

CAMPUS CLINIC INNOVA 2025

“IDEES CAP A MERCAT”

Hospital Clínic de Barcelona (hereinafter, HCB), Fundació de Recerca Clínic Barcelona - Institut d'Investigacions Biomèdiques August Pi i Sunyer (hereinafter, FRCB-IDIBAPS), Barcelona Institute for Global Health (hereinafter, ISGlobal), and Fundació Món Clínic (Món Clínic), which together form the Campus Clínic, are launching the **CAMPUS CLÍNIC INNOVA 2025** initiative.

This initiative stems from Campus Clínic's commitment in recent years to place Innovation on its strategic agenda and integrate it into the culture of Campus Clínic professionals. HCB will act as the managing entity for the funds.

The objective of the CAMPUS CLÍNIC INNOVA initiative is to promote and consolidate innovative projects, including both process improvements (healthcare and non-healthcare) and scientific-technological products, with a clear focus on their applicability in the healthcare environment.

This initiative consists of two programs, focused on different types of innovative projects with distinct approaches that accommodate the aforementioned projects:

- The “**MILLOREM EL CLÍNIC**” program is focused on improvement and transformation projects with an impact on the organization and processes of HCB, at any of its locations. The objective of this program is to recognize projects that provide value and have a clear impact on patients, professionals, and/or resources, in line with the priorities set out in the NUCLI 2025 Strategic Plan, to make a more Accessible, Sustainable, and Intelligent hospital based on pioneering solutions. The terms and conditions for the “Millorem el Clínic” program can be found in a separate document.
- The “**IDEES CAP A MERCAT**” program is designed for innovative scientific-technological projects with commercial potential, accommodating both incipient and more mature projects. It will consist of 2 categories, clearly differentiating projects based on their maturity status:
 - “**Incubem**” will focus on projects with Innovation Maturity Levels (IMLs) 1 (defined need) to 3 (proof of concept).
 - “**Accelerem**” will drive projects with IMLs 4 (proof of feasibility) to 6 (initial clinical trials).

See Annexes for a detailed explanation of Innovation Maturity Levels (IMLs).

Deadlines

The calendar for submitting projects to “Idees Cap a Mercat” is as follows:

2 June 2025	Call opens
23 June 2025	Deadline for Expression of Interest (EOI) – only for “Idees cap a Mercat” projects
25 July 2025, a les 19:00	Call closes
22 October 2025	Event – winners announced

“Idees cap a Mercat” Program

1. Description

The “**IDEES CAP A MERCAT**” program is designed for innovative scientific-technological projects with potential for market transfer, accommodating both initial and more mature projects. It will consist of two categories, clearly differentiating projects based on their maturity status:

- “**Incubem**” will focus on projects with IMLs 1 (defined need) to 3 (proof of concept).
- “**Accelerem**” will drive projects with IMLs 4 (proof of feasibility) to 6 (initial clinical trials).

Within each category, projects can be submitted in three different modalities:

- Biotech: compounds with therapeutic activity, antibodies, biomarkers, cell models, drug combinations, or similar.
- Medtech: medical devices, in-vitro diagnostic tests, among others.
- Digital Health: artificial intelligence (AI), mHealth applications, eHealth, digital therapies (DTx), *Electronic Health Records* (EHR), telemedicine, among others.

Selected projects will receive the following benefits:

- Economic aid (see table for amounts).
- Access to the **Support Program**, which aims to accelerate selected projects, accompanying them in the valorisation of their assets for 12 months from the project's kick-off. The goal is for projects to advance in fundamental aspects within the Health Innovation Cycle (see Annex 3), increasing their IMLs. It is not necessary to evolve in all 4 domains simultaneously, but the methodology provides a holistic view that helps advance all aspects of a project as a whole. The support team consists of experts from the Campus Clínic Innovation teams and is supported by external experts from the Catalan innovation ecosystem.

With this program, Campus Clínic seeks to offer new competitive funding channels to innovative projects that help advance the maturation of selected technologies and reduce their risk, with the objective of:

- (1) Supporting the definition and development of the project strategy.
- (2) Validating the market potential and feasibility of the project for the “Incubem” category.
- (3) Bringing them closer to market requirements and enabling their transfer through a license to an existing company or the creation of a spin-off, for the “Accelerem” category.

2. Eligibility Criteria for Beneficiaries and Projects

Requirements for Professionals:

- Must have an indefinite contract or a contract valid for the next 3 years with one of the following institutions that form the Campus Clínic: HCB, FRCB-IDIBAPS, or ISGlobal.
- A single professional can submit a maximum of one proposal in the same call for the “Idees cap a Mercat” program. However, they can be part of the work team of a proposal led by another professional.

Eligible Projects:

- Must be part of one of the three funded modalities.
- Must be focused on the development and/or validation of a technology (to advance its IML and/or reduce project risk) that must necessarily have an innovative focus and potential for market transfer.
- Must be able to justify ownership by Campus Clínic institutions (HCB, FRCB-IDIBAPS, ISGlobal) exceeding 50% individually or jointly. Projects that do not have an ownership distribution agreement at the time of submitting the project must confirm their commitment that this condition will be met at the time of distribution. If this condition is not met and the project has been selected, the prize money must be returned to the initiative's managing entity.

Projects that are not eligible:

- Cannot justify ownership exceeding 50% for Campus Clínic institutions (HCB, FRCB-IDIBAPS, ISGlobal).
- Have been incorporated, via a licensing agreement, into an already constituted company (spin-off) or any other external company at the time of application.
- The ownership of the technology or exploitation rights belongs to an external company or spin-off.
- Have been winners in previous editions, with the exception of winning projects in IML 1-3 that justify their evolution and apply to "Accelerem Projects".

3. Economic Conditions

Selected projects will receive financial aid based on the category they apply for and the funding needs justified in the work plan. Projects in the "Incubem" category will receive a maximum of €15,000 per project, while projects in the "Accelerem" category can receive up to €30,000.

Program	IDEES CAP A MERCAT	
Categories	Incubem (IML 1-3)	Accelerem (IML 4-6)
Scope	Biotech	
	Medtech	
	Digital Health	
Funding	Max 15.000€ / project	Max 30.000€ / project

The funding granted to beneficiary projects can only be used for project development expenses with the purpose of advancing its viability and valorisation, increasing its IML.

In no case can the aid be justified by salaries of researchers and/or administrative staff. Indirect costs (overheads) cannot be included either.

Details of **eligible expenses**:

- Consumables (for validation experiments, proof of concept).
- Subcontracting Innovation activities (e.g., external services necessary for project development, such as consulting on business aspects, intellectual property, regulatory).
- Technological product development (prototyping, with a clear orientation towards validation/market).
- Maintenance costs of existing intellectual property, up to a maximum of 20% of the total budget.

Details of **non-eligible expenses**:

- Personnel hiring expenses.
- Basic research activities.
- Subcontracting services to companies in which Campus Clínic institutions have a stake.

Compatibility of aid:

If selected projects have previously or concurrently obtained other types of funding, it must be ensured that both funding lines cover different activities, avoiding double funding. In the case of having other funds, beneficiaries commit to signing a document declaring that the received funds do not subsidize the same tasks to be developed in the project, and if applicable, to inform funders of existing aid. Failure to comply with the terms of the call once funding has been granted, the managing entity reserves the right to reclaim it.

4. Application

Step 1: EOI

Projects interested in applying may send an Expression of Interest (EOI) directly by email to innovacio@clinic.cat by **June 23, 2025**. Projects that send an EOI will receive support from the Campus Clínic Innovation team in drafting the final project proposals.

If no EOI is sent, projects may still apply to the “Idees cap a mercat” call, but support in drafting and submitting proposals cannot be guaranteed.

Step 2: Submission of project proposals

To submit the proposals, interested professionals must submit the following documentation through the AcceleratorApp platform, which can be found at the following link:

<https://campusclinicinnova.acceleratorapp.co/application/new?program=idees-cap-a-mercat-cci-2025>

- Completed application form (found at the application link).
- Project PPT presentation complementing the form: providing preclinical results, images that help understand the problem-solution, problem size estimation, etc., with 5 slides.

5. Evaluation and Selection Process

The selection of winning projects will be governed by the conditions specified below, which include the evaluation criteria and the composition of the evaluation committee. Once the call closes, proposals will be reviewed to determine their validity based on inclusion and exclusion criteria. At this point, the evaluation committee may decide to discard applications that do not meet the mentioned criteria. The committee also reserves the right to change projects between categories (Incubem and Accelerem) if it considers that they have applied to a category that is not appropriate for the maturity level presented by the project.

Evaluation Phase 1: Remote evaluation

From among the candidate proposals, the evaluation committee will select a maximum of 12 finalist projects from all received (6 projects in the “Incubem” category and 6 in “Accelerem”). The evaluation committee is composed of external experts to Campus Clínic, who will contribute their knowledge in the evaluation of innovative projects in the Health sector.

Evaluation Phase 2: Finals

The 12 finalist projects will defend their project before an external expert jury in an oral presentation. This

jury will be responsible for deciding the 6 winners, 3 in “Incubem” and 3 in “Accelerem”. The selected projects will be announced during the presentation and awards ceremony that will take place during the CAMPUS CLÍNICA INNOVA 2025 Conference. These selected projects will have to briefly present their project in 1 minute to the public.

Evaluation Criteria:

<p>PROBLEM (30%)</p> <ul style="list-style-type: none"> • Relevant identified need • Market size and potential • Project impact (social, economic, and sustainability) 	<p>SOLUTION (20%)</p> <ul style="list-style-type: none"> • Degree of solution disruption • Value proposition, competitive advantage • Feasibility of the solution (the solution can be easily implemented in other hospitals, reach different geographical areas, etc.)
<p>TRANSFERABILITY AND IMPLEMENTATION CAPACITY (20%)</p> <ul style="list-style-type: none"> • Viable business model • Viability of IP strategy • and economic justification 	<p>TEAM (30%)</p> <ul style="list-style-type: none"> • Motivation and dedication of the work team • Complementarity of team members

It is important to mention that the evaluation committee commits to selecting winning projects in both categories (Accelerem and Incubem) independently. However, there is no guarantee that projects will be selected within all three modalities per category. The organization of the initiative reserves the right to redistribute winning projects across different modalities if it considers that they have not applied to the correct category based on their maturity status (IMLs).

6. Commitment of Selected Projects

- Project leaders of winning projects commit to participating in the support program, which implies:
- A first kick-off meeting with the Campus Clínic Innovation team to design the work plan and the use of economic resources (tentatively, in December 2025).
- Periodic monthly work and project follow-up meetings (to be defined with the support team).
- Mentoring sessions with external experts, to receive active feedback on the project.
- A closing meeting, to assess the support received, the project status, budget execution, and evaluate next actions. A brief summary of the milestones achieved in the project thanks to the received funding must be provided.

Failure to actively participate in the support program, HCB reserves the right to reclaim the unexecuted economic aid from the project team. In case of project inactivity or agreed closure with the project team, any money not used after one year must be returned to the initiative's managing entity (HCB).

7. Confidentiality and Personal Data Protection

All those involved in the organization of the initiative are subject to confidentiality agreements. In

compliance with applicable regulations on the protection of personal data, we inform that the personal data provided within the framework of participation in the Campus Clínic Innova initiative will be incorporated into a file with the exclusive purpose of the correct organization and development of the program. The submitted documentation will be deleted from the archives of the HCB Research and Innovation Directorate upon request of the applicant.

8. Ownership of Results and Intellectual Property

Selected projects must adhere to the internal Intellectual Property Rights (IPR) policies of the Campus Clínic institution to which they belong.

9. Publicity and Dissemination

Selected projects commit to authorizing Campus Clínic institutions to record their oral communication within the framework of the CAMPUS CLÍNICA INNOVA 2025 Conference if applicable, and the subsequent dissemination of their work through any of the institutional communication channels. This authorization implies the commitment of Campus Clínic institutions not to transfer the images to any other company and not to use them for any commercial purpose.

10. Acceptance of the Terms

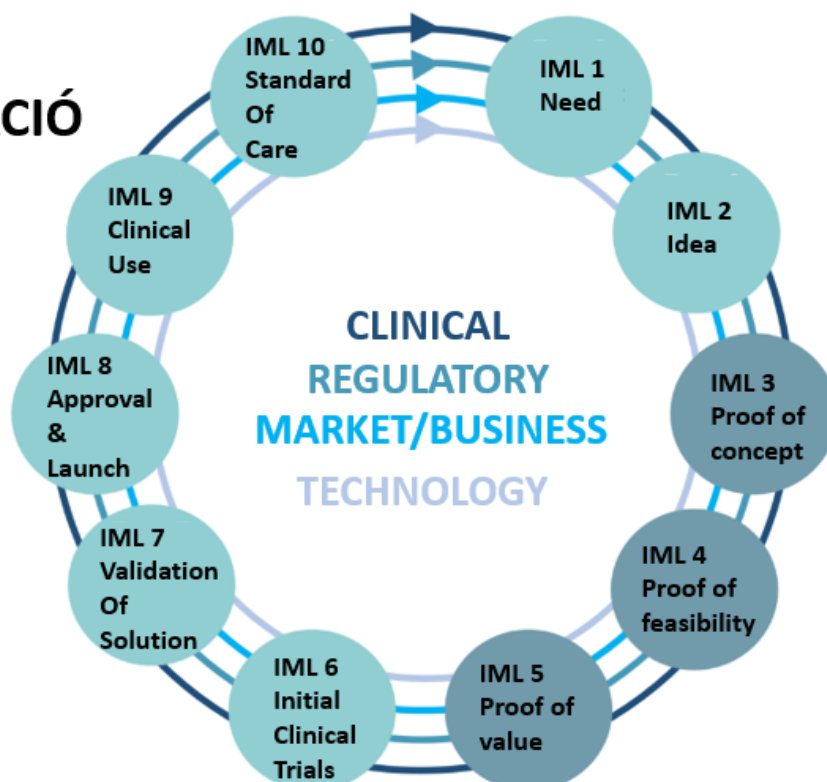
Through the registration process, candidates assume the following commitments:

- They accept and comply with the program's terms.
- Participation in this call implies acceptance of these terms and the decision of the evaluation committee, and the renunciation of any type of claim.
- The information provided is truthful. If not, the submitted proposals will be discarded.
- They are the intellectual authors of the ideas they present and have not used privileged or registered information without the corresponding permissions.
- They commit to delivering additional information that may be required and is not confidential.

To evaluate the maturity of an innovation project, we use the **Health Innovation Cycle**, which is based on the Innovation Maturity Levels (IML) scale. It is a 10-phase scale (10 IMLs) based on milestones that determine the milestones of the **Health Innovation Cycle**. This methodology is based on a 10-phase scale (10 IMLs), which allows innovative individuals and entities to advance more quickly and effectively in the development of their projects. To maximize the efficiency and probability of project success, it is important to advance in parallel in 4 domains (clinical, market/business, regulatory, and technology) between each of the phases.

It is a methodology developed by CIMIT in Boston (www.cimit.org), specific to Health projects and with a degree of distinction between projects in the Biotech, Medtech, and Digital Health fields.

CICLE D'INNOVACIÓ EN SALUT



To know exactly which activities a project must have completed to be considered at one IML or another, there are checklists for different types of projects. These checklists are detailed in the following Annexes.

Annex 2 –MEDTECH projects

Innovation Maturity Level	Name	Overall Description	Innovation Maturity Level Milestones			
			Clinical	Market/Business	Regulatory	Technology
1	Need	Insights into unmet clinical needs and available solutions	<input type="checkbox"/> Unmet need statement <input type="checkbox"/> Disease state characterization	<input type="checkbox"/> Needs screening & selection <input type="checkbox"/> Existing solutions characterization	<input type="checkbox"/> Regulatory familiarization	<input type="checkbox"/> State-of-the-Art summary
2	Idea	Potential solution to unmet need described, evaluated and selected	<input type="checkbox"/> Workflow scenario <input type="checkbox"/> Updated need statement <input type="checkbox"/> Envisioned benefit statement <input type="checkbox"/> Feedback from 5+ clinical stakeholders	<input type="checkbox"/> Competitive landscape <input type="checkbox"/> Envisioned Value Proposition <input type="checkbox"/> Key stakeholders identified <input type="checkbox"/> Reimbursement familiarization	<input type="checkbox"/> Medical device determination (MDR in EU) <input type="checkbox"/> Comparable identified	<input type="checkbox"/> Idea screening and selection <input type="checkbox"/> Paper Prototype <input type="checkbox"/> Institutional IP disclosure
3	Proof of Concept (PoC)	Key component concepts validated in models and value proposition tested	<input type="checkbox"/> Feedback from clinical stakeholders in 5+ settings <input type="checkbox"/> Updated need statement and workflow scenario <input type="checkbox"/> Target outcomes	<input type="checkbox"/> Competing solutions characterization <input type="checkbox"/> Preliminary value proposition <input type="checkbox"/> Path-to-Payment plan <input type="checkbox"/> Stakeholder map <input type="checkbox"/> Business protection model	<input type="checkbox"/> Preliminary regulatory classification <input type="checkbox"/> Preliminary regulatory pathway <input type="checkbox"/> Preliminary intended /indications for use <input type="checkbox"/> Preliminary risk and hazard analysis	<input type="checkbox"/> Key component PoC prototypes <input type="checkbox"/> Demonstration results <input type="checkbox"/> Preliminary Freedom to Operate (FTO) Assessment <input type="checkbox"/> Updated institutional IP disclosure <input type="checkbox"/> Key in-sourcing requirements
4	Proof of Feasibility (PoF)	Feasibility of whole solution demonstrated in models and in feedback from stakeholders	<input type="checkbox"/> Feedback on users in 20+ settings <input type="checkbox"/> Updated need statement and Use Case scenario/workflow <input type="checkbox"/> Updated target outcomes	<input type="checkbox"/> Feedback from 5+ economic buyers <input type="checkbox"/> Preliminary business model <input type="checkbox"/> Development plan <input type="checkbox"/> Key relationships identified <input type="checkbox"/> Business advisory board	<input type="checkbox"/> Draft essential requirements checklist <input type="checkbox"/> Draft product claims <input type="checkbox"/> Draft instructions for use <input type="checkbox"/> Institutional approval request(s) <input type="checkbox"/> Submission pathway defined	<input type="checkbox"/> Product Requirement Document (PRD) <input type="checkbox"/> "Works Like" and "Looks Like" prototypes <input type="checkbox"/> Essential experiment results <input type="checkbox"/> Provisional IP filing & initial FTO review <input type="checkbox"/> Key in-sourcing plans <input type="checkbox"/> Manufacturing/QMS plan
5	Proof of Value (PoV)	The potential of the solution to work and create value for all	<input type="checkbox"/> Feedback from 100+ users <input type="checkbox"/> Feedback from 5+ KOLs	<input type="checkbox"/> Key management team committed <input type="checkbox"/> Investor ready business plan	<input type="checkbox"/> Essential requirements checklist <input type="checkbox"/> Application form to competent authority submitted	<input type="checkbox"/> "Works Like, Looks Like, Made Like" prototypes <input type="checkbox"/> Essential technical experiments results

6	Initial Clinical Trials (ICT)	stakeholders is demonstrated	<input type="checkbox"/> Use Case/ scenarios testing with 10+ users <input type="checkbox"/> Animal/first in/with man experiments <input type="checkbox"/> Medical advisory board <input type="checkbox"/> Clinical trial endpoints	<input type="checkbox"/> Feedback from 20+ economic buyers <input type="checkbox"/> Initial Seed Investment <input type="checkbox"/> Key relationships formalized <input type="checkbox"/> Incorporation & Founders agreement	<input type="checkbox"/> Clinical Investigation approval(s)	<input type="checkbox"/> IP search report <input type="checkbox"/> GMP compliant pilot manufacturing process <input type="checkbox"/> Key in-sourcing requirements committed
		Regulated production of prototypes and collection of clinical and economic data	<input type="checkbox"/> Endpoints achieved in Feasibility clinical trials <input type="checkbox"/> Demo feedback from 25+ users <input type="checkbox"/> Peer reviewed publication(s) submitted	<input type="checkbox"/> Value quantification <input type="checkbox"/> Feedback from 25+ economic buyers <input type="checkbox"/> 1st institutional investment	<input type="checkbox"/> GDPR/HIPAA compliance <input type="checkbox"/> Security and vulnerability certifications <input type="checkbox"/> Data requirements confirmation <input type="checkbox"/> Pre-submission filed	<input type="checkbox"/> cGMPs compliant manufacturing process <input type="checkbox"/> Updated specification & experimental validation <input type="checkbox"/> All in-sourcing licensing requirements achieved <input type="checkbox"/> Full IP application
		The solution is shown to be effective and its value to all stakeholders is validated	<input type="checkbox"/> Endpoints achieved in pivotal clinical trials <input type="checkbox"/> Peer reviewed publication(s) accepted	<input type="checkbox"/> Purchasing intent from 10+ buyers <input type="checkbox"/> 2nd round of institutional investment	<input type="checkbox"/> Submission of Technical file to regulatory body	<input type="checkbox"/> Quality assured process validation (cGMP) <input type="checkbox"/> Updated specification & experimental validation
8	Approval & Launch (A&L)	Institutional and regulatory approval received and sales launch	<input type="checkbox"/> Training materials & support established <input type="checkbox"/> Specialty medical groups review in place	<input type="checkbox"/> Initial sales <input type="checkbox"/> Regionalization plans	<input type="checkbox"/> Registration and listing <input type="checkbox"/> CMS/Public Coverage and CPT/DRG code determination	<input type="checkbox"/> Finalized cGMP production environment <input type="checkbox"/> IP for improvements filed
9	Clinical Use (Use)	The solution is used successfully in day-to-day clinical practice	<input type="checkbox"/> Included in local practice guidelines <input type="checkbox"/> Peer reviewed publications	<input type="checkbox"/> Profitable sales <input type="checkbox"/> New markets launched	<input type="checkbox"/> Monitoring/ inspections	<input type="checkbox"/> Improvement plan <input type="checkbox"/> Key patents issued
10	Standard of Care (SoC)	The solution is recognised as the standard of care	<input type="checkbox"/> Recommended practice by medical specialty	<input type="checkbox"/> Dominant market share <input type="checkbox"/> Health economics study	<input type="checkbox"/> Product Obsolescence plan	<input type="checkbox"/> Component Obsolescence plan

Annex 3 –DIGITAL HEALTH projects

Innovation Maturity Level	Name	Overall Description	Innovation Maturity Level Milestones			
			Clinical	Market/Business	Regulatory	Technology
1	Need	Insights into unmet clinical needs and available solutions	<input type="checkbox"/> Unmet need statement <input type="checkbox"/> Disease state characterization	<input type="checkbox"/> Needs screening & selection <input type="checkbox"/> Existing solutions characterization	<input type="checkbox"/> Regulatory familiarization	<input type="checkbox"/> State-of-the-Art summary
2	Idea	Potential solution to unmet need described, evaluated and selected	<input type="checkbox"/> Workflow scenario <input type="checkbox"/> Updated need statement <input type="checkbox"/> Envisioned benefit statement <input type="checkbox"/> Feedback from 5+ clinical stakeholders	<input type="checkbox"/> Competitive landscape <input type="checkbox"/> Envisioned Value Proposition <input type="checkbox"/> Key stakeholders identified <input type="checkbox"/> Reimbursement familiarization	<input type="checkbox"/> Medical device determination (MDR in EU) <input type="checkbox"/> Comparable identified	<input type="checkbox"/> Idea screening and selection <input type="checkbox"/> System and module requirement specification <input type="checkbox"/> Interface mock-ups <input type="checkbox"/> Institutional IP disclosure
3	Proof of Concept (PoC)	Key component concepts validated in models and value proposition tested	<input type="checkbox"/> Feedback from clinical stakeholders in 5+ settings <input type="checkbox"/> Updated need statement and workflow scenario <input type="checkbox"/> Target outcomes	<input type="checkbox"/> Competing solutions characterization <input type="checkbox"/> Preliminary value proposition <input type="checkbox"/> Path-to-Payment plan <input type="checkbox"/> Stakeholder map <input type="checkbox"/> Business protection model	<input type="checkbox"/> Preliminary regulatory classification <input type="checkbox"/> Preliminary regulatory pathway <input type="checkbox"/> Preliminary intended /indications for use <input type="checkbox"/> Preliminary risk and hazard analysis	<input type="checkbox"/> Preliminary system and software architecture <input type="checkbox"/> Key module PoC prototypes <input type="checkbox"/> Demonstration results <input type="checkbox"/> Updated institutional IP disclosure <input type="checkbox"/> Key in-sourcing requirements
4	Proof of Feasibility (PoF)	Feasibility of whole solution demonstrated in models and in feedback from stakeholders	<input type="checkbox"/> Feedback on users in 20+ settings <input type="checkbox"/> Updated need statement and Use Case scenario/workflow <input type="checkbox"/> Updated target outcomes	<input type="checkbox"/> Feedback from 5+ economic buyers <input type="checkbox"/> Preliminary business model <input type="checkbox"/> Development plan <input type="checkbox"/> Key relationships identified <input type="checkbox"/> Business advisory board	<input type="checkbox"/> Draft essential requirements checklist <input type="checkbox"/> Draft product claims <input type="checkbox"/> Draft instructions for use <input type="checkbox"/> Institutional approval request(s) <input type="checkbox"/> Cyber security plan <input type="checkbox"/> Submission pathway defined	<input type="checkbox"/> Product Requirement Document (PRD) <input type="checkbox"/> Software and hardware architecture <input type="checkbox"/> "Works Like" prototype <input type="checkbox"/> Essential experiment results <input type="checkbox"/> Provisional IP filing & initial FTO review <input type="checkbox"/> Key in-sourcing plans <input type="checkbox"/> Risk mitigation and interoperability plan
5	Proof of Value	The potential of the solution to work and create value for all	<input type="checkbox"/> Feedback from 100+ users <input type="checkbox"/> Feedback from 5+ KOLs	<input type="checkbox"/> Key management team committed <input checked="" type="checkbox"/> Investor ready business plan	<input type="checkbox"/> Essential requirements checklist	<input type="checkbox"/> "Works Like, Looks Like, prototypes <input type="checkbox"/> Essential technical experiments results

6	(PoV)	stakeholders is demonstrated	<input type="checkbox"/> Medical advisory board <input type="checkbox"/> Clinical pilot <input type="checkbox"/> Clinical trial endpoints	<input type="checkbox"/> Feedback from 20+ economic buyers <input type="checkbox"/> Initial Seed Investment <input type="checkbox"/> Key relationships formalized <input type="checkbox"/> Incorporation & Founders agreement	<input type="checkbox"/> Application form to competent authority submitted <input type="checkbox"/> Clinical Investigation approval(s) <input type="checkbox"/> Protected Health Information (ePHI) plans	<input type="checkbox"/> Interoperability validation <input type="checkbox"/> cGMP medical software and production environments (s) <input type="checkbox"/> Key in-sourcing requirements committed
	Initial Clinical Trials (ICT)	Regulated production of prototypes and collection of clinical and economic data	<input type="checkbox"/> Endpoints achieved in Feasibility clinical trials <input type="checkbox"/> Demo feedback from 25+ users <input type="checkbox"/> Peer reviewed publication(s) submitted	<input type="checkbox"/> Value quantification <input type="checkbox"/> Feedback from 25+ economic buyers <input type="checkbox"/> 1st institutional investment	<input type="checkbox"/> GDPR/HIPAA compliance <input type="checkbox"/> Security and vulnerability certifications <input type="checkbox"/> Data requirements confirmation <input type="checkbox"/> Pre-submission filed	<input type="checkbox"/> Updated specification & experimental validation <input type="checkbox"/> All in-sourcing licensing requirements achieved <input type="checkbox"/> Full IP application
7	Validation of Solution (VoS)	The solution is shown to be effective and its value to all stakeholders is validated	<input type="checkbox"/> Endpoints achieved in pivotal clinical trials <input type="checkbox"/> Peer reviewed publication(s) accepted	<input type="checkbox"/> Purchasing intent from 10+ buyers <input type="checkbox"/> 2nd round of institutional investment	<input type="checkbox"/> Submission of Technical file to regulatory body	<input type="checkbox"/> Quality assured process validation (cGMP) <input type="checkbox"/> Updated specification & experimental validation
8	Approval & Launch (A&L)	Institutional and regulatory approval received and sales launch	<input type="checkbox"/> Training materials & support established <input type="checkbox"/> Specialty medical groups review in place	<input type="checkbox"/> Initial sales/deployment <input type="checkbox"/> Regionalization plans	<input type="checkbox"/> Registration and listing <input type="checkbox"/> CMS/Public Coverage and CPT/DRG code determination	<input type="checkbox"/> Finalized cGMP production environment <input type="checkbox"/> Regionalization requirements
9	Clinical Use (Use)	The solution is used successfully in day-to-day clinical practice	<input type="checkbox"/> Included in local practice guidelines <input type="checkbox"/> Peer reviewed publications	<input type="checkbox"/> Profitable sales <input type="checkbox"/> New markets launched	<input type="checkbox"/> Monitoring/ inspections	<input type="checkbox"/> Improvement plan <input type="checkbox"/> Regionalization implemented
10	Standard of Care (SoC)	The solution is recognised as the standard of care	<input type="checkbox"/> Recommended practice by medical specialty	<input type="checkbox"/> Dominant market share <input type="checkbox"/> Health economics study	<input type="checkbox"/> Product Obsolescence plan	<input type="checkbox"/> Component Obsolescence plan

Annex 4 –BIOMARKERS projects

Innovation Maturity Level	Name	Overall Description	Innovation Maturity Level Milestones			
			Clinical	Market/Business	Regulatory	Technology
1	Need	Insights into unmet clinical needs and available solutions	<input type="checkbox"/> Unmet need statement <input type="checkbox"/> Disease state characterization	<input type="checkbox"/> Needs screening & selection <input type="checkbox"/> Existing solutions characterization	<input type="checkbox"/> Regulatory familiarization	<input type="checkbox"/> State-of-the-Art summary
2	Idea	Potential solution to unmet need described, evaluated and selected	<input type="checkbox"/> Clinical Workflow scenario <input type="checkbox"/> Updated need statement <input type="checkbox"/> Envisioned benefit statement <input type="checkbox"/> Feedback from 5+ clinical stakeholders	<input type="checkbox"/> Competitive landscape <input type="checkbox"/> Envisioned Value Proposition <input type="checkbox"/> Key stakeholders identified <input type="checkbox"/> Reimbursement familiarization	<input type="checkbox"/> Medical device determination (MDR in EU) <input type="checkbox"/> Comparable identified	<input type="checkbox"/> Idea screening and selection <input type="checkbox"/> Preliminary Target Product Profile <input type="checkbox"/> Biological mechanism of action identified <input type="checkbox"/> Institutional IP disclosure
3	Proof of Concept (PoC)	Key component concepts validated in models and value proposition tested	<input type="checkbox"/> Feedback from clinical stakeholders in 5+ settings <input type="checkbox"/> Updated need statement and workflow scenario <input type="checkbox"/> Target outcomes	<input type="checkbox"/> Competing solutions characterization <input type="checkbox"/> Preliminary value proposition <input type="checkbox"/> Path-to-Payment plan <input type="checkbox"/> Stakeholder map <input type="checkbox"/> Business protection model	<input type="checkbox"/> Preliminary regulatory classification <input type="checkbox"/> Preliminary regulatory pathway <input type="checkbox"/> Preliminary intended /indications for use	<input type="checkbox"/> Key mechanism of action validated <input type="checkbox"/> Updated Target Product Profile (TPP) <input type="checkbox"/> Preliminary Freedom to Operate (FTO) Assessment <input type="checkbox"/> Updated institutional IP disclosure <input type="checkbox"/> Key in-sourcing requirements
4	Proof of Feasibility (PoF)	Feasibility of whole solution demonstrated in models and in feedback from stakeholders	<input type="checkbox"/> Feedback on users in 20+ settings <input type="checkbox"/> Updated need statement and Use Case scenario/workflow <input type="checkbox"/> Updated target outcomes	<input type="checkbox"/> Feedback from 5+ economic buyers <input type="checkbox"/> Preliminary business model <input type="checkbox"/> Development plan <input type="checkbox"/> Key relationships identified <input type="checkbox"/> Business advisory board	<input type="checkbox"/> Draft essential requirements checklist <input type="checkbox"/> Draft product claims <input type="checkbox"/> Draft instructions for use <input type="checkbox"/> Institutional approval request(s) <input type="checkbox"/> Submission pathway defined	<input type="checkbox"/> Updated Target Product Profile (TPP) <input type="checkbox"/> "Works Like" and "Looks Like" packaging prototypes <input type="checkbox"/> Essential experiment results <input type="checkbox"/> Provisional IP filing & initial FTO review <input type="checkbox"/> Key in-sourcing plans <input type="checkbox"/> Manufacturing/QMS plan
5	Proof of Value (PoV)	The potential of the solution to work and create value for all stakeholders is demonstrated	<input type="checkbox"/> Feedback from 100+ users <input type="checkbox"/> Feedback from 5+ KOLs <input type="checkbox"/> Animal/first in/with man experiments <input type="checkbox"/> Medical advisory board	<input type="checkbox"/> Key management team committed <input type="checkbox"/> Investor ready business plan <input type="checkbox"/> Feedback from 20+ economic buyers <input type="checkbox"/> Initial Seed Investment <input type="checkbox"/> Key relationships formalized	<input type="checkbox"/> Essential requirements checklist <input type="checkbox"/> Application form to competent authority submitted <input type="checkbox"/> Clinical Investigation approval(s)	<input type="checkbox"/> "Works Like, Looks Like, Made Like", "Made Like" prototypes <input type="checkbox"/> Updated TPP & Essential technical experiments results <input type="checkbox"/> IP search report

			<input type="checkbox"/> Clinical trial endpoints	<input type="checkbox"/> Incorporation & Founders agreement		<input type="checkbox"/> cGMP compliant pilot manufacturing process <input type="checkbox"/> Key in-sourcing requirements committed <input type="checkbox"/> Conference/poster session/paper submitted
6	Initial Clinical Trials (ICT)	Regulated production of prototypes and collection of clinical and economic data	<input type="checkbox"/> Endpoints achieved in Feasibility clinical trials <input type="checkbox"/> Peer reviewed publication(s) submitted	<input type="checkbox"/> Value quantification <input type="checkbox"/> Feedback from 25+ economic buyers <input type="checkbox"/> 1st institutional investment	<input type="checkbox"/> Data requirements confirmation <input type="checkbox"/> Pre-submission filed	<input type="checkbox"/> cGMPs compliant manufacturing process <input type="checkbox"/> Updated TPP & experimental validation <input type="checkbox"/> All in-sourcing licensing requirements achieved <input type="checkbox"/> Full IP application
7	Validation of Solution (VoS)	The solution is shown to be effective and its value to all stakeholders is validated	<input type="checkbox"/> Endpoints achieved in pivotal clinical trials <input type="checkbox"/> Peer reviewed publication(s) accepted	<input type="checkbox"/> Purchasing intent from 10+ buyers <input type="checkbox"/> 2nd round of institutional investment	<input type="checkbox"/> Submission of Technical file to regulatory body	<input type="checkbox"/> Quality assured process validation (cGMP) <input type="checkbox"/> Updated TPP & experimental validation
8	Approval & Launch (A&L)	Institutional and regulatory approval received and sales launch	<input type="checkbox"/> Training materials & support established <input type="checkbox"/> Specialty medical groups review in place	<input type="checkbox"/> Initial sales <input type="checkbox"/> Regionalization plans	<input type="checkbox"/> Registration and listing <input type="checkbox"/> CMS/Public Coverage and CPT/DRG code determination	<input type="checkbox"/> Finalized cGMP production environment <input type="checkbox"/> IP for improvements filed
9	Clinical Use (Use)	The solution is used successfully in day-to-day clinical practice	<input type="checkbox"/> Included in local practice guidelines <input type="checkbox"/> Peer reviewed publications	<input type="checkbox"/> Profitable sales <input type="checkbox"/> New markets launched	<input type="checkbox"/> Monitoring/ inspections	<input type="checkbox"/> Improvement plan <input type="checkbox"/> Key patents issued
10	Standard of Care (SoC)	The solution is recognised as the standard of care	<input type="checkbox"/> Recommended practice by medical specialty	<input type="checkbox"/> Dominant market share <input type="checkbox"/> Health economics study	<input type="checkbox"/> Product Obsolescence plan	<input type="checkbox"/> Component Obsolescence plan

Annex 5 – BIOTECH projects

Innovation Maturity			Innovation Maturity Level Milestones			
Level	Name	Overall Description	Clinical Validation	Market/Business	Technology	Regulatory
1	Need	Insights into unmet medical needs and available solutions	<input type="checkbox"/> Unmet needs defined <input type="checkbox"/> Disease state characterized <input type="checkbox"/> Biological Mechanism of action identified <input type="checkbox"/> Cellular disease pathway identified and described	<input type="checkbox"/> Deficiency in existing solutions identified <input type="checkbox"/> Competitive landscape identified (academic, in pre-clinical/clinical development/commercial) <input type="checkbox"/> Market Assessment/ Initial description of target population and its biological characteristics	<input type="checkbox"/> Molecular target/s identified <input type="checkbox"/> Approaches for pharmacological targeting searched and identified <input type="checkbox"/> Proposed technological modality explored (small molecule, antisense oligo, antibody, gene therapy, cell therapy, repurposed/repositioned product, etc) <input type="checkbox"/> Initial patent landscape reviewed and patentability assessment done <input type="checkbox"/> Initial institutional "Idea" (IP) disclosed to employer	<input type="checkbox"/> Clinical trials in the indication identified for reference trial design and timelines (ie. clinicaltrials.gov landscape)
2	Idea	Potential solution to unmet need described, evaluated and selected	<input type="checkbox"/> Biological pathway studied and intervention/perturbation approaches developed <input type="checkbox"/> Biotechnological platform characterized and potential use cases developed <input type="checkbox"/> Proposed patient population (SOP) defined including genetic or other bio markers (biochemical, cellular, imaging/digital/electrophysiological) if possible	<input type="checkbox"/> Envisioned Value Proposition <input type="checkbox"/> Target Product Profile – (TPP) first iteration ready <input type="checkbox"/> Identified complementary IP <input type="checkbox"/> Initial dialogue with potential stakeholders (Pharma, VC, Corporate VC, Incubators) with positive feedback <input type="checkbox"/> Investor ready business plan (milestone-based development plan R&D)	<input type="checkbox"/> Technological modality selected <input type="checkbox"/> Mechanism of action of target group elucidated in vitro <input type="checkbox"/> Compound starting point, screening and selection scheme planning done <input type="checkbox"/> Compound selection assay development initiated <input type="checkbox"/> Biological hypothesis and pharmacological hypothesis formulation identified <input type="checkbox"/> For repurposed molecules not in the market (ie, shelved big pharma products) explore availability of clinical dossier from originator <input type="checkbox"/> In licensing discussions with owners of IP have started (host institute, exclude originators of repurposed products until method of use patent is filed) <input type="checkbox"/> Statement of employer issued <input type="checkbox"/> Prior art has been assessed (Freedom to Operate analysis) and patentability of the innovation is confirmed by a patent attorney <input type="checkbox"/> Translational models (patient sample based or in-vivo) identified	<input type="checkbox"/> Regulatory Familiarization started <input type="checkbox"/> For rare disease, paediatric or cell & gene therapy: Consulted the regulatory roadmap pathways if applicable and familiarized with alternative pathways
3	Proof of Concept (PoC)	Key component concepts validated in models and value proposition tested	<input type="checkbox"/> Mechanistic and therapeutic hypothesis validated in genetic/metabolic models and/or patient derived cells – go/no-go decision <input type="checkbox"/> For repurposed products: Proof of concept in relevant in vivo model obtained with repurposed candidate with favourable HED (prospective dose in humans below doses already tested or within safety margins)	<input type="checkbox"/> Business model defined – Value inflection points identified and preliminary value creation plan defined <input type="checkbox"/> Seed investment secured <input type="checkbox"/> Stakeholder map defined <input type="checkbox"/> Scientific Advisory Board recruited <input type="checkbox"/> Communication & public dissemination plan established (ie: thesis, papers & communications in relevant scientific forums) <input type="checkbox"/> Killer experiment identified	<input type="checkbox"/> Initial hits/compound candidates synthesized and evaluated <input type="checkbox"/> Initial pharmacology analysis – efficacy, safety, PK and bioavailability in rodent/relevant animal model (if applicable) <input type="checkbox"/> IP strategy defined and first IP filing initiated <input type="checkbox"/> For non-generic repurposed products: started negotiations with originators to access IP & clinical development – enabling data (updated IPMD, only if robust IP is filed) <input type="checkbox"/> For biological or gene-therapy products: manufacturing roadmap and costing estimates defined <input type="checkbox"/> If platform – initial creation and testing of platform modules and building blocks	<input type="checkbox"/> Preliminary regulatory pathway defined <input type="checkbox"/> For advanced therapies or paediatric diseases: scientific advice / pre-IND meeting or equivalent feedback required
4	Proof of Feasibility (PoF)	Feasibility of whole solution demonstrated in models and in feedback from stakeholders	<input type="checkbox"/> Hit/lead compounds efficacy and potency in animal model or patient derived model validated	<input type="checkbox"/> Deal and market benchmark cases identified <input type="checkbox"/> Collection of economic data compared to SoC initiated (e.g. validating beach-head market)	<input type="checkbox"/> Feasibility proven in essential experiment – safety, bioavailability, PK-PD. For gene therapy product: biodistribution data in big animal (monkey, pig) provided <input type="checkbox"/> Composition of matter IP filed - IP search report is promising	<input type="checkbox"/> Drafted essential requirements checklist <input type="checkbox"/> Retrospective study performed if data available

5	Proof of Value (PoV)	The potential of the solution to work and create value for all stakeholders is demonstrated	<input type="checkbox"/> For biologicals or gene-therapy products: efficacy data in animal model obtained with regulatory compliant final candidate. <input type="checkbox"/> Updated need description with confirmation of target patient population <input type="checkbox"/> Proposed treatment scheme developed (preventive/therapeutic acute/chronic etc.) <input type="checkbox"/> Clinical KOLs consulted in adhoc preparatory meetings, positive engagement and commitment to participate in clinical trials <input type="checkbox"/> Draft clinical development plan completed (Incl. target population and line of care and target regimen) <input type="checkbox"/> CRO screening initiated <input type="checkbox"/> Potential biomarkers identified	<input type="checkbox"/> Pricing estimates validated through third party independent primary research <input type="checkbox"/> Target Product Profile – (TPP) refined	<input type="checkbox"/> In-licensing or round-A discussions are in progress to mutual satisfaction <input type="checkbox"/> Manufacturing expertise initial conversations	<input type="checkbox"/> Submission pathway defined and validated by a regulatory body (scientific advice in EMA or official pre-IND meeting for FDA) <input type="checkbox"/> Biomarker validation study approved, if needed
			<input checked="" type="checkbox"/> Clinical lead candidate validated in clinically relevant animal model <input type="checkbox"/> Clinical advisory board recruited <input checked="" type="checkbox"/> Clinical protocol completed <input type="checkbox"/> Clinical CRO selected <input type="checkbox"/> Clinical endpoints defined and validated vs. competition – clinical target efficacy value defined	<input type="checkbox"/> Peer reviewed publication(s) accepted – preclinical (consider strategic perspective) <input type="checkbox"/> Collection of economic data compared to SoC completed <input type="checkbox"/> Series A/B financing completed <input type="checkbox"/> Advanced stakeholder partnering discussions ongoing	<input type="checkbox"/> Minimum viable product (MVP) ready – clinical lead optimized <input type="checkbox"/> CMC development started in parallel to IND-enabling safety tox preclinical package. <input type="checkbox"/> Pharmaceutical development started <input checked="" type="checkbox"/> Full IP application – freedom to operate positive opinion. <input type="checkbox"/> In-licensing of essential IP is completed (For Repurposed products: including third party IND-enabling clinical data)	<input type="checkbox"/> Application form to competent authority submitted <input type="checkbox"/> Submission data package defined (essential Requirements checklist) <input type="checkbox"/> IND/CTA meeting scheduled/performed <input checked="" type="checkbox"/> IND/CTA approved <input type="checkbox"/> Clinical Investigation approval(s) achieved (Ethical committees/IRBs)
			<input checked="" type="checkbox"/> Endpoints Successfully achieved in clinical safety/efficacy trials (Phase 1/2 clinical trials)	<input type="checkbox"/> Pharmacoeconomics analysis performed <input type="checkbox"/> Advanced discussions for next steps with investors and stakeholders (pharma)	<input type="checkbox"/> Pre-clinical development of additional portfolio products <input type="checkbox"/> Long term safety studies if applicable <input type="checkbox"/> Potential formulation updates for lead product explored	<input type="checkbox"/> Additional data submitted <input type="checkbox"/> Scientific advise / FDA consultation to validate phase II design
			<input checked="" type="checkbox"/> Endpoints Successfully achieved in clinical efficacy trials (Phase 2a/2b) <input type="checkbox"/> Preparation of Phase 3 clinical studies <input type="checkbox"/> Peer reviewed publication(s) accepted -clinical <input type="checkbox"/> Additional indications explored <input type="checkbox"/> Biomarker /companion diagnostic validated (if applicable)	<input checked="" type="checkbox"/> Collaboration in place with Pharma / multiple pharma's <input type="checkbox"/> Gearing up partnerships and development of new pipeline products <input type="checkbox"/> Financing efforts in place for next round (private or public)	<input type="checkbox"/> Pharmaceutical development (final commercial formulation) completed <input type="checkbox"/> Carcinogenicity studies if applicable. <input type="checkbox"/> For biological products: full specs validated with regulatory bodies <input type="checkbox"/> For immunological products: potency test validated with regulatory bodies <input type="checkbox"/> Manufacturing of clinical batch for later phase clinical studies <input checked="" type="checkbox"/> Development of new products on the pipeline – IP submitted	<input type="checkbox"/> Additional data submitted <input type="checkbox"/> Proactive scientific advise / FDA consultation to validate phase III strategy
8	Approval & Launch (A&L)	Institutional and regulatory approval received and sales launch	<input type="checkbox"/> Specialty medical groups review in place <input type="checkbox"/> KOL's and clinical leads recruited and supportive <input checked="" type="checkbox"/> Endpoints Successfully achieved in Phase 3 clinical studies <input type="checkbox"/> Post marketing trial initiated	<input checked="" type="checkbox"/> Initial sales achieved <input type="checkbox"/> Expanding sales activities	<input type="checkbox"/> Three manufacturing batches validated <input type="checkbox"/> Alternative manufacturers identified <input type="checkbox"/> Manufacturing capability expansion planned	<input checked="" type="checkbox"/> Registration approval and listing <input type="checkbox"/> CMS/Public Coverage and CPT/DRG code determination obtained
9	Clinical Use (Use)	The solution is used successfully in day-to-day clinical practice	<input type="checkbox"/> Included in practice guidelines <input type="checkbox"/> Additional data published in peer reviewed journals	<input type="checkbox"/> Profitable sales achieved ramp-up <input type="checkbox"/> New markets launched	<input type="checkbox"/> Key patents issued. <input type="checkbox"/> Competition monitored <input type="checkbox"/> Alternative manufacturing sites validated (it may take over 2 years)	<input type="checkbox"/> Monitoring/ inspections
10	Standard of Care (SoC)	The solution is recognised as the standard of care	<input type="checkbox"/> Recommended practice by medical specialty	<input type="checkbox"/> Dominant market share status <input type="checkbox"/> Operating margin profile achieved	<input type="checkbox"/> Patents issued - Patent Lifecycle Management	<input type="checkbox"/> Health economic studies carried