

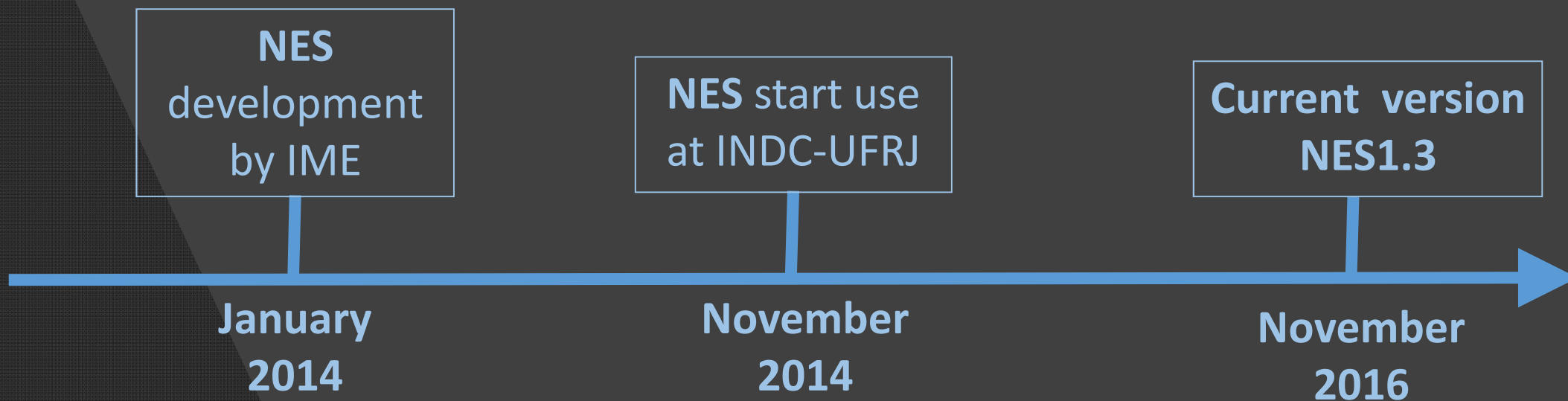
# THE EXPERIENCE OF MULTIDISCIPLINARY DATABASING IN TRAUMATIC BRACHIAL PLEXUS INJURY

Juliana Maia e Cristiane Patroclo  
Novembro/2016

NeuroMat

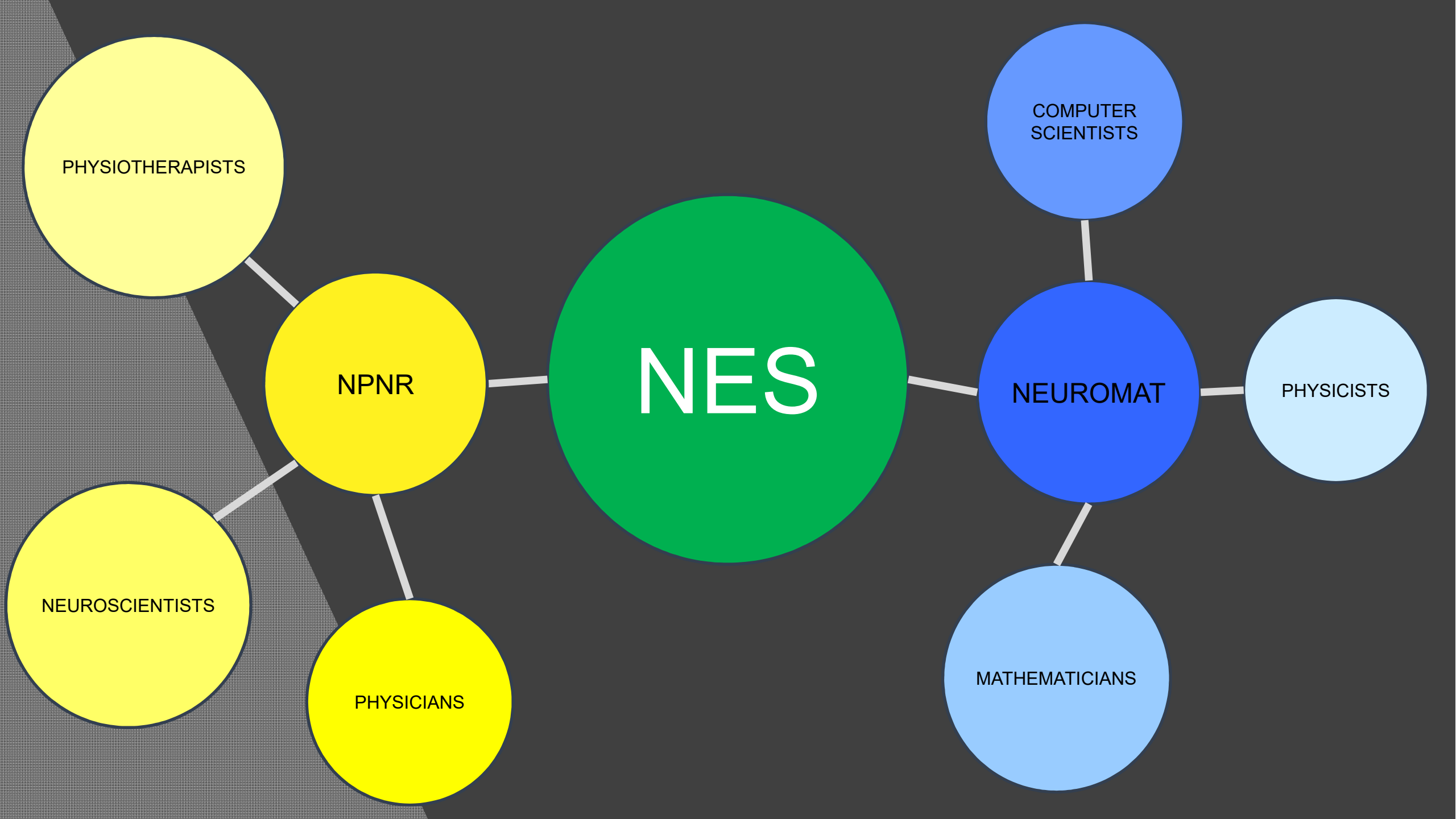


# TIMELINE



# NEUROSCIENCE EXPERIMENTS SYSTEM (NES)

- Free, open source software for the management of CLINICAL and EXPERIMENTAL DATA
- Stores detailed descriptions of experimental protocols and their RAW DATA and METADATA
- Can integrate in a **centralized repository data** from research laboratories, groups, or projects
- Manages **different types of data**: clinical, electrophysiological, surveys, etc.
- It is available at <https://github.com/neuromat/nas>



NES

NPNR

NEUROMAT

PHYSIOTHERAPISTS

COMPUTER SCIENTISTS

NEUROSCIENTISTS

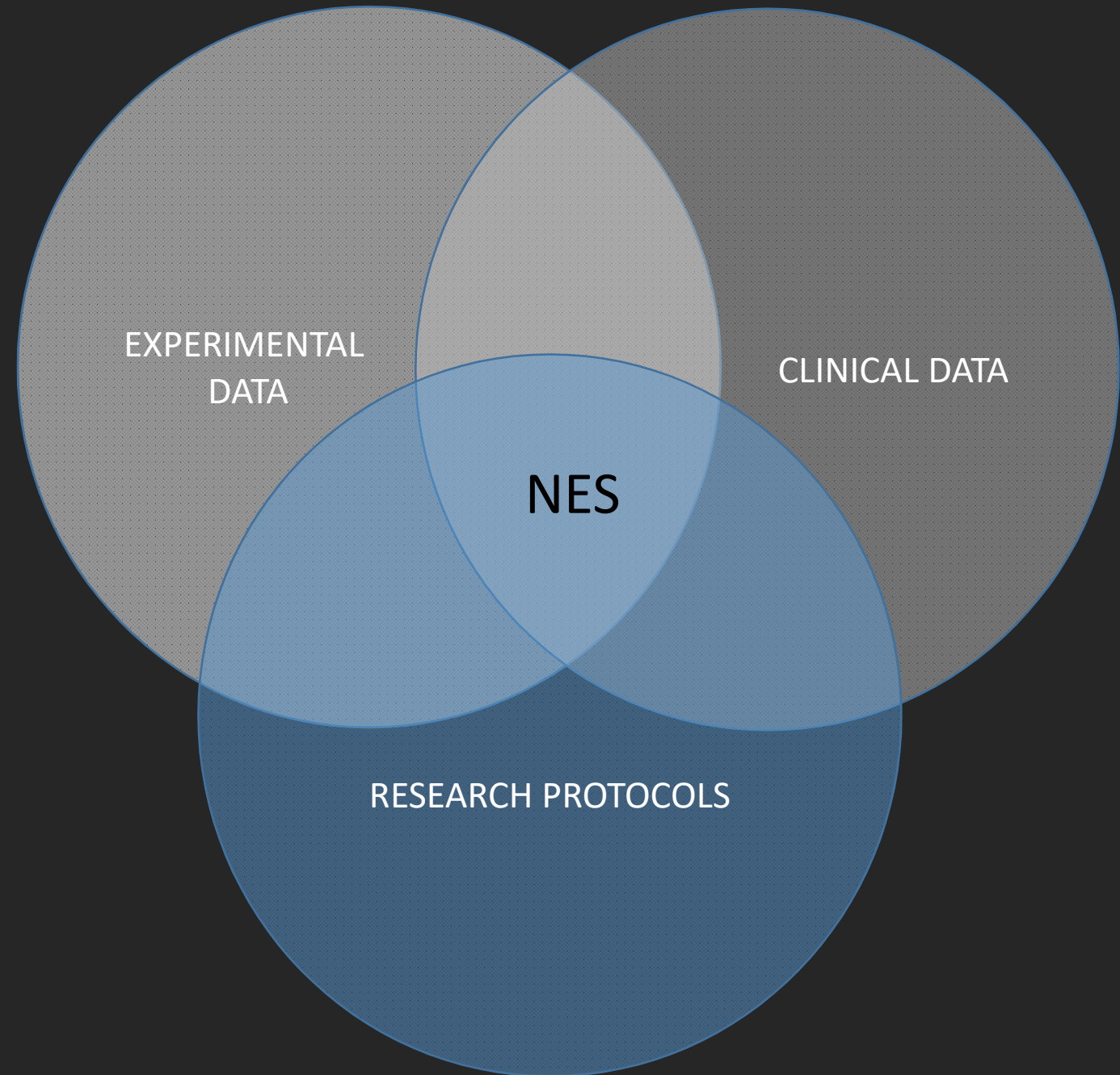
PHYSICISTS

PHYSICIANS

MATHEMATICIANS

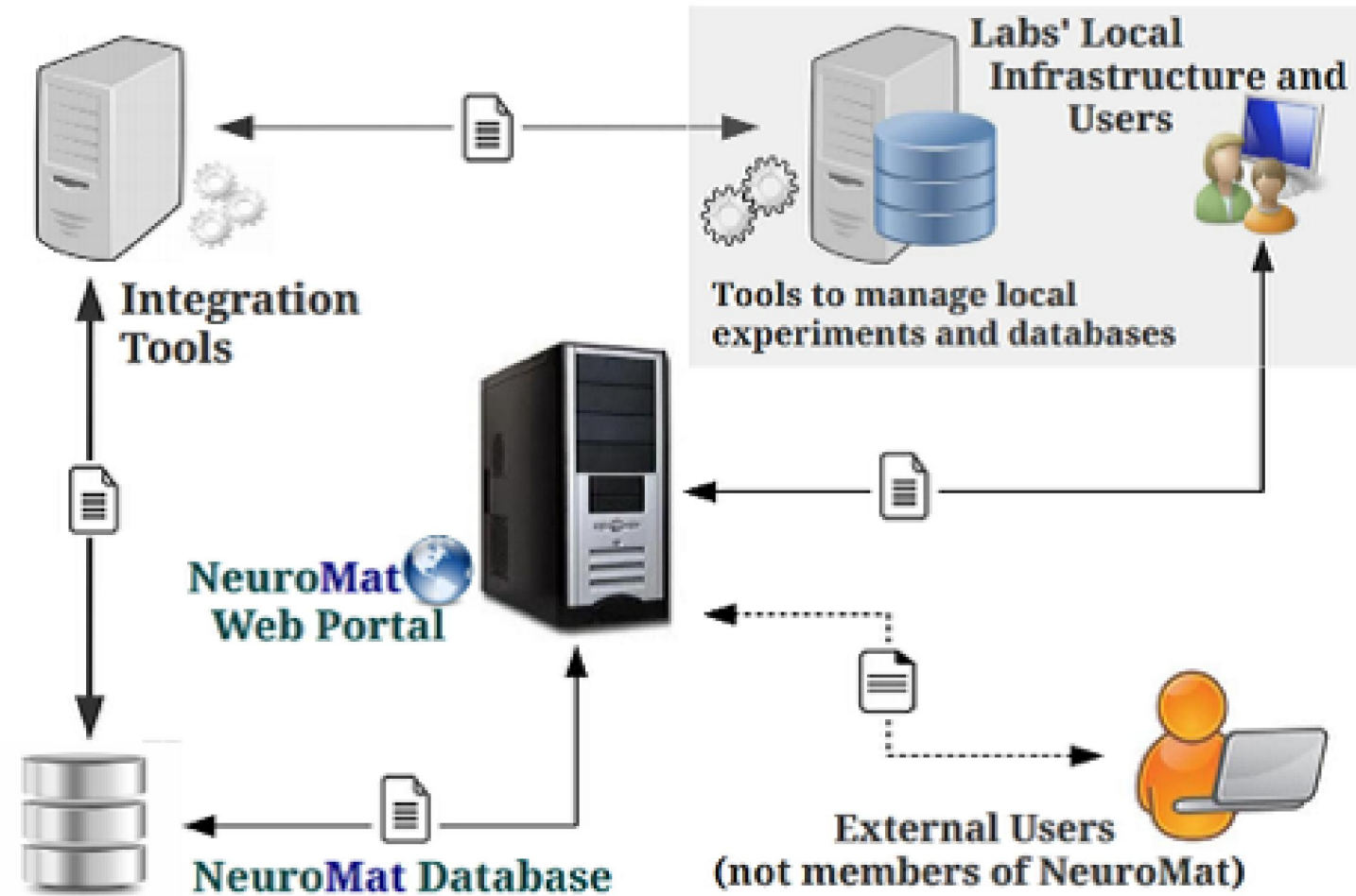
## NES' OBJECTIVES

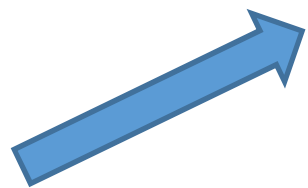
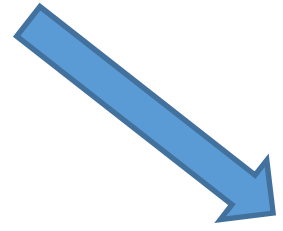
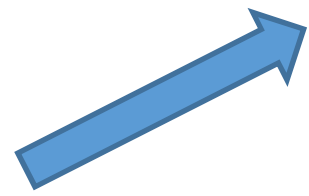
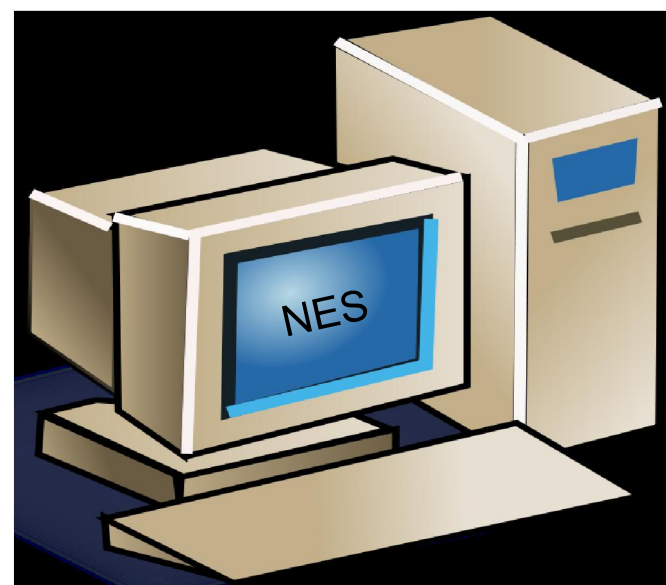
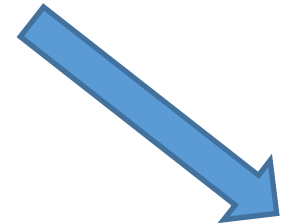
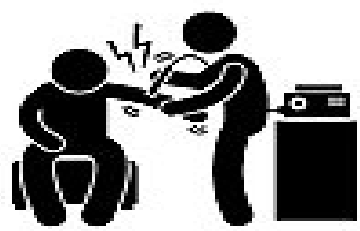
Put in a "common ground"  
clinical, functional,  
electrophysiological and  
experimental data



# NES' OBJECTIVES

Store, manage and make data available





# NES' FUNCTIONALITIES

The screenshot displays the NES web application interface. At the top, a browser address bar shows the URL `nes.biof.ufrj.br/patient/find`. The application header includes the logo "NES" on the left and language and user selection options ("English" and "juliana") on the right. A left-hand navigation menu lists several options: Home, Participants (highlighted in blue), Studies, Questionnaires, Users, Export, and Set up. The main content area is titled "Search participant" and features a search input field with the placeholder text "Type the name or the CPF to seek a participant". To the right of the search field, it indicates "131 registered participants". Below the search field is a blue button labeled "Insert new".



# NES' FUNCTIONALITIES

← → ↻ | nes.biof.ufrj.br/patient/6/?currentTab=1 | 📖 ☆ | ☰ ✎ 🗑️ ⋮

NES English ▾ juliana ▾

Home Personal data **Social demographic data** Social history Medical evaluation Questionnaires

Participants

Studies

Questionnaires

Users

Export

Set up

**Basic Information**

**Natural of**

**Citizenship**

**Profession**

**Occupation**

**Do you receive some benefit from the municipal level, state or federal government?**

Yes  No

**What form of payment of the treatment performed?**

# NES' FUNCTIONALITIES

 Home

 Participants

 Studies

 Questionnaires

 Users

 Export

 Set up

## List of questionnaires

**Questionnaire**

**Entrance evaluation**

593324 - Avaliação Cirúrgica - Unificada

256242 - Avaliação de Entrada - Unificada

969322 - Avaliação de Seguimento - Unificada

345282 - DASH

148234 - DN4

471898 - Escala de Equilíbrio de Berg (Myiamoto et al., 2004)

373421 - Instrumento de Avaliação da Funcionalidade de Indivíduos Adultos com Lesão Traumática do Plexo Braquial

616949 - Intensidade e Localização da Dor

115129 - Inventário Breve de Dor

627636 - McGill



# NES' FUNCTIONALITIES

[Home](#)

[Participants](#)

[Studies](#)

[Questionnaires](#)

[Users](#)

[Export](#)

[Set up](#)

Home / Set up

## Basic registers

Material	8
Muscle	17
EEG electrode localization system	1
EMG placement system	1
TMS localization system	0
Manufacturer	5

## Equipment / Device registers

Electrode model	5
EEG electrode net / Cap	1

# NES' FUNCTIONALITIES

[Home](#)

[Participants](#)

[Studies](#)

[Questionnaires](#)

[Users](#)

[Export](#)

[Set up](#)

[Home](#) / [Export](#) / Structure and fields selection

## General Information

### Directory Structure

- Per participant
- Per questionnaire

### Headings

- Question code
- Full question text
- Abbreviated question text

### Responses

- Answer codes
- Full answers

## Questionnaire information

[0](#) 271192 - The assessment of handedness: Edinburgh Inventory

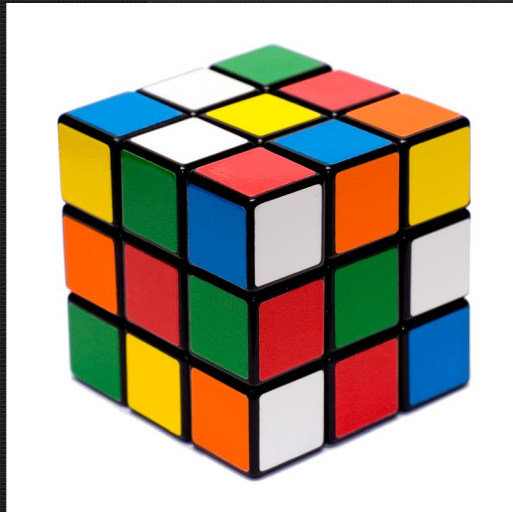
[0](#) 593324 - Avaliação Cirúrgica - Unificada

[0](#) 345282 - DASH



# NES' CHALLENGES

Longterm database feeding



Interface customization to different groups and contexts

**THANK YOU.**