

HBP & Dutch Neuroscience: Shaping Collaborations

Welcome and Overview

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Human Brain Project & Dutch Neuroscience: Shaping Collaborations

Event Program

09:30 – 10:00	Registration & Coffee / tea	
10:00 – 10:10	Welcome and Overview	Cyriel Pennartz
10:10 – 10:25	The Human Brain Project: New perspectives for brain sciences	Katrin Amunts
10:25 – 10:45	National Engagement: Shaping Collaborations	Alastair Thompson
10:45 – 11:00	The EBRAINS infrastructure: integrated services addressing current and future challenges in brain research	Jan Bjaalie
Coffee / Tea		
11:15 – 11:30	The Brain Simulation Platform from the perspective of a large-scale point neuron network modeler	Sasha van Albada
11:30 – 11:45	HBP-user Neuroinformatics / Brainsimulation (SP5/6)	Mavi Sanchez-Vives
11:45 – 12:00	HPAC and FENIX: HPC platform for storage and computing in the HBP	Wouter Klijn
12:00 – 12:15	Medical Informatics Platform (SP8)	Viktor Jirsa
Walking Lunch: Booths & Posters		
12:45 – 13:00	HBP Brain modeling and simulation workflows in the EBRAINS Platform: integrated tools to create and investigate models of the brain	Michele Migliore
13:00 – 13:15	The Neuromorphic Computing Platform	Steve Furber
13:15 – 13:30	The Neurorobotics platform: Connecting model to function through embodiment	Yannick Morel
13:30 – 13:45	Brain-based robots: Understanding how the Brain, Body and Environment Interact to Generate Intelligent Behavior	Tony Prescott
Coffee / Tea		
	<i>Ijzaal</i>	<i>Studio</i>
14:00 – 14:15	Inge Huitinga, Dutch Brain Bank	Steven Scholte, University of Amsterdam
14:15 – 14:30	Niels Taatgen, Rijksuniversiteit Groningen	Pepijn van den Munckhof, Amsterdam University MC
14:30 – 14:45	Gerard Borst, Erasmus Medical Center	Frank van der Velde, University of Twente
14:45 – 15:00	Nick Ramsey, Utrecht University	Wilfred van der Wiel, University of Twente
15:00 – 15:15	Betty Tijms, Amsterdam University Medical Center	Maarten Kole, Nederlands Institute for Neuroscience
15:15 – 15:30	Fleur Zeldenrust, Radboud University Nijmegen	Yasin Temel, Maastricht University
Coffee / Tea		
15:45 – 16:45	Panel & Discussion	
	Alexander Heimmel, Pieter Roelfsema, Sasha van Albada, Cyriel Pennartz, Mavi Sanchez-Vives, Katrin Amunts	
16:45 – 18:00	Drinks: Booths & Posters	

Goals for this National Engagement Event

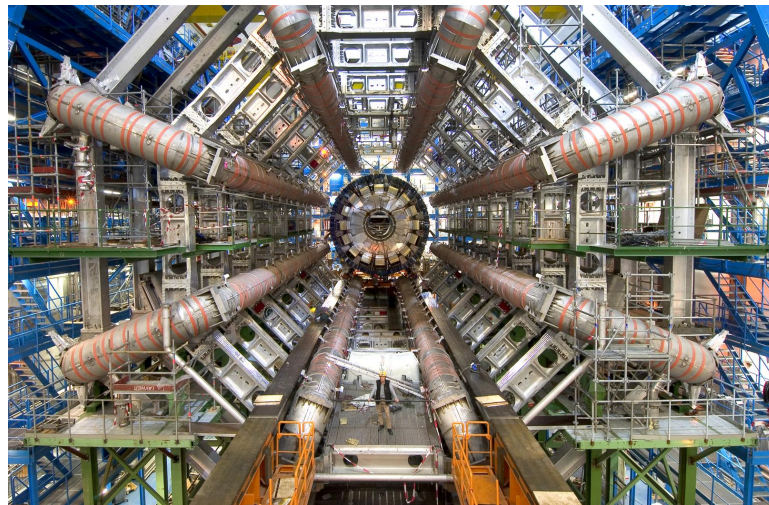
- Explore what the Human Brain Project and the EBRAINS infrastructure are about
- Illustrate current and future capacities of HBP Platforms, and how to apply them to Neuroscience
- Envision and shape collaborations: how may *your research* benefit from EBRAINS infrastructure?
- Take part in ongoing discussions:
 - How could you use services / facilities to be offered in the future?
 - What could you contribute in the future to a Dutch component fitting into EBRAINS?
 - Do you want to take part in the discussion on National Engagement?



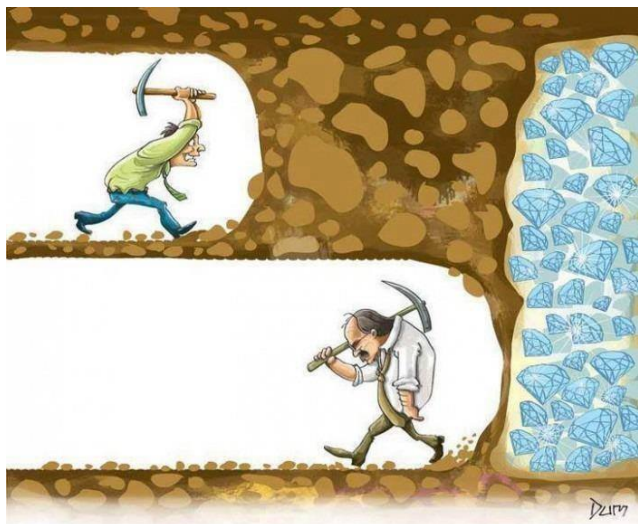
Think **Big!**

Why is there no CERN or ESA for Brain Research?

- No need for huge, unified instrument for brain measurements
 - Nonetheless: great needs for fundamental brain-mind research
 - With benefits to neurological & psychiatric patients, ageing society
 - and for Brain-inspired AI, ICT sector, education, public safety
- Catalyze and accelerate European Brain Research by common infrastructure



Need for data-basing and curation run by Neuroscience researchers



Springer Nature Research Data Team:

“Dear Cyriel,

Do you have research data you wish were easier to find and reuse?

Springer Nature (.....) recently extended its Research Data [Support service](#) to cover all published authors (.....). Through this service our Research Data Editors will make your data [easier to cite, share, find and reuse](#) – enabling you to gain the credit and recognition you deserve for your data.

Therefore (...) we would like to invite you to take advantage of the service ([currently free-to-use](#)) and make your data easier to cite, find and share.”

Timeline of Human Brain Project



RuP Start
Oct. 2013

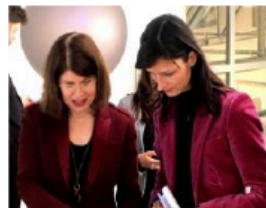
RuP End
March 2016

SGA1 End
March 2018

SGA2 End
March 2020

SGA3 End
March 2023

ESFRI-phase



Founding of AISBL



We are here

**Sustainable LE
running the RI**

LE: Legal Entity
RI: Research Infrastructure



ESFRI Roadmap: European Strategy Forum on Research Infrastructures

- Currently, HBP partners are applying for recognition of EBRAINS as a European Research Infrastructure
- Dutch neuroscience community may associate with this (via e.g. National Roadmap)
- What are your needs? How can Dutch neuroscientists contribute in a way that fits EBRAINS?
- Let us know if you are interested in potential future use of EBRAINS, or in providing a related competence



HBP Facility Hubs and Fenix

● Fenix

● Neuroscientific facilities including NMC and NR sites

● Specialized software support going beyond HLST

● EITN



EBRAINS



General Announcements

- First part of program: talks by current HBP participants – facilities (platforms) and applications in Neuroscience
- Second part: Neuroscientists working in the Netherlands (not currently in HBP) – 2 Parallels
- Walking lunch & posters: 12:15 – 12:45 (free of charge)
- Rob Heinsbroek, Marjolein Scholten and Eelco van Dongen present on behalf of NOW and ZON-MW
- Changes in the program (Tao Chen, TU Twente in Parallel session II)
- Please let us know if you are interested in EBRAINS-NL (or want to be removed from mailing list)
- Big thanks for Angelica da Silva Lantyer, Hanna Bodde, Tina Kokan, Sylvia Asslaber & staff at EPFL, Lausanne
- If you feel you would miss out on something today Feb. 14th

THANK YOU!



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