

Virtual Workshop

‘Towards a NFDI Software Marketplace’

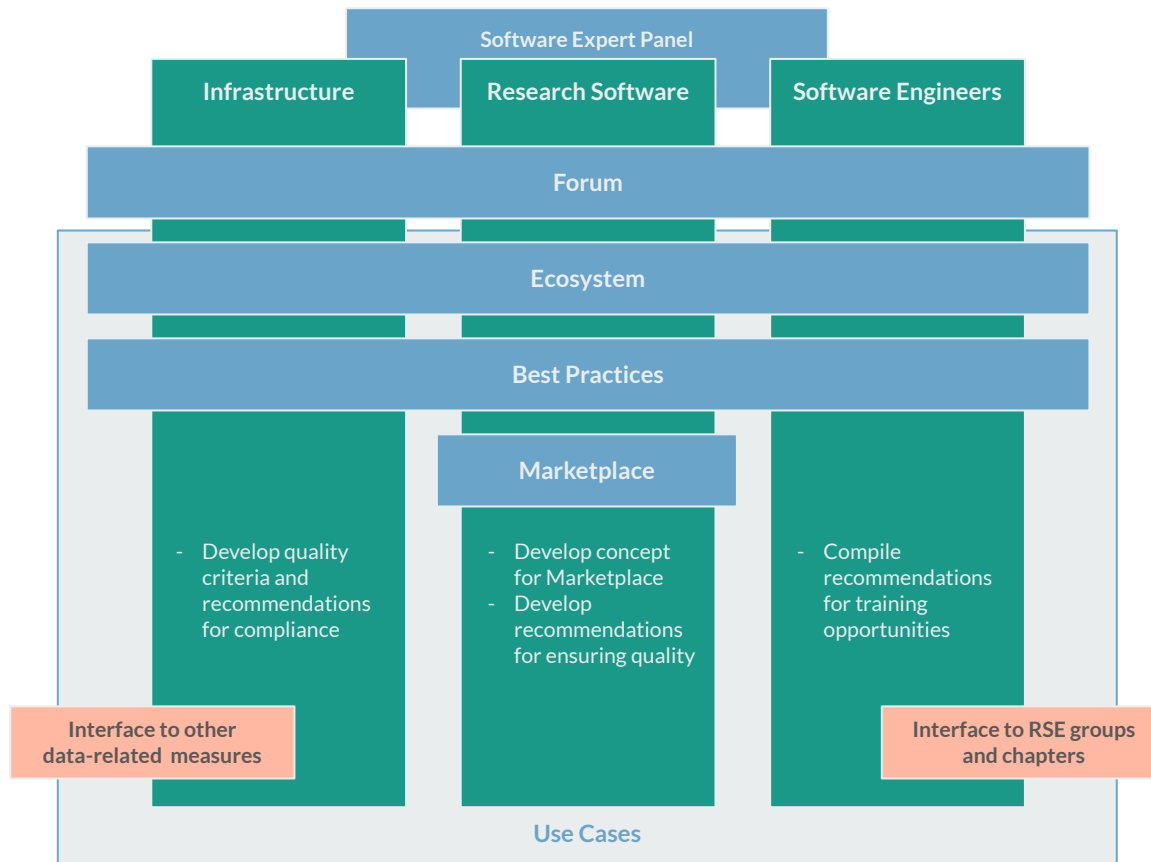
Working Group Research Software Engineering (WG RSE)
NFDI Section Common Infrastructures

Zoom, September 19, 2022

Retrospect

- Research software
 - Important aspect of the NFDI since 2018/2019
 - Part of discussions at NFDI conferences, in consortia, in declarations, and workshops
 - One of the cross-cutting topics in the NFDI
- NFDI Sections, Common Infra & RSE
 - Four sections established in September 2021 incl. “Common Infrastructures”
 - Concept and kick-off of section Common Infra & initiation of its WGs in October 2021
- WG RSE
 - Writing of concept in early 2022 incl. focal point, objectives, collaboration, and tasks
 - Identification of marketplace for research software as one of the key objectives
 - Contribution to Base4NFDI incl. NFDI-wide services amongst others a Software Marketplace

Concept WG RSE of Section Common Infra



- Focal points
- Objectives
- Collaboration
- Tasks

Prospects WG RSE based on concept

- Tasks towards objectives planned with eight core teams
 - INFRA-RSE-T01: Illustration of JupyterHub offers
 - INFRA-RSE-T02: Listing of recommendation for training opportunities
 - **INFRA-RSE-T03: Development of concept for Software Marketplace**
 - INFRA-RSE-T04: Drafting of a mission statement 'Software Engineering in the NFDI'
 - INFRA-RSE-T05: Conducting of status quo survey and report
 - INFRA-RSE-T06: Monitoring of the EOSC and other infrastructures to ensure connectivity
 - INFRA-RSE-T07: Drafting of strategy for the establishment of an NFDI software ecosystem
 - INFRA-RSE-T08: Identification of use cases
 - INFRA-RSE-T09: Development of quality criteria for research software
 - INFRA-RSE-T10: Development of criteria for NFDI software infrastructure components.

Towards a NFDI Software Marketplace

- Offer access to the extensive portfolio of research software within the NFDI
- Enable work with research data
- Ensure reproducibility
- Improve discovery and re-usability
- Link to data types and use cases
- Connect to software repositories, publishing and archiving services, software journals, and Software Heritage
- Harvest automatically relevant information from existing sources
- Apply metrics & provide information on impact and adoption
- Enable identification of relevant software
- Refer to associated data offers and specific software-providing services ranging from source code, runnable products, to ready-to-use software on hardware resources with prepared data and software
- Promote best practices regarding software engineering, quality, and licensing
- Contribute to visibility, awareness and recognition

Today's agenda

9:00 AM	→ 9:10 AM	Welcome	🕒 10m
Speakers: Martin Hammitzsch, Bernd Flemisch			
9:10 AM	→ 9:20 AM	Betty's (Re)Search Engine: A client-based search engine for research software stored in repositories	🕒 10m
Speaker: Vasily Seibert			
9:20 AM	→ 9:25 AM	PUNCH4NFDI marketplace	🕒 5m
Speaker: Michael Zacharias			
9:25 AM	→ 9:30 AM	TMF ToolPool Gesundheitsforschung - A repository for software and services for supporting clinical and epidemiological research	🕒 5m
Speaker: Matthias Löbe			
9:30 AM	→ 9:40 AM	bio.tools - essential scientific and technical information about software tools, databases and services for bioinformatics and the life sciences	🕒 10m
Speaker: Bjoern Grüning			
9:40 AM	→ 9:50 AM	Research Software Directory (RSD) - Improving the impact of research software	🕒 10m
Speakers: Jason Maassen, Christian Meeßen			
9:50 AM	→ 10:00 AM	SQA - From license compatibility checks to software quality assurance	🕒 10m
Speaker: Matthias Rüster (GFZ Potsdam)			
10:00 AM	→ 10:10 AM	HERMES - Software publications with rich metadata and automated workflows	🕒 10m
Speaker: Oliver Bertuch (Forschungszentrum Jülich)			
10:10 AM	→ 10:20 AM	Questions and answers	🕒 10m
10:20 AM	→ 10:45 AM	Exchange of ideas, identification of promising approaches	🕒 25m
10:45 AM	→ 11:00 AM	Discussion and coordination of potential next steps, closing	🕒 15m