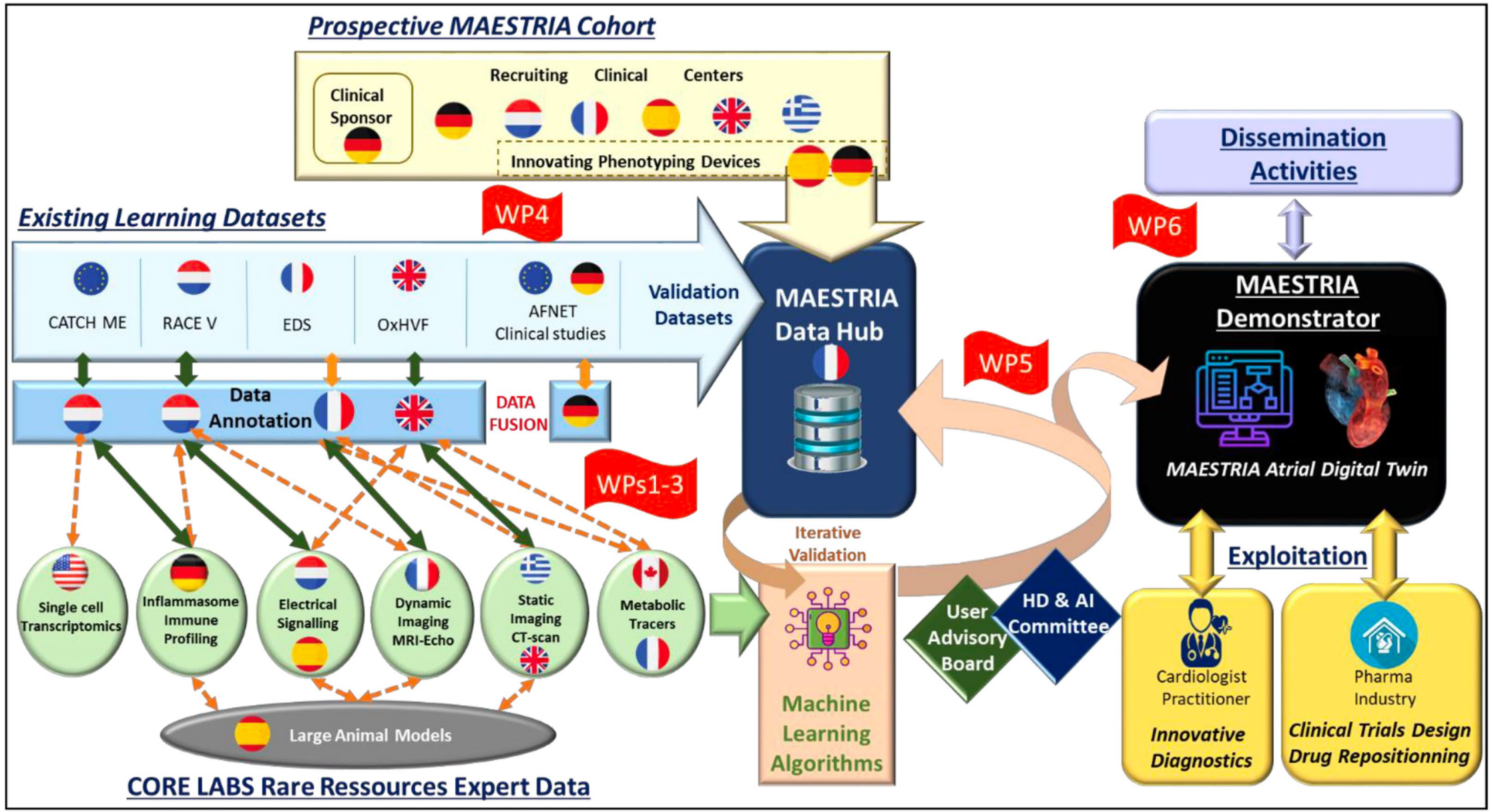
ATRIAL FIBRILLATION
NETWORK

# MAESTRIA - AFNET 10

## STUDIENDESIGN

# MAESTRIA:
## Machine Learning and Artificial Intelligence for Early Detection of Stroke and Atrial Fibrillation

MAESTRIA



# MAESTRIA-AFNET 10

MAESTRIA

## Prospective Cohort Study

International
Multicenter
Non-interventional
Observational
Registry

### Device:

measuring bracelet for continuous monitoring of heart rhythm with a photoplethysmographic (PPG) sensor coupled with a smartphone app. Preventicus is ISO 13485 certified

### 600 patients with AF:

3 groups
- 200 paroxysmal AF
- 200 persistent AF
- 200 permanent AF

4 countries

20-30 sites

### Study General Objectives:

- Enrolment of a representative cross-section of AF patients in Europe

- Detailed analysis of clinical & relevant parameters ((d)ECG, cardiac imaging, blood biomarkers) for diagnosis of Atrial cardiomyopathy & patient´s outcome

- The datasets will be assessed using AI algorithms to characterise specific subgroups of AF or define novel outcome predictors

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