



PARIS
LODRON
UNIVERSITÄT
SALZBURG

| ANC

ANC

Austrian NeuroCloud

FAIR Data Operations for Neuroscience

Supporting





Agenda for today

Objectives

Funding and collaboration

Short history

Team and governance

Certification and compliance

Platform and data organization

Metadata and dissemination

Lab integrations

Data operations

Current and future work



Objectives

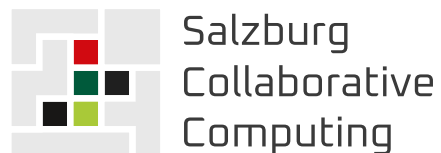
The Austrian NeuroCloud is a **FAIR-enabling platform** for sustainable research data management in (cognitive) neuroscience

Leverage **domain-specific expertise** to standardise and validate datasets
reducing manual effort for researchers

Enable seamless discovery, interoperability, and integration into broader research contexts through **continuous and comprehensive metadata curation**

Empower researchers to streamline data acquisition, storage, sharing, and processing without mastering FAIR principles or handling technical complexities

Funding and collaboration



Short history

Project phase (2020 - 2024, BMBWF 1.2M€)

GitLab as the platform, data organization, workflows prototyping, data onboarding

Digital Neuroscience Initiative (2021 - 2025, Land Salzburg, 0.6M€)

legal framework, knowledge representation, hardware

3 CPU nodes, 1 GPU node, 3 storage nodes

University of Salzburg (2025)

Performance Agreement with ministry, two **permanent Senior Scientist** positions

Salzburg Collaborative Computing (2025, BMBWF 2.4M, Land Salzburg 0.4M€)

hosting ANC hardware and services

55 CPU nodes, 15 GPU nodes, 24 storage nodes

Regular Operation (2025 - ∞)

Team and governance

Core Team

Florian Hutzler, **Mateusz Pawlik**, Barbara Strasser-Kirchweiger, Monique Denissen,
Andreas Huttegger, Thomas Konrad, Edvin Zukic

Ambassadors

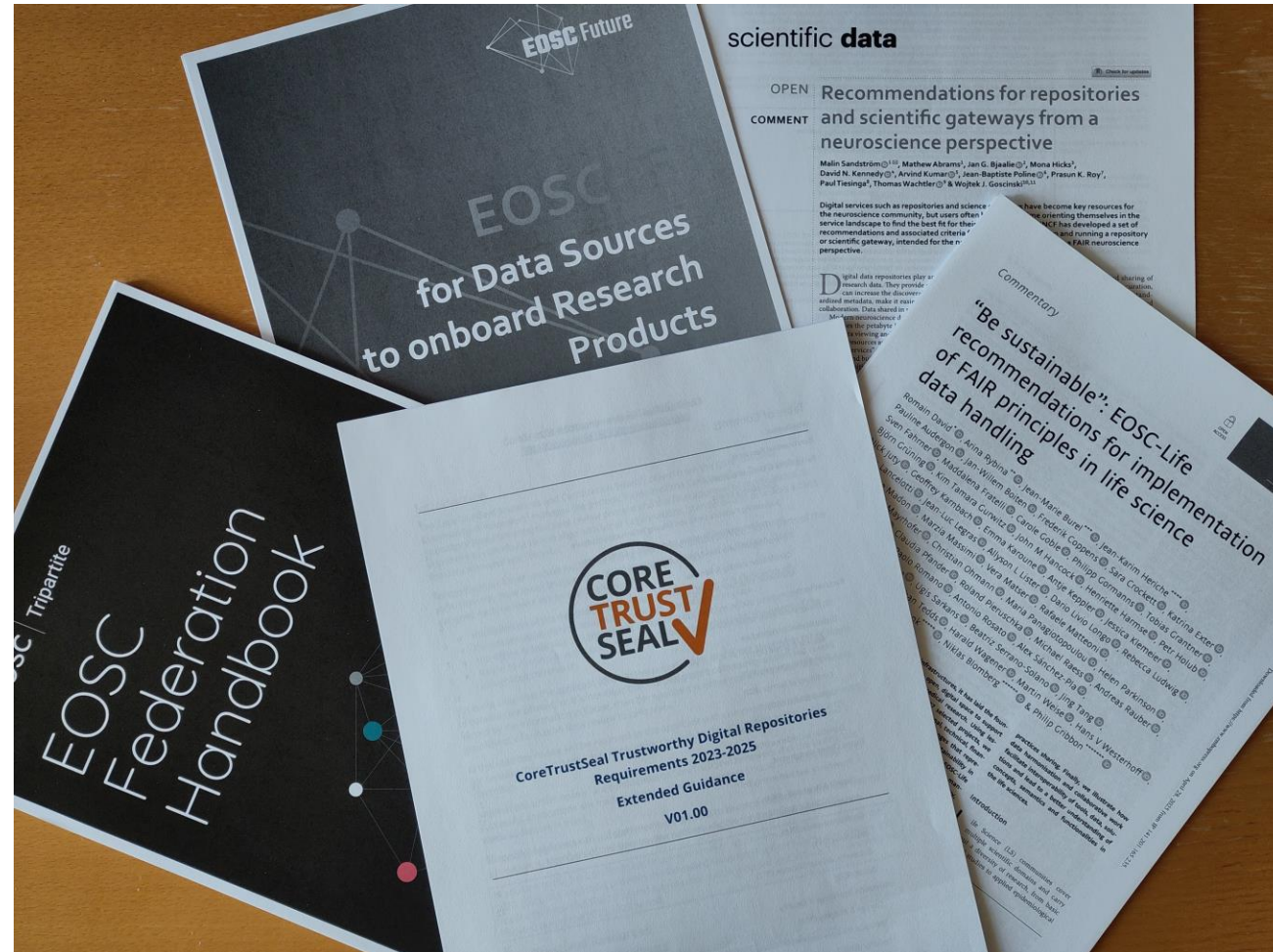
Eva Steckermeier, Kaja Benz, Bianca Löhnert

Community

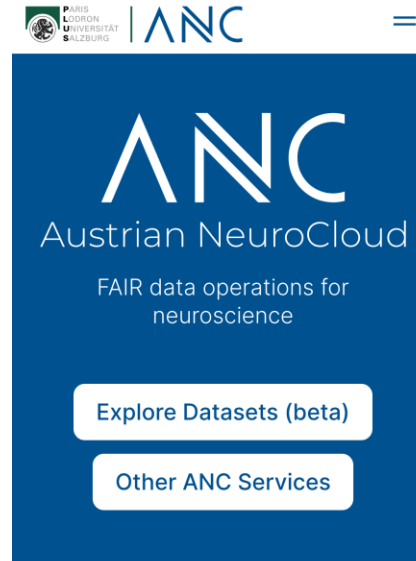
regular community meetings

user feedback, feature requests, development roadmap, news and reporting

Certification and compliance



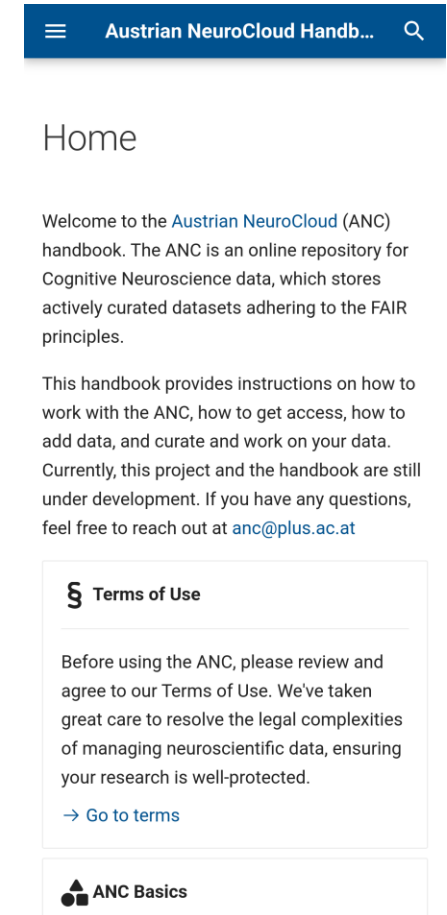
Platform and data organization



What

The ANC is a FAIR-enabling open repository for neurocognitive research data.

With the ANC, we bring forth a place to securely store neurocognitive research data and provide innovative tools and



<https://anc.plus.ac.at>

<https://handbook.anc.plus.ac.at>

Metadata and dissemination

Dataset metadata specification

explains metadata sources and dissemination channels

ANC Knowledge Graph and Data Interface

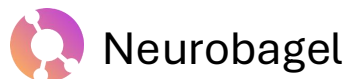
querying and discovery

Dataset website

dataset gateway, **FAIR** machine actionable metadata

Persistent identifiers (DOI)

DataCite Commons, OpenAIRE harvesting



Query ANC Datasets

Title

String (case-sensitive)

Abstract

String (case-sensitive)

Author

Given name, family name or ORCID (case-sensitive)

Clear

Search

All Datasets (25)

ANC language study

Mario Braun 

Florian Hutzler 

Martin Kronbichler 

Eva Steckermeier 

DOI: <https://doi.org/10.60817/39tp-6031>



Lab integrations

Living data

process data as it is acquired

Automated raw data ingestion

from scanner through conversion to ingestion

Data validation before merging

ensure data integrity, discard faulty acquisitions

Custom data operations

data validation, quality control



Data operations

Dataset-specific operations

- BIDS validation

- data stewardship: template compliance

- dataset website generation

Repository-wide operations

- metadata harvesting

- metadata curation

- hardware assignment



Current and future work

Certify with CoreTrustSeal

Engage with community

Onboard more datasets

Acquire funding for future development

Advance interoperability

Outreach to relevant communities, projects, research infrastructures

Automate data processing



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Thank you

We're looking forward to
collaborate with you

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