ErUM-Data Community: DIG-UM Annual Meeting 12.12.22
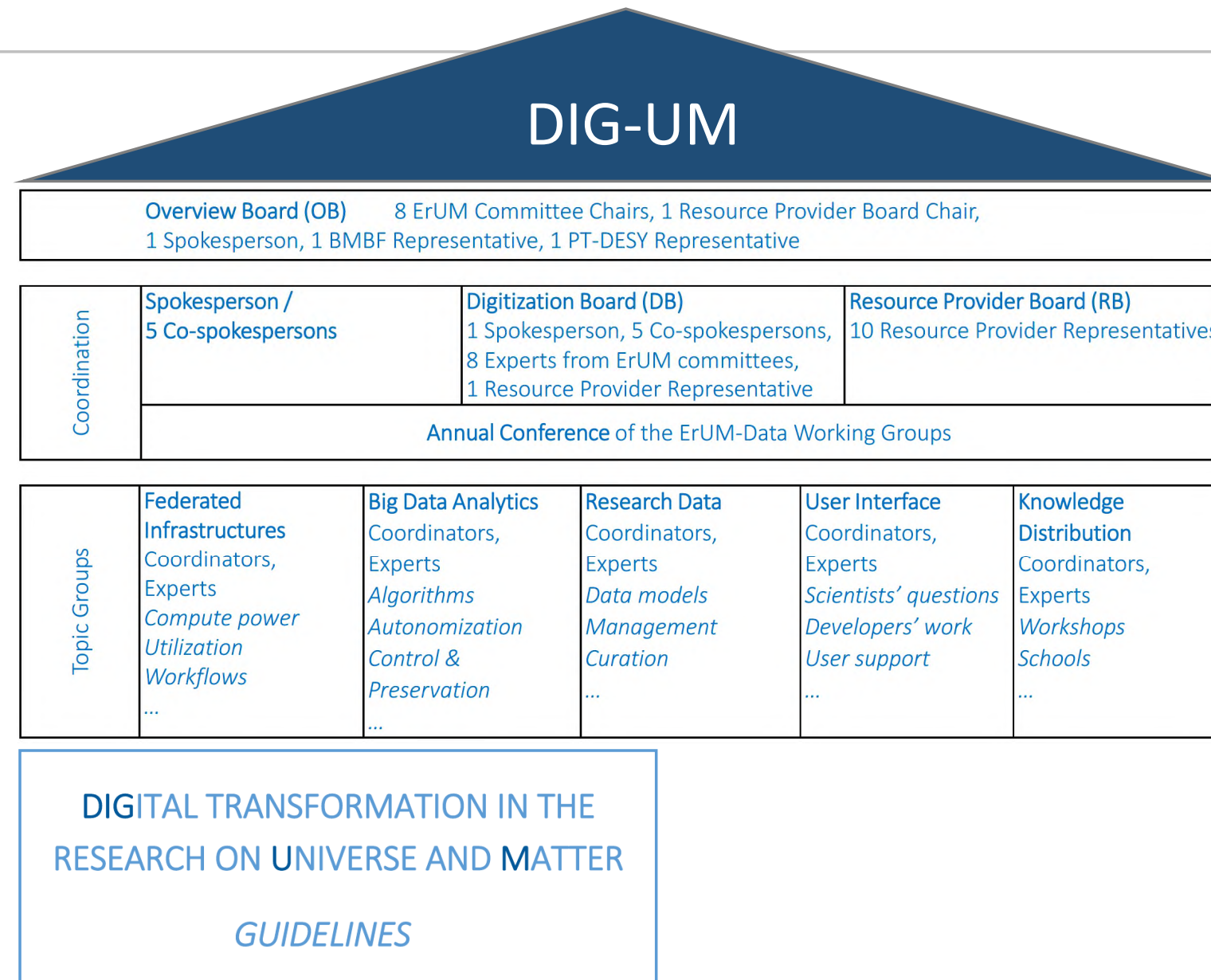
Strategic Decisions on Digital Transformation

17:00-18:00 Top View
Chair: Bridget Murphy

18:05-19:00 Topical Progress
Chair: Erik Bründermann

19:05-19:10 Two-years Mandate
Presented by Uli Katz

19:20-19:50 Overview Board

DIG-UM

| Overview Board (OB)	8 ErUM Committee Chairs, 1 Resource Provider Board Chair, 1 Spokesperson, 1 BMBF Representative, 1 PT-DESY Representative

Coordination

Spokesperson / 5 Co-spokespersons	Digitization Board (DB) 1 Spokesperson, 5 Co-spokespersons, 8 Experts from ErUM committees, 1 Resource Provider Representative	Resource Provider Board (RB) 10 Resource Provider Representatives

Annual Conference of the ErUM-Data Working Groups

Topic Groups

Federated Infrastructures	Big Data Analytics	Research Data	User Interface	Knowledge Distribution
Coordinators, Experts	Coordinators, Experts	Coordinators, Experts	Coordinators, Experts	Coordinators, Experts
Compute power Utilization Workflows ...	*Algorithms Autonomization Control & Preservation* ...	*Data models Management Curation* ...	*Scientists' questions Developers' work User support* ...	*Workshops Schools* ...

DIGITAL TRANSFORMATION IN THE RESEARCH ON UNIVERSE AND MATTER

GUIDELINES

Knowledge Agent

ERUM DATA HUB

www.erumdatahub.de

Bundesministerium für Bildung und Forschung

Digitization Board: ErUM-Committee Representatives & Topic Group Leads

By-weekly Thursday 8:30-9:30, minutes

https://wiki.erumdatahub.de/de/digitization-board
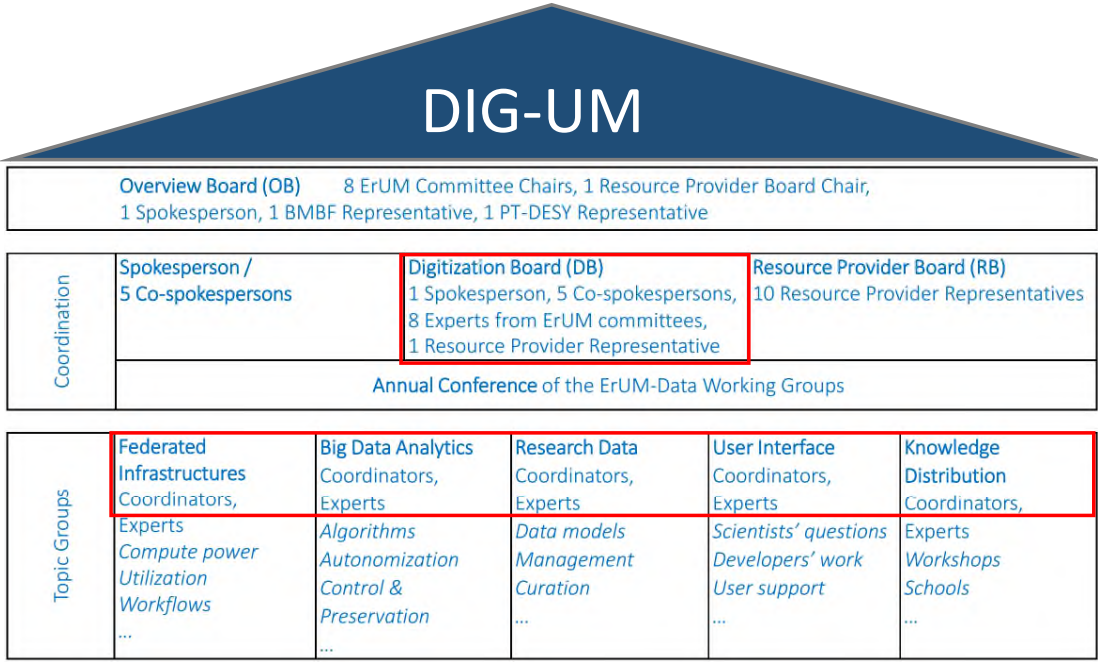
Committee		Representative	Deputy
Forschung mit Synchrotronstrahlung	KFS	Christian Gutt	Bridget Murphy
Rat Deutscher Sternwarten	RDS	Michael Kramer	Stefanie Walch-Gassner
Hadronen- und Kernphysik	KHuK	Jan Steinheimer	Tobias Stockmanns
Elementarteilchenphysik	KET	Günter Quast	Christian Zeitnitz
Forschung mit Neutronen	KFN	Susan Schorr	Tobias Richter
Astroteilchenphysik	KAT	Andreas Haungs	Gernot Maier
Beschleunigerphysik	KfB	Erik Bründermann	Oliver Boine-Frankenheim
Forschung mit nuklearen Sonden & Ionenstrahlen	KFSI	Patrick Reichart	Judith Reindl
Spokesperson		Martin Erdmann	
Topic Federated Infrastructure		Kilian Schwarz	Markus Demleitner
Topic Big Data Analytics		Gregor Kasieczka	Andrea Thorn
Topic Research Data Management		Astrid Schneidewind	Monica Valencia-Schneider
Topic User Interface		Pierre Schnizer	Tim Ruhe
Topic Knowledge Distribution		Dirk Lützenkirchen-Hecht	Katrin Link
Representative Resource Provider Board		Achim Streit	
ErUM-Data-Hub		Peter Fackeldey, Angela Warkentin	

Topic Groups & Digital Transformation
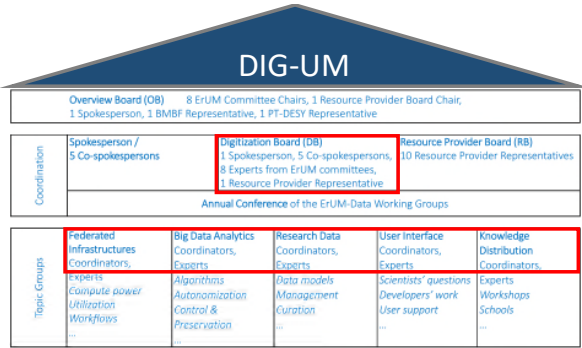
| Federated Infrastructure	Big Data Analytics	Research Data Management	User Interface	Knowledge Distribution
Community White Paper	Survey of Needs	ErUM-Data – NFDI - DMA White Paper	Preparing Workshop	Workshops & Schools

Federated Infrastructures in Research on Universe and Matter: State of Play

DIG-UM Topic Group Federated Infrastructures

October 17, 2022

Abstract

As a first output of the DIG-UM Topic Group on Federated Infrastructures, this document tries to provide a concise and necessarily subjective overview of the state of play of digital research infrastructures in the domains covered by DIG-UM's eight communities with a particular focus on Germany. Its main goal is to help the community members to understand the practices and technologies already established in the participating domains. It may also be useful to identify progress made as DIG-UM advances.
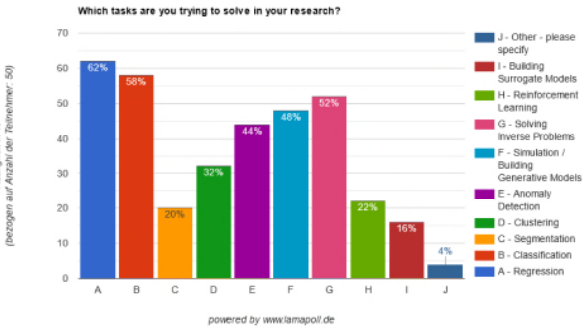
Summary of a Synergies Workshop between ErUM-Data, the NFDI Consortia DAPHNE4NFDI and PUNCH4NFDI, and Helmholtz DMA

Abstract

This short document describes the outcome of a workshop between representatives of ErUM-Data, the NFDI consortia DAPHNE4NFDI and PUNCH4NFDI, and Helmholtz DMA on synergies between the these initiatives and related endeavours. Arising conclusions are drawn, and next steps are sketched.

Next Generation Environment for Interoperable Data Analysis

- All tasks in digital transformation are highly interconnected.

- ErUM-Data funding calls address partial aspects.

- *Joint responsibility all topic groups: ensure all aspects adequately pushed forward*

  → enabling ErUM researchers to conduct even better research.

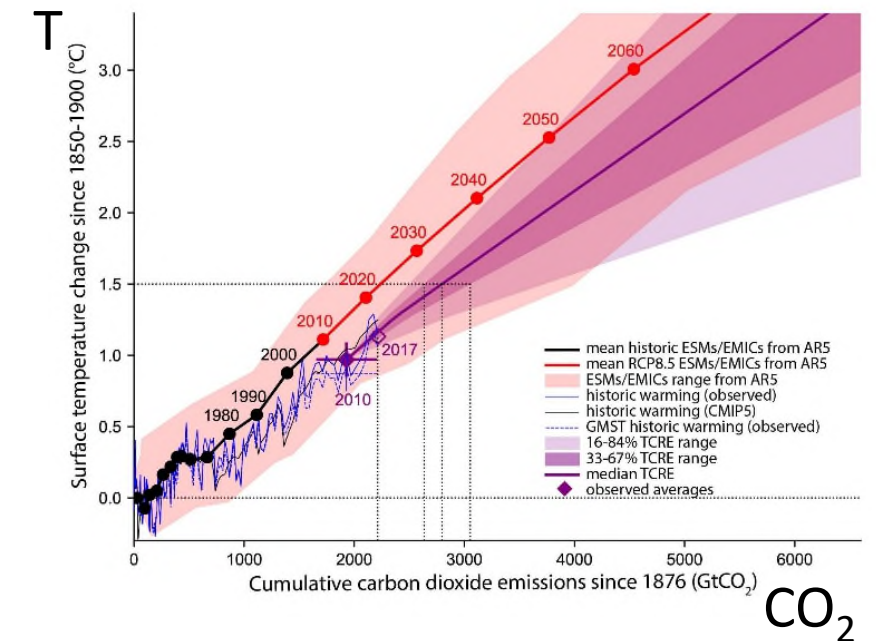# Workshop Sustainability in ErUM-Data

30.5.-2.6.23 in Meinerzhagen (NRW)

Sustainability will play a significant role in BMBF funding, needs to be considered when submitting applications.
Outline written perspectives on topics:
- Federated Infrastructures,
- Big Data Analytics,
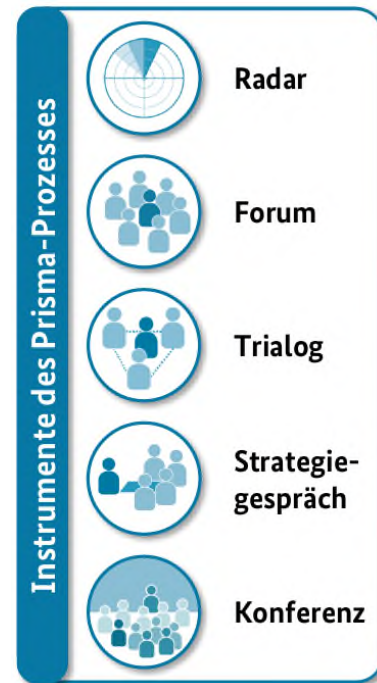- Research Data Management.

https://www.ipcc.ch/sr15/chapter/chapter-2/2-2/2-2-2/2-2-2-1/figure-2-3

Program Committee being formed
Michael Bußmann, Günter Duckeck, Martin Erdmann, Stefan Funk, Achim Streit, FI, BDA, RDM, yHEP
Who else is interested in planning?

ErUM-Data-Hub

Prisma-Forum: Exchange on ErUM-Data-Hub

8.3.2022, 30.8.2022

Messages to ErUM-Data-Hub in relation with DIG-UM
- Area of education & training "Strengthening Digital Competencies" received strong support.
- Interfaces between Helmholtz centers/platforms and universities to be further developed.
- NFDI & ErUM-Data must clarify overlap and synergy in order to avoid divergent developments.
- Expectation management: prospects of "realistic feasibility" to the BMBF.
- Access to new hardware structures, DIG-UM needs to follow these developments.

DIG-UM Topic Group Mailing Lists

Register yourself at

https://lists.rwth-aachen.de/postorius/lists/erum-data-federated-infrastructure.lists.rwth-aachen.de
https://lists.rwth-aachen.de/postorius/lists/erum-data-big-data-analytics.lists.rwth-aachen.de
https://lists.rwth-aachen.de/postorius/lists/erum-data-research-data-management.lists.rwth-aachen.de
https://lists.rwth-aachen.de/postorius/lists/erum-data-user-interface.lists.rwth-aachen.de https://lists.rwth-aachen.de/postorius/lists/erum-data-knowledge-distribution.lists.rwth-aachen.de

LISTNAME=erum-data-XXX
XXX=federated-infrastructure, big-data-analytics, research-data-management, user-interface, knowledge-distribution

- To subscribe, send e-mail to LISTNAME-request@lists.rwth-aachen.de with single word "subscribe" in the subject. Leave the body of the e-mail empty.
- Subscription is open to all ErUM scientists (list owners can administrate).
- Sending e-mails to list: Anyone on the mailing list can send e-mails to the entire list. Use exactly the registered e-mail address. Other e-mail addresses can sent to the entire list after approval by the group convenor.
- To unsubscribe, send e-mail to LISTNAME-request@lists.rwth-aachen.de with single word "unsubscribe" in the subject. Leave the body of the e-mail empty.

Conclusions
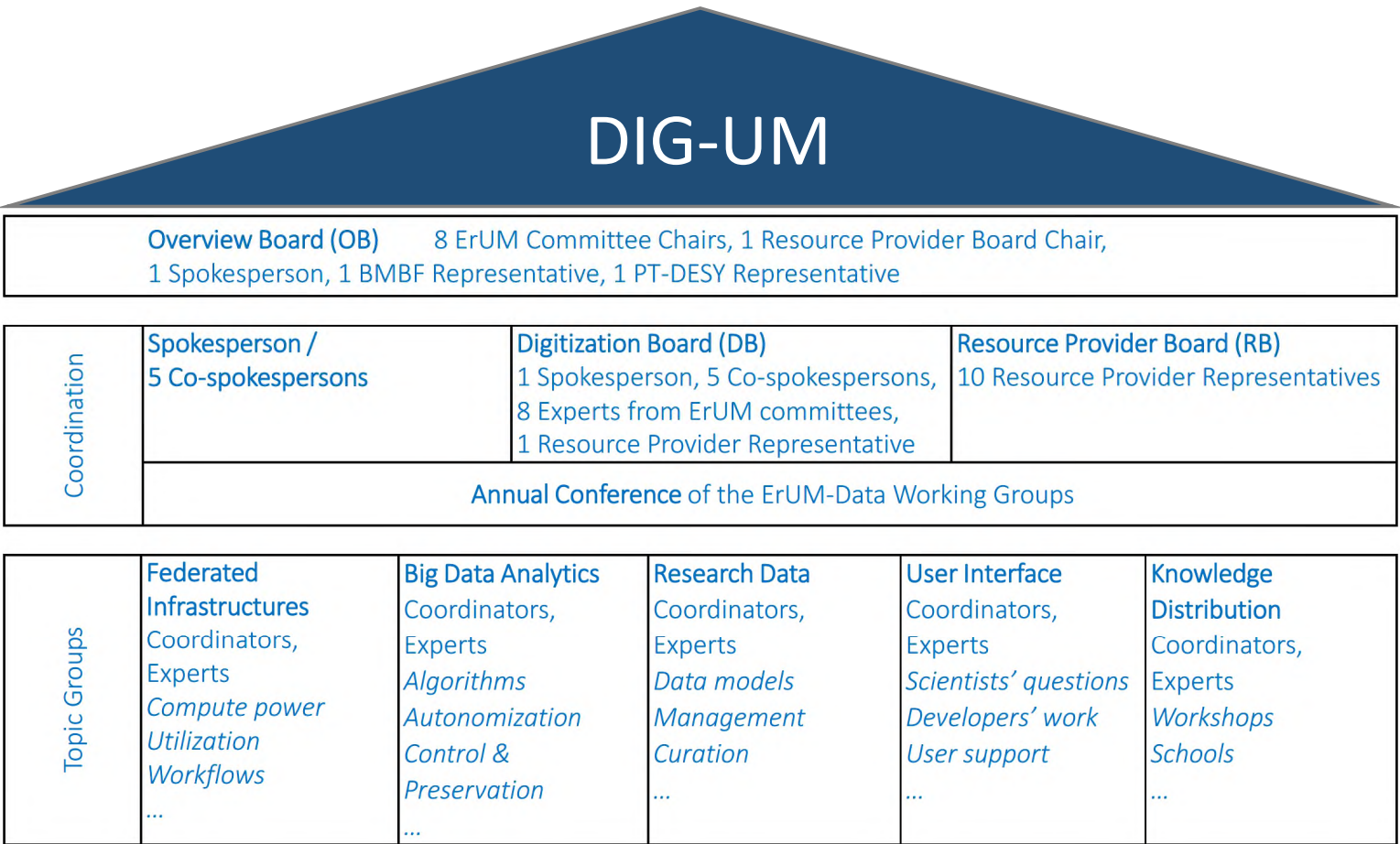
successful starting year & well alive !

ErUM-Data-Hub Meeting Kalender 2022

Legend
- **Steering** (blue/orange)
- **Training** (yellow)
- **Hub: Personnel, Orga, Web, Wiki** (green)
- **Hub-Network: NFDI, Outreach, Schools, Messe** (cream)

Januar
- 5 Personal-akquise Hub
- 6 Digitazation Board
- 14 Resource Provider B
- 18 ErUM-Data-Community Gathertown
- 25 Personal-akquise Hub

Februar
- 1 Start Tech. Support
- 2 Personal-akquise Hub
- 3 Digitazation Board
- 8 PRISMA Forum
- 9 Personal-akquise Hub
- 11 Resource Provider B
- 15 Start Kommunikation
- 17 Digitazation Board

März
- 3 Digitazation Board
- 11 Resource Provider B
- 17 Topic Group Chairs/Dep.
- 24 Hub Organ.
- 28 Hub Organ.
- 29 Hub Organ.
- 30/31 Train-the-Trainer Aachen

April
- 5 NFDI Treffen
- 7 Digitazation Board
- 11 Exchange on schools
- 14 Hub Organ.
- 21 Topic Group Chairs/Dep.
- 26 Personal-akquise Hub
- 28 Hub Organ.

Mai
- 5 Digitazation Board
- 12 Personal-akquise Hub
- 16 Exchange on schools
- 17 pre-launch webseite
- 19 Topic Group Chairs/Dep.
- 20 Messe Hub-LHC-Belle 22

Juni
- 1 Hannover Messe
- 2 Digitazation Board
- 9/10 Train-the-Trainer Wuppertal
- 11 pre-launch wiki
- 16 Hub Organ.
- 23 Topic Group Chairs/Dep.
- 30 Hub Organ.

Juli
- 1 Start Referent
- 4 10y Higgs Posters
- 7 Overview Board
- 14 Hub Organ.
- 21 Topic Group Chairs/Dep.
- 28 Exchange on schools
- 29 Personal-akquise Hub
- 30 PRISMA Forum
- 31 Resource Provider B

August
- 4 Hub Organ.
- 8–12 Deep Learning Basic Concepts Meinerzhagen
- 15 Messe Hub-LHC-Belle 23
- 17 ErUM-Data-Hub Office
- 18 Digitazation Board
- 25 Hub Organ.
- 29 Hub Organ.

September
- 5 ErUM-Data-Hub auf SNI 2022
- 8 Topic Group Chairs/Dep.
- 12–16 Conceptual Advances In Deep Learning Wiehl
- 22 Digitazation Board

Oktober
- 6 Topic Group Chairs/Dep.
- 10 Hub Organ.
- 13 Hub Organ.
- 20 Digitazation Board
- 24 ErUM-NFDI Frankfurt
- 27 Hub Organ.

November
- 3 Digitazation Board
- 10 Hub Organ.
- 17 Topic Group Chairs/Dep.
- 24 Hub Organ.
- 28/29/30 Deep Learning Advanced Meinerzhagen

Dezember
- 1 Meinerzh.
- 8 Digitazation Board
- 12 Annual Meeting, OB
- 22 Topic Group Chairs/Dep.