SFB/TRR 135 & NOWA

2nd NFDI Neuroscience Community Workshop
Dr. Thorsten Arendt
Magdeburg, December 3, 2019
SFB/TRR 135: Cardinal mechanisms of perception

Mechanisms

Prediction

VR/Motion tracking

Methods

Valuation

Eye tracking

20 projects

24 PIs

EEG

31 scientists

Categorization

fMRI

>200 TB of data

12/3/2019
NOWA: NeurOscientific Workflow Assistance

- Data management plans and evaluation of workflows
- Software toolset for workflow assistance
- Training in research data management

20 projects
31 scientists
>50 TB of data

VR/Motion
Prediction
Mechanisms
Categorization

12/3/2019
NOWA combines initiatives and tools

Sync & Share Platform

RDM Planning Tool

Research Data Repository

24 PIs

31 scientists

>50 TB of data
NOWA combines initiatives and tools
Challenges: Heterogeneity and diversity of ...

- **Locations**
  - Giessen, Marburg, Leipzig, Frankfurt/Main, ...

- **Organizational structures**
  - Universities, departments, clinics, ...

- **Research methods**
  - Motion tracking, eye tracking, EEG, fMRI, neurophysiological studies, DNN, ...

- **Research data**
  - Behavioral data, eye tracking data, EEG data, fMRI data, video recordings, audio recordings, neurophysiological recordings, code, ...

- **Data volume per project**
  - 0.5 TB ➞ 140 TB

- **Usage of standards** (and awareness) (and existence)
  - tidy data sets, BIDS, EEG-BIDS, coding standards, …
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