EBRAINS RI, the future (and how to cooperate)

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HBP Partnering Projects Meeting: Status quo & outlook
5-7 September 2022 | Nijmegen, The Netherlands
What is on the menu today?

• EBRAINS
  • Research Infrastructure structure
  • timeline: where do we come from and where do we go?
  • Our focus areas

• How EBRAINS can support you
  • Examples of European projects EBRAINS is involved in
EBRAINS: a distributed Research Infrastructure

Bringing the best of the national expertise and creating synergies

Central Hub
EBRAINS association
Brussels

National Nodes
Group of local institutions providing key EBRAINS services

Facility Hubs

Coordination and management of RI, including access and operations; provision of some key services, communication and outreach; legal and DPO

Ensure service provision, develop research agendas (to be included in the National Node Plans), building vibrant scientific communities
Progressive inclusion in RI National Roadmaps

- **EBRAINS RI, progressively including National Nodes**
  - HBP SGA 2
  - HBP SGA 3 & E BRAINS RI
  - E BRAINS RI
  - E BRAINS RI SUSTAINABLE OPERATION

- **RI, ESFRI and project-based Funding**
  - Design
  - Preparation and Implementation
  - Operations

- Timeline:
  - 2018
  - 2020
  - 2022
  - 2024
EBRAINS Focus areas

Covering and ensuring equilibrium between three areas:

- Neuroscience
- Brain Medicine
- Brain-inspired technologies
As academic user, EBRAINS tools and service are available to you.

When submitting proposal, RI are an asset: consider us for your Data Management Plan.

EBRAINS RI supported projects

Drive RI development for brain science in Europe via EBRAINS.
Future orientation of EBRAINS projects

- Thematic focus on a research question
  - Language and the role of brain networks in learning
  - Understanding cognition and mental health through combined brain-behaviour phenotypes
  - Functional network architecture in ageing

- Service orientation
  - Building neurobiologically-grounded models of brain disorders
  - Creating a federated infrastructure for brain data

- Technological ambition
  - Digital Twin Technology
  - Integrating imaging and analysis to provide for better understanding of tissue in brain research
Projects working with EBRAINS

- Projects working with EBRAINS do one/multiple of the following:
  - Build workflows, using EBRAINS services, that push the limits of what’s possible for researchers in their field.
  - Help EBRAINS understand where a RI can help overcome technological bottlenecks.
  - Build resources for their community (e.g., reference data sets).

- We support groups that want to develop such projects by:
  - Help them map out how their goals align with the EBRAINS roadmaps
  - Help them design workflows and identify community, and EBRAINS, resources needed to develop and test them.
EBRAINS participates in new successful consortia

**eBRAIN-Health**

HORIZON-RIA
Duration: 48 months
Budget: 13 M€

eBRAIN-Health Actionable Multilevel Health Data (INFRA-TECH call)

**HORIZON-EIC**
Duration: 36 months
Cost: 2.5 M€

PHRASE: Personalised health cognitive assistance for rehabilitation system (EIC call)

Title: Personalised Health cognitive assistance for RehAbilatation SystEm

PHRASE: eodyne, CHARITÉ, EBRAINS, IBEC
EBRAINS participates in new successful consortia

European Health Data Space: a game-changer in accessibility to health data for research purposes.

EBRAINS involved in EHDS Pilot: towards federated infrastructure for brain health data

Proposed use case: Setting the stage for a precision medicine approach in treatment of mood disorders

And more to come!
Thank you

www.humanbrainproject.eu  www.ebrains.eu