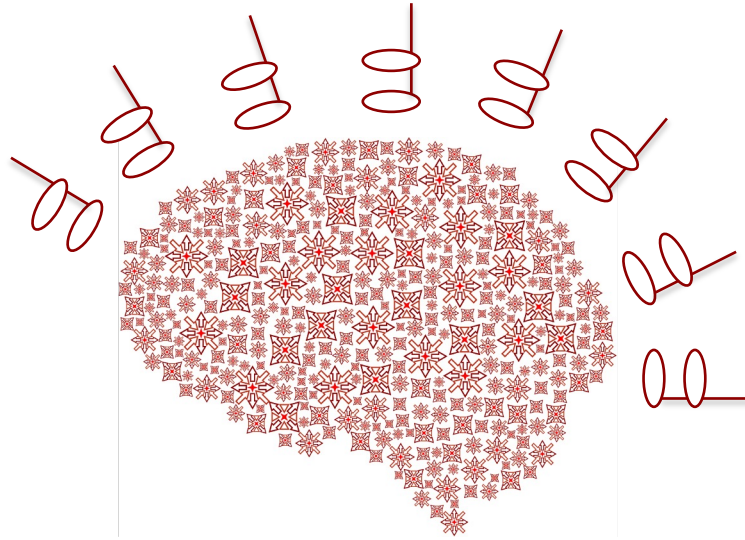
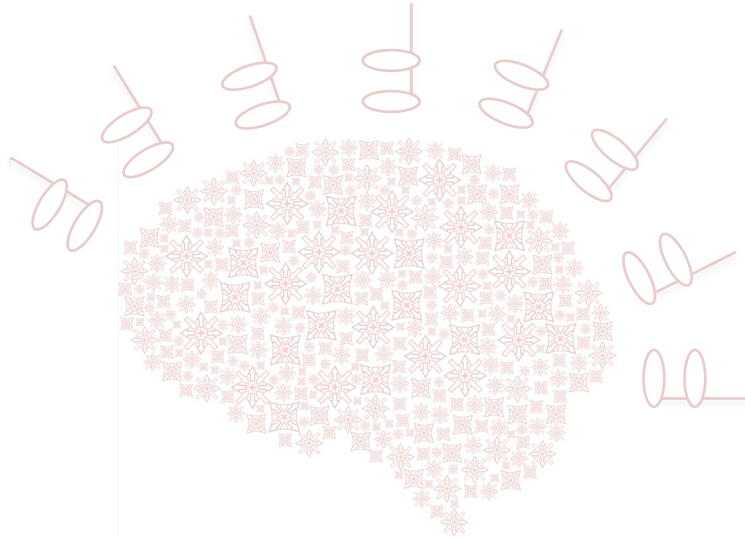


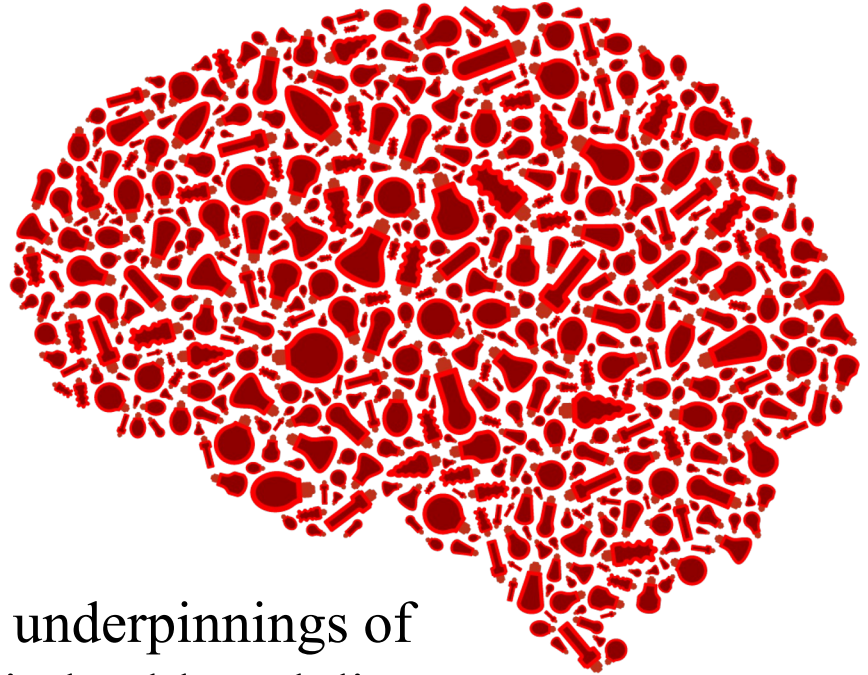


Donders Toolkit of Cognitive Neuroscience

Advanced MEG/EEG toolkit



Donders Institute, DCCN and Research Infrastructure



Understanding the mechanistic underpinnings of
human cognition and behavior in health and disease

Organization

Research institute (or “network”) that is part of the Radboud University Nijmegen

~1000 researchers, ~100 principal investigator groups

Four centres

- Donders Centre for Cognitive Neuroimaging (this)

- Donders Centre for Cognition (social science faculty)

- Donders Centre for Neuroscience (science faculty)

- Donders Community for Medical Neuroscience

Affiliated institutes/centers (on-campus)

- Max Planck Institute for Psycholinguistics

- Behavioural Science Institute

- Center for Language Studies

Focus on Research Themes

Language and
Communication



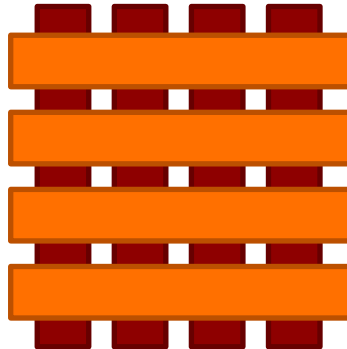
Perception, Action
and Control



Plasticity and
Memory



Natural computing and
Neurotechnology





Donders Centre for Cognitive Neuroimaging

Research facilities at the DCCN

MRI labs

3x 3T in Nijmegen, including EEG
7T in Essen, Germany
14T to come

MEG lab

CTF 275 channel system
FieldLine 32 sensor OPM system

EEG labs

baby lab, up to 64 channels
adult lab, up to 128 channels

Brain stimulation

FUS
TMS, including EEG
tACS/tDCS

Behavioural labs

9 cubicles
3 larger labs

High-performance compute cluster

2500 cores
25 TB RAM
1 PB disk storage

Donders Centre for Cognitive Neuroimaging

Research facilities at the DCCN

All infrastructure is shared among PI groups and with the other Centres

Centre-wide ethical approval for “standard” studies with healthy adults

Internal review of research projects in the Project Proposal Meeting (PPM)





Donders Centre for Cognitive Neuroimaging

Research projects at the DCCN

Project Proposal Meeting

- (1) Title slide: plus all researchers and institutions involved, including the responsible PI*
- (2) Background: 1 slide*
- (3) Experimental Question: 1 slide*
- (4) Design/Materials/Procedure/Subjects: max 2 slides*
- (5) Data analysis: 1 slide*
- (6) How outcomes are informative for the central issue: 1 slide*

Following presentation at PPM and approval, lab time and disk quota is allocated and the researcher can start.

Pilotting is possible prior to that

Donders Centre for Cognitive Neuroimaging

Research facilities at the DCCN



