IHI Call Days | Call 9

MOSAIC

Moving towards Optimized and SustAInable digital healthCare pathways in oncology

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Link to the IHI brokerage platform:

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Challenges and objectives

- The healthcare sector is experiencing a vast hardening of providers' working conditions:
  - Increased care complexity / offering / expectations from patients / public
  - Generational transition in Europe combines workforce shortage with aging population
  - Growing burden from repetitive/illegitimate tasks caused by poorly integrated technology, especially data management from digital devices
  - Cost-control policies limit incentiveness & growth of sector with new professionals
  - Increased workload / loss of workforce feedback loop
  - Build on co-construction to deliver the true value of digital tool

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Challenges and objectives

- **Develop user-centric assistive technologies, improved workflows** within the hospital setting, resulting in optimized procedures or new capacities, while easing the workload and promoting job satisfaction
- **Experiment industrial implementation of automation** of existing processes and/or availability of new technologies for care coordination and patient empowerment.
- **Test at scale in different countries and care levels** to demonstrate benefit to European healthcare systems
  - **Demonstrate impact on healthcare providers working conditions** from efficient workflows, reduced menial tasks, improved cost-effectiveness and efficiency of care delivery.
  - **Demonstrate improved patient experience** throughout the care journey with seamless pathways, increased quality and efficiency of interactions with providers and healthcare services, and better access to novel treatment modalities

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Our approach to solve the problem

- **Use of collaborative design approaches to** :
  - **automate** manual and illegitimate tasks,
  - foster **care coordination** and role delegation,
  - promote **patient empowerment** through education and self-management
  - strengthen the **digital literacy** of the workforce on the developed technologies allowing optimal implementation and uptake of its infrastructure.
- **Breast cancer** as a use case.
- Leverage a multidisciplinary consortium with complementary expertise

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Is your project suitable for IHI?

- Leverages on **already-existing technology (high-TRL)** and **new technologies** (low-TRL; expected to increase during the project) that come
- Implementation and societal impact relies on the implication of **wide range of end-users**
- Aiming **deployment at scale**

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Outcomes and Impact

Economical impact

Highly integrated & automated **user-centric applications** reducing repetitive/illegitimate tasks on multi-source, longitudinal data (pathology, radiology, clinical, patient-reported…)

- Improve **care efficiency** through automation, AI, patient empowerment
- Improved quality of care delivery through **decentralized/delegated** care, educative and self-management apps

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Expertise and resources

Existing partners

- Academic: **Gustave-Roussy**, VHIO, Karolinska Inst., BIG, CEA, …
- Large companies: GE HealthCare, Dedalus
- SME : Lifen (FR), PRIMAA (FR), XSENSIO (CH), RESILIENCE (FR)

Desired addition

- Pharma
- Companies focused on automatization of workflows (medical report, appointments)

Target budget 25M€, 50% IKOP+IKAA

* IKOP - in-kind contributions to operational activities
** IKAA - in-kind contribution to additional activities

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