



HIHI Healthcare Innovation Call 2019 Briefing Document

Health Innovation Hub Ireland

Health Innovation Hub Ireland (HIHI) was officially launched on September 26th, 2016. HIHI is hosted by University College Cork in partnership with Cork Institute of Technology, the National University of Ireland Galway and Trinity College Dublin and is supported by the Department of Business Enterprise and Innovation, Enterprise Ireland, the Department of Health and the Health Service Executive (HSE). Through this academic partnership HIHI is linked with three hospital groups in Ireland; the South /SouthWest Hospital Group, the Dublin Midlands Hospital Group and the Saolta Healthcare Group providing access to 23 hospitals, 3 clinical research facilities and the network of community based healthcare entities and pharmacies linked to these Hospital Groups. Furthermore, HIHI aims (over the next few years) to enlarge its academic and clinical partnerships. HIHI facilitates projects in any appropriate clinical location on the island, irrespective of its hospital group affiliation.

Health Innovation Hub Ireland drives collaboration between the health system and enterprises leading to the development and commercialisation of new healthcare technologies, products and services emerging from within the health system and/or enterprise. HIHI aims to establish Ireland as a leading location for start-ups and expanding healthcare companies to interface easily with hospitals, community and primary care centres and to support the development of new products and technologies from companies and from individuals working within healthcare.

Since its launch in September 2016, HIHI has managed 264 company engagements, 166 of these have resulted in follow-up support activities and 60 of these have developed into active projects within the Irish healthcare system. The HIHI 2018 Call received 71 applications, following a rigorous review process, 25 were selected for project implementation.

Health Market Potential

The healthcare market is commonly accepted as one of the biggest in the world. With healthcare inflation rates outstripping overall inflation and rapidly ageing populations in most developed economies, these costs are fast becoming unsustainable. The patient is becoming the consumer, while value for money and state of the art patient care is becoming a priority for healthcare deliverers.

Healthcare systems around the world are undergoing significant transformations supported by new and innovative healthcare practices, technologies, products and services. Ireland has a unique opportunity to deliver a step change in innovation capacity and enhance operational excellence in healthcare given the strengths of our enterprise base in life sciences, medtech and ICT coupled with a strong network of clinical entities. Enhanced collaboration between enterprise and the healthcare system can deliver economic growth, improve patient outcomes and lower healthcare service costs. Health innovation Hub Ireland is uniquely placed as an Enterprise Ireland and HSE partnership to support companies to realise healthcare market opportunities

HIHI Healthcare Innovation Call 2019

Health Innovation Hub Ireland is seeking project proposals from **companies** or **entities** whose innovative products or services are, *at a minimum*, at pre-commercial, demonstration or late development phase and have the potential to significantly impact healthcare in Ireland and internationally.

Applications may be submitted to either

the **Open Call**, for innovations that address **ANY** healthcare need

or

the **Focussed Call**, for innovations that address a HSE identified priority theme of: **Supporting Self-Management of Chronic Disease**.

Focussed Call – Supporting Self-Management of Chronic Disease

Through our Focussed Call – Supporting Self-Management of Chronic Disease, HIHI is seeking innovations to support the self-management of one or all of the following chronic illnesses: **cardiovascular disease, respiratory disease and diabetes**.

While the innovations submitted to HIHI Focussed Call should support the day-to-day self-management for those diagnosed with one (or more) of the identified chronic diseases (cardiovascular disease, respiratory disease and diabetes), it may also include early detection and identification of risk factors and support disease prevention. Our aim is to identify innovations that can be used by patients, to support self-management of their disease, support a healthier and more proactive lifestyle with the illness and ensure that optimal care is delivered to minimise complications and co-morbidity associated with the disease. The solution must demonstrate how it could integrate or work co-operatively with current healthcare supports for chronic illness in Ireland.

Applicants to the Focussed Call should refer to current processes for the management of chronic illness including (but not limited to) those provided in the reference section of this document*.

Why Chronic Disease?

According to the **WHO**, 'the burden of chronic diseases is rapidly increasing worldwide. It has been calculated that, in 2001, chronic diseases contributed approximately 60% of the 56.5 million total reported deaths in the world and approximately 46% of the global burden of disease. The proportion of the burden of non-communicable disease (NCDs) is expected to increase to 57% by 2020. Almost half of the total chronic disease deaths are attributable to cardiovascular diseases; obesity and diabetes are also showing worrying trends, not only because they already affect a large proportion of the population, but also because they have started to appear earlier in life.'

https://www.who.int/nutrition/topics/2_background/en/

The **HSE Integrated Care Programme**¹ for the **Prevention and Management of Chronic Disease** states that 'approximately 1 million people in Ireland today suffer from Diabetes, Asthma, Chronic Obstructive Pulmonary Disease (COPD) or Cardiovascular disease. The Irish longitudinal study on ageing, TILDA, reports that 64.8% of our over 65 age cohort live with co-morbidity. This is defined as the presence of two or more chronic conditions. The current and projected impact of chronic disease represents a major challenge not just for the health services, but also for Irish society and the Irish economy. We have more people living with chronic disease and multiple co-morbidity, they are living longer with the disease, and while it is good that the range of treatments available is increasing and improving, this also comes at a cost. Unless we plan for these changes now, we are going to run into significant difficulties in ten years' time. In fact, we are facing those difficulties already, as we can see in the 5% to 6% increase in the presentations to our emergency departments year on year and the impact that this is having on our acute hospital system and, in particular, available bed capacity for elective work.

The way we currently provide care for these chronic conditions is relatively ineffective, inefficient and ultimately unsustainable. Too many people end up needing hospital admission due to their chronic disease; which is something that these patients would prefer to avoid. Too many people depend on hospital out-patient services for management of their chronic diseases; which results in delays in appointments for all patients and they may experience gaps in their care as services are stretched.

We need a better way of caring for people with these diseases, and we need to do more to prevent them'. <https://www.hse.ie/eng/about/who/cspd/icp/chronic-disease/>

The **HSE National Service Plan 2019** states that 'the three most common chronic diseases are cancer, cardiovascular disease and respiratory disease. These diseases give rise to three quarters of deaths in Ireland. It is estimated that over 1.07m people over the age of 18 years currently have one or more chronic diseases (based on analysis of The Irish Longitudinal Study on Ageing (TILDA), wave1, 2017 and Quarterly National Household Survey, special module on health, 2010). However, chronic disease increases with age, the highest prevalence observed in the population aged 50 years and over. The number of people in this age cohort, living with one or more chronic disease, is estimated to increase by 40% from 2016 levels, to 1.09m in 2030 (based on analysis of TILDA data, 2018). Multi-morbidity is common in older people with 45.3% of adults aged 65 years and over affected by arthritis, 44.4% by high blood pressure, 11.8% by diabetes and 3.7% by stroke (TILDA wave 3, 2014-2015)'.
<https://www.hse.ie/eng/services/publications/serviceplans/national-service-plan-2019.pdf>

<https://www.hse.ie/eng/services/publications/serviceplans/national-service-plan-2019.pdf>

¹ *The Integrated care programmes have been restructured into the National Clinical Programmes.

Assessment Criteria (For Open and Focussed Call):

As a guideline, all projects will be assessed against a number of criteria including:

- Potential impact of the proposed innovation in addressing a **validated healthcare need**
- The ability of the innovation to integrate into current healthcare processes, or to positively disrupt them.
- Potential impact of the proposed innovation on the **healthcare system**
- Potential of the innovation to **reduce healthcare costs** in Ireland.
- Potential relevance/impact of the proposed project on **company growth** in Ireland
- Commercialisation readiness
- Market potential
- Competition
- **Export potential** of the proposed innovation
- **Feasibility** of delivering the proposed project in an Irish healthcare context.

What the Hub will offer to participating companies:

- Facilitated access to the health system for execution of the pilot project
- A final independent HHI Project Report
- Companies may use the HHI project as a "reference site"
- Support of HHI project management team to manage the execution of the project
- Access to research expertise from partner institutions
- Advice on the availability of various funding streams
- Linking entrepreneurs (when appropriate), to other relevant supports within the Irish Healthcare innovation ecosystem.

What companies MUST provide to support the projects:

- Dedicated contact personnel and when relevant, the availability of personnel at the project pilot site
- Dedicated resources to deliver project objectives - equipment, hardware, software, etc.
- Company personnel and resources must be provided at no cost to the healthcare system for project duration,
- Proactive engagement with Health Innovation Hub Ireland and healthcare personnel to deliver the project objectives
- Acknowledgement of HHI support in public presentations, publications and social media presentations.

Notes for applicants:

- HHI does not have a procurement role. As such, regardless of the outcome of HHI projects, the HSE is under no obligation to purchase the product/service
- HHI does not provide financial support for projects
- HHI does not conduct clinical trials - these are referred to our associated Clinical Research Facilities, or other members of the HRB CRCI network, where appropriate
- Projects must be implemented and run at no cost to the Healthcare location
- If a project is accepted by HHI, a Project Approval Document containing HHI terms and conditions must be completed before the start of the project
- A Final Project Report will be available to applicants on completion of the project,

Submission of Applications

The HIHI 2019 Innovation Into Healthcare **Application Form** is available for download on www.hihi.ie.

Applications are to be submitted by filling in your details and uploading the completed **Application Form** online on this [link](#).

Closing Date is before 5pm on Friday January 31st 2020

Enquiries

For general enquiries please contact HIHI at info@hihi.ie or on 021-4205560 or your nearest HIHI office:

Ms Jane O'Flynn	jane.oflynn@cit.ie	021 432 6758	(Cork)
Ms Eimear Galvin	galvinei@tcd.ie	01 896 25 29	(Dublin)
Dr Steven Griffin	steven.griffin@nuigalway.ie	091 492072	(Galway)
Dr Tanya Mulcahy	t.mulcahy@ucc.ie	021 420 5556	(Cork)

Reference Information:

Department of Health Statement of strategy 2016-2019

<http://health.gov.ie/about-us/statement-of-strategy-2016-2019/>

Diabetes in General Practices

<http://www.digp.ie/>

HIQA Health Technology Assessment of Chronic Disease Self-Management Support Interventions

<https://www.higa.ie/sites/default/files/2017-01/HTA-chronic-disease-support-interventions.pdf>

HSE Cardiovascular disease

<https://www.hse.ie/eng/health/az/c/cardiovascular-disease/>

HSE About COPD

<https://www.hse.ie/eng/about/who/cspd/ncps/copd/about/>

HSE Diabetes

<https://www.hse.ie/eng/about/who/cspd/ncps/diabetes/>

HSE National Clinical Programmes

<https://www.hse.ie/eng/about/who/cspd/ncps/>

HSE National Service Plan 2019

<https://www.hse.ie/eng/services/publications/serviceplans/national-service-plan-2019.pdf>

HSE Integrated Care Programme (now restructured within National Clinical Programmes)

<https://www.hse.ie/eng/about/who/cspd/icp/chronic-disease/>

HSE Preventing chronic disease: defining the problem

https://www.lenus.ie/bitstream/handle/10147/338212/PreventingChronicDisease_DefiningtheProblem.pdf;jsessionid=CBFCD959AA958238F143AD8D27C35301?sequence=3

HSE Self Management

<https://www.hse.ie/eng/health/hl/selfmanagement/>

Irish Heart Foundation

<https://irishheart.ie>

Living Well with a Chronic Condition: Framework for Self-Management Report

<https://www.hse.ie/eng/health/hl/selfmanagement/hse-self-management-support-final-document1.pdf>

Slaintecare

<https://www.gov.ie/en/campaigns/slaintecare-implementation-strategy/>

WHO Integrated chronic disease prevention and control

https://www.who.int/chp/about/integrated_cd/en/