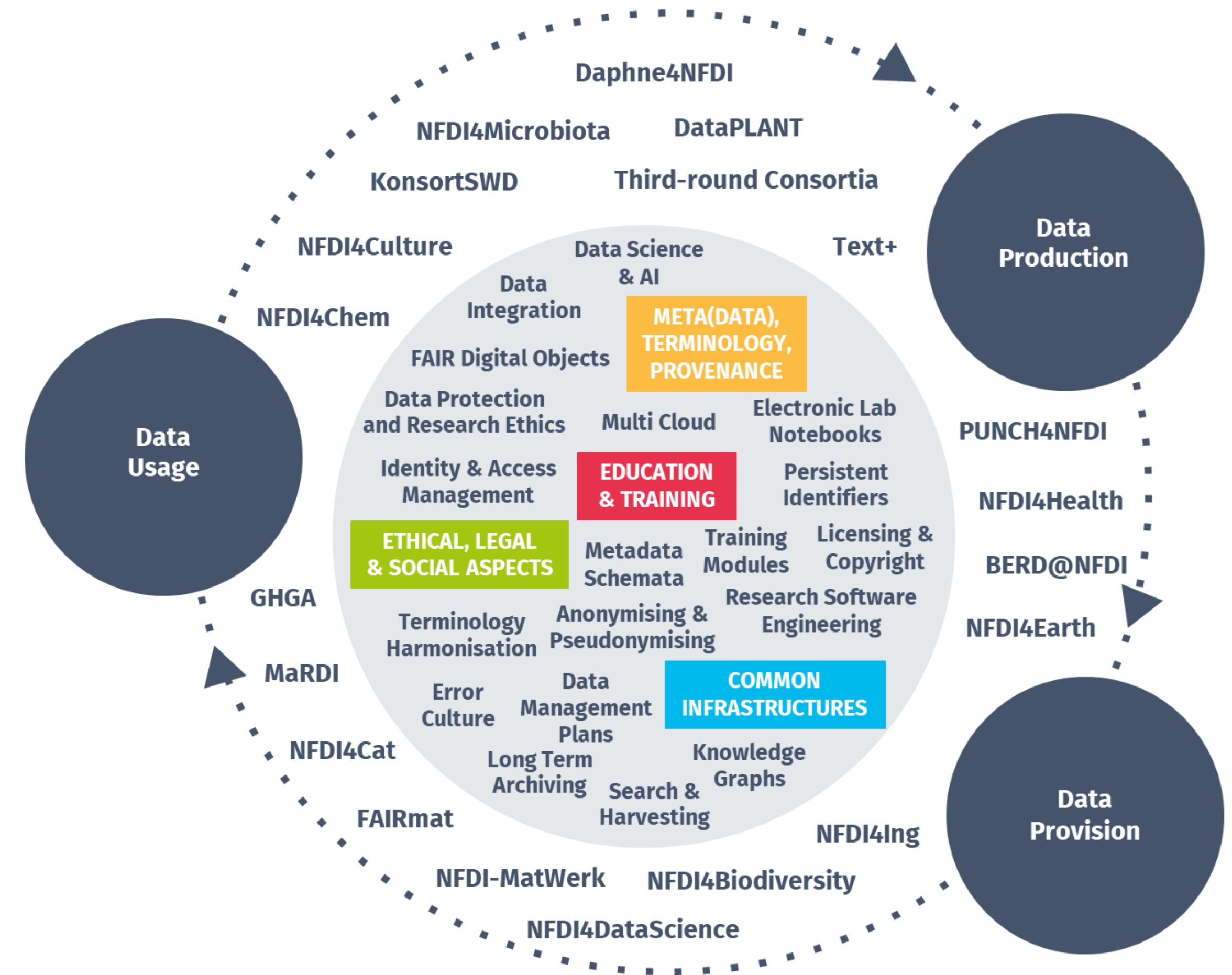


Accounting4NFDI

Federated resource accounting,
allocation tracking,
and alerts

ACCT4.nfdi

Accounting Infrastructures
for the German National Research
Data Infrastructure



Why Do We Need Accounting4NFDI?

The Challenge

Modern research increasingly relies on distributed infrastructure services:

- HPC and compute resources
- GPU clusters
- Storage systems
- Cloud services
- Software licenses
- Research data platforms

These resources are often provided by different organizations and used across multiple projects and consortia.

Key Questions

- Who is using which resources?
- How much has been consumed?
- Who provides these resources?
- How can usage be tracked and reported transparently?

What is Accounting4NFDI?

The Vision

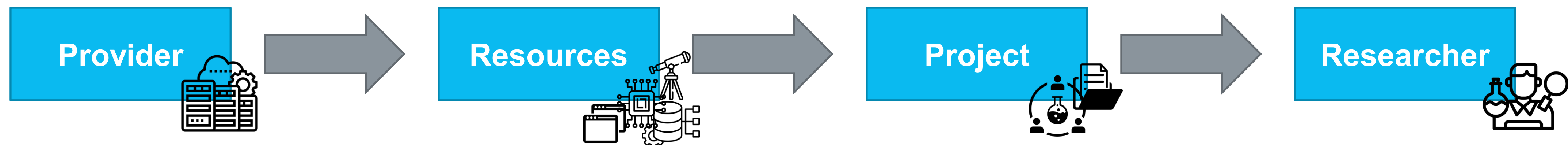
Accounting4NFDI provides a standardized framework for collecting, attributing, and reporting resource usage across the NFDI ecosystem.

Core Concepts

- Resource Accounting
- Allocation vs. Consumption
- Federated Infrastructure
- Transparency and Reporting

Accounting4NFDI aims to make these relationships visible and measurable.

Conceptual Flow



Accounting4NFDI Prototype Dashboard

Resource Management

- Available resources
- Quotas and allocations
- Operational status

Usage Tracking

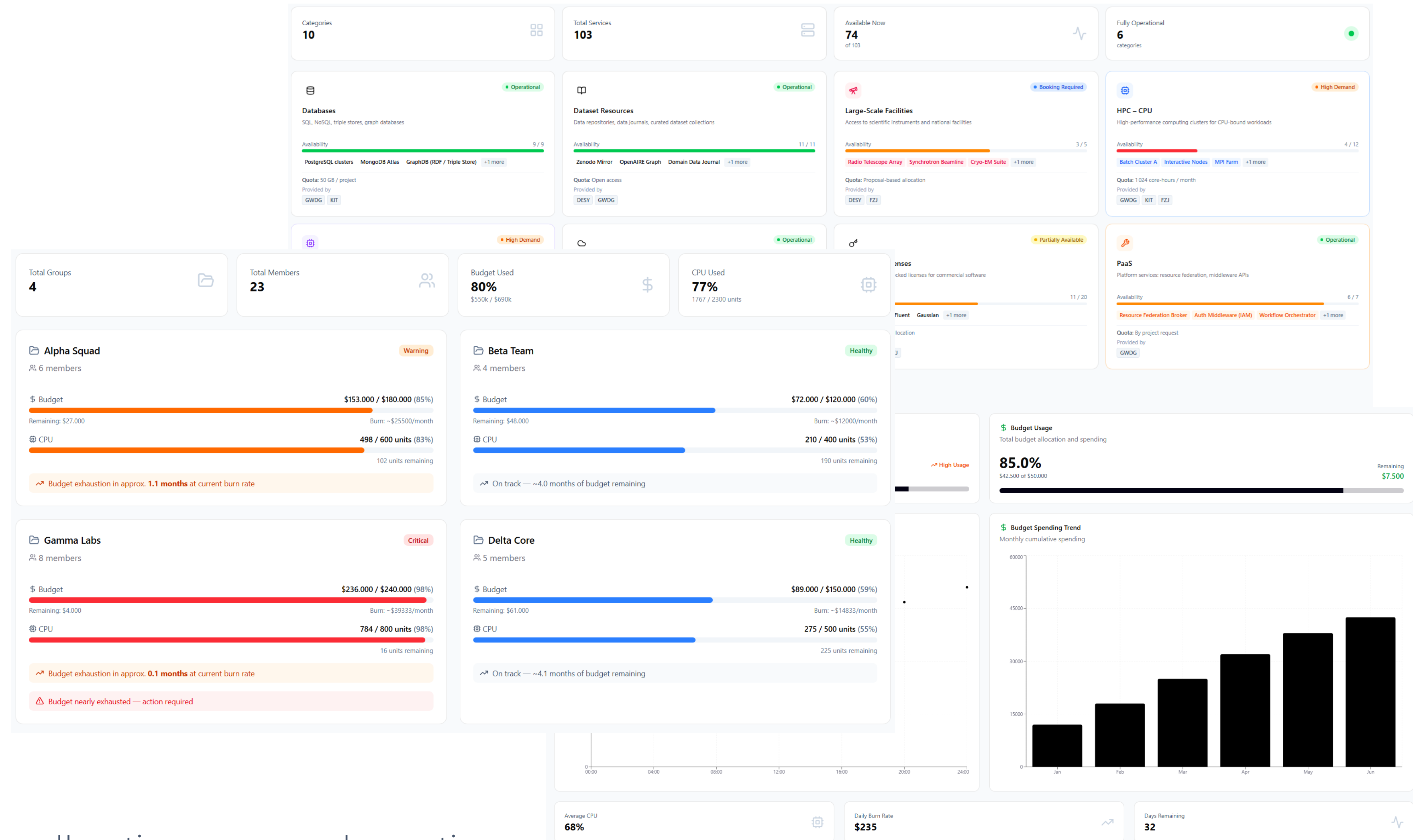
- CPU usage
- Budget utilization
- Usage trends over time

Project Accounting

- Project groups
- Resource consumption
- Budget monitoring

Goal

Provide a unified view of resource allocation, usage, and reporting.



We Are Currently Gathering Requirements
Accounting4NFDI is still in its early phase.

Our goal is to understand the needs of:

- NFDI consortia
- infrastructure providers
- service operators
- project managers
- Researchers

before defining standards and solution

Activities Already Started

- ✓ Analysis of existing accounting and resource tracking solutions
- ✓ Community survey distributed
- ✓ Stakeholder interviews planned and invitation slots available
- ✓ Analysis of existing accounting and resource tracking solutions
- ✓ Evaluation of existing standards and reusable approaches
- ✓ Initial collection of commonly used accounting metrics
- ✓ Identification of key resource types and usage indicators

Accounting4NFDI

Closing Message

How You Can Contribute

We would like to learn:

- Which resources you need to account for
- Which usage information is important to you
- Which reports you need
- Which challenges you face today

Get in Touch

✉ acct4nfdi-contact@gwdg.de

📅 Book a meeting with us

💬 Share your requirements and use cases



Making resource usage across NFDI

- transparent,
- attributable,
- and reportable.

Enables

- better planning,
- sustainability,
- and interoperability

for future research infrastructures.