Starlab Neuroscience

ParkinsonAI

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Starlab, your partner in clinical trials

Private company based in Barcelona (since 2000) Transforming Science into Technologies



Developing new products and services with profound and **positive social impact**

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LIVING SCIENCE

Difficult early stage detection

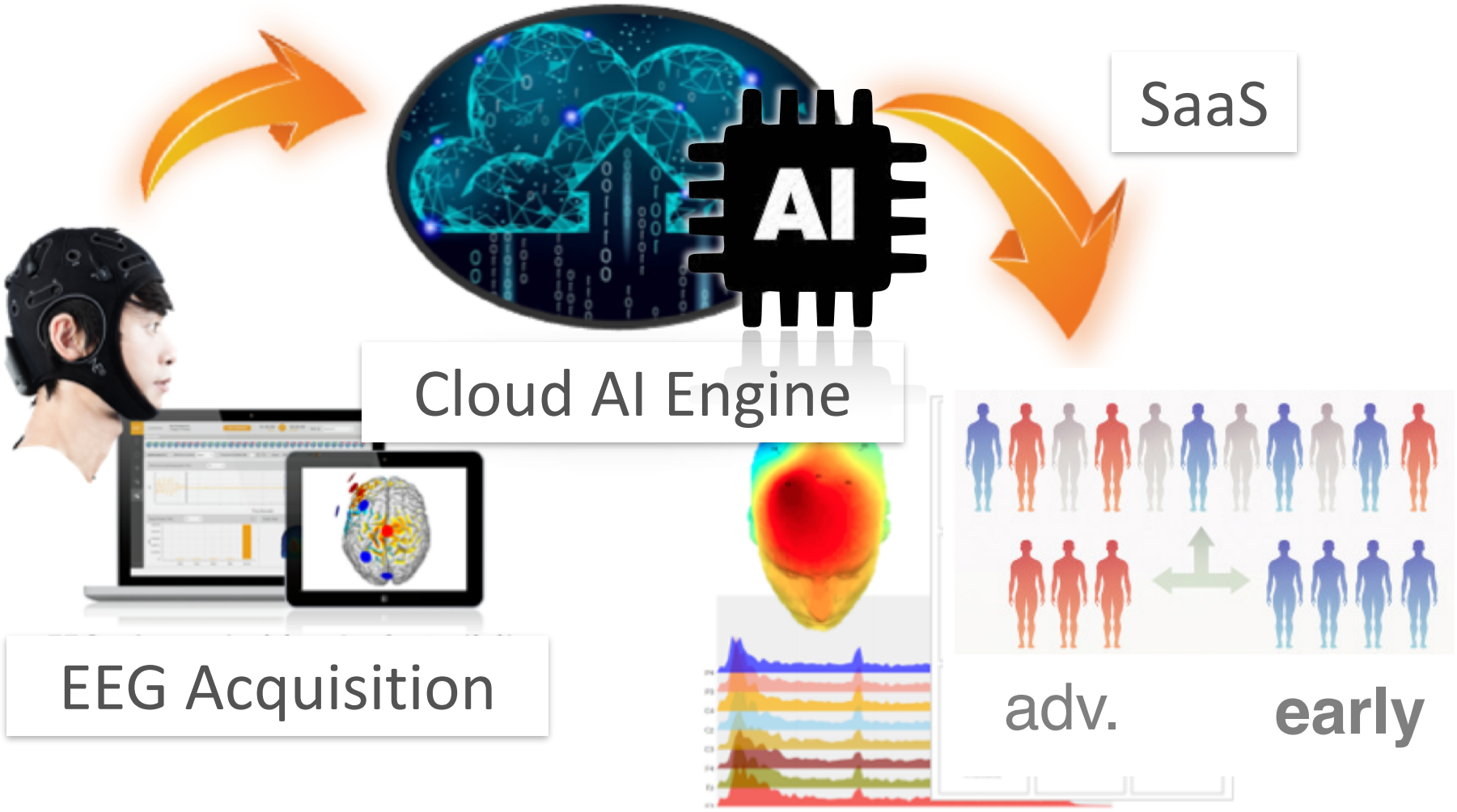
- PD large heterogeneity among patients
- No effective and side effect free early diagnosis
- Lack of biomarkers related to disease severity
- Patients diagnosed as “**early stage” may be at advanced** stages



YOUR DAD WITH PARKINSONS

45M PATIENTS WORLDWIDE

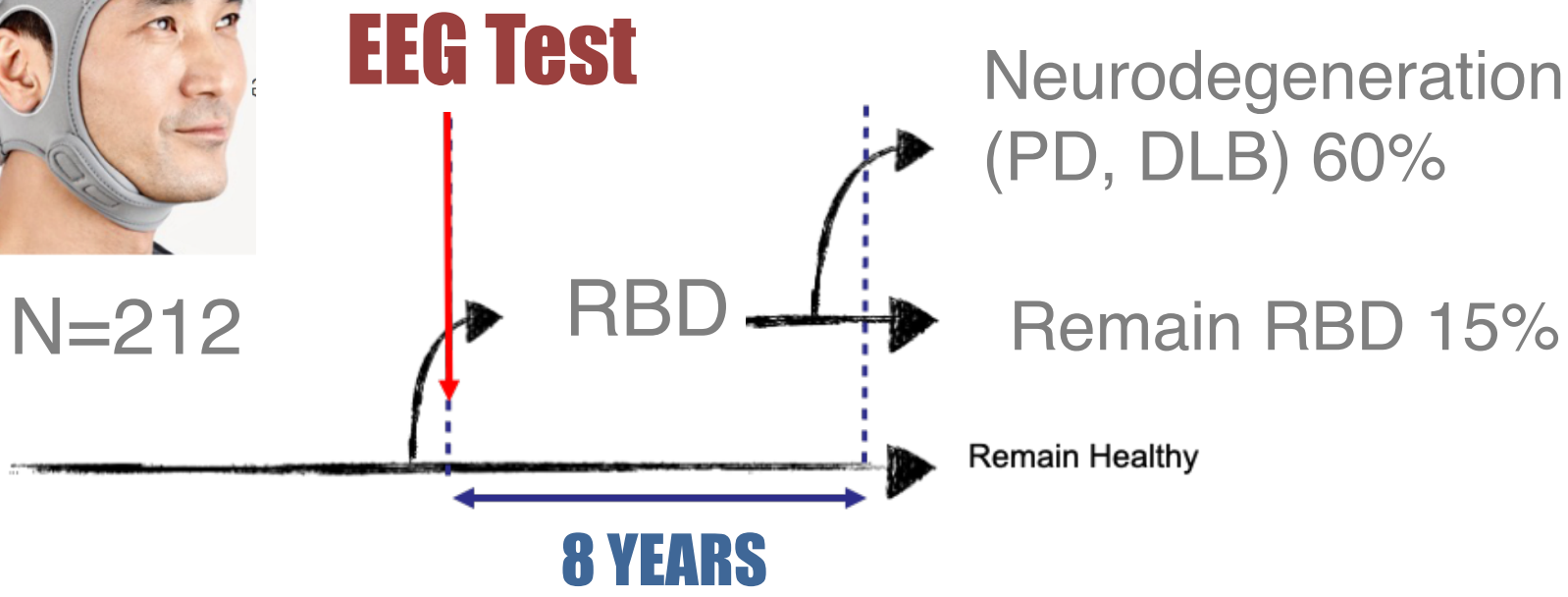
EEG Decision Support for Early PD



Output for Patient Selection in Clinical Trials

PD Detection 8 Years in advance





RBD: REM Behaviour Disorder (8 years before PD)

PD: Parkinsons' Disease

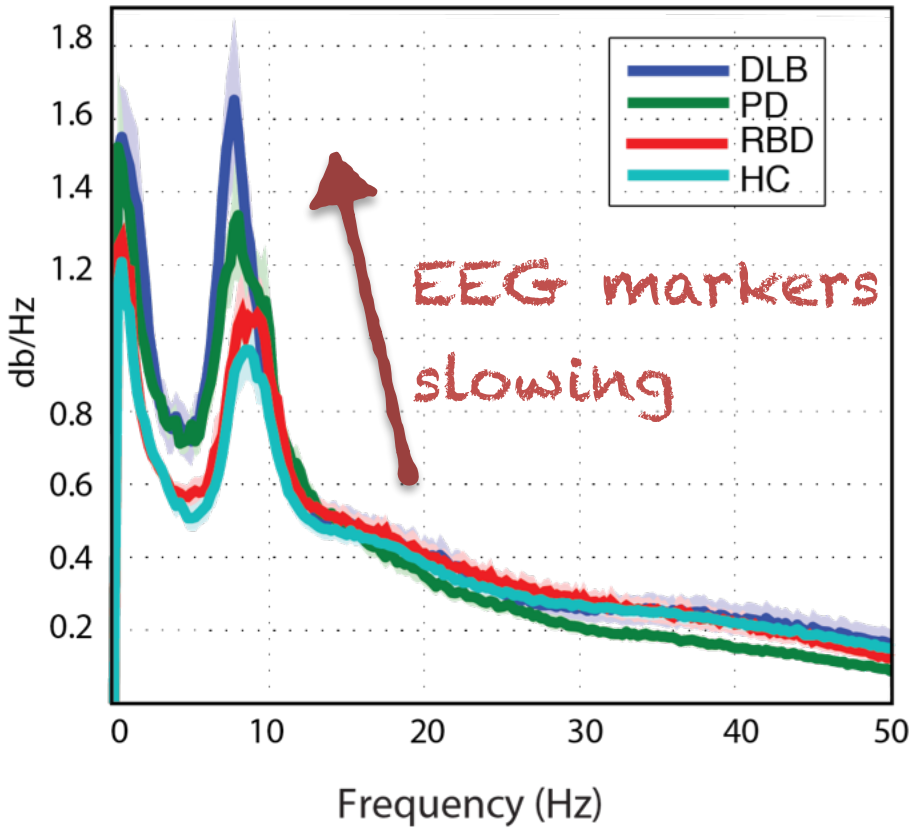
DLB: Dementia with Lewy Bodies

PD Detection 8 Years in advance

EEG Test

N=212





8 years

Spectral density shows **clear evolution with disease severity**

THE MICHAEL J. FOX FOUNDATION FOR PARKINSON'S RESEARCH

PD Accurate Early Detection

sensitivity 83%
specificity 99%

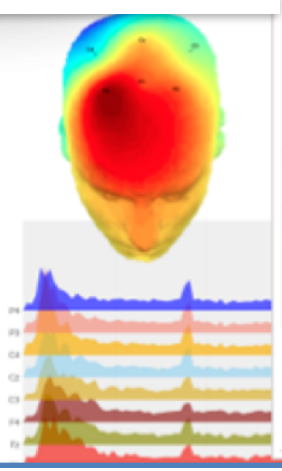


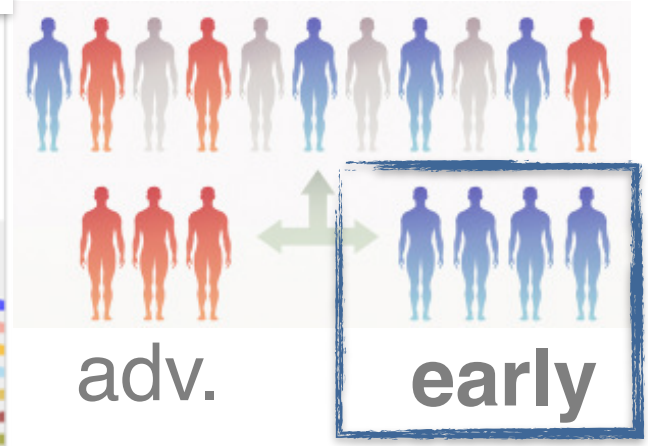
Cloud AI Engine

60%
patients

EEG Acquisition

15’ test





Patient Selection in Clinical Trials

ParkinsonAI quick, cheap, soon

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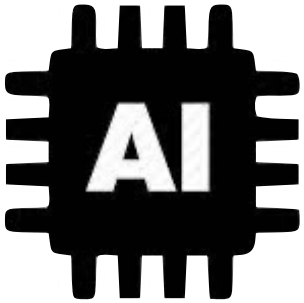
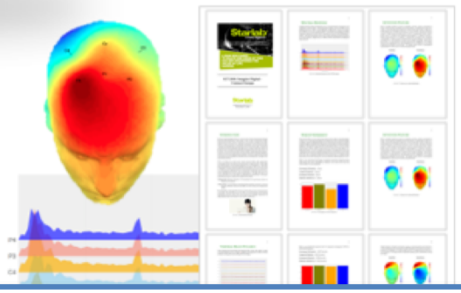


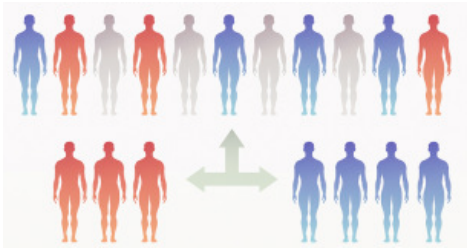


Cloud repository – AI engine



EEG characterizing Brain Activity



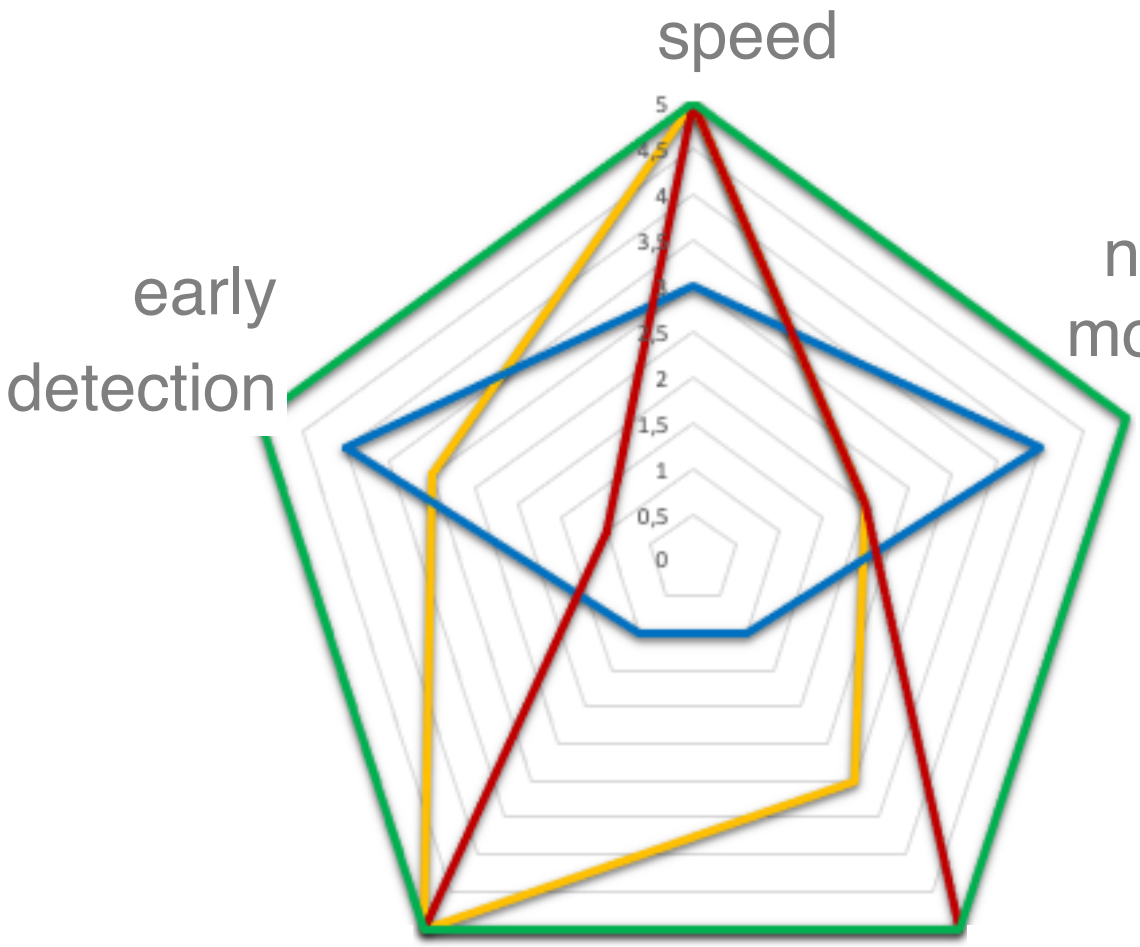


An AI-based SaaS test

- 77% **quicker**
- 70% of **price**
- **early detection** (up to 8 years earlier)

Output for Patient Selection in Clinical Trials

ParkinsonAI earliest cognitive test





ParkinsonAI team



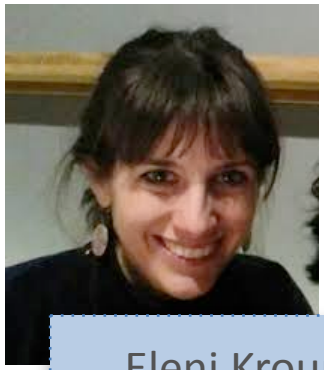
Giulio Ruffini
Starlab CEO
Physicist



Ana
Maiques
NE Founder

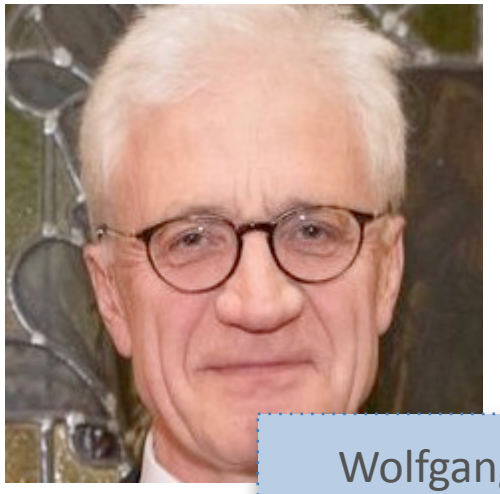


Aureli Soria-Frisch
AI-ML expert 20
years



Eleni Kroupi
Neuroscience 10
years

Parkinson KOLs



Wolfgang
Oertel



Angelo
Antonini

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Investment Opportunity



A PoC investment

- Contract BD for pharmaceutical market
- Conduct a pilot in a PD trial
- Adapt SaaS to clinical trial request

340K€


Thank you for
your attention!
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