

### **National Health Innovation Centre**

October 2015



# **Agenda**

- 1. NHIC Overview and Objectives
- 2. NHIC Grants
- 3. Partnering in Ecosystem
  - Enabling Innovation
  - Accelerating Innovation
- 4. Special Initiatives
  - NHIC AstraZeneca collaboration



### **NHIC Overview**

Provide Singapore's clinical research sector with translational funding and strategic guidance to stimulate healthcare innovation and commercialisation













Clinician-led projects with healthcare impact and commercial potential



**COMMERCIALISATION** 

Licensing Spin outs **FOLLOW-ON FUNDING** 

DxD SERI incubator SPRING



# **NHIC Objectives**

Identify and support projects with healthcare impact & commercial potential





# **NHIC Objectives - Funding**



- Funded 12 I2D projects
- Funded 4 I2P patents

**Funding** 

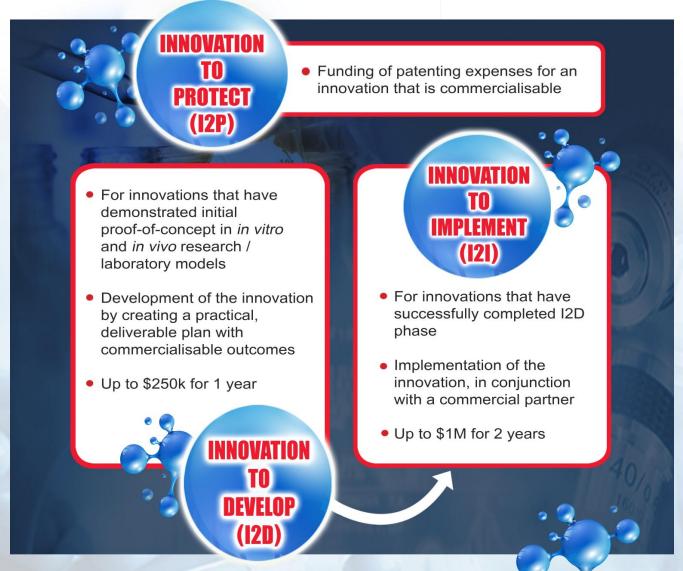
**Partnering** 

Mentoring

Deal Formation



### **NHIC Grant Streams**





# Innovation to Protect (I2P) Grant

#### Aim:

To support innovators in identifying and protecting their inventions.
 NHIC will fund the initial protection of the IP if it determines that there is significant commercial potential to the inventions.

#### Eligibility Criteria:

 At least one of the innovators must hold a primary appointment in a local public hospital/public health institution/national specialty centre/academic medical centre and salaried by the institution.

### Grant Frequency:

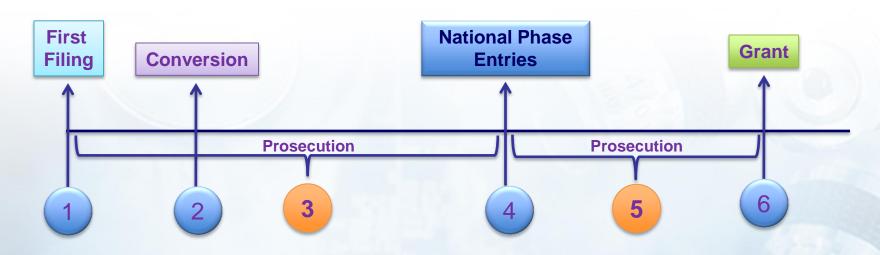
Open for application throughout the year

#### Submission Mode:

- Submission by your IP/Research/Innovation Office of your Cluster
- Email to: <u>ip@nhic.sg</u>



### **I2P Grant Quantum**



> 1, 2, 4 and 6: The respective healthcare clusters are required to submit their

Invention Disclosures and recommendation to apply for I2P funding.

> 1: Funding quantum for first filing is up to S\$10K.

2 and 4: Funding quantum for secondary filing is up to S\$40K on conversion

and national phase entries of not more than 2 countries.

> 4: NHIC will fund filing in not more than 2 countries. Filing in more than

3 countries can be considered on a case-by-case basis.

3 and 5: Cumulative office actions > S\$20K for any one country will require

additional approval from NHIC Oversight Committee.



### Innovation to Develop (I2D) Grant

#### Aim:

 To provide continued support for projects that have established the technical/scientific merit and feasibility of the proposed innovation, to continue the exploratory efforts initiated, and develop to increase private sector commercialisation of innovations derived from applications.

#### Eligibility Criteria:

 Principal Investigator must hold a primary appointment in a local public hospital/public health institution/national specialty centre/academic medical centre and salaried by the institution.

### Funding Quantum, Duration, Frequency:

- Capped at S\$250,000 (inclusive of max. 20% indirect costs) over a period of up to 12 months
- Pre-proposal submission cut-off dates: 18<sup>th</sup> Dec 2015, 24<sup>th</sup> Mar 2016

#### Submission Mode:

- Supported by your Research Office of your Institution or Cluster
- Email to: grant@nhic.sg



### **I2D Grant Process Flow**

**Submission of 3-page Pre-proposal Application** 

Internal Review Panel

Full Proposal submission of Shortlisted applications

3<sup>rd</sup> party Evaluation report

Presentation to NHIC Evaluation Panel

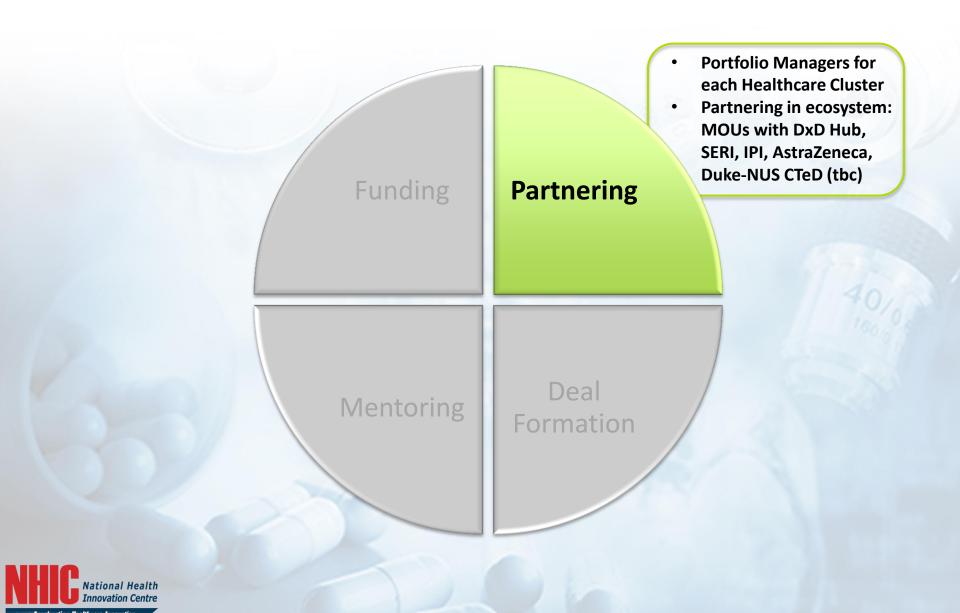
**Approval Panel** 

**I2D Funded Project** 

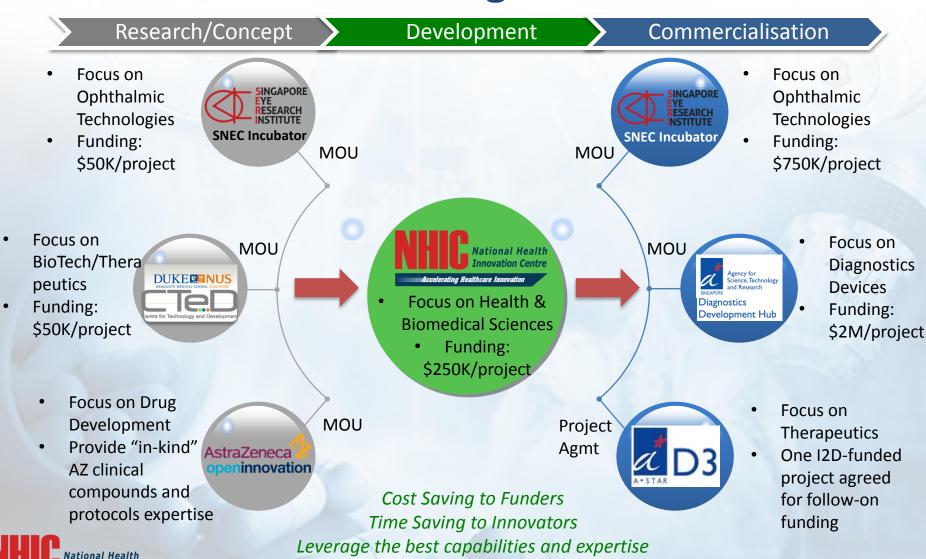
Approx. timeline 24-28 weeks



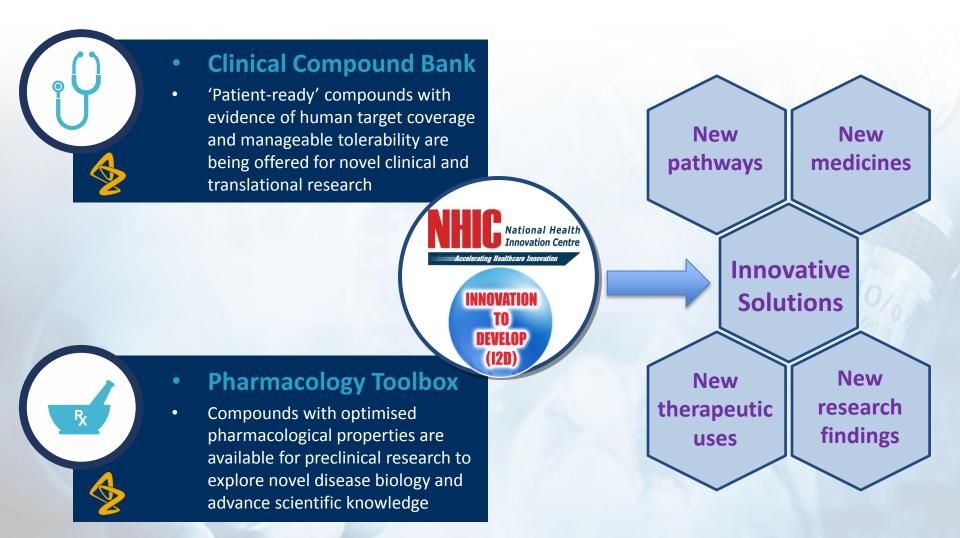
# **NHIC Objectives - Partnering**



# Partnering in Ecosystem for Accelerating Innovation

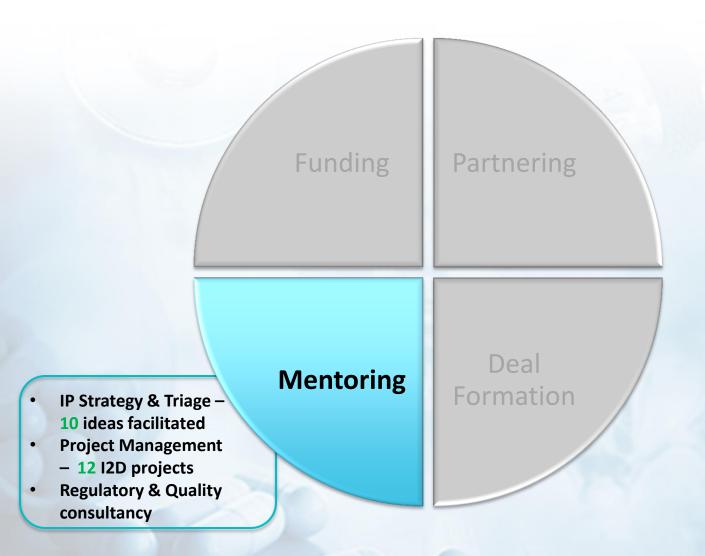


# **NHIC-AstraZeneca Open Innovation**



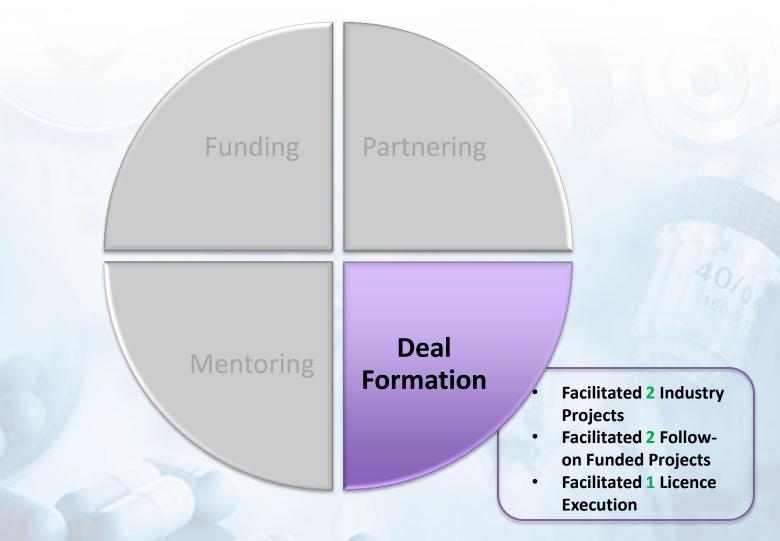


# **NHIC Objectives - Mentoring**





# **NHIC Objectives – Deal Formation**





### **IP Ownership and Commercialisation**

- NHIC will NOT take ownership of any IP.
- Ownership remains with the respective Healthcare Clusters and Institutions.
- NHIC will NOT recover revenue generated from commercialising the IP or any incurred IP/Project expenses.



### **NHIC** website



#### NHIC funding schemes

have demonstrated 'proof-of-principle' supported by experimental data. Each scheme tar gets different stages of the innovation development pipeline and all proposals for our funding must address intellectual property management, the commercialisation strategy and public health impact of the innovation. Collaborations with industry are encouraged if



Innovation to Protect



Funding schemes

**Application documents** 

- How we work
- **Funded projects**
- News
- Our team and partners

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Launch 19th May 2015



#### Innovation to Develop (I2D)

Funding the development of an innovation to

This funding is for an ambitious, deliverable development plan to tak must clearly illustrate the technical feasibility of the project and demo would be attractive to an industry partner or follow-on funder.

Funding is considered if the application satisfies the following criteria:

- · Strong intellectual property position . Preliminary proof of-concept data in in vitro and/or in vivo research
- · Detailed development plan highlighting future project work, miles
- · Clear and achievable commercial plan outlining the unmet health potential industry partners
- · Would result in significant healthcare or services cost savings

#### Funding quantum

This category will provide a funding quantum capped at S\$250,000 (incli will be responsible for reimbursing costs incurred by collaborating instit

#### **Funding Duration**

The funding support is up to 1 year.

The Principal Investigator must hold a primary appointment in a public

#### How we work

The NHIC team members have strong track records in the mercialization of intellectual property from academic, fields (see Our Team). The depth and breadth of this exp each NHIC award, where their expertise and resources w uation and nurturing of innovations along the commercia

NHIC will add value by adopting an active role in the mer their respective teams at all stages, from early stage dis funding of the application and post-award manageme progress against milestones and commercialization).

NHIC is able to bring in specialist consultants as require awarded to the projects) to assist with regulatory inform ment etc as necessitated by the individual projects. Through this committed involvement, NHIC aims to

care impact desired under the schemes

#### **I2P Applications**

For details on I2P submission, please see I2P.

The I2P applications will be reviewed by the NHIC Review the NHIC team and selected external experts, before fin rector of NHIC.

The target review periods are as follows:

**HOW WE WOR** 

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#### MedTech Showcase



An In-office Trachealesophageal Puncture, Prosthesis Sizing and Insertion Device



A Portable Device for Real-time Risk Stratification of Adverse Cardiac Events



Automated Continuous Post-surgical Monitoring of Vascularized Grafts



A Force Sensor to Deliver Optimal Cricoid Pressure for Airway Protection



www.nhic.sg





# Thank you

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# Thank you

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