



Next generation imaging and image-guided diagnosis and therapy for cancer

IHI call 1 – topic 2

Before we start...

- We are recording this webinar and it will be published on the IHI website.
- We will also publish the presentation slides and participant list on the webinar web page.
- All information regarding future IHI call topics is indicative and subject to change. Final information about future IHI calls will be communicated after approval by the IHI Governing Board.

Today's webinar

- **Will cover:**

- Introduction to IHI programme
- IHI Call 1 Topic 2:
 - Challenge, need for public-private collaborative research
 - Scope, outcomes & impacts
 - Budget
- Proposal submission & evaluation
- Tips for writing a successful proposal

- **Will not cover** rules and procedures

- The webinar on rules and procedures is at:
www.youtube.com/watch?v=qriw3AbEP-M



Innovative Health Initiative

EU's new **partnership in health** between:

- the **European Union** represented by the European Commission
- &
- **Healthcare industry associations:**
 - **COCIR** (medical imaging, radiotherapy, health ICT and electromedical industries)
 - **EFPIA**, including **Vaccines Europe** (pharmaceutical and vaccine industries)
 - **EuropaBio** (biotechnology industry)
 - **MedTech Europe** (medical technology industry)

IHI's general objectives

- Turn health research and innovation into **real benefits for patients and society**
- Deliver safe, effective health innovations that **cover the entire spectrum of care** – from prevention to diagnosis and treatment – particularly in areas where there is an unmet public health need
- Make Europe's health industries globally **competitive**.

Strategic Research & Innovation Agenda

Focus

- **Cross-sectoral approaches** to facilitate creation of new products and services to **prevent, intercept, diagnose, treat and manage diseases** and foster recovery more efficiently.

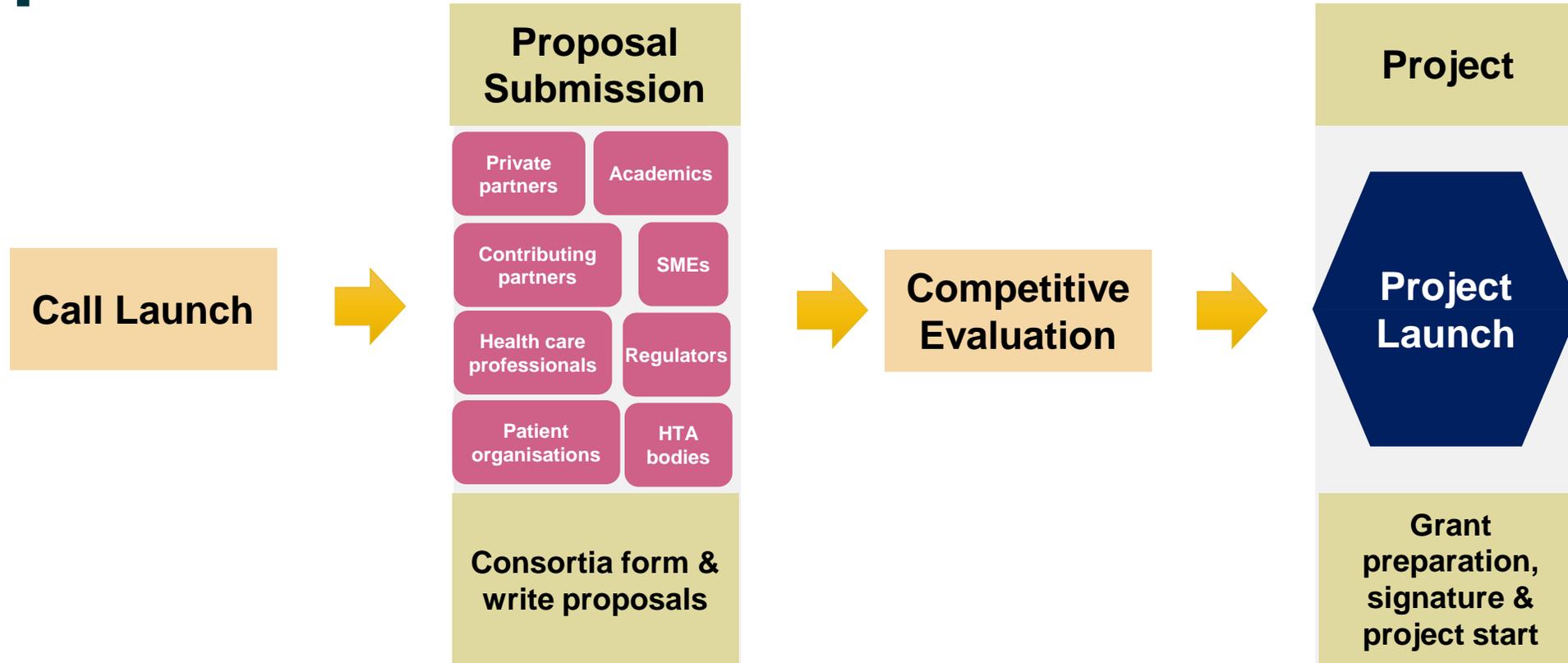
Goal

- Lay foundations for development of **safer and more effective health care products or solutions** that respond to **unmet public health needs** and that can be implemented into healthcare systems.

Research supported by IHI should remain at precompetitive level



How does IHI work? single-stage procedure



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- Next generation imaging and image-guided diagnosis and therapy for cancer

The challenge

- The specific challenge to be solved is to provide early evidence of improved cancer patient care when using next-generation imaging technologies and image-guided solutions as part of combined cancer therapies.
- An optimised image-based care path from early diagnosis and screening to treatment and follow-up is essential to improve the outcome of cancer patients and help optimise clinical workflows and cancer patients' journey.

Need for public-private, cross-sector collaboration

- Cross-sectorial collaboration is expected to include academia and health care specialists to leverage innovative and novel image-guided concepts in diagnostic and therapeutic applications.
- To take advantage of the potential synergistic effects of next-generation imaging technologies and image-guided solutions being part of combined cancer therapies, it is essential that different industry sectors come together, exchange knowledge and experience, and find optimal solutions.
- Combining expertise from various sectors is critical to the success of this proposal.

Scope of the topic

- Contributing to the development of high-quality tools, high-quality data, advanced patient imaging and image-guided technologies and processes for improved early diagnosis, prognosis, staging, intervention planning, therapy and management of cancer and long term follow up.
- Enabling the development of improved artificial intelligence (AI) and machine learning (ML) validation and evaluation methodologies for imaging and image guided diagnosis and image-guided therapy for cancer.

Expected outcomes

Projects should:

- Expand the use of cancer patient imaging data sources, with improved data quality, annotation and computability, contributing to solutions that automatically link images to clinical data to improve diagnostic, staging, predictive and therapeutic tools for clinicians, including image-guided tools.
- Develop robust evaluation and validation frameworks for AI/ML-based algorithms applied to cancer patient images, to improve image-guided diagnosis, prediction of therapy outcome, planning and therapy of cancer patients.
- Propose novel, continuously self-learning, trustworthy, explainable AI/ML-enabled image guided diagnosis, therapy planning, and interventional systems used in clinics/hospitals and possible related benchmarks.

Expected impact

- Demonstrated added-value for end-users such as patients and carers, healthcare professionals, national health systems, and healthcare providers in using next generation imaging and image-guided diagnosis and therapy solutions for cancer.
- Enable seamless and successful further development of the concepts and solutions developed, leading to integrated products and services delivering proven benefits to patients, carers, healthcare systems and society as a whole.

Budget & Duration

BUDGET

- Total of EUR **40 million** IHI funding available
- IHI estimates that an IHI financial contribution of around **EUR 10 000 000 to 20 000 000** would allow a proposal to address these outcomes appropriately.
- **45% of the total budget** of each project must be covered by contributions provided by project participants.

DURATION

- Applicants should propose a project duration such that it matches project activities and expected outcomes and impacts

Simplified example budget

Participant type	Total costs	Requested IHI funding	In-kind contributions (IKOP, IKAA, FCs)
'Public' partners (Universities, hospitals, SMEs, patient orgs, regulators.....)	20 million	20 million	0
Private members & Contributing partners	20 million	0	20 million
Total	40 million	20 million (50%)	20 million (50%)



Proposal Submission & Evaluation

Proposal Template - Parts A, B & Annexes

- **Part A** of the proposal is **administrative data** that is entered in webforms through the Funding & Tenders Portal.
- **Part B** of the proposal is the **narrative part** that includes three sections:
 - Excellence
 - Impact
 - Quality and efficiency of the implementation
- **Read instructions** in the proposal template **very carefully**
- **Annexes:**
 - Participant type
 - Budget details
 - Clinical studies template

Evaluation Criteria (1/2)

● Excellence

- Clarity and pertinence of the project's objectives, and the extent to which the proposed work is ambitious, and goes beyond the state of the art.
- Soundness of the proposed methodology, including the underlying concepts, models, assumptions, interdisciplinary approaches, appropriate consideration of the gender dimension in research and innovation content, and the quality of open science practices, including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.

● Impact

- Credibility of the pathways to achieve the expected outcomes and impacts specified in the work programme, and the likely scale and significance of the contributions due to the project.
- Suitability and quality of the measures to maximise expected outcomes and impacts, as set out in the dissemination and exploitation plan, including communication activities.

Evaluation Criteria (2/2)

- **Quality and efficiency of the implementation**
 - Quality and effectiveness of the work plan, assessment of risks, and appropriateness of the effort assigned to work packages, and the resources overall
 - Capacity and role of each participant, and extent to which the consortium as a whole brings together the necessary expertise.



- Tips for applicants

Tips for applicants

- Read all the call-relevant material, especially the **topic text**
 - www.ihl.europa.eu/apply-funding/open-calls
 - www.ihl.europa.eu/apply-funding/future-opportunities
- Form your consortium **early**
 - Always think “public-private partnership“
 - Include partners bringing **in-kind contributions**
- Ensure that **all information requested in the call text and proposal template** is provided to allow the evaluation experts to easily assess your proposal against the evaluation criteria
- Consider & plan for the potential **regulatory impact** of results



Finding project partners

You'll need to build or join a consortium!

- Network with **your contacts, webinar & brokerage event participants:**
 - ihi-calls-2022.b2match.io/components/20715
- Use EU Funding & Tenders portal **partner search tool:**
 - <https://europa.eu/!QU87Nx>
- Get in touch with your **IHI national contact point:**
 - <https://europa.eu/!D7jyMy>
- Network on social media:
 - www.twitter.com/IHIEurope
 - be.linkedin.com/company/innovative-health-initiative





Thank you for your attention

ihi.europa.eu





- Additional Slides

Simplified example budget

Participant type	Total costs	Requested IHI funding	In-kind contributions (IKOP, IKAA, FCs)
'Public' partners (Universities, hospitals, SMEs, patient orgs, regulators.....)	15 million	15 million	0
Private member 1	15 million	0	15 million
Private member 2 'hybrid'	10 million	5 million	5 million
Total	40 million	20 million (50%)	20 million (50%)