

# EEGManySteps Kickoff

presented by:

Nadine, Sein, Yahya & Julius

# Recap and what happened since MOBI (Julius)

- Start project across multiple labs to understand the influences of software and hardware in mobile EEG
  - Understand reproducibility of our results
  - Maybe derive recommendations or guidelines for good practice in MoBI (hardware & software)
1. Website with **goals and project structure**
  2. Meeting with EEGManyPipelines team
  3. Role assignments for EEGManySteps
  4. Plans to open project to the general public

# Agenda

- 1) Finalizing the temporary members of the steering committee and the advisory board.
- 2) ~~Discussing the Methodology and work packages (WP).~~
- 3) Organizational aspects:  
domain name, regular meeting times, communication, public announcement.

# Questions we do NOT answer in today's meeting, but in the future

- Exact research questions for the EEGManySteps
- Existing vs. new datasets
- Define the exact content of each work package

# Tentative Role Definitions (Nadine)

## **Steering Committee Members**

Expected to attend monthly meetings and take on specific tasks within the project.

*Minimal requirement: Authorship in one or more peer-reviewed MoBI paper or extensive experience in similar open science projects. At least 1 year.*

## **Advisory Board Members**

Provide background support and feedback during quarterly/biannual meetings to guide the project's direction.

*Minimal requirement: First or last author in a peer-reviewed MoBI/Biomechanics paper or extensive experience in similar open science projects. At least 1 year.*

## **[Data Set Contributors]**

Provide access to EEG datasets recorded in mobile settings. Detailed requirements are still to be determined.

*Minimal requirement: Responsible for the acquisition, curation, or formatting of mobile EEG data.*

## **[Analysts]**

Participate in analyzing specific research questions related to mobile EEG data.

*Minimal requirement: Experience with the analysis of biomechanical or MoBI data.*

# Current Members

**Steering Committee:** Aitana Grasso Cladera, *Anna Wunderlich*, *Claudia Gianelli*, Elena Cesnaite, Janna Protzak, Julius Welzel, Nadine Jacobsen, Sein Jeung, Yahya Seyed Shirazi, Yu-Fang Yang

**Advisory Board:** Benedikt Ehinger, Dan Ferris, Edmund Wascher, Fiorenzo Artoni, *Helen Huang*, John Iversen, Klaus Gramann, Mathias Vukelic, *Pierfilippo De Sanctis*, Scott Makeig, Stefan Debener, *Tjeerd Boonstra*, Tomer Yona

**[Dataset Contributor]:** Anna Wunderlich, Benedikt Ehinger, *Deepak Ravi*, Daghan Piskin, Janna Protzak, Klaus Gramann, *Karina Maciejewska*, Nadine Jacobsen, Sein Jeung, Simon Ladouce, Tjeerd Boonstra, *Zhongke Mei (Matt)*

**[Analyst]:** Benedikt Ehinger, Deepak Ravi, Daghan Piskin, Janna Protzak, *Karina Maciejewska*, Simon Ladouce, *Zhongke Mei (Matt)*

# Potential work packages (Yahya)

**WP1:** Experimental protocols ([existing](#)) and data collection (new)

**WP2:** Data curation (EEG & Motion in BIDS + sensor locations)

**WP3:** Preprocessing (current standards)

**WP4:** Analysis (gait vs experimental markers)

**WP5:** Future recommendations

# Domain name (Sein)

Suggestions:

1. EEGManySteps.org
2. github.com/EEGManySteps

# Regular meeting times

**Steering Committee Members:** Monthly

**Advisory Board Members:** Quarterly/ bi-annual

# Communication

**Mail, Mattermost, Discord**



# Potential funding

- What does EEGManySteps need?
- 100% shared PostDoc positions (4 x 25%)
- Budget for outsourcing software

# Next steps

- Ask publicly for participation via mailing lists (EEGLab, fieldtrip, MNE)
- Everyone can propose goals
- SC and AB will shape goals
- SC defines WPs which can address the goals
- Identify potential funding opportunities

## Planned milestones:

1. Position paper (2024/2025)
2. Apply for funding (early 2025)