

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



Co-funded by
the European Union

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



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

National Nodes

Group of local institutions providing key EBRAINS services

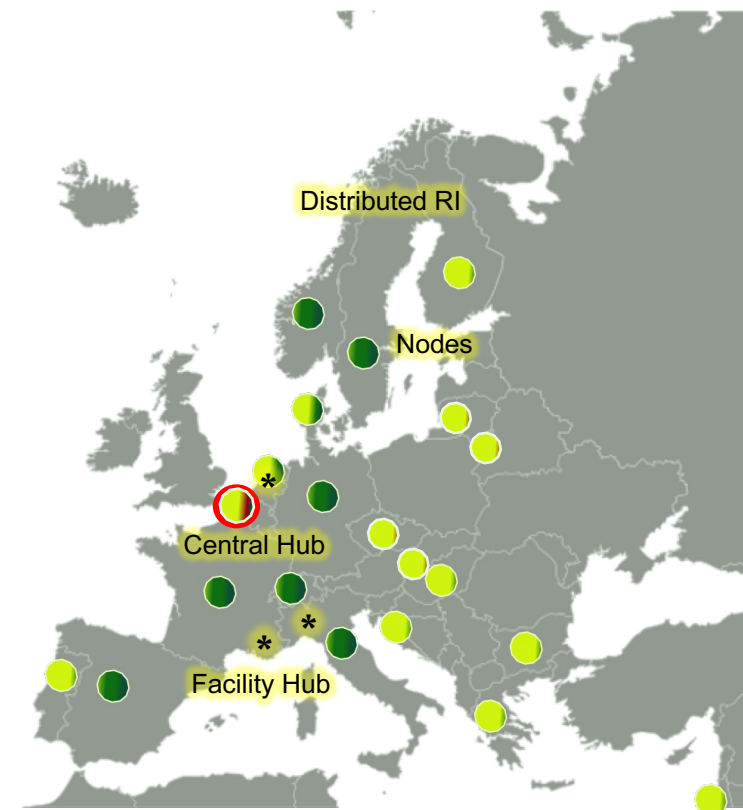


Local institutions

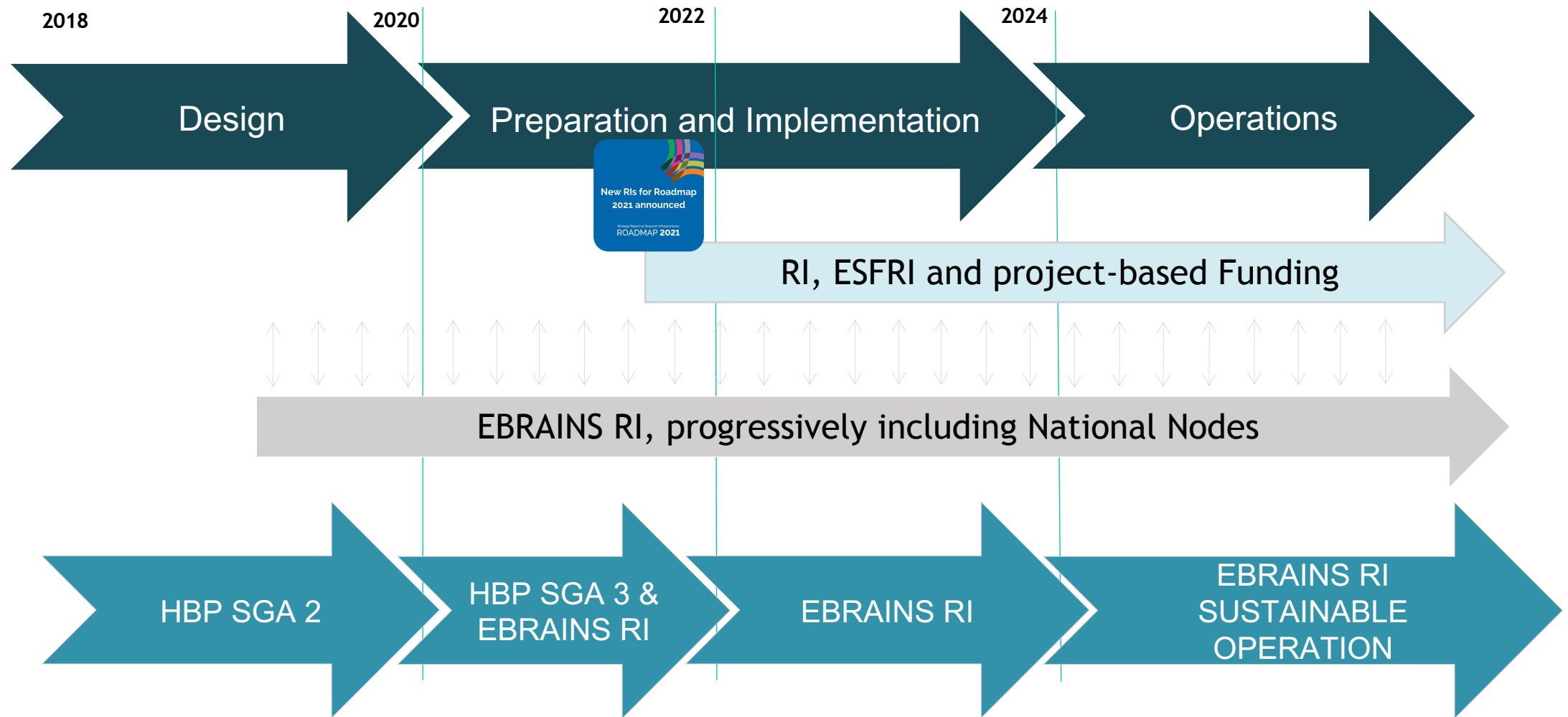
Facility Hubs



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



Progressive inclusion in RI National Roadmaps



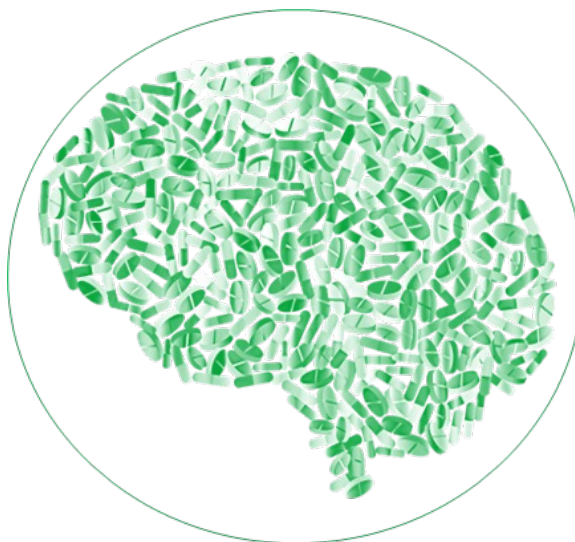
EBRAINS Focus areas

Covering and ensuring equilibrium between three areas:

Neuroscience



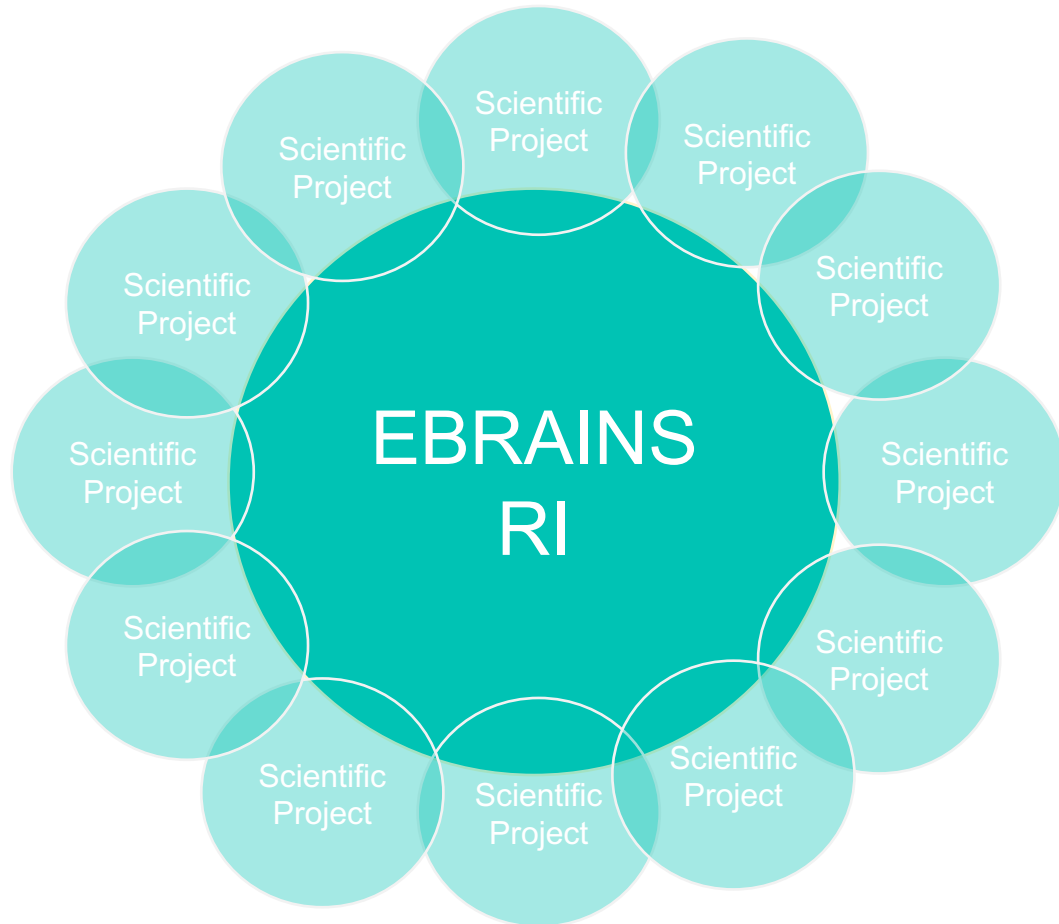
Brain Medicine



Brain-inspired technologies



HBP Partnering Projects and EBRAINS RI



Researcher

As academic user, EBRAINS tools and service are available to you.

Research group

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

Consortia

EBRAINS RI supported projects

Research orgs

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 (eg 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



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)

EBRAINS participates in new successful consortia

European Health Data Space



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

And more to come!

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

Thank you

www.humanbrainproject.eu

www.ebrains.eu



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