

IHI call 4 – topic 1



Important disclaimer

Please be aware that the call topics are still under consultation with the States' Representatives Group and the Science and Innovation Panel (IHI advisory bodies).

All information regarding future IHI call topics is indicative and subject to change until call launch.

You will find the final authorised version of the topic text on the Funding and Tenders Portal at call launch.



Before we start...

- We are recording this session and it will be published on the IHI website and B2Match platform.
- We will also publish the presentation slides.



Today's session

- Will cover:
 - Introduction to IHI programme
 - IHI Call 4 Topic 1 presented by lead industry pre-identified consortium
 - Information on proposal submission & evaluation
 - Tips for writing a successful proposal
- Will not cover rules and procedures
 - The webinar on rules and procedures will be made available at the IHI website.

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.

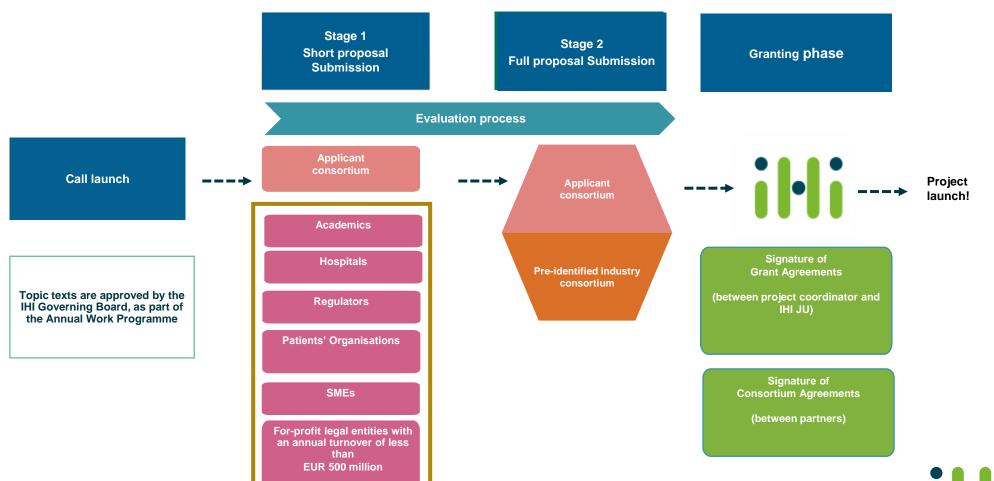
Goal

• 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



Two –stage calls – How does it work?





Expanding Translational Knowledge in Minipigs: a path to reduce and replace non-human primates in non-clinical safety assessment

IHI call 4 – topic 1



The challenge

- The development of in vitro models for human safety assessment is challenging due to complex biological responses in various organ systems
- Legal obligation to replace, reduce and refine use of animals in research, including a specific focus on restricting the use of the non-human primates (NHPs) unless scientifically justified
- New drug modalities are often designed to engage human targets with high specificity, which is the rationale for selecting NHPs in the safety testing
- Replacing NHPs with minipigs in the safety testing of new therapeutic modalities is difficult due to lack of translational knowledge pigs versus NHP and humans



Objectives



Key Objectives

- To advance biomedical R&D by generating background scientific data to turn minipigs into a viable and feasible alternative to NHP in key therapeutic areas with special focus on translatability human versus minipig in nonclinical safety assessment
- To characterise the (mini)pig for use in R&D of new therapeutics and innovative medical technologies. The knowledge generated in this project may facilitate innovative health solutions, improve disease understanding and human predictions



Need for public-private, cross-sector collaboration



Cross- sectoral collaboration a must

to implement and develop up-todate species, specific technologies, provide high quality data, ensure best practise and sustainable solutions



Interchange of knowledge and expertise

to transfer translational knowledge/technology/bioinform atics between species



The value of involving partners with relevant expertise

Regulators, SMEs, start-ups, research, academia



Scope of the topic

- Compile and publish existing historical safety data in minipig biomedical R&D and discuss data with regulators
- Evaluate the translatability of minipigs in human risk assessment following treatment with biologicals and new therapeutic modalities and discuss future perspectives of the minipigs with regulatory agencies
- Minipigs multi-omics and imaging
- Characterise and validate genetically modified pig models
- iPig: Digital technologies, clinical data collection and AI
- Further characterise minipig immune system and validate reagents, assays, and biomarkers for immunologic investigations
- Project management: Compile, digitalise, publish existing and newly produced data



Expected outcome



Obtain and share biological knowledge of the pig, thereby facilitating the development of innovative solutions



A regulatory pathway for drug safety assessment of biologicals and other novel therapeutic modalities in minipigs with the potential to impact regulatory strategies



Publicly available
databases and software for
"omics" minipig data to
understand underlying
mechanisms of
disease/toxicities and find
new biomarkers and mode
of actions for
pharmaceutical
intervention



Characterised and validated genetically modified minipig models e.g. humanised minipigs and the micropig



Assess the utility of the minipig as a relevant toxicology species for immuno-safety testing. Develop validated antibodies and in vitro immunoassays to characterise the immune system and assess immuno-safety of drugs in minipigs



Minipig-specific technology for automated study data: validated medical devices, bio-sensors, algorithms, software and digital pens. Develop machine learning and Artificial Intelligence (AI)-based tools to monitor abnormalities in behaviour and physiological systems



Expected impact

By closing the current translational knowledge gaps

Reduce and replace non-human primates with pigs without compromising human safety

Fostering the development and validation of non-animal models

Optimise cross sector collaboration to accelerate medical innovation

Ensure a sustainable and a competitive biomedical industry

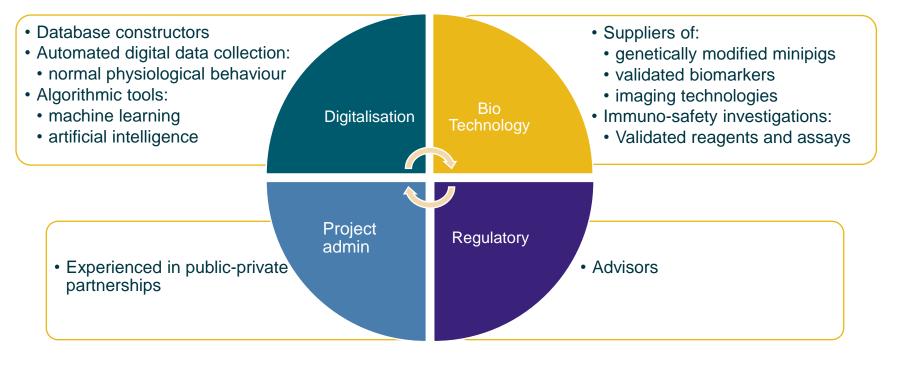
Expanding
translational
knowledge:
minipigs vs nonhuman primates
and humans

Increased disease understanding can lead to new research pathways, which can enhance the use of new non-invasive technologies (refinement)

Improve sustainability and quality of biomedical R&D in areas of unmet need



Expected contributions of the applicants





Expected (in-kind) contributions of the industry consortium

- Experimental settings: Pharmaceutical drug candidates, drug products, animal units, experimental equipment, laboratories
- Data: access to standard toxicology and clinical safety endpoints, historical data, gene expression, immunosafety biomarkers and assays
- Expertise: nonclinical expertise, data science, regulatory expertise, immunosafety, "omics" evaluation, disease models, devices
- Technology: Standard for Exchange of Nonclinical (SEND) databases and SEND visualisation systems, implants, device software



Total indicative budget



The amounts are indicative and subject to change, pending approval by the IHI Governing Board.



Duration

Indicative duration 60 month



Final decision will be taken by the private-public consortium

Evaluation of existing data

Methodology development

Investigations

Analysis reporting publishing

Ongoing communication and dissemination







Thank you for your attention













Proposal Submission & Evaluation



Proposal Template - Parts A, B & Annex

- 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 proposal template very carefully
- Annex:
 - Participant type



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.

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.



Evaluation Criteria (2/2)

- Quality and efficiency of the implementation
 - Quality and effectiveness of the outline of the work plan.
 - Capacity 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
 - https://www.ihi.europa.eu/apply-funding/future-opportunities
- Form your consortium early
 - Always think "public-private partnership"
- 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 & IHI Call Days participants:
 - https://ihi-call-days.ihi.b2match.io/
 - 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



How to book your meetings via the B2Match platform

Book your meetings in 4 easy steps

- 1. Make yourself available
- 2. Look for partner on the participants or organisation tab
- 3. Select date, time, attendees (up to eight per meeting), add message
- 4. Send the meeting request and wait for the reply

Step by Step guide on how to book meetings: https://europa.eu/!FkjV9n



Questions time

If you want to ask a question please use the chat function on the right corner of your







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Call 4



19 June 16:00-17:30	IHI rules & procedures
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20 June	10:00-11:00	Expanding translational
		knowledge in minipigs

20 June 14:00-15:00	Patient-centric blood	sample collection
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21 Ju	une	10:00-11:00	Inclusive	clinical	studies
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21 June 15	:30-16:30	Improving trials	for rare diseases
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22 June	14:00-15:00	Safe & sustainable by design
		packaging & devices

22 June 16:00-17:00 Sustainable circular development and manufacture

Online event















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Call 5



26 June 15:00-16:30 IHI rules & procedures

27 June 10:00-12:10 Non-animal approaches for health technologies

27 June 14:00-16:10 Theranostics solutions

28 June 14:00-16:10 Stroke management

29 June 10:00-12:10 Synthetic data generation

29 June 14:00-15:30 The financial part of the proposal

Online event













Register now 🗼





Thank you for your attention











