SHAPES

Smart and **H**ealth **A**geing through **P**eople **E**ngaging in supportive **S**ystems

Technology in Assisted Living Facilities

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IN-4-AHA Matchmaking Event

Date: 7th March 2022 | 15h00 CET

Science & Innovation

The scientific and academic system is being called to build innovation processes in Smart Ageing solutions

How science builds innovation?

Translation and transfer knowledge to design and to evaluate new products or services

- **Design technology** based on scientific evidence (i.e., behavior patterns, chemical models)
- **Evaluation technology** based on scientific methods (e.g., Clinic Trials, Experimental Studies)

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SHAPES Pan-European Pilot Campaign

Methodology Approach

Each pilot activity will run in **cycles of co-creation and co-design**, moving then to **co-experimentation**, **co-deployment**, and **co-execution**, which will all be **jointly evaluated**

1. 2000 people (older individuals, caregivers and care professionals) providers in 15 pilot sites across 11 European Countries, including five EIP on AHA Reference Sites.
2. Hundreds of stakeholders to address needs of older adults, requirements of Health&Care systems.
3. To bring forward solutions to improve the health, wellbeing, independence and autonomy of older individuals, while enhancing the long-term sustainability of Health&Care systems.

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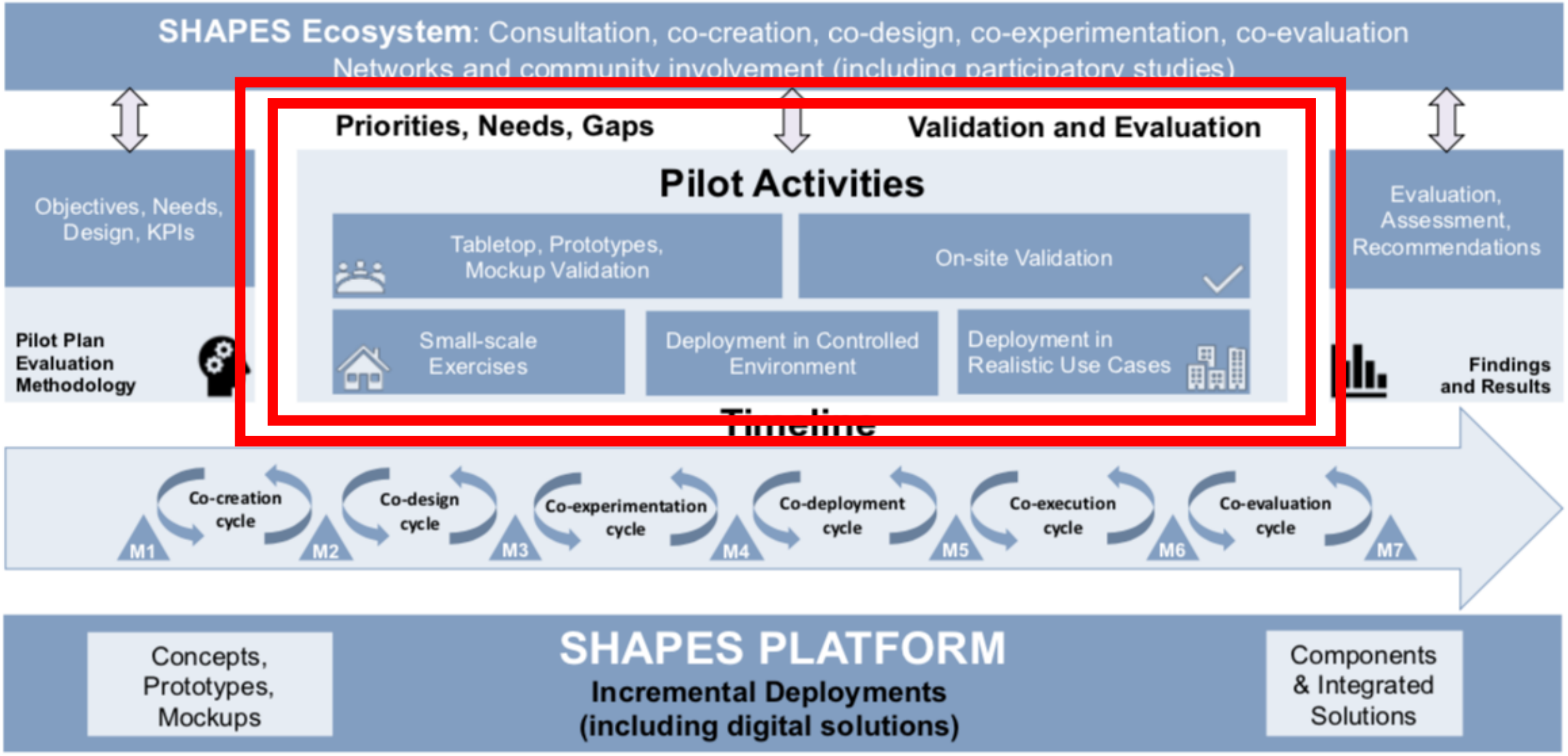

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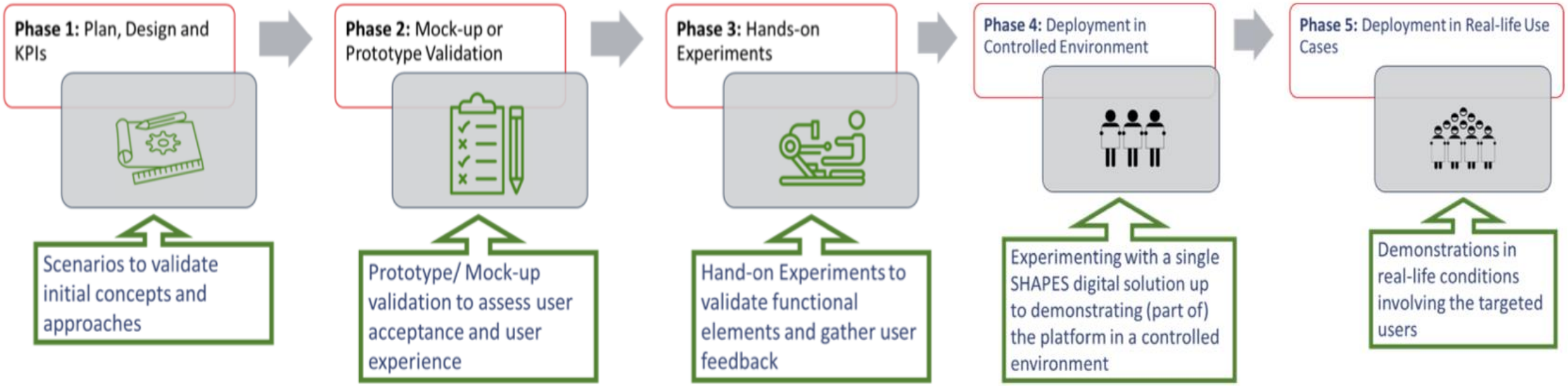

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Seven SHAPES Pilot Themes

1. PT 1: Smart Living Environment for Healthy Ageing at Home
2. PT 2: Improving In-Home and Community-based Care
3. PT 3: Medicine Control and Optimisation
4. PT 4: Psycho-social and Cognitive Stimulation Promoting Wellbeing
5. **PT 5: Caring for Older Individuals with Neurodegenerative Diseases**
6. PT 6: Physical Rehabilitation at Home
7. PT 7: Cross-border Health Data Exchange Supporting Mobility and Accessibility for Older Individuals

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Pilot Theme 5. Caring for Older Individuals with Neurodegenerative Diseases

iSupport

iSupport is a self-help online program developed by the World Health Organization to provide education, skills training and support to informal dementia caregivers

eHealthPass

eHealthPass is a health platform, that provides a health record's access, sharing information with professionals and relatives, monitoring, emergency support, and geolocation

Voice Assistance

Voice Assistance is a chatbot that use speech and natural responses for helping daily life activity of older individuals with MCI and reducing caregivers' burden

Virtual Scenarios

VPS and MVP are branching scenarios that are problem-based learning activities aiming at supporting caregivers' skills with regard to the delivery of care to older people

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From SHAPES Open Calls Tenders

Extending digital solutions integrated in the SHAPES Platform in support of active and healthy ageing and independent living and to **add new use cases and pilot sites** to the SHAPES large-scale piloting campaign

1. Selected innovative SME players may present valuable applications and/or services.
2. Conduct additional small-scale pilots, validating their digital platforms and prototypes.
3. User validation and acceptance of the new digital solutions
4. Represent a true market opportunity for new entrants.

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Example of a pilot study design

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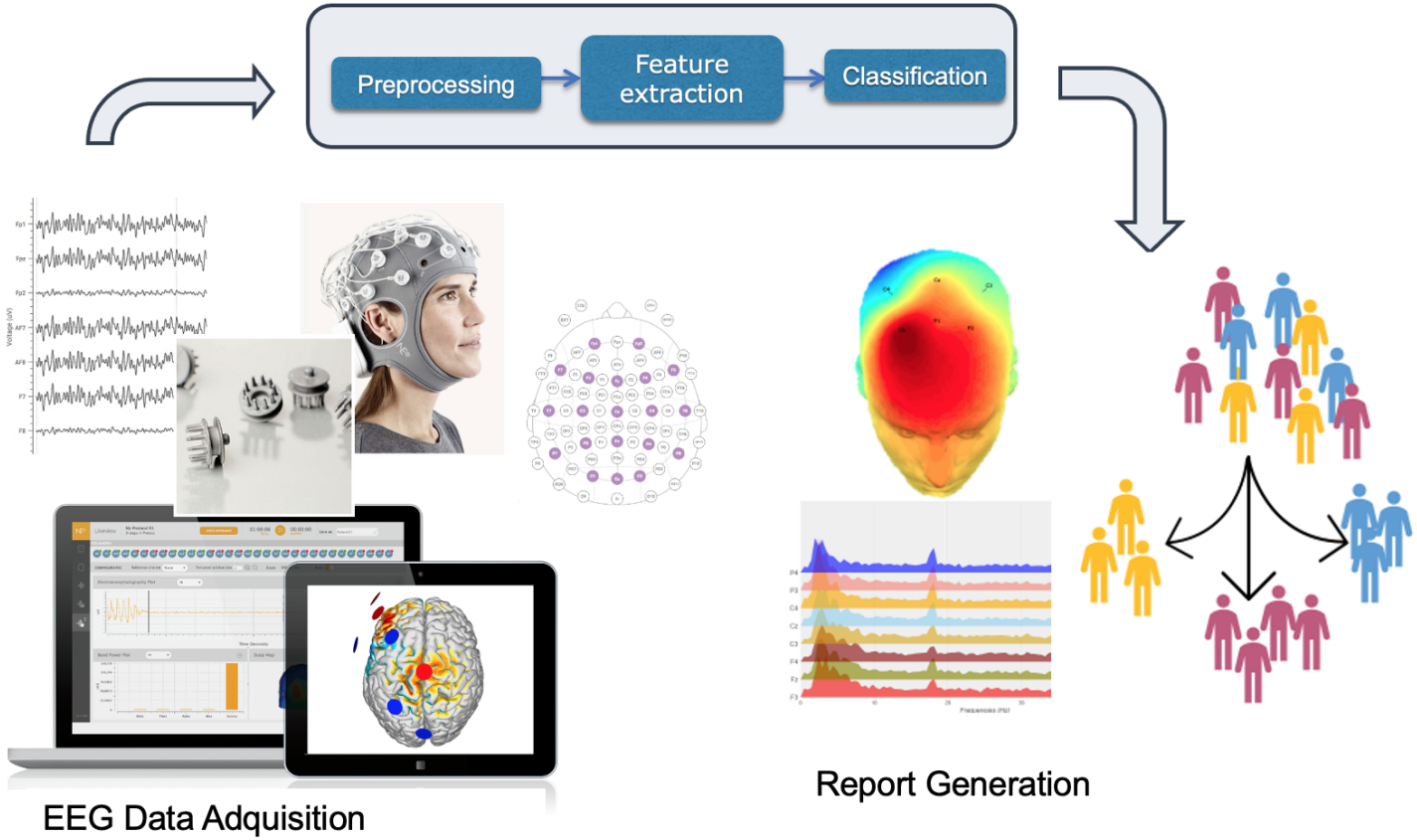
BRAINCODE works into three levels (BRAINCODE EEG Data Driven Report methodology)

1. EEG Data Acquisition: processing data using ENOBIO hardware and NIC software (automatic)

2. EEG feature extraction: analysing features from EEG screening and classify cognitive impairment (manually by a medical expert supported by a neuropsychological test)

3. BRAINCODE EEG Report: follows user experience design instructions (manually).



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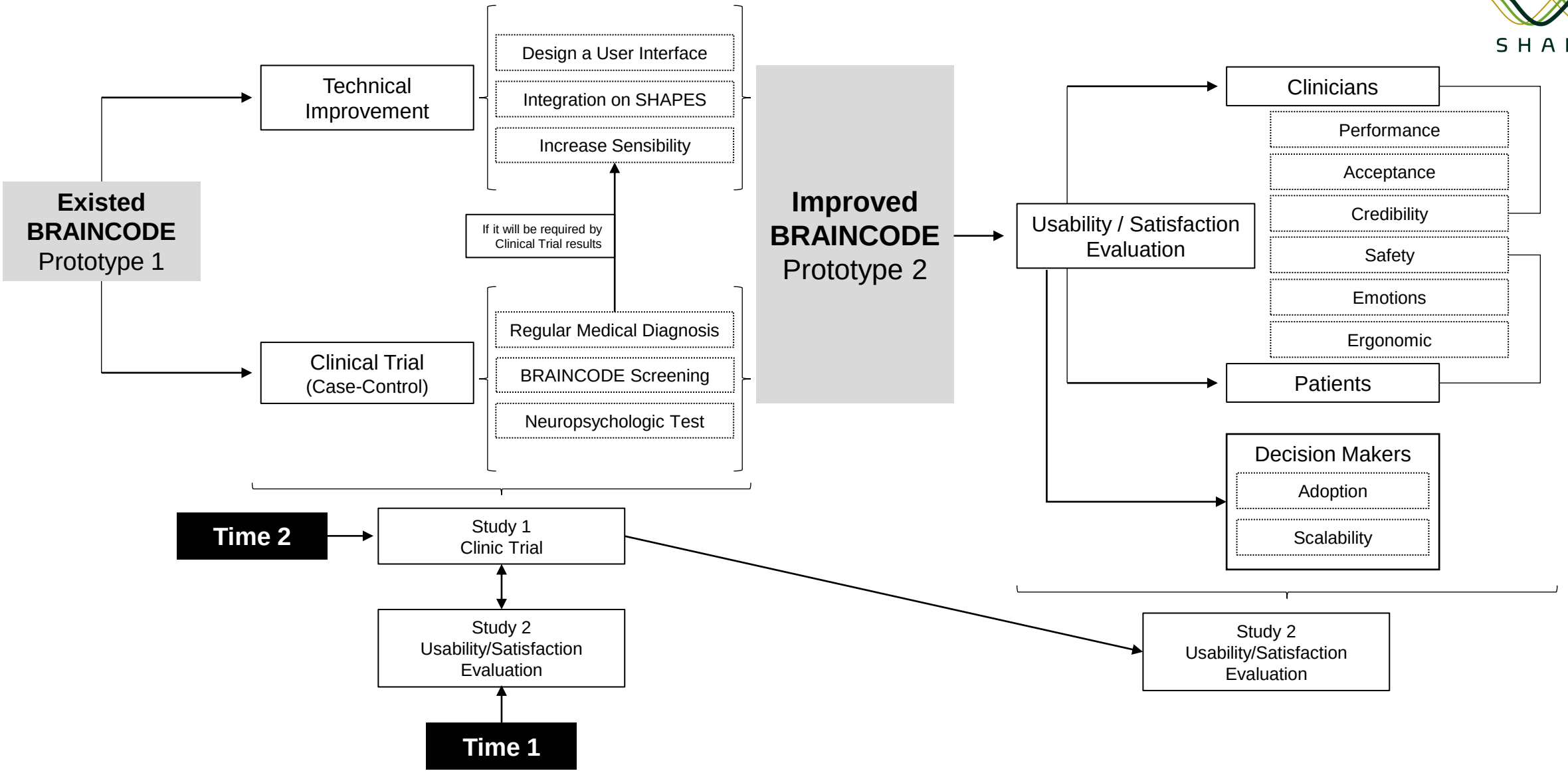

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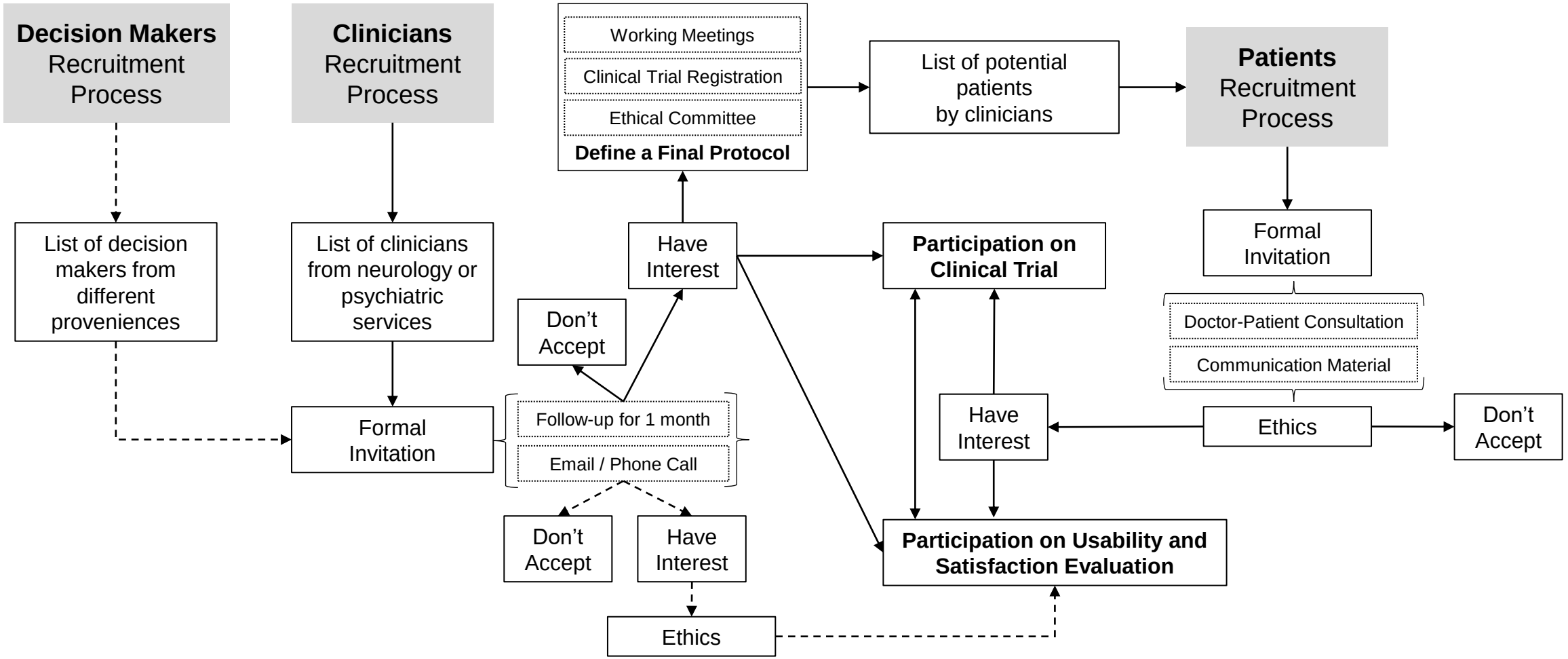

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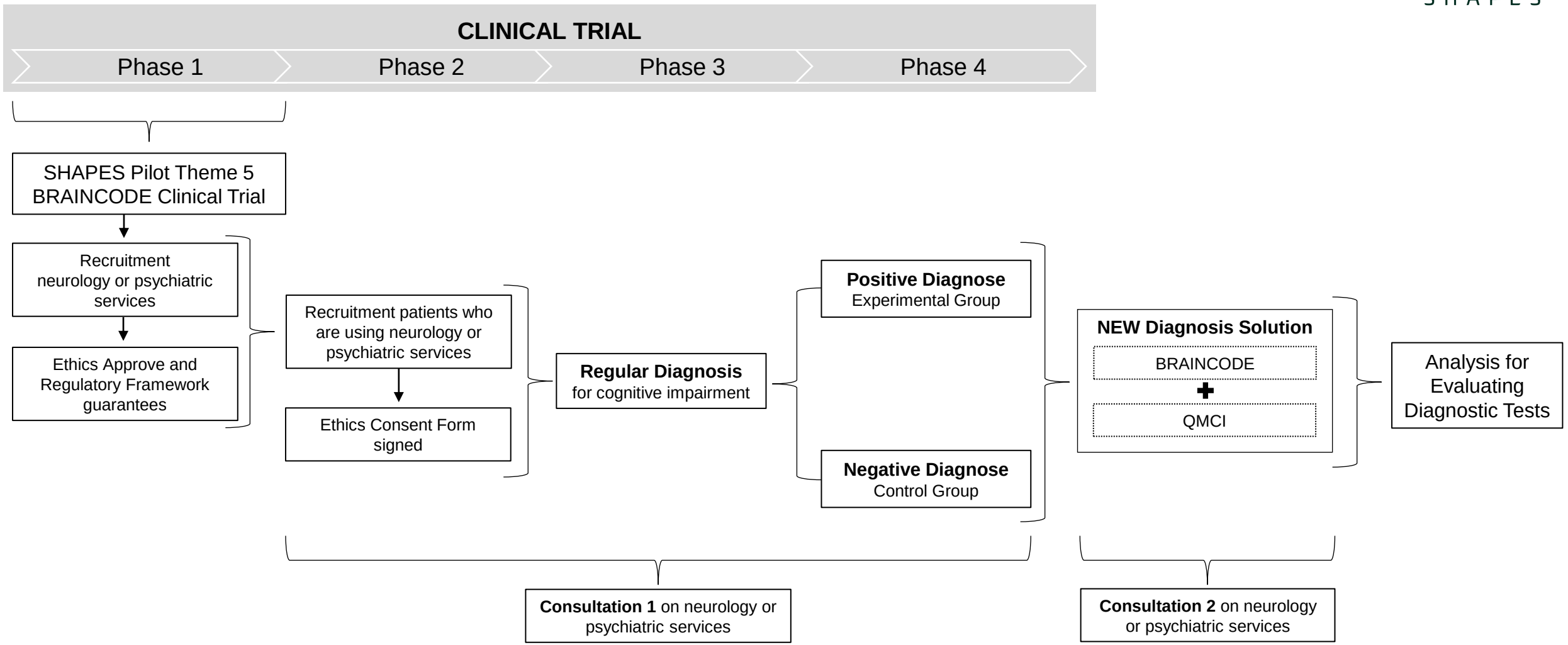

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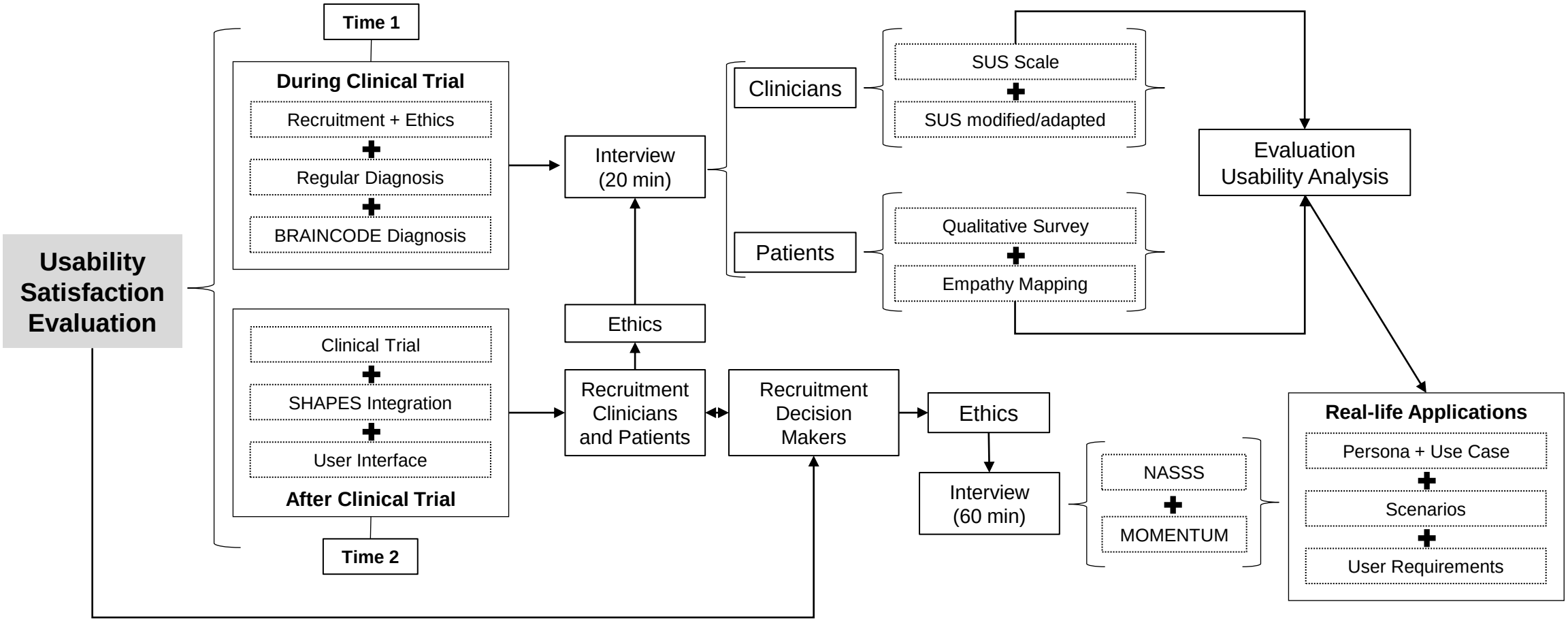

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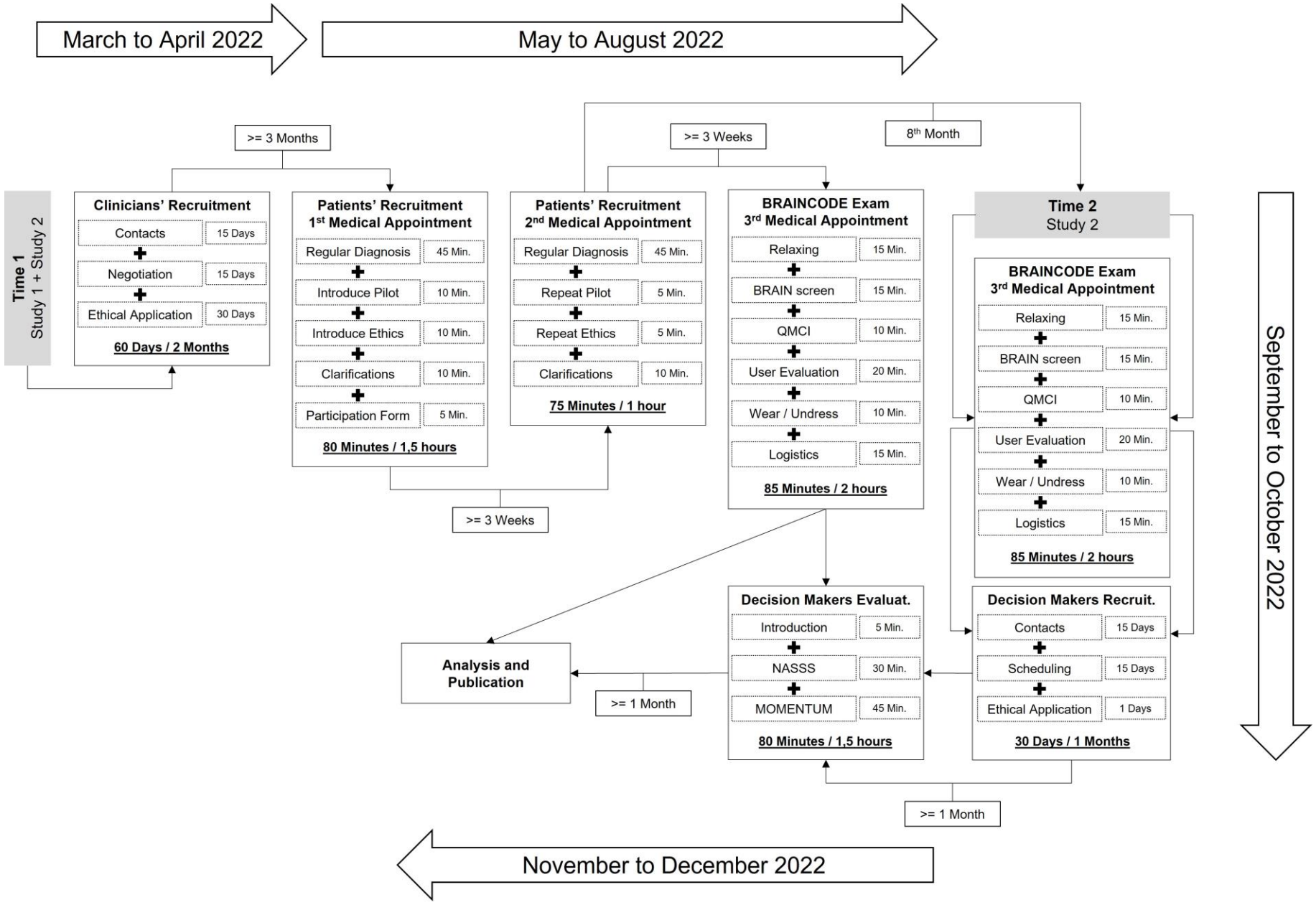

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Thank you

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