EBRAINS
Norway

On EBRAINS

EBRAINS (European Brain Research Infrastructures) is a **digital research infrastructure** that combines neuroscience and medicine with brain-inspired AI and computer technology. The EBRAINS research infrastructure emerged from the European Human Brain Project (HBP).

EBRAINS was included in the roadmap of the European Strategy Forum for Research Infrastructures (ESFRI) in 2021 and is coordinated by the EBRAINS AISBL (Association International Sans But Lucratif), based in Brussels. In total, services are provided across Europe via 11 national 'nodes'. **EBRAINS Norway** was formally established in 2025 by partners from the University of Oslo, Norwegian University of Science and Technology, and University of Bergen as part of the Norwegian Brain Initiative consortium. The Node builds on expertise and resources established through the EU Human Brain Project (2012-2023) and the Norwegian Neuroinformatics Node of the International Neuroinformatics Coordinating Facility, INCF (operative since 2006).

UNIVERSITY OF OSLO

NTNU
Norwegian University of Science and Technology

UNIVERSITY OF BERGEN

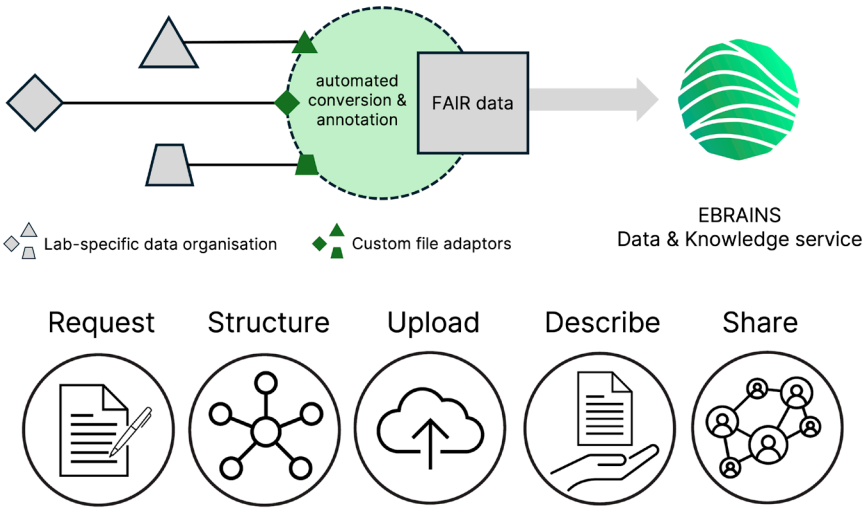
General overview:

- EBRAINS is a highly networked, digital research environment.
- EBRAINS enables co-design and cross-cutting approaches to complex, scientific questions of our time.
- EBRAINS addresses reproducibility in science by offering open and curated research data with collaboratively tested software workflows for data analysis.
- EBRAINS' modular structure enables customised applications, offers targeted extensions, high reproducibility and the flexibility to integrate new tools and services.

EBRAINS Norway

The Node supports open sharing and use of neuroscience data. Its aim is to aid neuroscientists in managing, sharing, (re)using, and analysing research data efficiently and in accordance with the data management policies of Norwegian Universities and the Research Council of Norway, in line with the FAIR principles to make data Findable, Accessible, Interoperable, and Reusable. Specifically, EBRAINS Norway offers information, documentation, tutorials, on-site guidance, and training in:

- Sharing experimental neuroscience data from human subjects and animal models
- Using and adapting the EBRAINS metadata model
- Developing formalised Data Management Plans
- Analysing data using EBRAINS tools and services



EBRAINS Norway provides tools and workflows for organising data and metadata following community standards (top) and contributes to the EBRAINS Curation Service for sharing organised data via EBRAINS.

User community

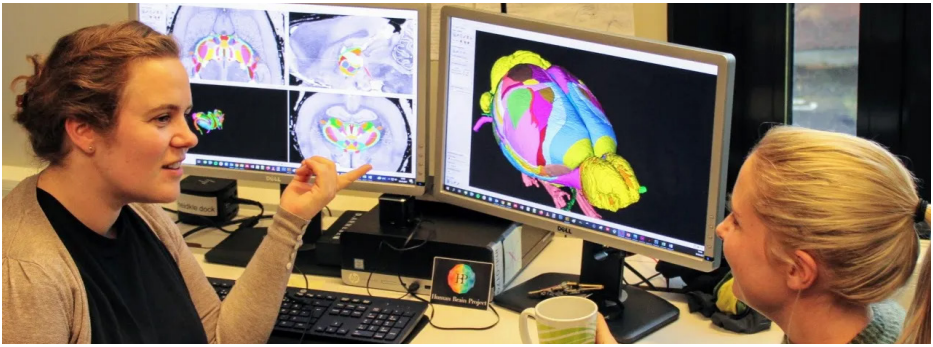
EBRAINS Norway is part of the Norwegian Brain Initiative (NORBRAIN), a national research infrastructure programme created to ensure that Norwegian scientists are given access to cutting-edge neurotechnology. EBRAINS Norway offers support, services, and workflows facilitating open sharing of data produced using the NORBRAIN infrastructure.

Transfer to industry and society

EBRAINS Norway aims to accelerate progress from basic research to medical and technical applications by making heterogeneous and complex neuroscience data interoperable and machine actionable for automated and machine-learning based analyses based on volumetric brain atlas resources. In addition to the open, community-facing tools and datasets provided through the EBRAINS RI, the Node is actively exploring opportunities to develop specialised, fee-based services tailored to industry and clinical partners — for example, data curation and integration pipelines, validated machine-learning model development and deployment, secure high-performance compute workflows, and regulatory-compliant data processing for translational studies. These specialised services would complement the open offerings by providing targeted expertise, guaranteed service levels, and configurable solutions that address time-sensitive or high-value use cases while preserving broad access to core EBRAINS resources.

Education and training

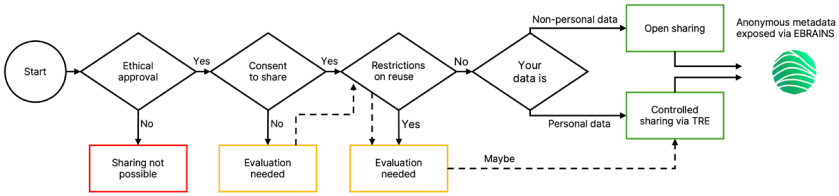
A key focus of EBRAINS Norway is to train next-generation researchers in the use of informatics standards, data management and workflows for efficient data integration, and analysis using three-dimensional mouse and rat brain atlases. The Node offers seminars, courses and hands-on training, in addition to customised support for researchers using EBRAINS tools and workflows. Education and training activities are developed and delivered in collaboration with the Norwegian Neuroinformatics Node – a node of the International Neuroinformatics Coordinating Facility (INCF).



The WHS rat brain atlas, developed by EBRAINS Norway in collaboration with researchers worldwide, is a comprehensive open-access volumetric rat brain atlas, covering all major systems of the brain with detailed annotations. (Photo: Cecilie Høstmark, University of Oslo)

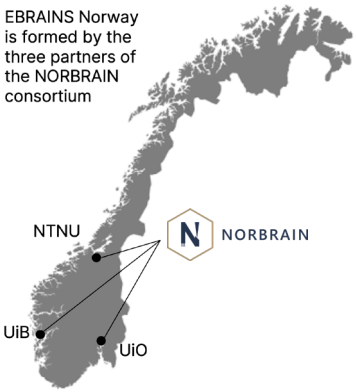
Networking

EBRAINS Norway encourages all Norwegian researchers interested in sharing their data via the EBRAINS infrastructure or using EBRAINS atlas-based tools for analysing experimental rat or mouse data to engage. The Node actively develops and adapts workflows for efficient data sharing, including solutions for controlled sharing of sensitive data. Guidance and support is available for researchers interested in applying standards to make their data more interoperable and re-usable.



GDPR and regulatory compliant sharing of sensitive data via European Trusted Research Environments linked to the EBRAINS Research Infrastructure.

Map of EBRAINS Norway



Join us

Norwegian researchers and research institutions interested in participating in Node activities, using EBRAINS resources, or connecting their tools and services to the EBRAINS ecosystem are welcome to contact EBRAINS Norway for more information.

Visit ebrains.eu

Create an EBRAINS account

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EBRAINS

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