Task Area 4 | 2Coordinate

Kick-off, Dresden – Gläserne Manufaktur, 9 June 2022

Lars Bernard, Jörg Seegert, Christin Henzen, Auriol Degbelo, Ralph Müller-Pefferkorn, Ralf Klammer, Grit Kotschenreuther, Cathleen Matthies Technische Universität Dresden

Task Area 4 | 2Coordinate – Measures

- Measure 4.1

  Coordination, Collaborative and Sustainable Governance of NFDI4Earth
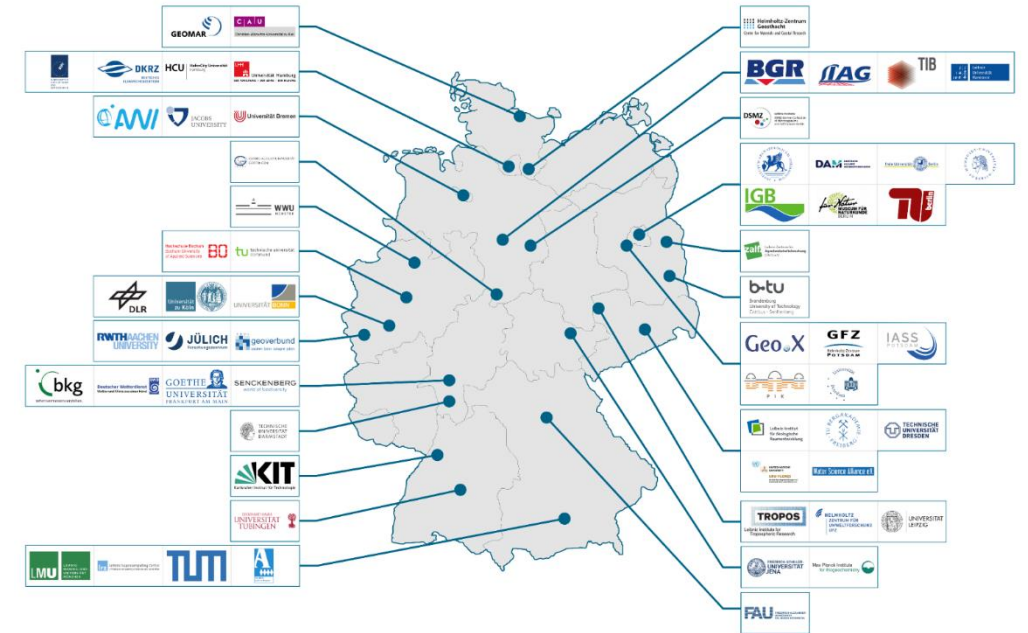
- Measure 4.2

  Towards a Cultural Change in ESS Research Data Management

- Measure 4.3

  Central Support Services for the federated NFDI4Earth

Preliminary remarks

- NFDI4Earth probably the largest consortium of the NFDI
  - 1 Applicant
  - 10 Co-applicants
  - 22 Participants (with funding from 2022)
  - 26 Participants (currently without direct funding)

- correspondingly high coordination and communication effort
  - Establishment of the coordination office since October 2021
  - step-by-step coordination, first with the co-apps (later on with participants via task areas)
  - Networking within the NFDI association (overview of and participation in various bodies)

- On-boarding by a series of partner meetings since December 2021 to
  - ensure the embedding of all partners at staggered intervals
  - introduce the context and NFDI resp. including the cross-cutting activities / sections as well as
  - the NFDI4Earth and its complex structure and manifold activities (TAs, IGs, Expert Groups, …)

TA 4 – Team TU Dresden – your Back- & Front Office

- Lars Bernard | Spokesperson
- Jörg Seegert | Managing Director
- Grit Kotschenreuther | Project / Office Assistance
- Cathleen Matthies | Controlling

- Auriol Degbelo | Community
- Christin Henzen | Software
- Daniel Nüst | Software (from Summer 2022)
- Ralph Müller-Pefferkorn | Software (ZIH)
- Ralf Klammer | Software (ZIH)
- NN | Researcher

TA 4 / Measure 4.1: Coordination & Governance

- **Central coordination**
  - **Consortium agreement** (concluded)
  - **Budget** (fixed) **and management of resources** (requests for funds etc. ongoing)
  - **Controlling and reporting** (already set up)
  - **Corporate Design & Public Relation** (already set up and in preparation resp.)

- **Project management / tools including in- und external communication**
  - SharePoint
  - Homepage
  - Open Project
  - Mailing lists

- **Collaborative Governance**
  - Establishment of governance (according to application / contract) by summer 2022 (now) - in particular
  - Election of members to the **Steering Group** and its constitution
  - Establishment of the **Scientific Advisory Board** (in the current year) …

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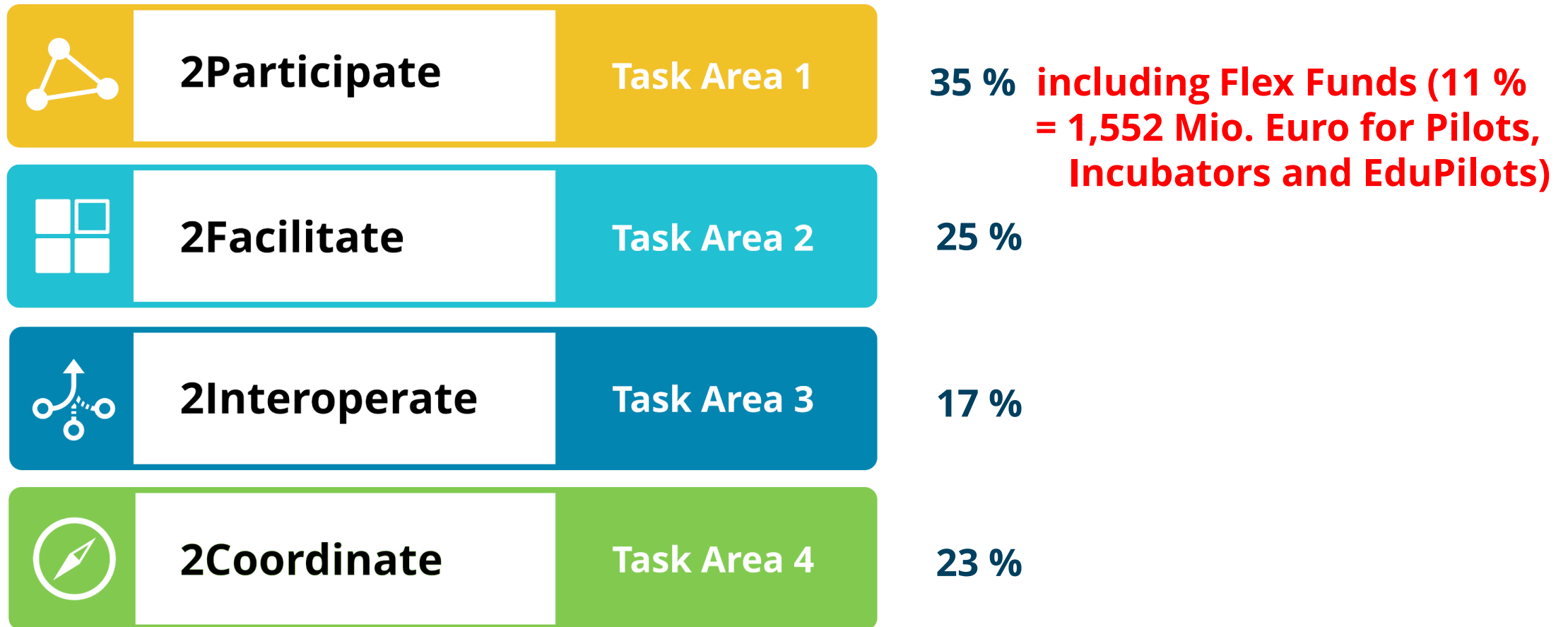 - **Corporate Design & Public Relation** (already set up and in preparation resp.)

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Distribution of the adapted project budget by TAs

2Participate — Task Area 1 — 35 % *including Flex Funds (11 % = 1,552 Mio. Euro for Pilots, Incubators and EduPilots)*

2Facilitate — Task Area 2 — 25 %

2Interoperate — Task Area 3 — 17 %

2Coordinate — Task Area 4 — 23 %

Overview of our project partners

Applicant / Co-Applicants
since 01.10.21 and 01.01.22 resp.

Participants with funding
since 01.01. and 01.04.-01.07.22 resp.

Participants without funding
intended in the future (via Flex Funds)

Applicant / Co-Applicants	Participants with funding		Participants without funding	
TUDD ✓	UNIHH ✓	IOER ✓	BSH	BTU
	LRZ ✓	TUM ✓	DAI ✓	DAM ✓
AWI ✓	TIB ✓	JÜLICH ✓	DSMZ	HCUNIHH
DKRZ ✓	**GEOMAR** ✓	UNIKI ✓	HUB	IASS
GFZ ✓	**UFZ** ✓	**IGB** ✓	LMU	MFN
HSBO ✓	**LIAG** ✓	**JUNIHB** ✓	PIK	RWTH ✓
KIT ✓	UNITUE ✓	**UNIHB** ✓	TROPOS ✓	TUB
LUH ✓	hereon ✓	UNIMS	TUBAF	TUDA
MPIBGC ✓	FUB ✓	**DLR** ✓	TUDO	UNIBN
SGN ✓	DWD *		UNIERN	UNIGOE
UNIF ✓	BKG ✓		UNIJ	UNIK
UNIL ✓	BGR ✓		UNIP	UNU-FLORES
	BSA ✓		WSA	ZALF ✓

✓ = Consortium agreement signed, marked in bold = 1st round pilots (with start from 01.04.2022)
* = Contract in final processing

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NFDI4Earth – Components – current status

Collaborative working &
document management

Central information
access

Project management
documentation

*

Mailings

Input for events, news, Twitter wanted!

[optional] *
Communication

NFDI4Earth

NFDI Consortium Earth System Sciences

NFDI4Earth addresses digital needs of Earth System Sciences. Earth System scientists cooperate in international and interdisciplinary networks with the overarching aim to understand the functioning and interactions within the Earth system and address the multiple challenges of global change. NFDI4Earth is a community-driven process providing researchers with FAIR, coherent, and open access to all relevant Earth System data, to innovative research data management and data science methods.

NFDI4Earth2Participate
M1.1: Earth System Science Pilots
M1.2: Incubator Lab
M1.3: Education and Training Materials and Services
M1.4: NFDI4Earth Academy

Task Area 1

NFDI4Earth2Facilitate
M2.1: OneStop4All
M2.2: User Support
M2.3: Governmental Data
M2.4: Data in Long-Term Storage
M2.5: Advancing Tools

Task Area 2

NFDI4Earth2Interoperate

Task Area 3

Tweets by 🔗 @nfdi4earth

nfdi4earth
@nfdi4earth

Great Job by Pilot Maximilian (@m_soechting): Data Cube Cube Viewer ... https://twitter.com /Rsc4Earth/status/1529492371431464960
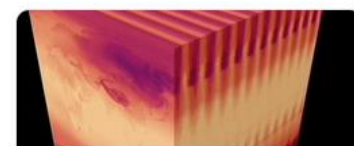
May 30, 2022

nfdi4earth Retweeted

Remote Sensing Centre for Earth Syste...
@Rsc4Earth

Replying to @Rsc4Earth

Twitter auf Deutsch - interessiert an einer Zusammenfassung der Arbeit von @m_soechting zu #LEXCUBE? Hier wurde schon ein Blog dazu geschrieben: geoobserver.wordpress.com/2022/05/25/lex...

News

RDM-NHR-BEYOND Mai

Reading More

Project controlling / monitoring & reporting

Implementation and use of **OpenProject** as a monitoring and reporting tool

- **Contents**
  - Complete work programme: task areas, measures, milestones, deliverables, …
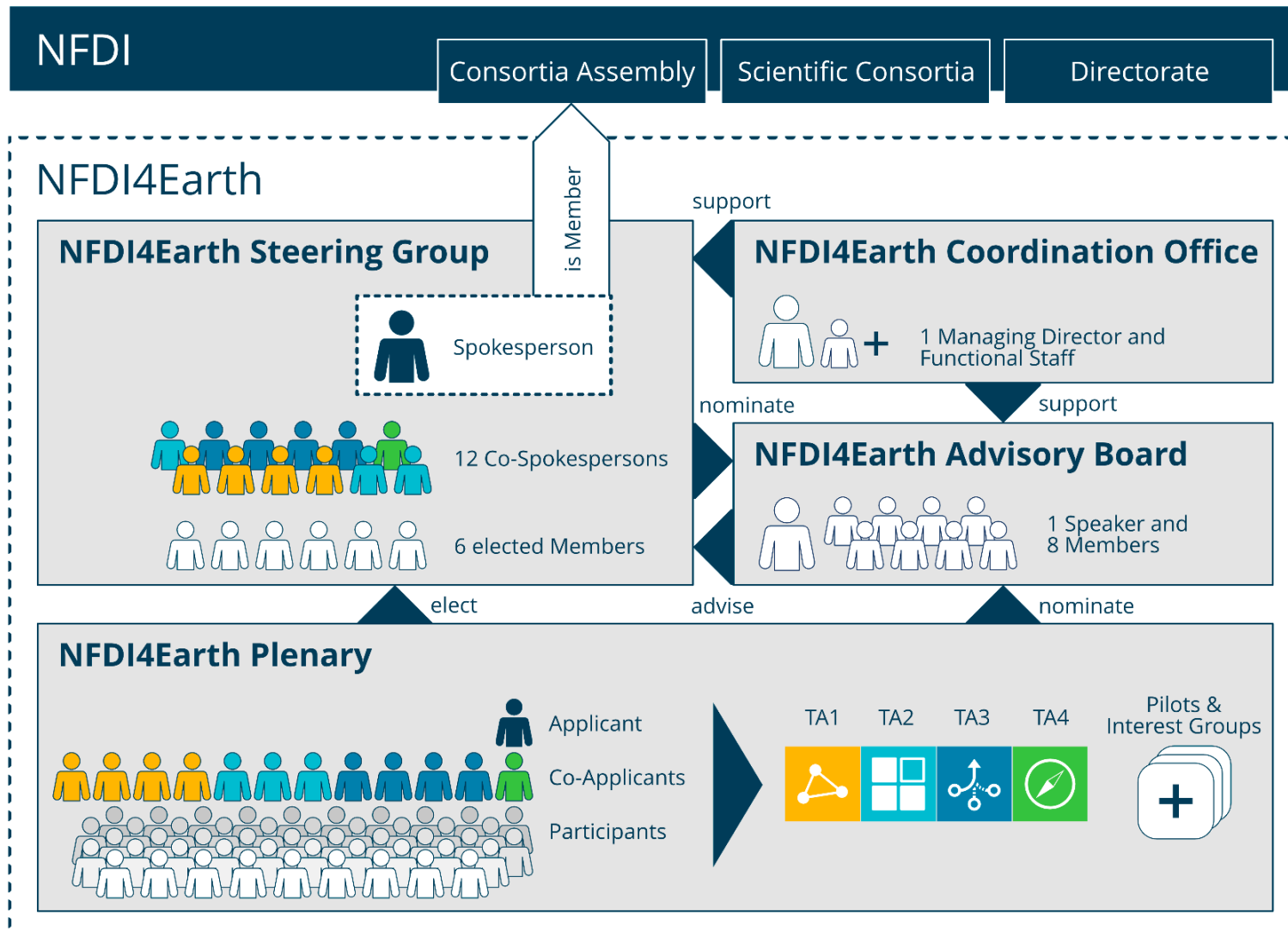 - Responsibilities (assignments to TAs, measures, …) in coordination with co-applicants

- **Special features**
  - Central entity, usable and financed by several NFDI consortia
  - Cross-consortium tool, e.g. also for the NFDI sections, …
  - Host and central administration: TU Darmstadt
    - Administration for NFDI4Earth: TU Dresden
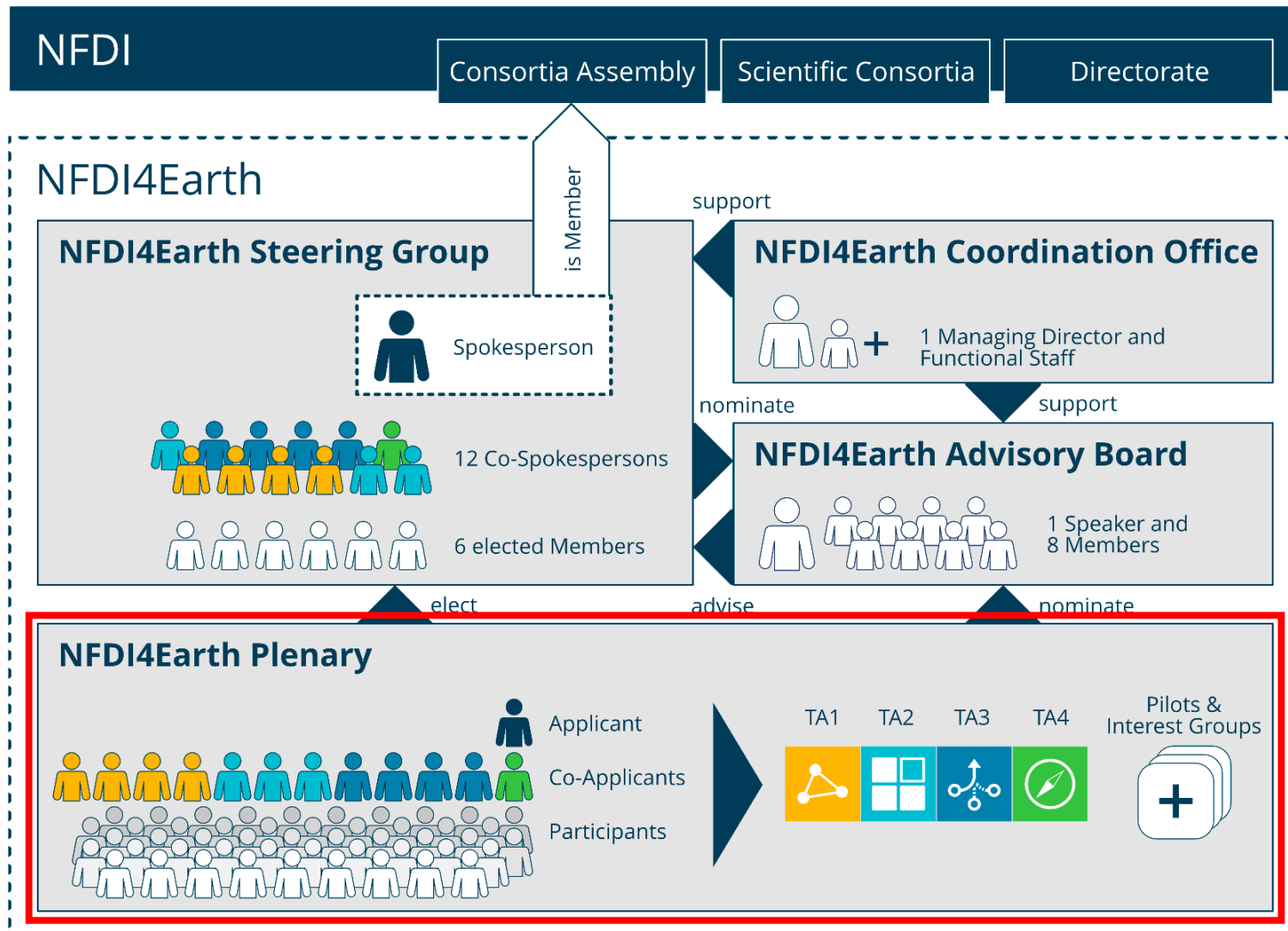
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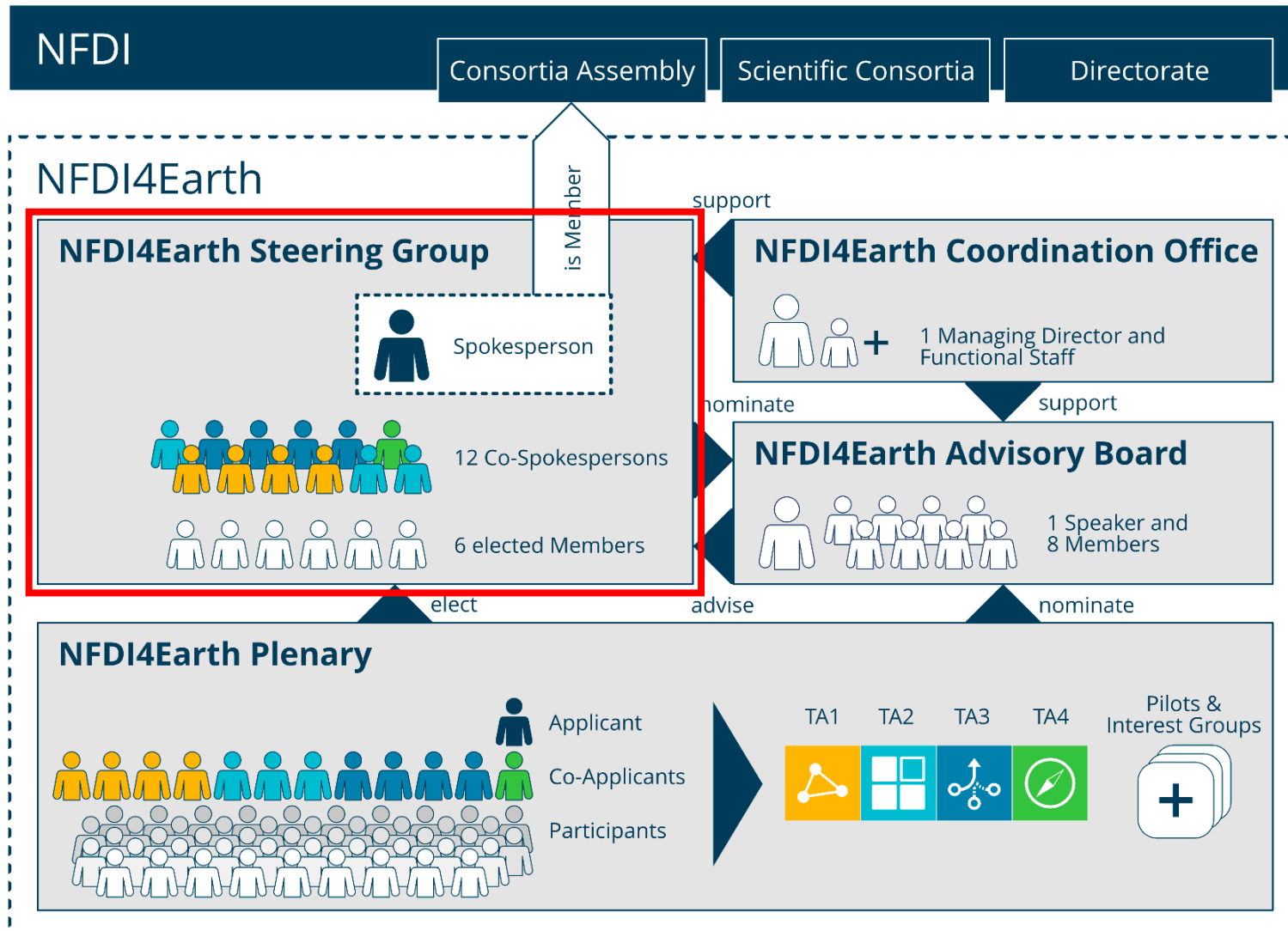
Our Governance (according to the proposal – BLV)

- **Plenary**
- **Steering Group**
- **Advisory Board**
- **Coordination Office**
- Task Areas, Pilots and **Interest Groups**

Our Governance (according to the proposal): Plenary

NFDI4Earth 2Coordinate

NFDI

| Consortia Assembly | Scientific Consortia | Directorate |

NFDI4Earth

NFDI4Earth Steering Group

Spokesperson

12 Co-Spokespersons

6 elected Members

is Member

support

NFDI4Earth Coordination Office

1 Managing Director and Functional Staff

nominate   support

NFDI4Earth Advisory Board

1 Speaker and 8 Members

elect   advise   nominate

NFDI4Earth Plenary

Applicant

Co-Applicants

Participants

TA1 TA2 TA3 TA4

Pilots & Interest Groups

- **encompasses all representatives of the participating institutions** (Co-Applicants and Participants)

- meets at least annually

- proposes and admits new members and decides on membership terminations

- **nominates and elects six members for the steering group (for annual term, re-election possible, …)**

-> elections by circulation procedure - analogous to the election of the spokesperson

15

Implementation of the Governance: Steering Group

- **is formed by the spokesperson (as chair) and co-spokespersons as well as six members elected from the plenary**

- coordinates and 'monitors' the work of the TAs and decides on any necessary adjustments

- usually meets once a month (currently or usually virtually)

-> constituted in summer 2022 (after 1st election – possibly at and after plenary session resp.)

Implementation of the Governance: Steering Group

NFDI₄Earth 2Coordinate

Election of six members for the Steering group **out of eleven candidates from different Participant Institutions** – the result:

Marcus Brühl, BKG

Stephan Hachinger, LRZ

Frank Kaspar, DWD

C o n g r a t u l a t i o n s !

Sören Lorenz, GEOMAR

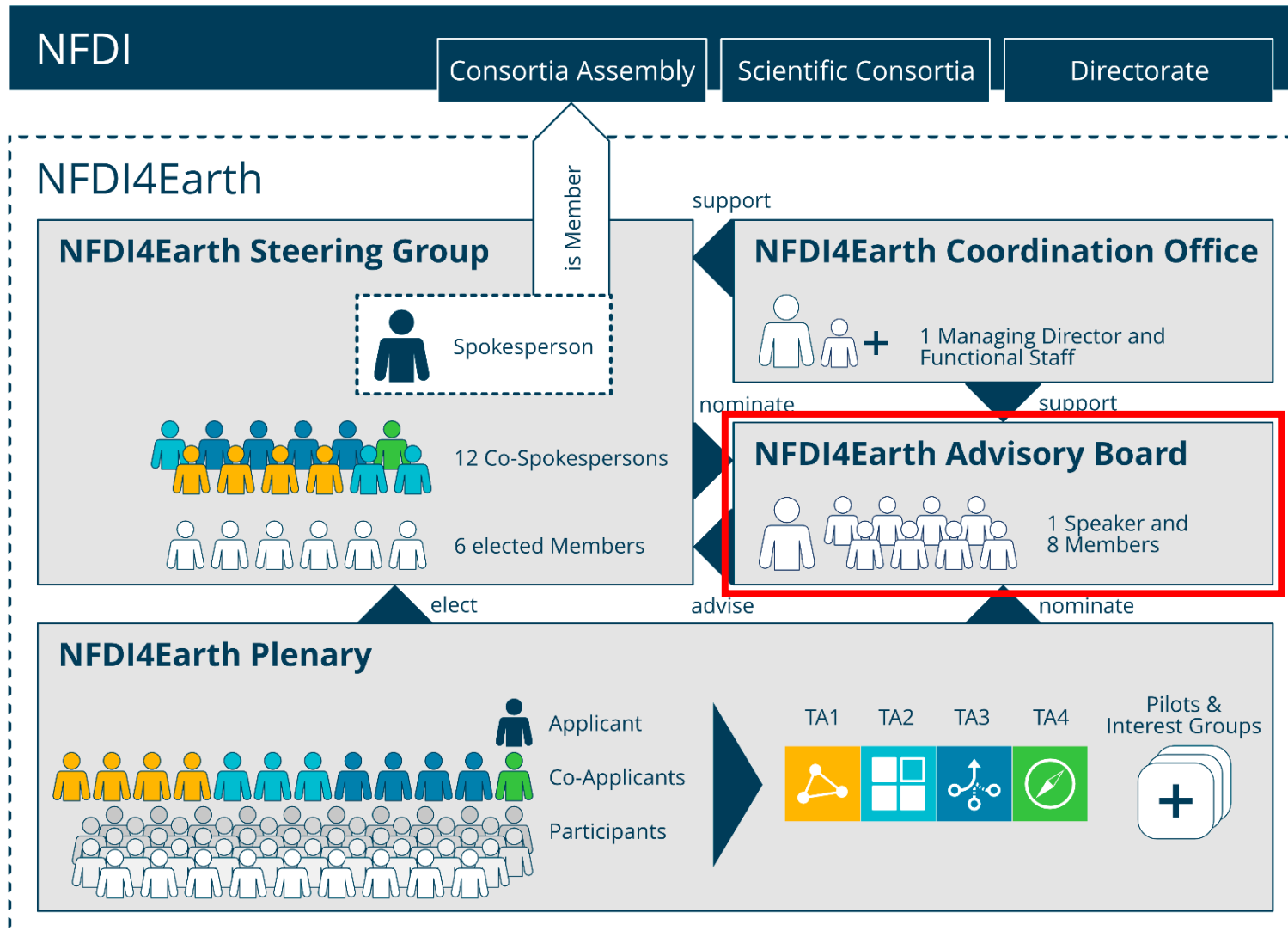**Inga Moeck, LIAG & UNIGOE**

Martin Werner, TUM

Criteria: only participants, type of institution, expertise, (early) career stage, gender, …, nomination by plenary

Implementation of the Governance: Advisory Board

- reviews the status, strategy and development of NFDI4Earth from an external perspective

- provides recommendations for the steering group on the content and achievement of the project goals

- meets at least once a year

- consists of nine members (incl. a speaker) who cover the breadth of ESS

- **The Steering Group will appoint four members of the Advisory Board and the Plenary five additional members.**

Task Area 4 | 2Coordinate – Measures

- Measure 4.1

  Coordination, Collaborative and Sustainable Governance of NFDI4Earth

- Measure 4.2

  Towards a Cultural Change in ESS Research Data Management

- Measure 4.3

  Central Support Services for the federated NFDI4Earth

TA 4 / Measure 4.2: Towards a Cultural Change ...

- **Team**
  - TU Dresden *(in charge)*
  - GFZ Potsdam (c/o FID GEO)
  - FU Berlin
- **Actions**
  - Action 1 **NFDI4Earth FAIRness and Openness Commitment**
  - Action 2 **Engaging with academic societies and publishers**
  - Action 3 **Rewarding systems: status and recommendations**
  - Action 4 **Monitoring**

First activities started: start-up consultation mid-May 2022, i.e. coordination of work plan with actors mentioned above etc.

Task Area 4 | 2Coordinate – Measures

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- Measure 4.2

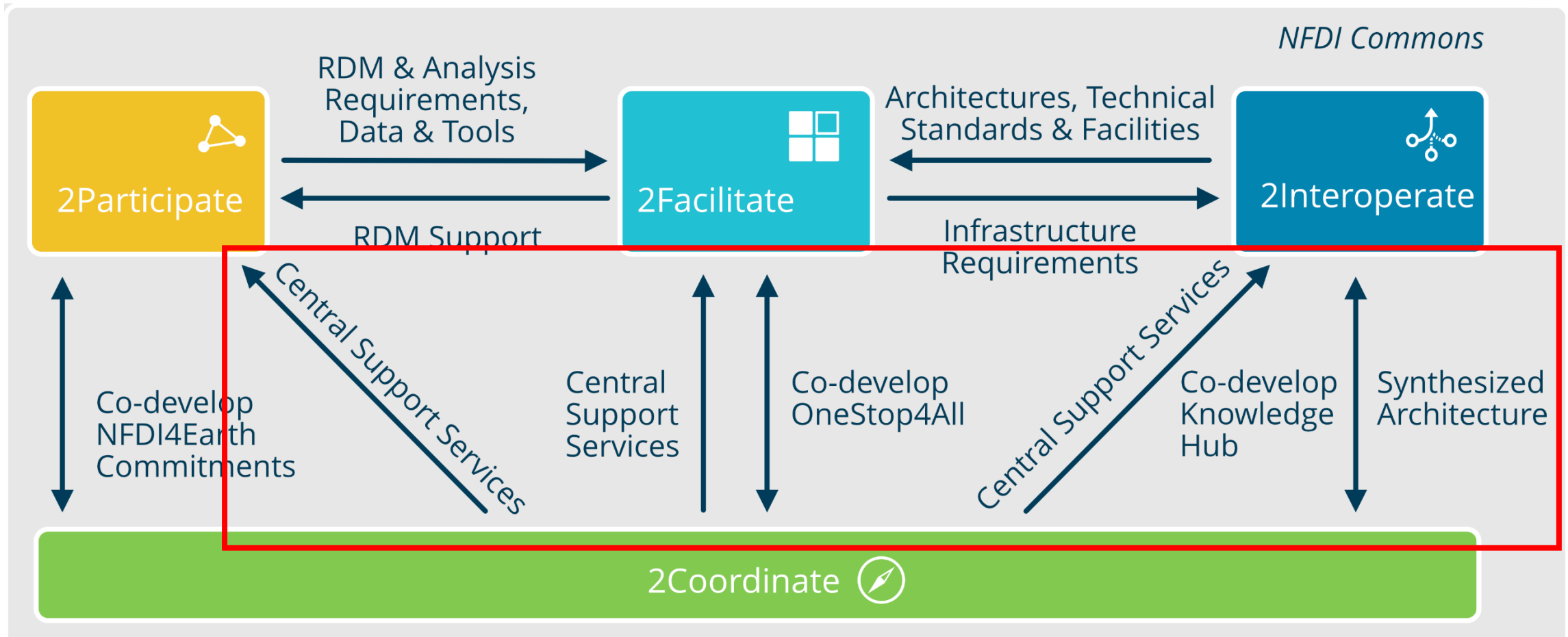 **Towards a Cultural Change in ESS Research Data Management**

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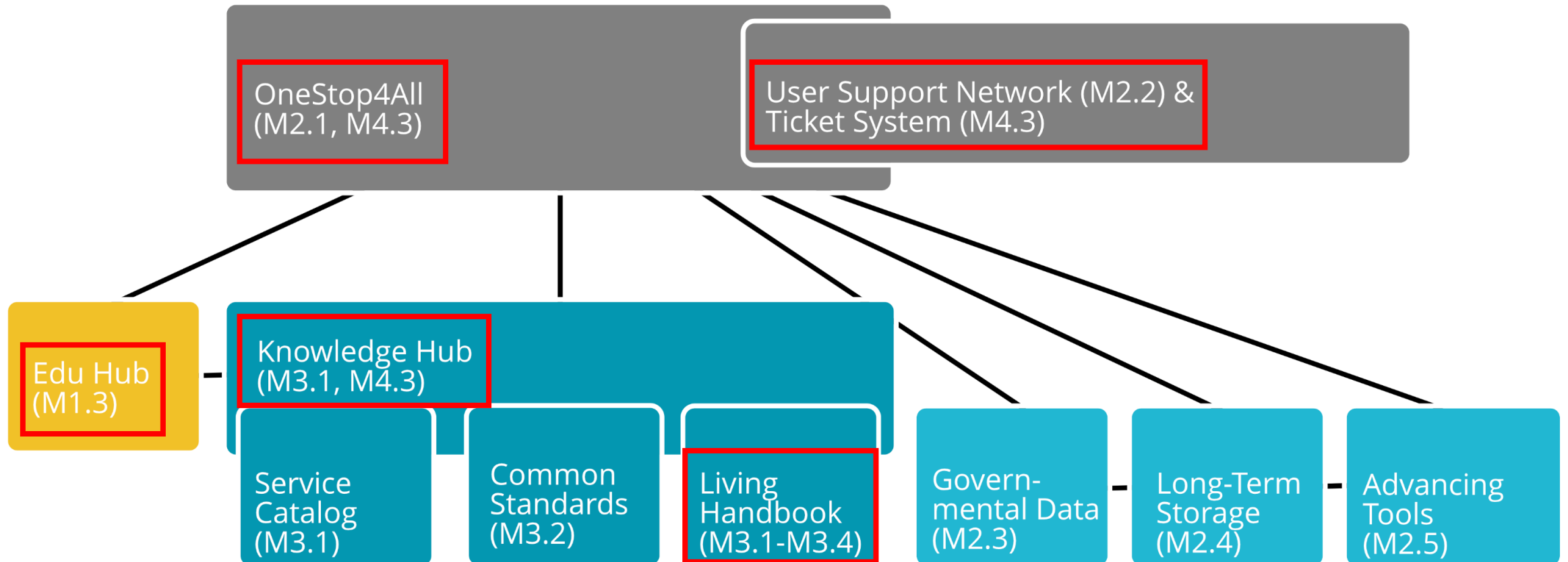# TA 4 / Measure 4.3: Central Support Services …

- **Team**
  - TU Dresden, SGN, HSBO, KIT

TA 4 / Measure 4.3: Central Support Services …

NFDI₄Earth 2Coordinate

- **Team**
  - TU Dresden, SGN, HSBO, KIT

OneStop4All (M2.1, M4.3)

User Support Network (M2.2) & Ticket System (M4.3)

Edu Hub (M1.3)

Knowledge Hub (M3.1, M4.3)

Service Catalog (M3.1)

Common Standards (M3.2)

Living Handbook (M3.1-M3.4)

Govern-mental Data (M2.3)

Long-Term Storage (M2.4)

Advancing Tools (M2.5)

TA 4 / Measure 4.3: Central Support Services ...

- Manage/support federated implementation of common NFDI4Earth services
- Assist and accompany common quality-assured open source developments in NFDI4Earth with a technical support infrastructure
- **Actions**
  - Action 1 Technical Base of the **OneStop4All**
  - Action 2 Realizing **NFDI4Earth Knowledge Hub** and **Living Handbook**
  - Action 3 **Virtualization Services** for Development and Operation
  - Action 4 **Ticketing System** for User Support
  - Action 5 **Support and Coordination of Software Developments**
  - Action 6 Technical Platform for the NFDI4Earth **EduHub**

TA 4 / Measure 4.3: Central Support Services …

- **Current activities**

  - Developing a common architecture for NFDI4Eearth Software Products in close cooperation with all TAs

  - Reviewing (and testing) potential open-source software solutions, i.e. implemented by other NFDIs

  - Setting up a continuous integration und continuous delivery environment (CI/CD) for NFDI4Earth developer teams

  - Participate in NFDI Sections/Working Groups (e.g. Search & Harvesting, Data Integration, Semantic Interop., TF Tools for Project Management, DMPs, Guidance & Best Practices, …) -> adaption after team is completed

TA 4 / Measure 4.3: Central Support Services ...

- **Current activities**
  - Support and Coordination
    - On-boarding for new members
    - Coordinating discussions on software-related concepts and developments
    - Coordination of **expert groups** -> see next session / poster on user characteristics, data model, software backbone

Thank You !

https://www.nfdi4earth.de/