

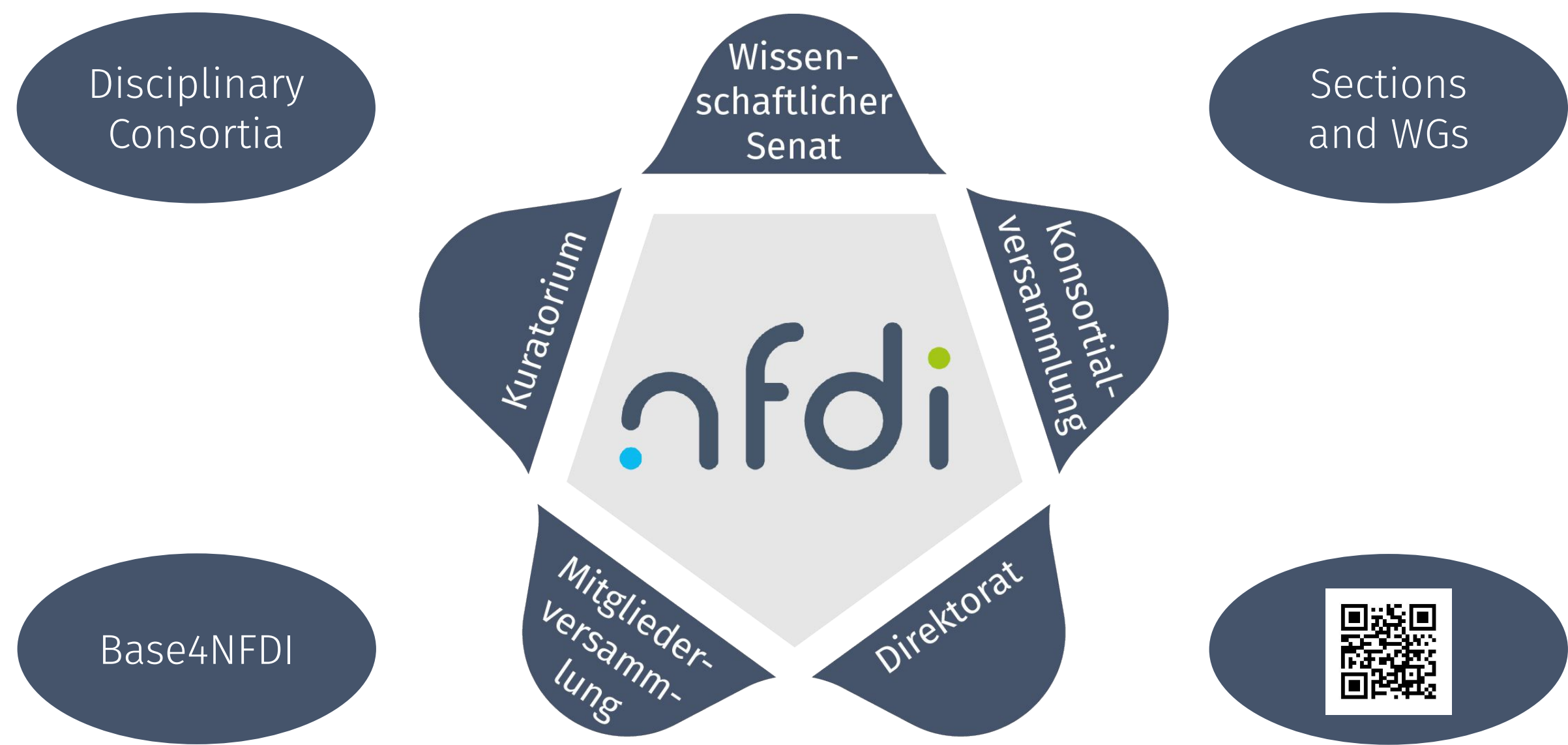
Research Software Engineering within the NFDI (INFRA-WG-RSE)

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What is the NFDI?

Mission: Research data are systematically accessed, networked and made usable in a sustainable and qualitative manner for the entire German science system.



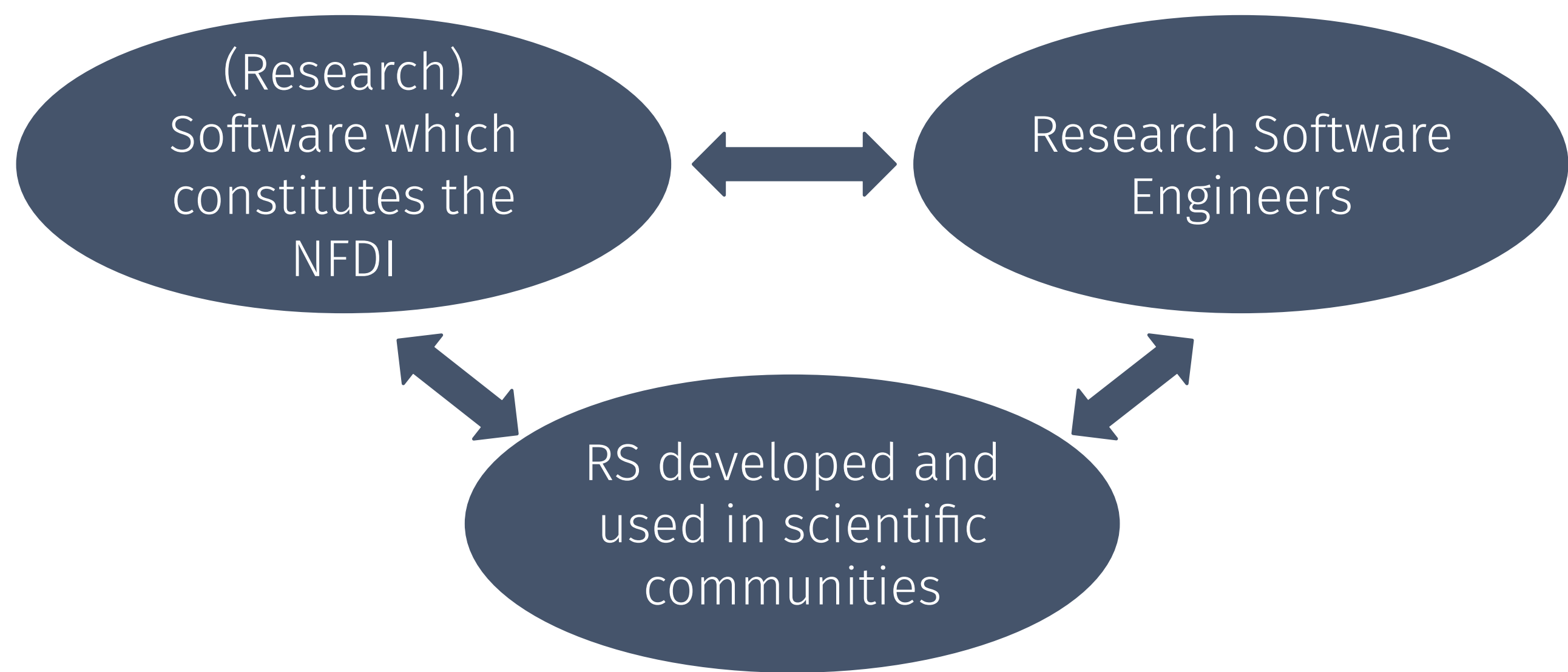
NFDI e.V. coordinates the activities for establishing a national research data infrastructure.

Disciplinary Consortia advance the NFDI for specific scientific disciplines, funded for up to ten years.

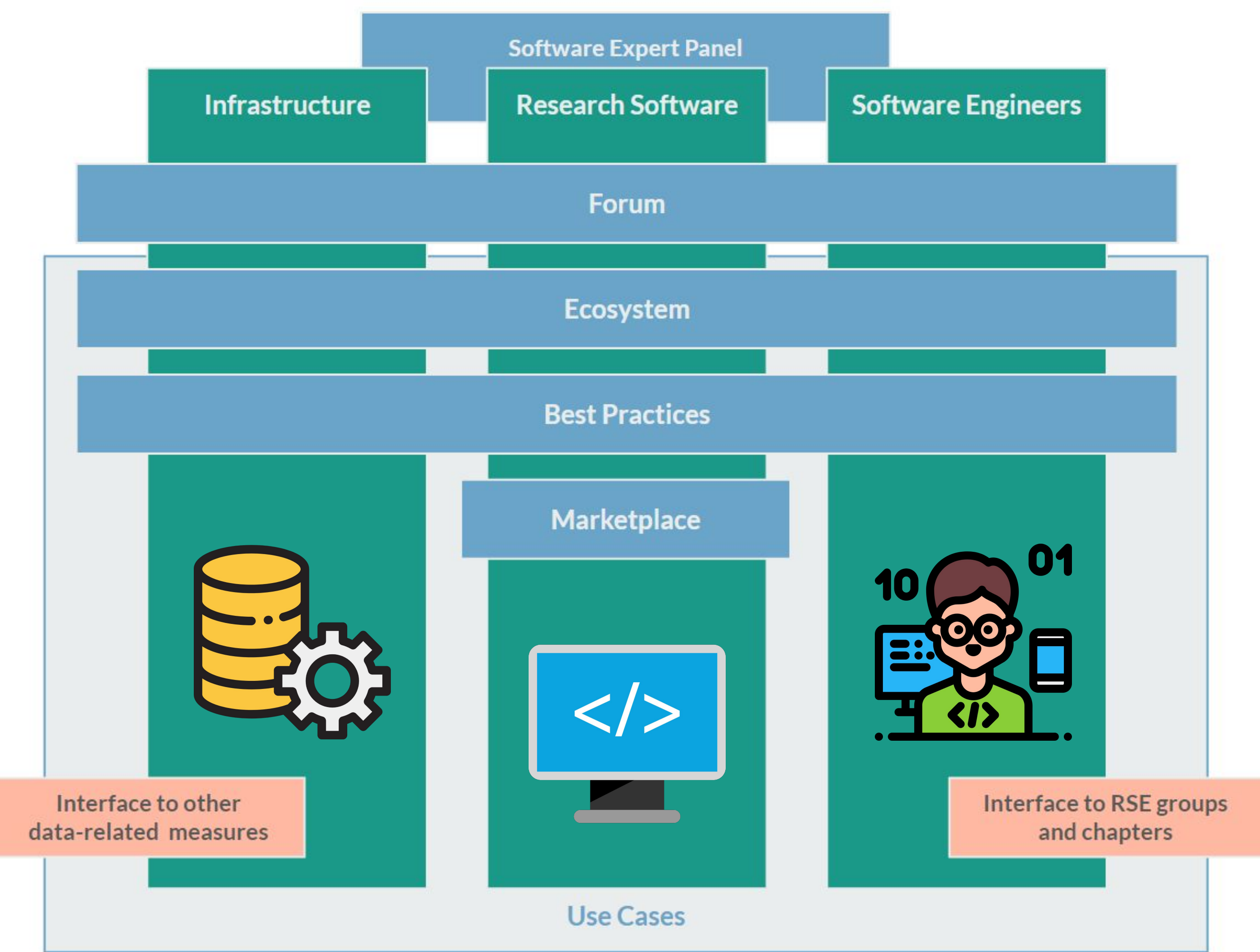
Sections and WGs are dedicated to overarching topics which are worked on across the disciplinary consortia.

Base4NFDI establishes a NFDI-wide basic service portfolio.

Research Software in the NFDI



The Working Group INFRA-WG-RSE



Goal: Brings the NFDI consortia together in all software-related aspects.

Working mode: Small subgroups work on individual tasks, monthly WG-wide coordination meetings.

Task “Jupyter Services”

- Bring together the **JupyterHub providers** in Germany.
- Collect and **list available hubs** at a common web site.
- Evaluate the possibility for a **NFDI-wide Jupyter service**.
- Has been substantiated in a proposal to **Base4NFDI**.



Task “Software Marketplace”

- Allow **accessing the portfolio** of research software brought together in the **NFDI**.
- Develop a **concept** for the Marketplace.
- Take into account **requirements** from the consortia and **available solutions**.
- Has been substantiated in a proposal to **Base4NFDI**.



Further Tasks

Training Materials: Create recommendations to spread good practices using available content.

Mission Statement: Develop a common mission statement “Software Engineering in the NFDI”.

Status Quo Survey and Report: Apply a RSE survey for a “Landscape Analysis” within the NFDI.

Overarching Initiatives: Ensure connectivity and compatibility with European and international efforts.

Software Ecosystem: Develop a draft strategy for establishing a software ecosystem within the NFDI.

Use Cases: Identify use cases for a cross-consortium, prototypical development of the software ecosystem.

Quality Criteria for Research Software: Identify and develop suitable, in particular easy-to-record, indicators.

Criteria for NFDI Components: Ensure reliability, compatibility and security; provide checklists / test suite.

Arbeitskreis NFDI within deRSE e.V.

The **Arbeitskreis NFDI** within **deRSE e.V.** creates the **hub** for NFDI related RSEs within the **distributed NFDI consortia**.



References

M. Hammitzsch, C. Busse, B. Flemisch, K. Förstner, T. Kalman, F. Löffler, M. Politze, D. Riehle (2022). Concept for Setting up a Working Group Research Software Engineering in the NFDI Section Common Infrastructures.

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