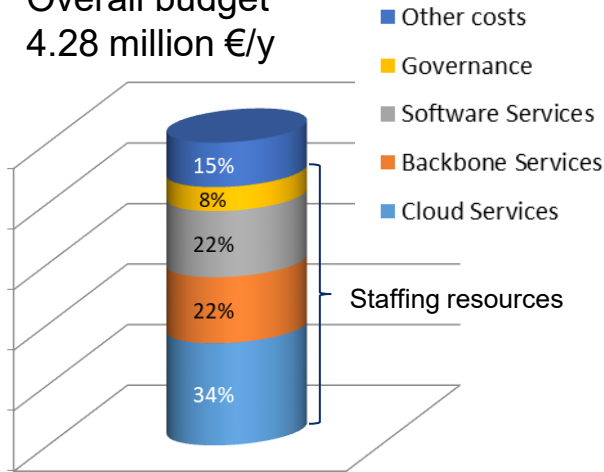
HDF

- Helmholtz investment into storage and analysis hardware
- Focus on large research projects
- Deploy specific services

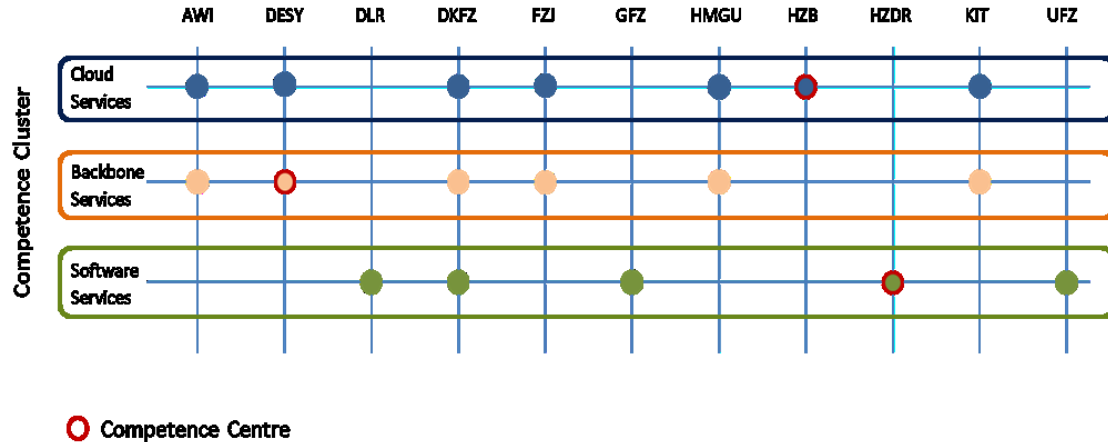
HIFIS: Finance & Structure

Federated approach on a broad basis

Overall budget
4.28 million €/y



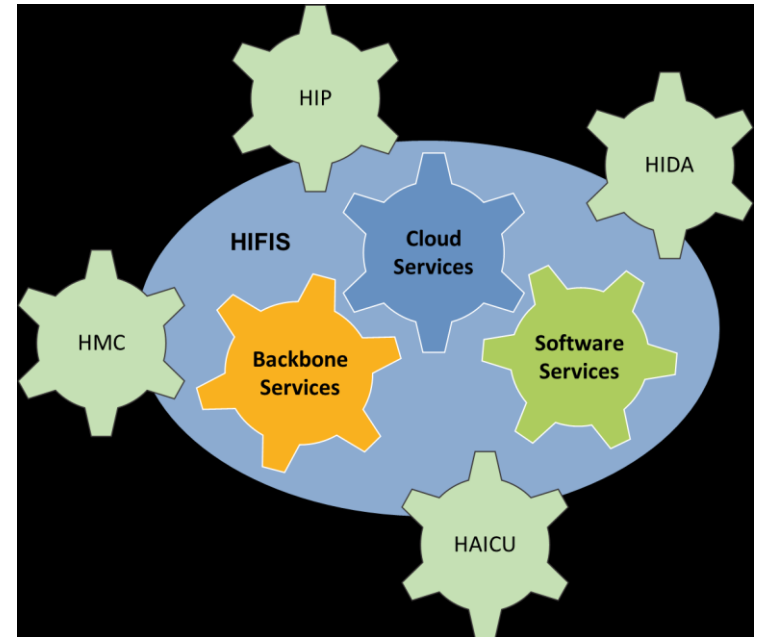
Note rounding differences

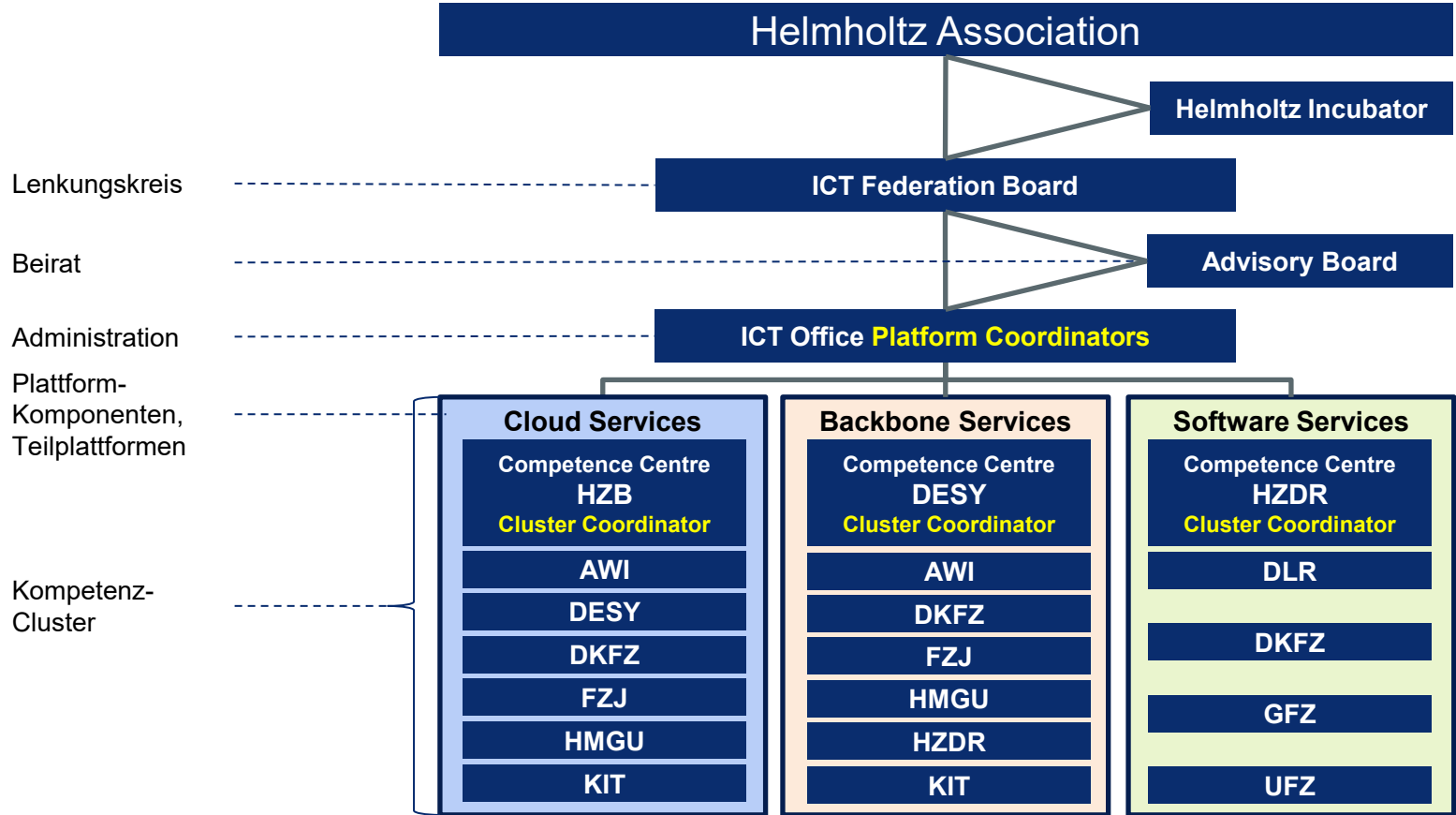


HIFIS: Summary

Helmholtz Infrastructure for Federated ICT Services ...

- will provide an adequate information environment for outstanding Helmholtz research
- will ensure a seamless access for researchers to Helmholtz data treasure and -services
- will establish an effective and secure Helmholtz federated ICT environment
- will enable Helmholtz software development to evolve to a new quality level
- will support the other incubator platforms and position Helmholtz as service provider for the digital research in Germany and Europe





Helmholtz ICT Federation Board

Prof. Dr. Volker Gülzow	Desy, Research Field Matter
Dr. Uwe Konrad	HZDR
Ants Finke	HZB
Dr. Andreas Kosmider	Helmholtz Office
Representatives of other platforms and HDF (names will result from platform activities)	
n.n.	Research Field Energy
Prof. Dr. Corinna Schrum	HZG, Research Field Earth & Environment
Prof. Dr. Silvia Masciocchi	GSI, Research Field Matter
Dr. Dieter Beule	MDC, Research Field Health
Dr. Andreas Bremges	HZI, Research Field Health
Dr. Marco Nolden	DKFZ, Research Field Health
Rolf Hempel	DLR, Research Field Aeronautics, Space and Transport
Prof. Dr. Dr. Thomas Lippert	FZJ, Research Field Key Technologies
Prof. Dr. Kristel Michielsen	FZJ, Research Field Key Technologies

Beirat

S. 1 von 2

Prof. Dr. Volker Gülzow	Desy
Dr. Uwe Konrad	HZDR
Ants Finke	HZB
Dr. Andreas Kosmider	Helmholtz Office
Tiziana Ferrari	EGI
Davide Salomoni	INFN
Mark Heron	Diamond Light Source
Dr. Mirjam van Daalen	PSI
Frederic Hemmer	Cern
Pierre Etienne Macchi	IN2P3 CNRS
Prof. Dr. Isabel Campos Plasencia	CSIC
Andy Götz	ESRF
Dr. Rupert Lück	EMBL
Ari Asmi	University of Helsinki
Magchiel Bijsterbosch	SURF
Jörg Herrmann	MPG
Dr. Bruno Weikl	FhG

Beirat

S. 2 von 2

Prof. Dr. Michael Feindt	Blue Yonder
Prof. Dr. Wolfgang E. Nagel	TU Dresden
Dominik Bertram	SAP
Neil Chue Hong	Software Sustainability Institute
Dr. Christian Grimm	DFN
Robert Haas	IBM Research

Kommunikation

Außenkommunikation

Information über HIFIS und die Arbeiten

- Helmholtz-Zentren als Nutzer und ggf. weitere Nutzer
- Fachöffentlichkeit

- Website
 - Struktur, Funktionen, Inhalte definieren <https://hifis.net>
 - Gestaltung
- Logo 
- Langname Helmholtz
Infrastructure for
Federated ICT Services
- HIFIS Konferenz

Plattforminterne Kommunikation

- HIFIS-Zentren
 - (Helmholtz Gemeinschaft)
- → Governance
 - → Treffen, Berichte
 - Elektronischer Informationsaustausch
 - → Ansprechpartner



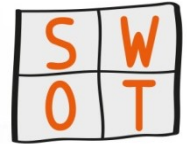
HIFIS Koordination
 Volker Gülzow, Uwe Konrad, Ants Finke
 Knut Sander, Tobias Frust

	Zentrumskontakt	Cloud Services HZB	Backbone Services DESY	Software Services HZDR
		Ants Finke	Volker Gülzow	Uwe Konrad
AWI	Christian Schäfer-Neth	Jörg Matthes	Benny Bräuer	
DESY	Volker Gülzow	Patrick Fuhrmann	Kars Ohrenberg	
DLR	Tobias Schlauch			Tobias Schlauch
DKFZ	Holger Haas	Marc Hemberger	Holger Haas	Ralf Floca
FZJ	Daniel Mallmann	Daniel Mallmann	Daniel Mallmann	
GFZ	Martin Hammitzsch			Martin Hammitzsch
HMGU	Wolfgang zu Castell	Aldin Cufurovic	Wolfgang zu Castell	
HZB	Ants Finke	Ants Finke		
HZDR	Uwe Konrad		Uwe Konrad	Tobias Frust
KIT	Martin Nussbaumer	Klaus Scheibenberger	Uli Weiss	
UFZ	Thomas Wieser			Thomas Schnicke

Institution	Berichte	Treffen	Video-/ Tel-Konf.
ICT Federation Board	1/a → Inkubator	mind. 1/a	
Beirat	Advice reports	mind. 1/a	
ICT Office & HIFIS Koordinatoren	ICT Office 1/a → ICT Fed. Board ICT Office → HGS	2/a	1/Monat
Competence Cluster	1/a → ICT Office	4/a	14-täglich
HIFIS Conference	Conference notes	1/a	
All hands meeting	Meeting notes	1/a	

Monitoring

- Arbeitsschritte, kritischer Input
- Meilensteine
- Deliverables
- Identifizierte Risiken
 - Detaillierung
 - Zuordnung



- Fachpersonal kann nicht gefunden bzw gebunden werden
- HIFIS-Services sind nicht verfügbar, bevor Zentren andere Dienste in Anspruch nehmen, in denen ihre Daten oder Prozesse „gefangen“ werden
- HIFIS-Services werden durch Nutzer nicht angenommen
- Fehlende Kompatibilität der Services zu europäischen bzw. globalen „Standards“
- User, die für HIFIS-Zentren relevant sind, nutzen „Standards“, die mit HIFIS-Services nicht kompatibel sind

Beiträge der Plattformpartner

- AWI

- DESY

- DLR

- DKFZ

- FZJ

- GFZ

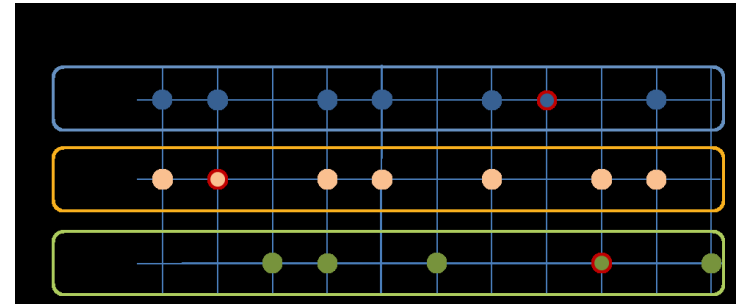
- HMGU

- HZB

- HZDR

- KIT

- UFZ



Arbeiten der Competence Cluster

Parallelsessions zur Operationalisierung der Arbeiten

09:00	Arbeiten der Competence Cluster: Parallelsessions je Competence Cluster
11:00	Pause
11:20	Plenary Berichte der Sessions

**Competence Centre
„Cloud“**

Raum „Kino“

**Competence Centre
„Backbone“**

Raum 0125

**Competence Centre
„Software“**

Raum 0324

- Arbeitsschritte
krit. Input
- Meilensteine
- Deliverables
- Risikomanagement

Kontext von HIFIS

- EOSC

Next steps, wrap up

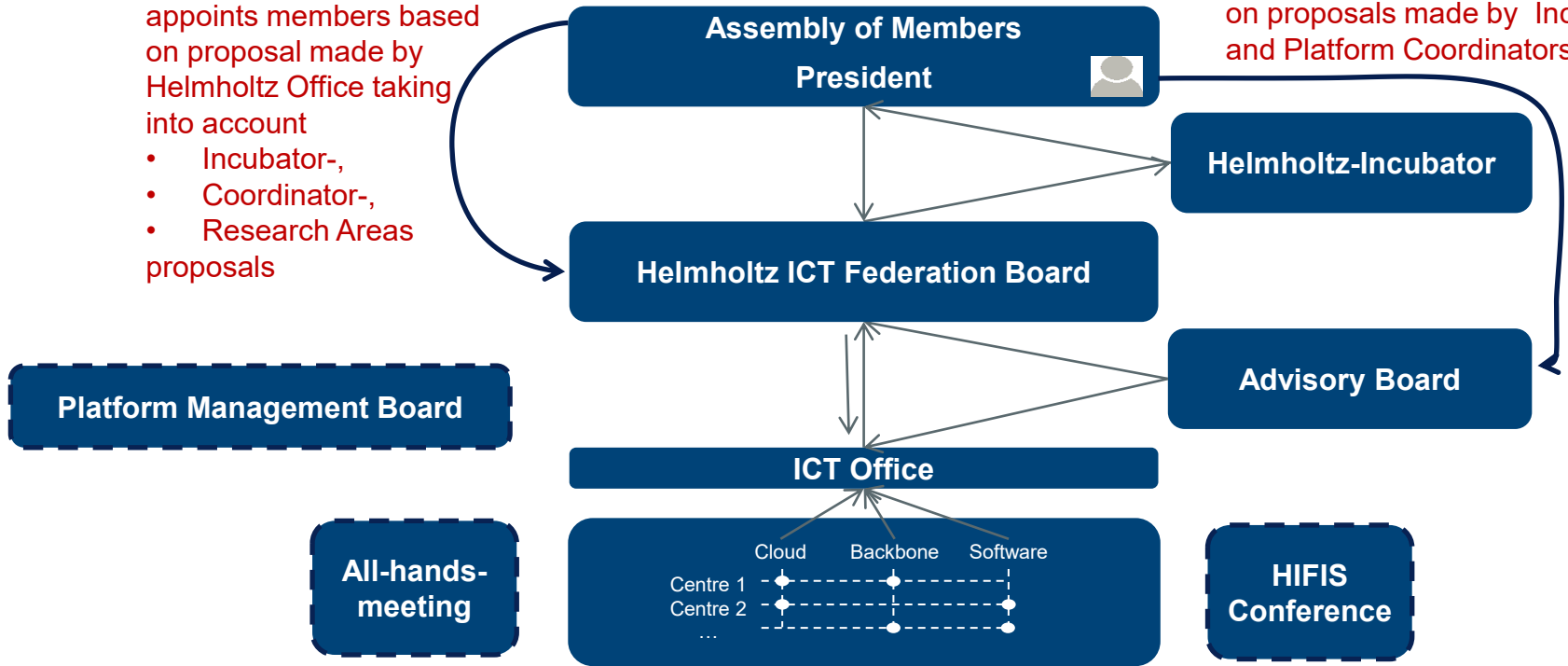
Backup

2019												2020			
Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	M:
29.01	◆	Kick off													
04.03	◆	Competence Cluster													
05.03	◆	ICT O & Cluster Koordinatoren													
29.04	◆	Cluster Coordinator --> ICT O													
03.06	◆	Competence Cluster													
13.06	◆	HIFIS Konferenz													
02.07	◆	ICT O--> ICT FB													
15.07	◆	ICT FB													
31.07	◆	ICT FB--> Inkubator													
10.09	◆	Competence Cluster													
11.09	◆	ICT O & Cluster Koordinatoren													
30.09	◆	Beirat													
31.10	◆	PMB													
18.11	◆	Competence Cluster													

Assembly of Members appoints members based on proposal made by Helmholtz Office taking into account

- Incubator-,
- Coordinator-,
- Research Areas proposals

President appoints members based on proposals made by Incubator and Platform Coordinators



Helmholtz ICT Federation Board

mit Stimmrecht

4 Plattform-Koordinatoren
1 HDF
6 Helmholtz-Forschungsbereiche

HIFIS-Koordination
Helmholtz Geschäftsstelle
Evtl. Gäste

ohne Stimmrecht

Beirat

mit Stimmrecht

2-3 Helmholtz Gemeinschaft
2-3 Externe Forschungseinrichtungen
2-3 Externe Wirtschaft

HIFIS-Koordination
Helmholtz Geschäftsstelle
Evtl. Gäste

ohne Stimmrecht

ICT Office

Volker Gülzow (Sprecher), Uwe Konrad, Ants Finke

Knut Sander, Tobias Frust