


NFDI4Earth's Impact on Earth Sciences Data Management

Coffee Lecture, 20.06.2024

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Today's talk

1. Introduction to NFDI4Earth
2. Participation opportunities
3. Status of major services

NFDI4Earth for Newbies: Key Aspects



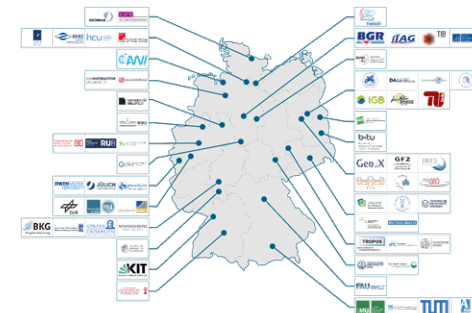
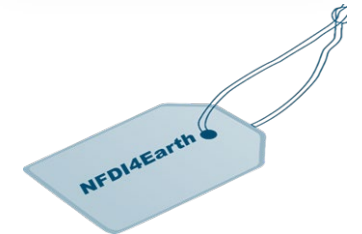
One Community approach to **sustainable, open** and **FAIR** Research Data Management in Earth System Sciences (ESS)

OneStop4All and **User Support Network** for ESS RDM as integral part of NFDI and International Infrastructures

Qualification for people, data, tools and services as a basis for FAIR RDM, service consolidation and viability

Community driven agile development of innovative platforms for data integration and collaborative data analysis

Established 2018 as **Open Consortium** and ESS branch in NFDI
DFG-Funded 10/2021–9/2026; 16.5 Mio. Euro, 63 partners Universities, Research Organizations, Infrastructure Providers, Governmental Institutions



NFDI4Earth – Strategy 2021-26



2Participate Task Area

IG Metadata Standards for
Geochemical Data
(Geochemistry Group)



2Facilitate Task Area

User Support Network
(Institute of Meteorology)



2Interoperate Task Area 3

Infrastructure Perspective

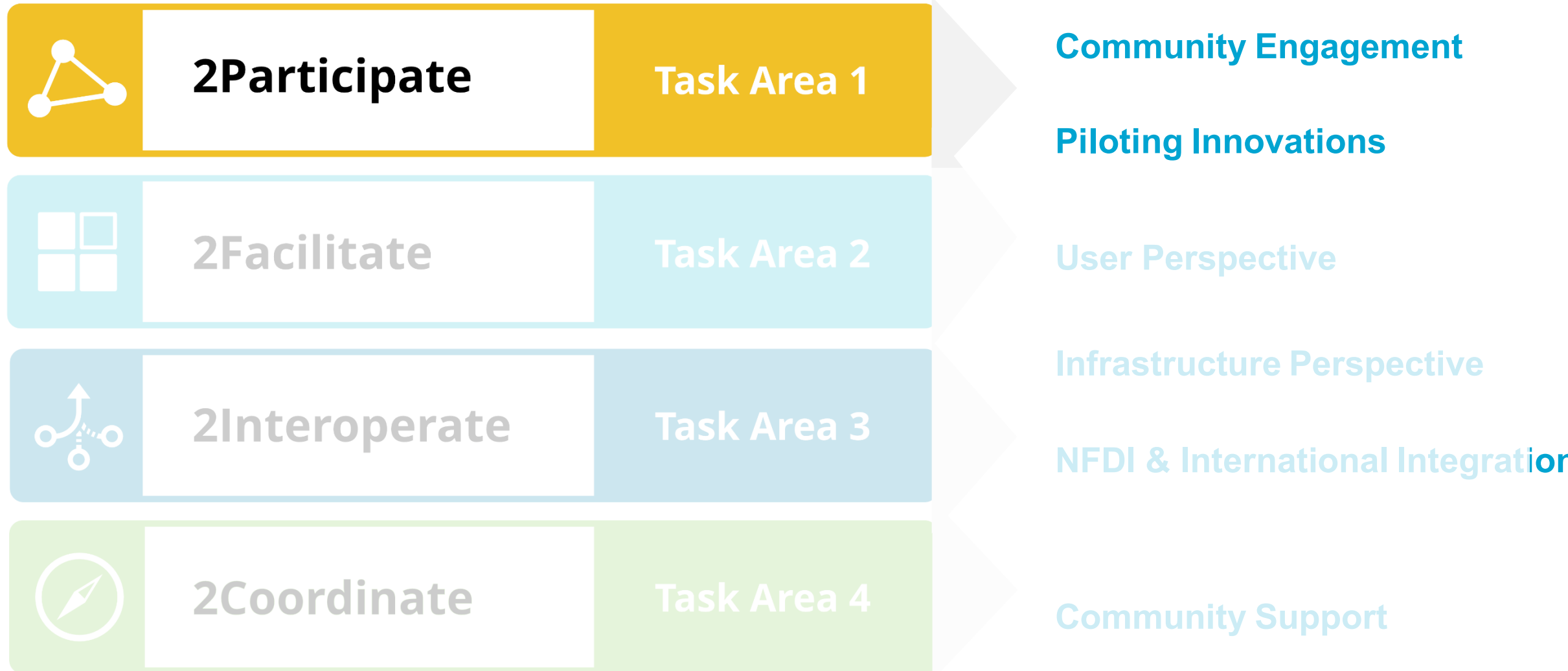
NFDI & International Integration



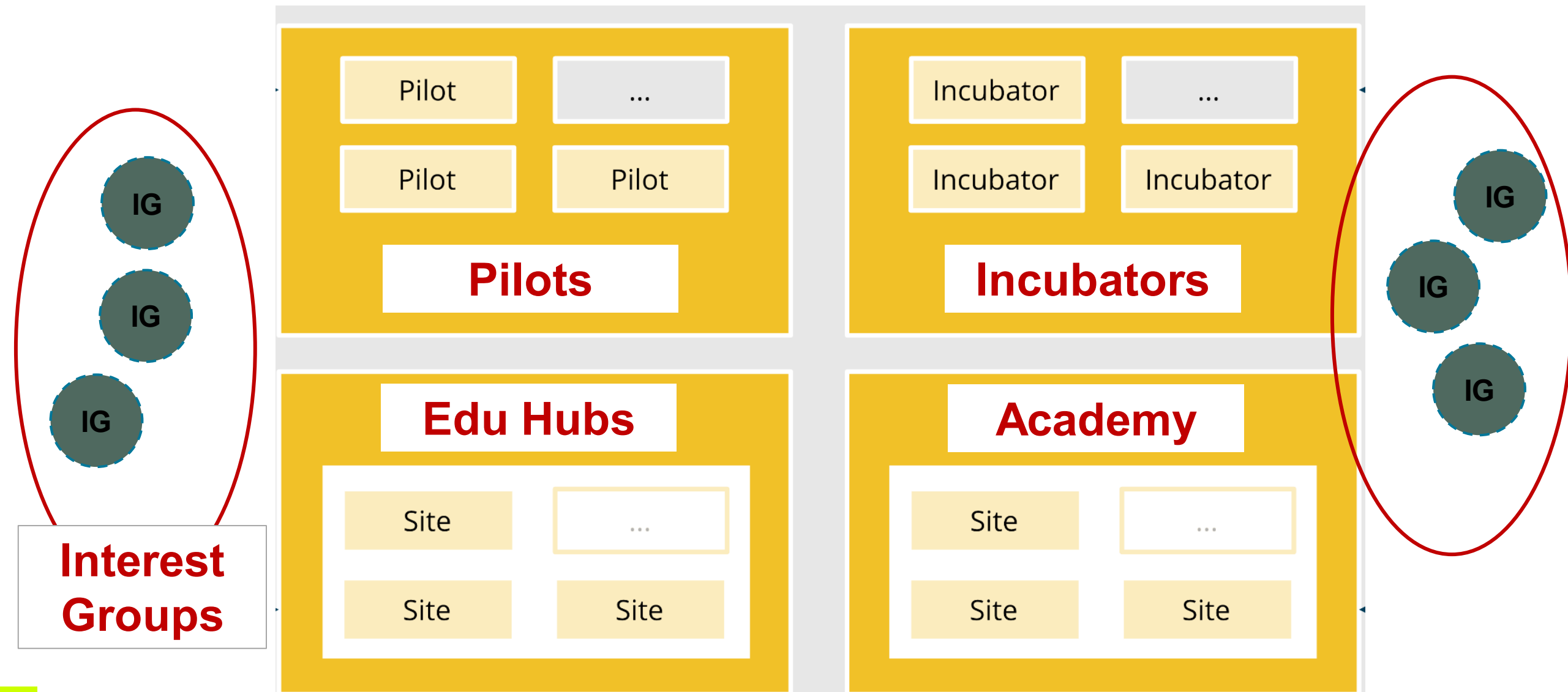
2Coordinate Task Area

Rewarding systems: status and
recommendations
(University Library)

NFDI4Earth – work programme 2021-26



TA1 – Engage with the community, foster innovation



Embedding in Community of Interest

21 Scientific Pilots (67 applications)

- each 1 year FTE to showcase FAIR ESS
- 3rd call launched

9 Incubators (25 applications)

- each 6 months FTE to innovate FAIR ESS
- 3rd call launched

73 Academy Fellows (121 applications)

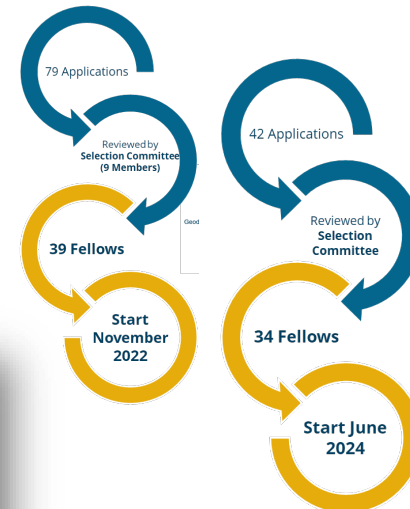
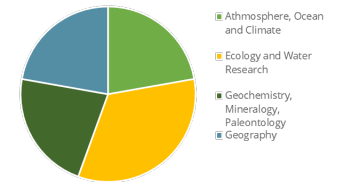
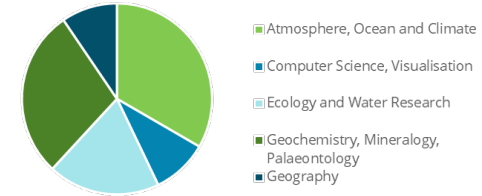
- 2 Cohorts of Training Networks to bridge Earth System and Data Science

3 NFDI4Earth Annual Plenaries open to all

- Each >100 participants as well-perceived fora



ESS domains of the 21 funded pilots



Get Involved !


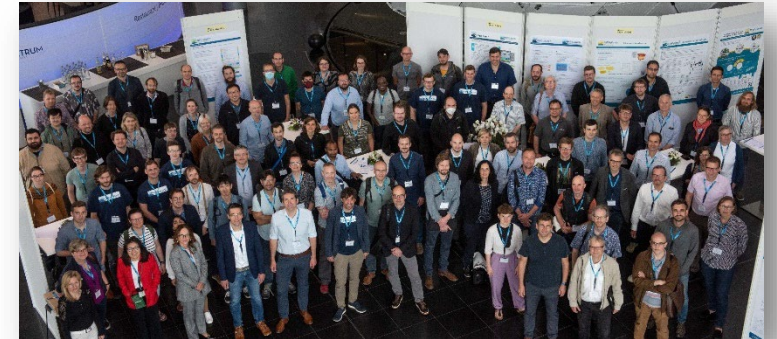
Join the annual **NFDI4Earth Plenary Meetings**

Join or launch an Interest Group !

Apply for

- an NFDI4Earth Incubator or
- an NFDI4Earth Pilot or
- an NFDI4Earth Edu Pilot or
- the NFDI4Earth Academy

Calls will be launched regularly !



Become part of the NFDI4Earth activities!

NFDI4Earth is designed as an open consortium. If you are interested in participating and shaping NFDI4Earth, we invite you to initiate an Interest Group or join an existing one.

[Read the guidelines for detailed information](#)

The following interest groups are endorsed by the Steering Group of NFDI4Earth (as at April 2022)

- [Geology & Geophysics](#)
- [High-performance Computing in Earth System Sciences](#)
- [Machine Learning](#)

and others are being prepared or currently under review

- [\(Geo\)Research Software and Reproducibility](#)
- [FAIR Data](#)
- > [Standardisation of geochemical Analysis Data](#)

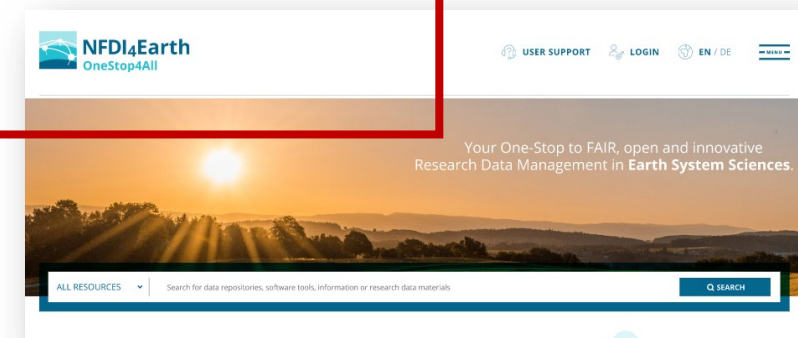
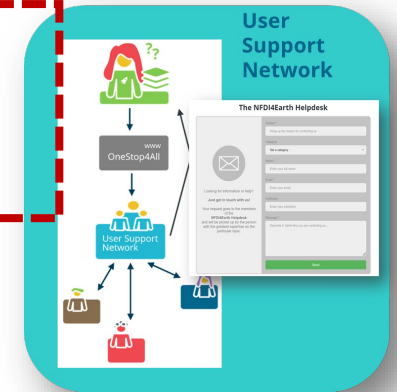
Further ideas were considered at an early stage during the 4th plenary in Potsdam, but have not yet been implemented

- > [Data Management Plan](#)
- > [Industry & Company Data](#)

If you are interested in one of the topics and interest group resp. mentioned above please click on the corresponding IG!

Five new types of services

- 1. Knowledge Hub** offers metadata for broad range of resources including datasets, learning resources, repositories, people, organizations, standards, and research software (since 2023)
- 2. OneStop4All** offers unified browsing for ESS digital resources (coming 2024)
- 3. Living Handbook** features pilot & incubator documentations, NFDI4Earth products, overview articles about RDM services in ESS (since 2023)
- 4. User Support Network** offers first and second level-support to researchers, linking and enhancing existing, federated support structures (since 2023)
- 5. EduTrain Portal** offers courses for ESS-RDM micro-curricula; getting tested in the NFDI4Earth academy (since 2023).




NFDI4Earth-developed Services

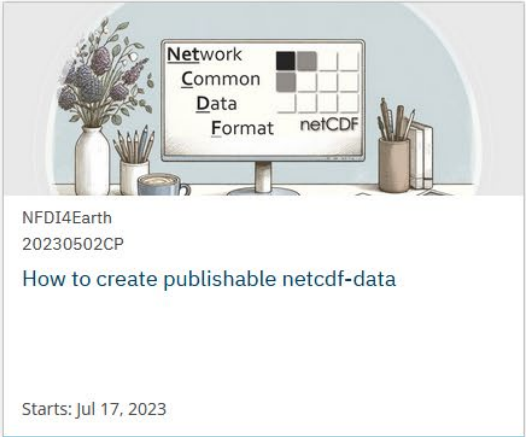
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NFDI4Earth - Open edx

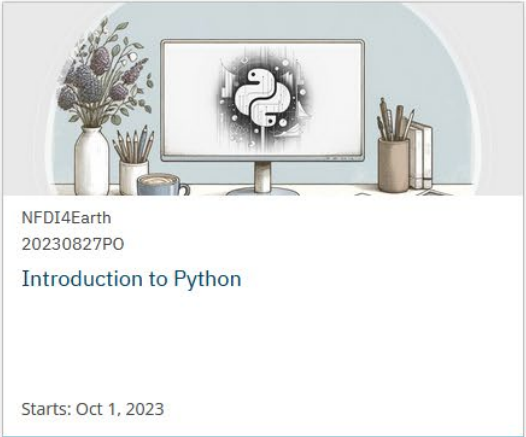
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NFDI4Earth
20230412FS
Image processing and analysis
Starts: Jul 1, 2023




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20230502CP
How to create publishable netcdf-data
Starts: Jul 17, 2023




NFDI4Earth
20230827PO
Introduction to Python
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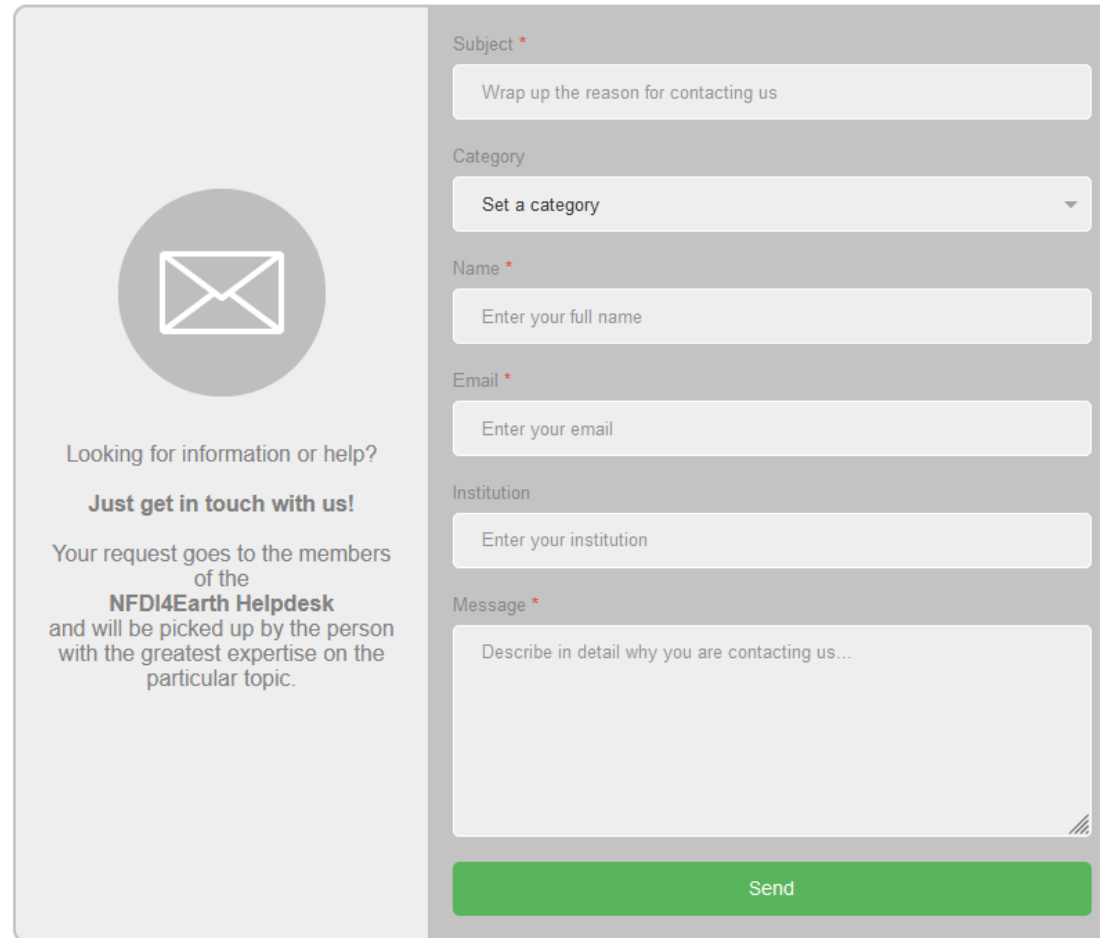
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NFDI4Earth-developed Services

The NFDI4Earth Helpdesk



The image shows a contact form for the NFDI4Earth Helpdesk. On the left, there is a circular icon of an envelope. Below it, the text reads: "Looking for information or help? Just get in touch with us! Your request goes to the members of the NFDI4Earth Helpdesk and will be picked up by the person with the greatest expertise on the particular topic." On the right, the form fields are: "Subject" (text input with placeholder "Wrap up the reason for contacting us"), "Category" (dropdown menu with "Set a category"), "Name" (text input with placeholder "Enter your full name"), "Email" (text input with placeholder "Enter your email"), "Institution" (text input with placeholder "Enter your institution"), and "Message" (text area with placeholder "Describe in detail why you are contacting us..."). A green "Send" button is at the bottom.

<https://www.nfdi4earth.de/helpdesk>

Thank you!

