

IHI Call Days | Call 9

Specific Objective (SO) 2: Integration of fragmented health care Research & Innovation efforts

SEISMIC

SEamless Integration of image guidance to break down the barrier**S** and enhance the efficiency of **Minimally Invasive** and hybrid neurosurgical **Care**

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Challenges and objectives

- Challenge
 - Scattered innovation efforts in the field of minimally-invasive neurological and neuro-oncological treatment
- Objectives
 - Integrate innovation efforts, increasing efficiency of surgical workspace
 - Improving treatment outcome and access to care



Your approach to solve the problem

- SEISMIC will integrate innovation efforts in the field of minimally invasive neurosurgery

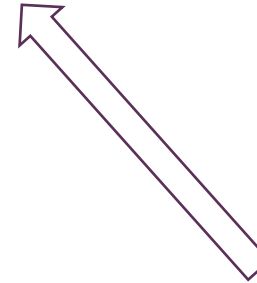
Clinical “unmet need”



Minimally-invasive
Neurosurgery

Facilitators

- Imaging
- Navigation
- Optical equipment

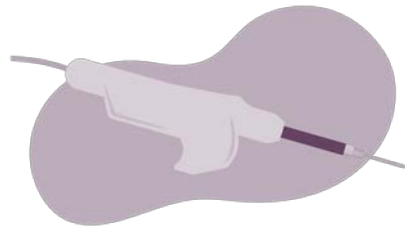


Innovations

Medical devices

Pharmacotherapeutics

Tools



- Devices (e.g., needle, hematoma evacuation device) that deliver the treatment precisely

- Ultrafocused precision therapy that reaches the target

Is your project suitable for IHI?

- Public private collaboration:
 - Academic institutions are operating advanced surgical workspaces
 - Medtech companies are struggling to create their own micro-environment within the already crowded workspace
 - Pharmaceutical companies have increased need for targeted, focused drug delivery

Outcomes and Impact

- Outcomes:
 - Integration of key equipment in the hybrid surgical space
 - Novel minimally-invasive techniques improving treatment outcome
- Impact:
 - Precision treatment delivery: de-risk early-stage pharma development
 - Shorter procedure times: better utilization of space and workforce
 - Facilitating shift towards minimally invasive treatment: safer interventions, shorter in-hospital stay
 - Better intraoperative decision support: better clinical outcome – lower recurrence rate and longer survival

Expertise and resources

- We have:
 - Core consortium of academic and industry partners (Netherlands, Spain)
- We are looking for:
 - pharmaceutical industry partners
 - working on image-guided, focused drug delivery for neurological and neuro-oncological diseases
 - medtech partners
 - developing devices and solutions for the neurosurgical workspace, incl. surgical navigation systems, robotic solutions, therapy delivery systems, stabilization devices, operating tables, integrative healthcare data solutions, etc.
 - patient organizations groups
 - motivated to support the project
 - public/academic institutions
 - innovation management, technological feasibility and clinical development

