




**MINISTRY OF HEALTH**  
SINGAPORE

# Grant Call on Chronic Diseases Management

National Innovation Challenge on Active and Confident Ageing

*Public Briefing*  
*21 Sep 2018*

# Programme

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# National Innovation Challenge on Active and Confident Ageing

- The National Innovation Challenge (NIC) on Active and Confident Ageing was announced by Minister for Health and Chairman of the Ministerial Committee on Ageing as part of the Action Plan for Successful Ageing on 26 August 2015
- This NIC seeks to **catalyse innovative ideas and research** in Singapore that can **transform the experience of ageing** in Singapore, tomorrow.

## More research into ageing issues:

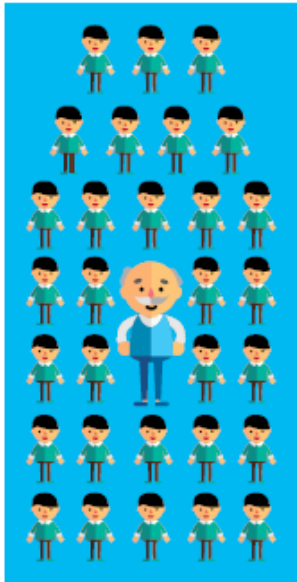
- Up to \$200 million set aside for a **National Innovation Challenge** to catalyse research related to ageing.



# Singapore is ageing rapidly

By 2030, there will be over 900,000 Singaporean seniors

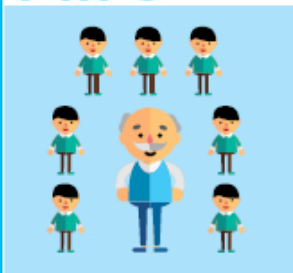
1 in 31



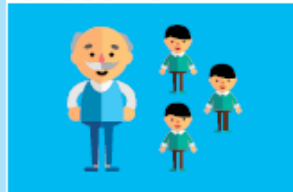
## OUR POPULATION IS AGEING RAPIDLY.

In 1970, **1 in 31** Singaporeans was 65 or older. In 2015, it was **1 in 8**. By 2030, it will be **1 in 4**. We will have over 900,000 seniors, approximately double the current 440,000.

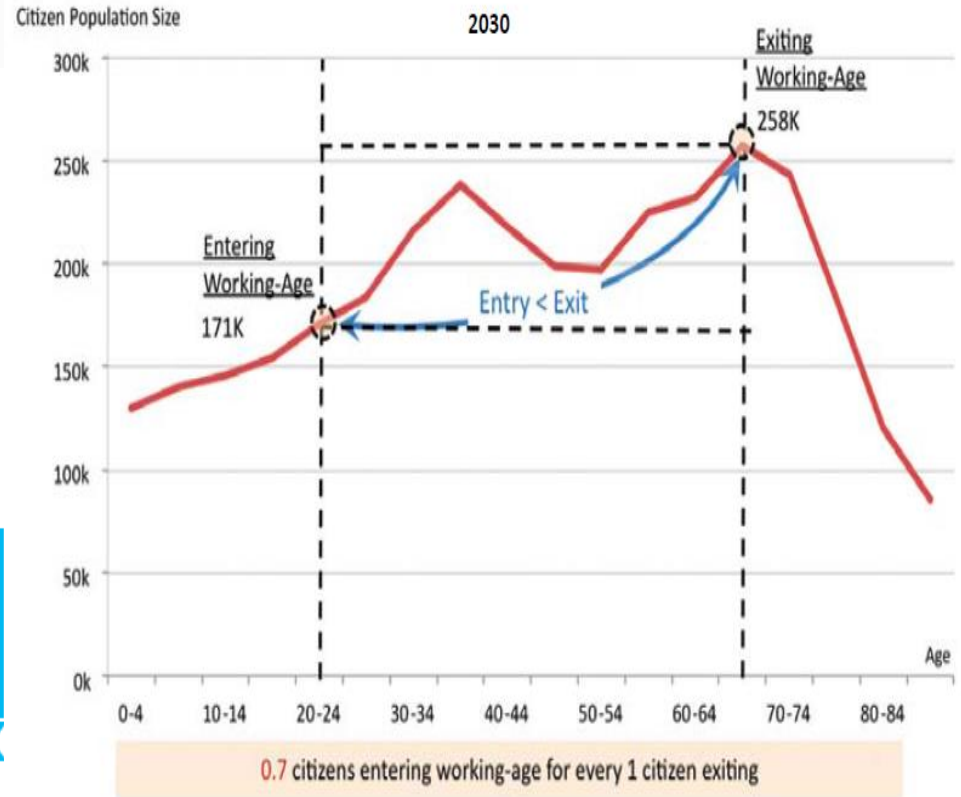
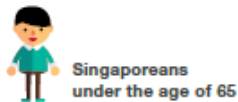
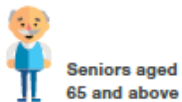
1 in 8



1 in 4



YEAR



Source: Population White Paper, Jan 2013.

# We have since launched six grant calls

## Ageing in Place



### **Care at Home Innovation Grant (Aug 2015)**

- Improve productivity of home care, while ensuring good quality care that is responsive to the needs of the clients
- We want to foster partnerships between health or social care providers and technological solutions providers



### **Enabling Innovation Grant (Nov 2016)**

We are looking for game changing innovative assistive devices or new models of assessment to enable seniors to age autonomously despite their disability.

# We have since launched six grant calls

## 'Lengthening Health Span'



### **Grant Call on Cognition (Nov 2015)**

- Translational research and innovations that could functioning and delay the onset of dementia in older adults
- Invent new models of care that will provide quality and cost effective care for seniors with dementia in the community



### **Healthy Ageing Innovation Grant**

(May 2017)

- Translational research and innovations that could (i) reduce the risk, (ii) delay the onset and/or (iii) decelerate the progress of frailty in older adults



### **Grant Call on Falls Prevention**

(Sep 2017)

- Translational research that could (i) identify seniors at a higher risk for falls in an accurate and cost effective manner, as well as (ii) reduce their fall risks



# We have since launched six grant calls

## Productive Longevity



### **Ageless Workplaces Innovation Grant**

(May 2016)

- Improve the productivity of older workers
- Enable older workers to be employable at 65 years and beyond.
- Looking for game-changing solutions

# Grant Call on Chronic Diseases Management

- This is our seventh grant call, under the NIC thrust on “Lengthening Health Span”
- We seek **translational research that could identify seniors who currently have chronic diseases and develop new care models and intervention programmes** that are effective, have lower costs and provide quality of care.
- Project Teams must consider the scalability of the solution and its ability to be sustained in the longer term.
- Research solely focused on telehealth, tele-monitoring or tele-rehabilitation would not be considered.



# Challenge Statement

The challenge is to **develop a scalable intervention programme for seniors with chronic diseases that achieves significantly better measurable outcomes as compared with current approaches**, in terms of improving adherence to management and disease control, identification of higher risk groups for additional interventions, reducing hospitalisations, empowering patients and care-givers for enhanced quality of life.

# Examples of Research Projects (1)

Potential Research may include, but are not limited to,

- **Research into new disease prevention and control methods** among seniors in the local context. This includes studying cultural specific factors that could influence the prevention, onset, progression and successful management of these medical conditions.
- **IT and Health Management** - Effective IT / mobile app solutions that can be effectively twinned with health services (i.e. health screening, promotion and health management efforts) and social support systems, to achieve better health behaviours and compliance to treatment among Singaporean older adults.

## Examples of Research Projects (2)

- **Pharmacogenetics** - Research on understanding how do different medications interact and how the elderly react to the medications with a view to identifying better strategies to help the elderly manage medication, improve medication compliance and minimise medication errors.

# Eligibility

- A PI can submit **only one application** in response to the challenge statement. However, he/she may be part of the Project Team of other applications.
- Open to all **public, private or non-profit organisations**, research institutes and institutes of higher learning, registered and/or incorporated in Singapore.
- There are no restrictions on nationality for individuals, but the entity they represent must be registered in Singapore either through the setting up of a local equivalent of the entity in Singapore or through a consortium with Singapore-registered entities in order for the entity represented to be eligible.
- Project teams are to identify a 'Host Institution' for the administration of the Research.

# Project Team Composition

- Required to partner an implementation partner and form a Project Team comprising:
  - Members from **multi-disciplinary** (e.g. pairing medical and technology, engineering) backgrounds; and
  - An **implementation partner\*** (e.g. service providers, community organisation) to test-bed the proposed solutions.
- **No restriction** on the number of Institutions, Investigators and Collaborators in each Project Team
- Applicants are expected to **form their own** partnerships.

*\*At the time of application, PI will need to identify in IGMS whether the implementation partner would be a Co-I or Collaborator.*

# Project Funding

- Awardees may qualify for **up to 80% funding** of approved qualifying costs to develop and implement their Research for a **period of up to 3 years**, with the possibility of extension for another 1 year (with no additional funding).
- Qualifying costs include both **incremental developmental and operating costs**
- Project Teams are expected to **co-fund the remaining 20% of qualifying costs**
- Support for **indirect costs**, *on top of supportable qualifying costs*, **is capped at 20% of the supportable qualifying direct costs**. Only Singapore-registered Institutions that are IHLs or not-for-profit entities, including public healthcare providers, may qualify for support for indirect costs.
- Funding will be provided in phases and subjected to the successful attainment of milestones and Key Performance Indicators (KPIs) tied to each phase.



# Explanation of Costs

- In general, qualifying costs are **incremental direct costs** that are required to **execute or implement the Research**, and are held **accountable to the performance** of the particular Research. These include,
  - Expenditure on manpower (EOM);
  - Expenditure on new equipment;
  - Overseas Travel (OT) and
  - Other operating expenses (OOE)
- **Indirect costs** are those that are **incurred for common or joint objectives** and therefore cannot be identified readily and specifically with a particular Research, but contribute to the ability of the Host Institution to support the Research. Examples include,
  - General administration and general expenses (eg. provision of research space)
  - Operation, maintenance, rental and departmental administration expenses
  - Library expenses, departmental administration expenses

# Project Phases

Project teams will have the **flexibility to decide the time allocated** to the phases as follows,

**Design phase (Proof-of-concept).** Project teams are to articulate the concept of the programme / service / prototype and the process by which to achieve stated outcomes. Project teams should also provide studies and analyses that support the concept's viability for further development.


**Development phase (Proof-of-value).** Project teams are to develop and validate the programme / service / prototype so that it takes on a clearer form to achieve the intended outcomes.

**Implementation phase (Test-bedding) - At least one year.** In this phase, project teams are to test and validate the programme / service / prototype in the field (a relevant environment). This phase may also include initial production or roll out.

# Application Process

- To submit an **application on IGMS**, PIs are required to obtain a **CorpPass** from your institution to access IGMS. For more information on how to register your institution representative as a CorpPass admin or obtain a CorpPass, please visit [www.corppass.gov.sg](http://www.corppass.gov.sg).
- The PI should submit only one application on behalf of the Project team **using the templates available on the IGMS** and upload these documents to the relevant sections in IGMS:
  - Research proposal
  - CV template (PI, Co-I/Collab)
  - Other Attachments Template (Signatories and Other Support)
- It is **mandatory** for all applications to be submitted *online via IGMS* by **15 Oct 2018, 5pm**. Please ensure that all online submissions are **endorsed by the corresponding host institution's Research Director by the closing date.**

# Project Proposal

- **Project Abstract**
  - **Objective(s)** of the Project;
  - Literature review and the **evidence/basis** for the Research;
  - Key **components and innovations** of the Research;
  - How the Research could **address the challenge statement**
  - Summary of the **implementation plan, timelines and milestones** of the Research
  - Project teams should emphasise on the **scalability and proposed plans to ensure widespread adoption of the solution**; and
  - Summary of the **evaluation framework and KPIs** to track for the Research.
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# Additional Guidance (1)

## Roles and Responsibilities

- The roles and responsibilities of every Institution, Investigator and Collaborator must be clearly specified.

## Proposed Solution(s)

- To articulate in detail the proposed solution and how it can achieve the targeted outcomes/KPIs.
- Project Teams will be expected to test-bed the proposed solution at the implementation phase if awarded the Grant.

## Implementation Plan

- Project Teams are required to describe all implementation activities, stages, Milestones and targets.

# Additional Guidance (2)

## Ethics Consideration

- Expected to ensure the safety and well-being of persons involved in any activity conducted in relation to the NIC is not compromised in any manner whatsoever.
- Ensure that all potential human subjects are assessed by a qualified assessor if necessary, e.g. allied health professional, registered nurse or doctor, to determine the need for and suitability of the prototype (if applicable) before the subjects would use the prototype.
- Take into consideration all applicable laws, including the Human Biomedical Research Act, the Health Products Act, Health Products (Medical Devices) Regulations , Allied Health Professionals Act and the Medical Registration Act to ensure that proposed designs are in line with regulatory requirements.



# Mandatory KPIs (1)

## KPI 1: Effectiveness

Project Teams are to demonstrate that the new care models and intervention programmes have improved the management of chronic diseases in seniors.

### Possible KPIs could include:

- Better adherence to medication schedule and/or lifestyle changes
- Improved care of seniors with multiple conditions
- Better self-care among seniors with chronic diseases

# Mandatory KPIs (2)

## KPI 2: Cost-effectiveness and Manpower Savings

- Project Teams are to demonstrate that the proposed intervention or solution is cost-effective and demonstrate the potential manpower savings and/or effectiveness as compared to existing programmes or intervention.

## KPI 3: Quality

- Project teams are to propose at least three clinical/client KPIs to track.
- Possible clinical / client KPIs can include:
  - Acceptability by target population
  - Adherence to programme
  - Improvement in functional, physiological, emotional, behavioural and/or cognitive well-being as measured by appropriate tools

# Broad Evaluation Criteria

<b>Component</b>	<b>Evaluation Criteria</b>
Grant Requirements	<ul style="list-style-type: none"><li>• Proposal Submission</li><li>• Locally-Based Project &amp; Lead Principal Investigator</li><li>• Team Composition</li><li>• Address Challenge Statement</li></ul>
General	<ul style="list-style-type: none"><li>• Expertise and Ability of the Lead Principal Investigator and the team to carry out the proposed research project</li></ul>
Scientific Merit	<ul style="list-style-type: none"><li>• Address an important problem to yield significant results</li><li>• Appropriate study design and sound basis for the intervention</li><li>• Robust methodology and analyses</li><li>• Advances scientific knowledge, technical capability, and/or clinical practice</li></ul>
Impact and Outcomes	<ul style="list-style-type: none"><li>• Impact</li><li>• Cost-effectiveness of the proposed solution</li><li>• Proposed outcomes / KPIs</li><li>• Scalability and sustainability of proposed solution</li></ul>
Innovativeness	<ul style="list-style-type: none"><li>• Innovative features of the proposed solution, and why are they deemed innovative</li></ul>
Implementation	<ul style="list-style-type: none"><li>• Project feasibility and adoption in the local context</li><li>• Reasonableness of funding request</li></ul>

# Timeline

<b>Activity</b>	<b>Date</b>
Call for Applications	18 Sep 2018 (Tue)
Public Briefing	21 Sep 2018 (Fri)
Deadline for Project Proposal Submission	15 Oct 2018 (Mon)
Evaluation and Moderation Process	Jan 2019 – Feb 2019
Announcement of Results	By end FY2018

# Questions?

For enquiries, please email  
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