

NFDI4Earth

NFDI4Earth Interest Group Research Software (NFDI4Earth RS)

NFDI4Earth Plenum, 2022

IG Research Software



Mission & Scope



„Not only research data, but also **software tools are fundamentally connected** to scientific analyses.“

„Software Tools and Research Data must be **jointly considered** for findings that are understandable, reviewable, and reusable.“

“[...] the IG may reach out and **collaborate with similar groups** in other NFDI consortia.”

“The RS IG can help to collect and spot the **Research Software needs of the community** and respond with assistance, guidance, and competence, and exchanges[...].”

Taken from the proposal soon to be available from the NFDI4Earth RS web page

Key Outcomes

- To **build a community and pool of experts** which are willing and able to share their knowledge and to foster a joint evolution of Research Software 4 Earth System Science
- To provide **Open Educational Resources (OER)** on selected aspects of the software life cycle including case studies and **best practices** found in the current NFDI4Earth partner network and beyond
- To provide **guidelines for decision-making** through all design stages (e.g., cloud vs. on-premise, streaming vs. batch, supercomputing vs. COTS cluster)

Initial Work: Find and Classify Existing Guidelines

	GUIDELINE	FAIR	Licence	Version.	Citation
DLR	DLR Software Engineering Guidelines ¹		✓	✓	✓
Helmholtz	Muster-Richtlinie Nachhaltige Forschungssoftware an den Helmholtz-Zentren ²	✓	✓	✓	✓
Allianz-Initiative Digitale Info.	Handreichung zum Umgang mit Forschungssoftware ³	✓	✓	✓	✓
PIK	Software and Model Guidelines ⁴			✓	✓
eScience Center	Netherlands eScience Center - Software Development Guide ⁵		✓	✓	✓
RDA: FAIR4RS WG	FAIR Principles for Research Software (FAIR4RS Principles) ⁶	✓			

1 <https://zenodo.org/record/1344612>

2 <https://doi.org/10.2312/os.helmholtz.007>

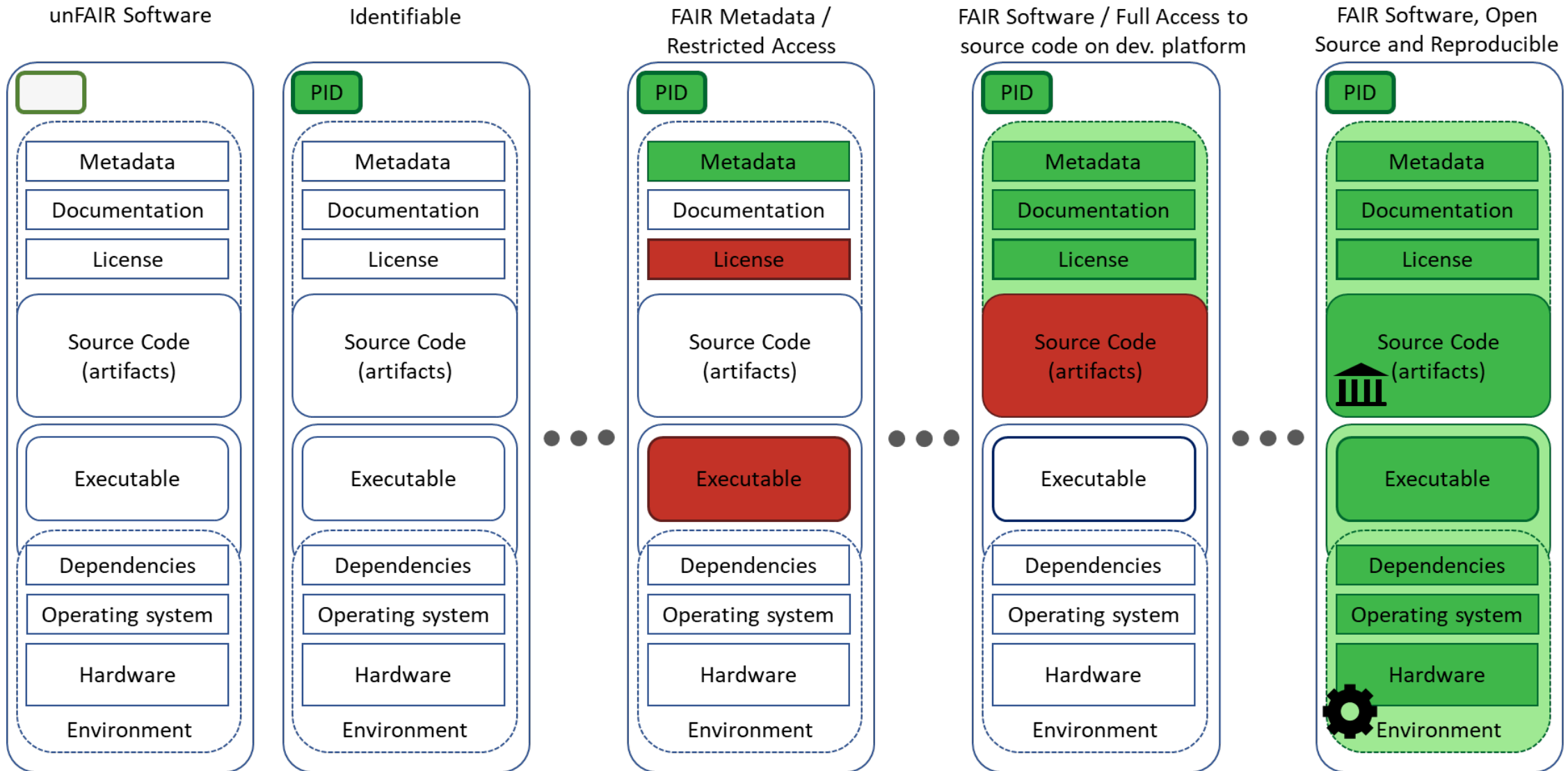
3 <https://doi.org/10.5281/zenodo.1172969>

4 <https://www.pik-potsdam.de/en/output/software-data-models/software-and-data-guidelines>

5 <https://guide.esciencecenter.nl>

6 <https://www.rd-alliance.org/group/fair-research-software-fair4rs-wg/outcomes/fair-principles-research-software-fair4rs>

Initial Work: Find and Classify Existing Guidelines



Join us



(1) Approach or Join the (Open and Flexible) Coordinator Group

(alphabetical order)

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(2) Join our E-Mail List and/or Pad to get involved

nfdi4earth-ig-researchsoftware@groups.tu-dresden.de
<https://pad.gwdg.de/zgBtZ-SYSxSKezjxhtqs8g>

(3) Step by our poster to chat around the topics of Research Software

Thank You !



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