

Centre for Healthcare Innovation Start-up Enterprise Link (CHISEL)

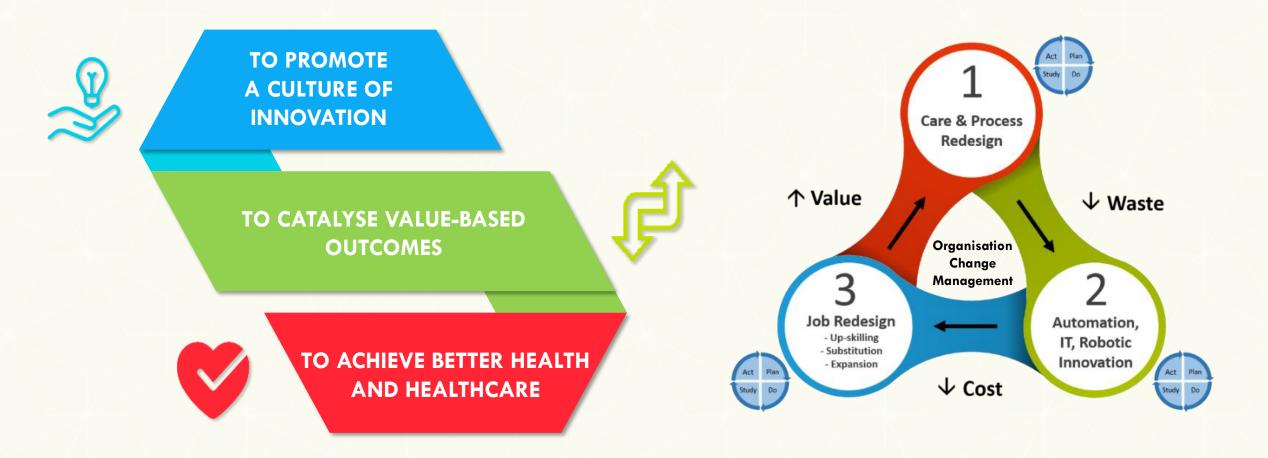
Organised By: Centre for Healthcare Innovation (CHI)

Supported by: Temasek Foundation





Our Strategic Thrusts & Our Approach to Innovation





Crossing the Adoption Chasm for Translation

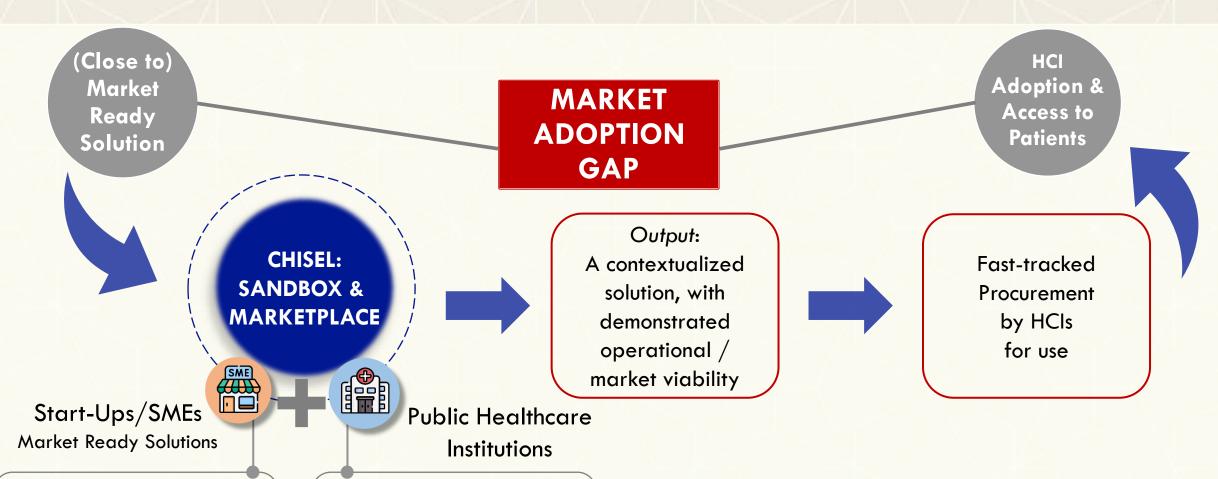
- Long process for healthcare innovation adoption, from identification of clinical need, discovery of an innovative solution, to its application in hospital and on patients
- Challenge of crossing the chasm of adoption
 - where a solution transits from market-ready status, to fit-for-mainstream use
- Due in part to:
 - Care providers needing evidence that the solution is feasible, and can deliver on stated outcomes
 - Need to compete with enterprise solutions on standard procurement routes





CHISEL - A "Sandbox" & "Marketplace"

A programme that aims to accelerate the adoption of market-ready healthcare innovations that are fit for mainstream use, at speed at scale.



- ✓ Access to real use cases
- ✓ Access to real environment
- ✓ Funded opportunity for demonstration of POV

- Access to wide range of new solutions
- ✓ Test for operational viability

Restricted

CHISEL - Value on both ends

A programme that aims to accelerate the adoption of market-ready healthcare innovations that are fit for mainstream use, at speed at scale.

A platform established for Start-Ups / SMES



Use Cases and
Environment



Funded Opportunity to
Demonstrate POV
of Market Ready
Solutions



Opportunity for Results
to be Endorsed and
Solution Adopted by
Local HCIs



Establish a **strong connection** with the
healthcare communities



Receive **guidance**, **coaching** and insights from Local HCIs

Enabling **Healthcare Institutions**



Early Access to New and Emerging
Healthcare Innovations

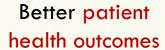


Test for Operational Feasibility
before Procurement



CHISEL - Intended Outcomes







Improved accessibility of care



Increased quality of life



Reduce the necessity and frequency to visit the hospital



Better value and cost effectiveness



CHISEL Healthcare InnoMatch 2021 - 2023

CHISEL holds a global innovation challenge - **CHISEL Healthcare InnoMatch**, for innovative, market-ready or near market-ready solutions to address critical and emerging healthcare needs.

InnoMatch 2021

- 144 participants from 31 countries
- Themes: Frail No More | Reducing Hospital Acquired Infections |
 Digitisation to Enhance Patient Care, Journey & Experience
- Test-bedding completed



Playback: https://youtu.be/hclc-36ackA

InnoMatch 2022

- 256 participants from 32 countries
- Theme: Delivering Care Beyond Hospital Walls
- Target test-bedding end date in Oct 2024



Playback: https://youtu.be/Lv ulLnQYyQ
Restricted

InnoMatch 2023

- 163 participants from 28 countries
- Theme: Reshaping Preventive
 Care for a Healthier Population
- Target test-bedding end date in Mar 2025



Playback: https://youtu.be/1Svw-0VFOK8?si=UN8DBrYjdOj5gVHv



CHISEL Healthcare InnoMatch 2021 - 2023

Hear past winners' experience: https://www.youtube.com/playlist?list=PLTrhD5VOFZmgRWMkTaet2PYFwFnXVeY4

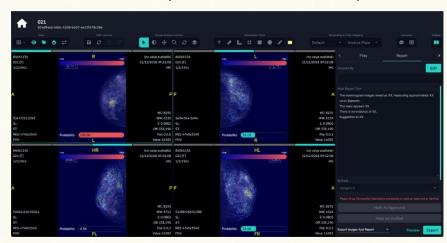
Smart Robot Therapists at Home by Articares (CHISEL 2021)

- Articares presented a scalable solution (H-Man and Care Platform) for robotics-assisted telerehabilitation at home. Its system provides intelligently adaptable therapy exercise at home while enabling remote monitoring by clinicians.
- Completed test-bed with Tan Tock Seng Hospital and evaluating by CHI Evaluation Framework (CHIEF).



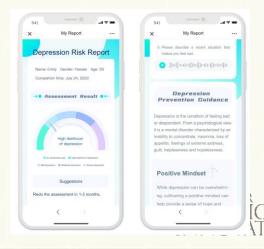
FxMammo by FathomX (CHISEL 2022)

- FxMammo is an Al assistant that analyses
 mammograms to assist early detection of
 breast cancer. With deep learning
 technologies and clinically validated
 parameters, the software improves both the
 efficiency and accuracy of existing methods,
 thereby reducing the burden on clinicians.
- Completed test-bed with National University
 Hospital, obtained I2Adopt funding from NHIC
 funding to support development of solution
 for eventual implementation and adoption.



"Using Voice to Save Lives" by Wonder Technology (CHISEL 2023)

- Voice Al Platform for mental health, providing a secure, accurate, fast, effective mental health screening and monitoring solution. The Al technology captures the subtle acoustic changes in voice and can be used to assess mental disorders such as depression.
- Test-bed preparation ongoing with Changi General Hospital.





PRESENTS



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Healthcare InnoMatch 2024 - Participating Requirements

Participating Start-ups/SMEs



≥ TRL 7

High Level Market Readiness Solutions

< S\$100M

Revenue



NOT be in Negotiation for Exit

Partner Healthcare Institution (PHI)



Committed manpower for Test Bedding



Provide necessary information and access for Test

Bedding



Healthcare InnoMatch 2024 – Funding Assistance

Up to S\$500K per project

For Start-ups/SMEs and HCI



Pilot manufacture



Consumables



Customisation



Test Bedding Services

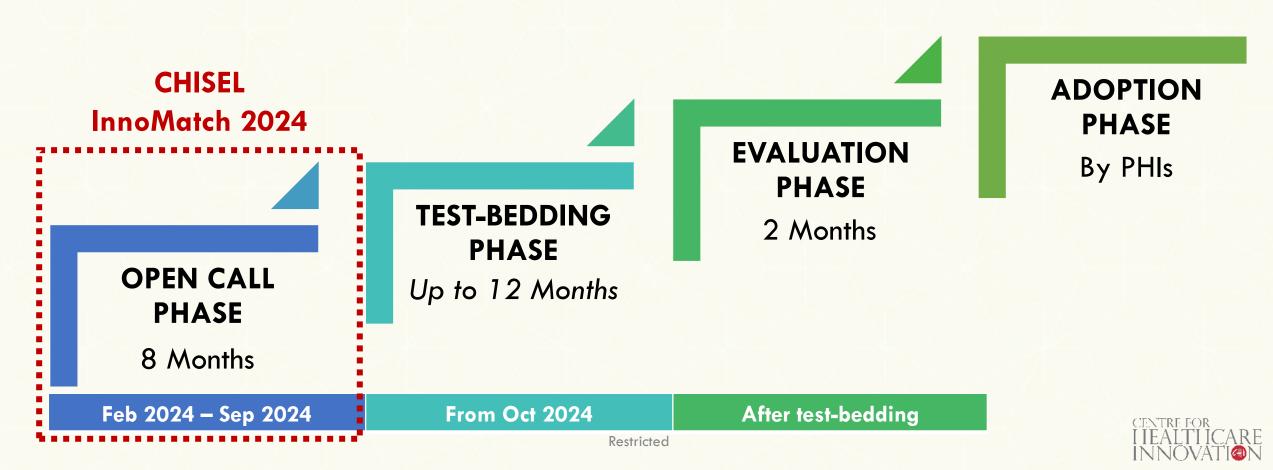


Evaluation Services



Healthcare InnoMatch 2024 - Open Call Phase

An end to end process that moves a potential solution from proof of value to adoption



Healthcare InnoMatch 2024 - Theme

Strengthening Care for a Healthier and Resilient Aging Society



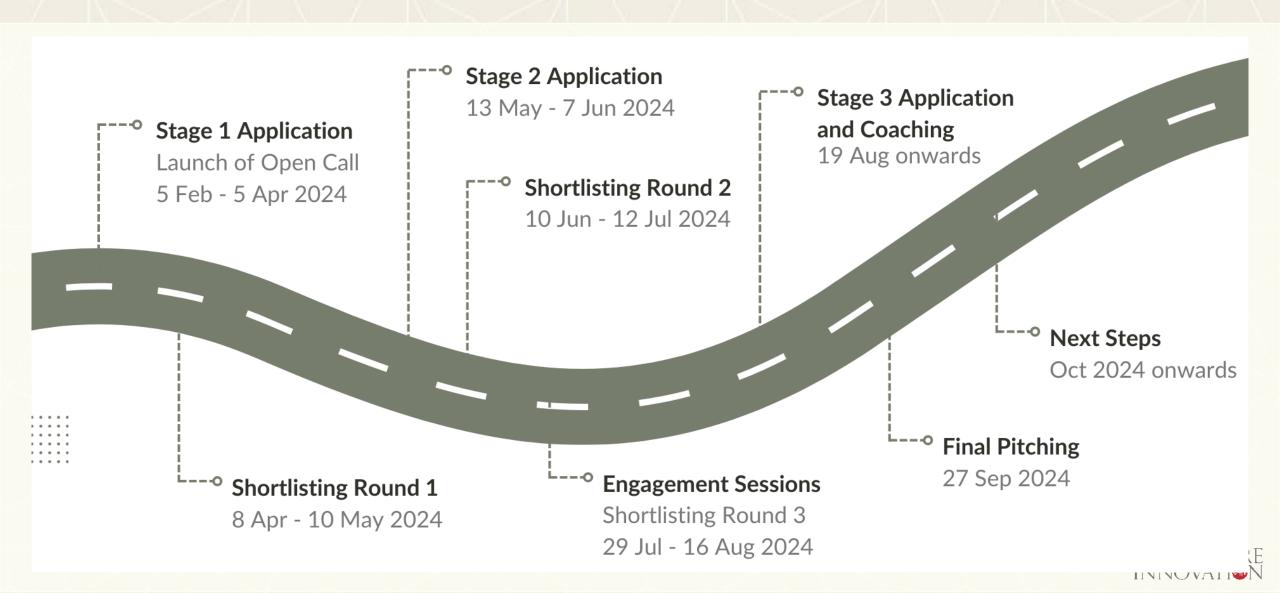
Singapore is at the forefront of preparing for a super-aged society, anticipating that by 2023, 1 in 4 citizens will be aged 65 and above. The Age Well SG initiative, a comprehensive national program, underscores the commitment to support seniors in aging actively and independently within their homes and communities. However, the challenge lies in addressing the evolving and diverse care needs of the elderly, fostering holistic well-being, and enhancing the effectiveness of existing efforts.

Problem Statement

How might disruptive innovations enhance existing efforts, bridge critical gaps and fulfil unmet needs in the holistic care of the elderly and young seniors, so as to create sustainable (business model and environment perspective) and personalised care models?



Healthcare InnoMatch 2024 - Open Call Phase Timeline



Healthcare InnoMatch 2024 - Assessment Criteria









Market Readiness



Impact
(Patient, Carer, Health System,
& Environment)



Business Plan



Clinical, Technical and Operational Capacity



Technical Viability and Compliance



Potential Test Bed Partner



Potential for Adoption in HCIs

CHISEL – Test Bedding Phase (from Oct 2024)

Selected **Assigned Project Lead** Start-Ups/SMEs from HCIs 3 months* for preparation

12 months to complete the test-bedding in a simulated clinical environment

Assigned Secondary Site Rep from the other two clusters



CHISEL 2024 — Evaluation Phase (after test-bedding)

All CHISEL 2024 test-bed solutions are to be evaluated using CHIEF. CHIEF is a holistic framework for the evaluation of innovative solutions seeking real world deployment.

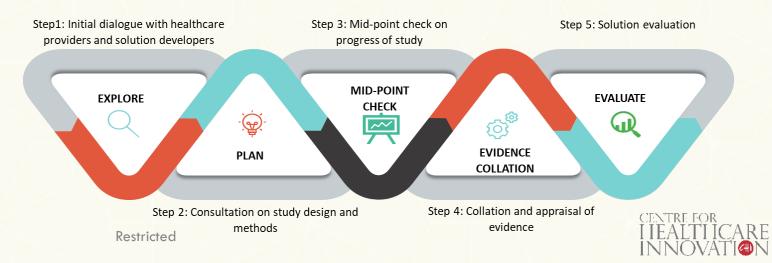
CHI Evaluation Framework (CHIEF)



Scan to view
CHIEF Guidance Document

The framework is designed to provide <u>pre-consultation on</u> <u>needs</u> and <u>tiered-evaluation</u> of the proposed solution by:

- Working with solution developers and healthcare professionals to <u>design</u> <u>studies</u> that generate relevant and high-quality evidence,
- Bringing together <u>independent clinical and industry experts</u> to provide objective evaluation of the solution, and
- Providing end recommendation on solution's <u>potential for further</u> <u>development/investment/adoption/scale</u>



CHISEL 2024 - Evaluation Phase (after test-bedding)

Tiered-based Evaluation – Value components at different pivotal stages.



Evaluate the success of the POV according to pre-agreed success criteria - CHIEF



A final evaluation report will to be shared across all participating HCls for wider adoption

POTENTIAL FOR FURTHER INVESTMENT/ EARLY ADOPTION (EVIDENCE FROM INITIAL CLINICAL STUDIES)	POTENTIAL FOR ADOPTION & INTEGRATION (EVIDENCE FROM PRAGMATIC/ REAL-WORLD STUDIES)	POTENTIAL FOR SCALE (EVIDENCE FROM IMPLEMENTATION STUDIES)



CHISEL 2024 – Adoption Phase

If success criteria are met, the participating HCI(s) will proceed to

- Demonstrate that the **resources and processes** (infrastructure, IT integration, manpower, service and/or business models) to implement the new innovation are **feasible and sustainable**; and allow PHIs the opportunity to validate the solution during service implementation transition and system integration.
- Establish National-wide Procurement Agreement through ALPS for future adoption.
- Adopt/ procure the solution directly, subject to:



1. Within the ambit of CHISEL framework



Completion of evaluation of POV using CHIEF



3. Fulfilment of CHIEF outcomes criteria, solution is ready for deployment and adoption in HCI



4. Pricing offer is made according to the preagreed negotiated price (if applicable)



CHISEL Networking Session

- Date/Time: 8 March 2024, 3pm to 5pm SGT (GMT +8)
- Venue: Ng Teng Fong Centre for Healthcare Innovation, Level 4, Kampung Square
- Programme
 - Gather more insights about Healthcare InnoMatch 2024 Theme and what clinicians are looking for
 - Hear from past winning companies and clinicians about their experience and test bed journey under the CHISEL programme
 - Network with interested clinicians and CHISEL partners for potential collaborating opportunities
- Drinks and d'oeuvres provided

REGISTER NOW!





For enquiries, please contact us at: CHISEL@chi.sg

Tsai Pi Kuang (PK)
Centre for Healthcare Innovation

DID: 6903 5350 Mobile: 9277 7521

Amber Ng

Centre for Healthcare Innovation

DID: 6903 5283 Mobile: 9895 2039

Thank You



https://for.sg/chisel2024



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APPLY NOW!

