

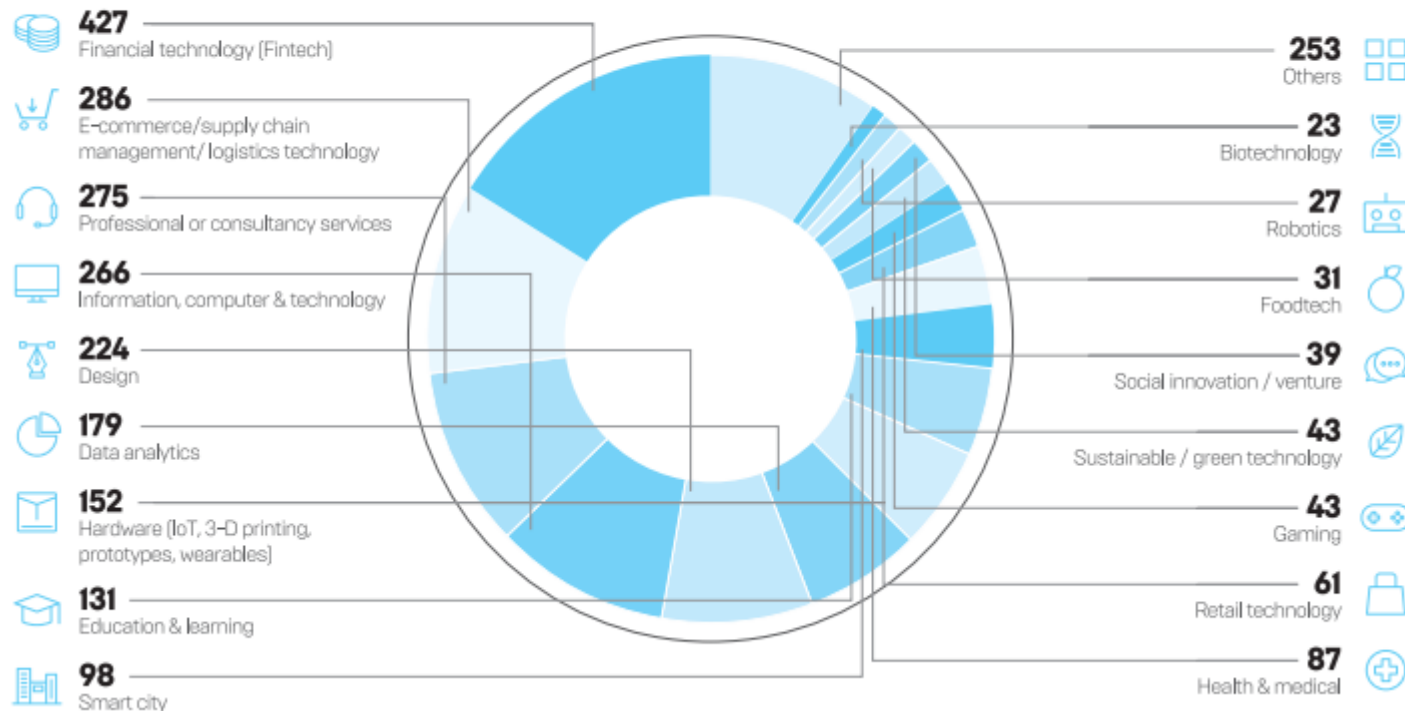
Fostering the Ecosystem for Innovation & Technology

Eddie So, Ph.D.
Sept 2019

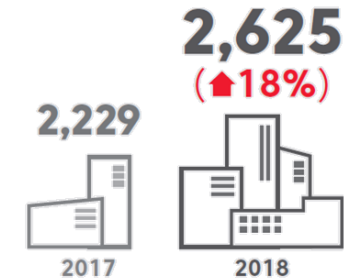
Hong Kong: Asia's Most Dynamic Startup Ecosystem

STARTUPS ACROSS A WIDE RANGE OF INDUSTRIES

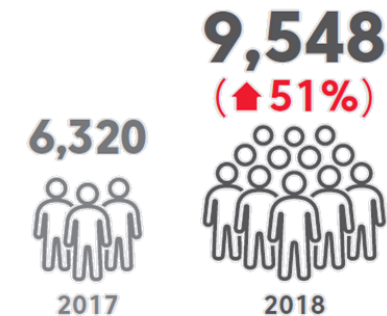
Hong Kong's appeal as a startup hub extends to a wide variety of industries. In 2018, fintech, e-commerce/supply chain management/logistics technology and professional/consultancy services had the largest numbers of startups.



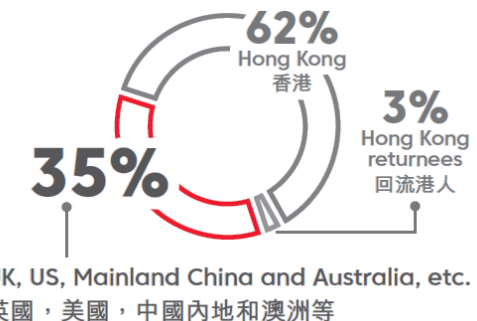
No. of Startups



No. of staff employed



Origins of founders



《2018/2019 Government Budget》

Promote and Reinforce the Development of I&T

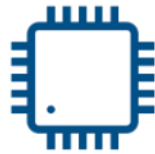


Healthcare Technology

20B

HK SZ
I&T Park

- First phase of the HK-SZ Innovation and Technology Park in the Lok Ma Chau Loop



Artificial Intelligence & Robotics

10B

ITF

- Innovation and Technology Fund (ITF)

10B

HKSTP

- 3B for infrastructure and facilities
- 7B for tenants and incubatees



Smart City

10B

Two
Research
Clusters

- Healthcare Technologies
- A.I. & Robotics



FinTech

0.5B

Talents

- Technology Talent Scheme
- Postdoctoral Hub

0.3B

CyberPort

- CyberPort

HKD 50.8B (USD 6.5B)



Hong Kong Science Park

Promoting integrated I&T development for
Government, Industries, Academia and Researchers

HKSTP – International I&T Hub

Established in **2002**

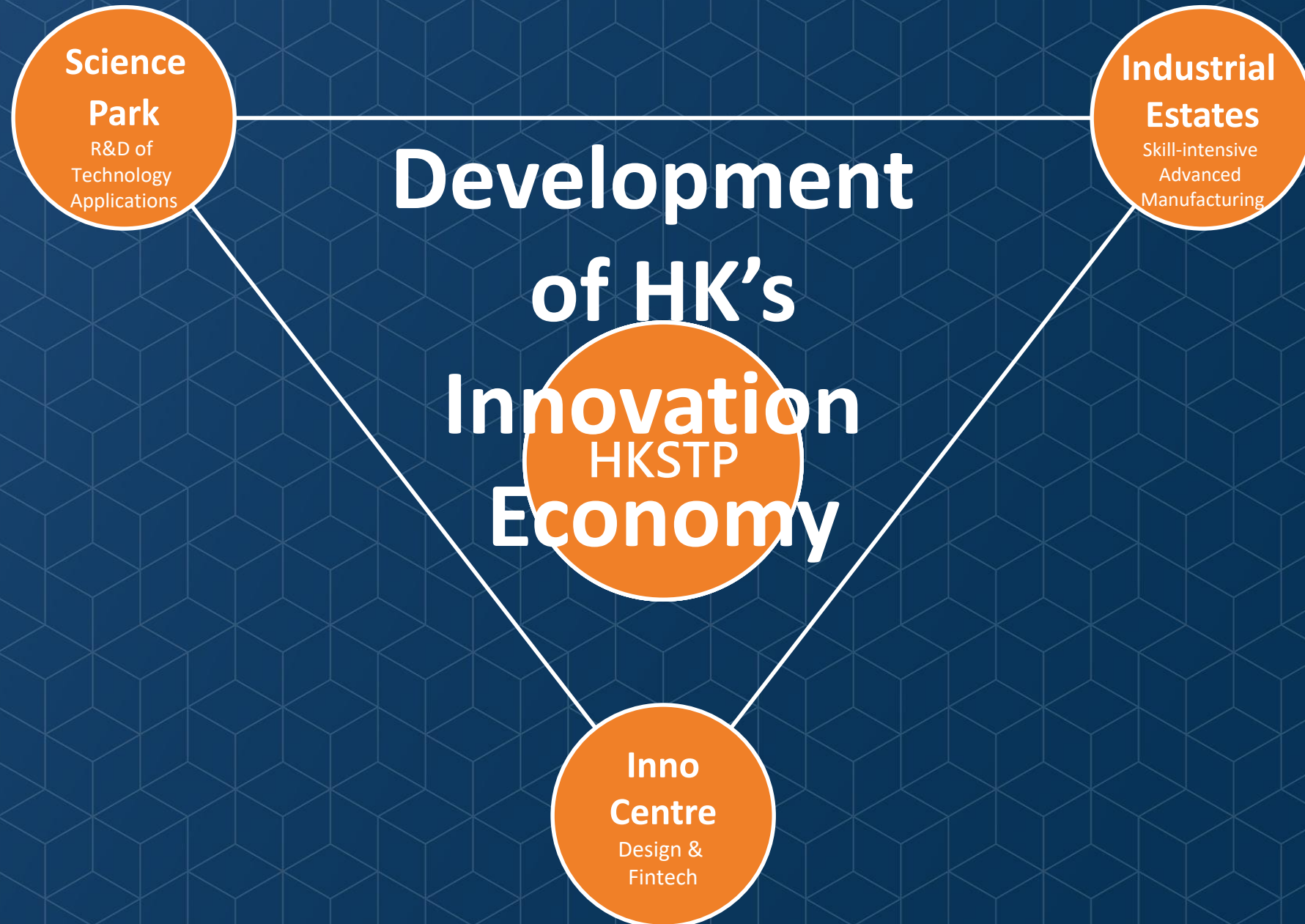
400,000 m²
R&D Office Space

750 Tech Enterprises,
~13,000
Working Population

Park Companies from
24 countries & regions

Leading Technology
Incubator in HK with
350 start-ups

**International I&T Hub
in GBA**
Science Park +
InnoCentre +
Industrial Estate



Science Park

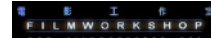
R&D of
Technology
Applications



Shatin

Inno Centre

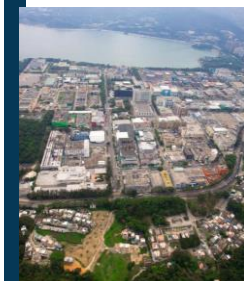
Design &
Fintech



Kowloon Tong

Industrial Estates

Skill-intensive
Advanced
Manufacturing



Tai Po

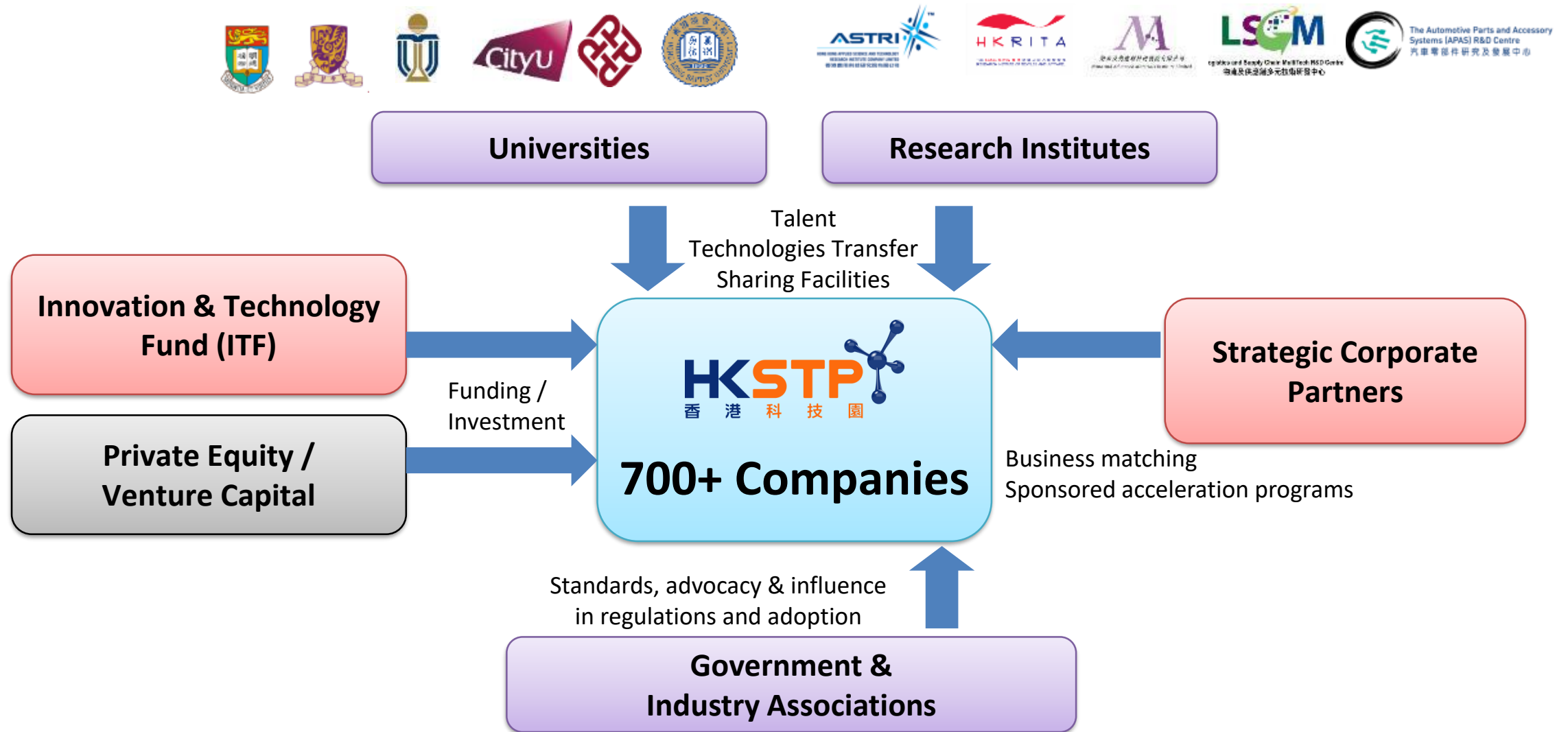


Yuen Long



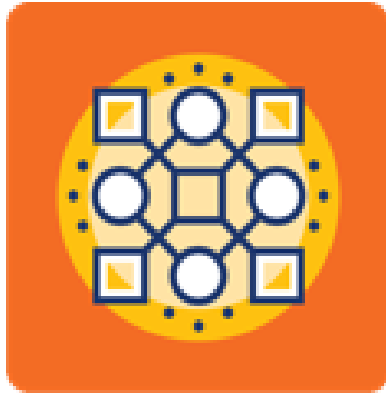
TKO

Connecting with Ecosystem Partners



HKSTP's Innovation & Technology Ecosystem

Technology Focus Areas



AI & Robotics



Smart City



**HealthCare
Technology**



FinTech

Supported by HKSTP's Technology Clusters



**Biomedical
Technology**



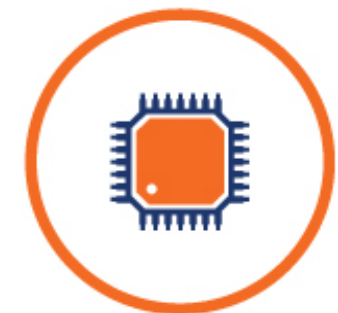
**Material & Precision
Engineering**



Green Technology



**Information &
Communication
Technology (ICT)**



Electronics

HKSTP supports technology companies in all stages



STEP Science and Technology Entrepreneur Programme

From idea to business reality

1. IDEA

Financial & Startup Support



GRANT

HKD 100K for idea validation

2. EQUIP

Entrepreneurial Guidance



TRAINING

Training system - mindset & skillset development



COACHING

Dedicated account manager



COMMUNITY

membership - workspace at SP



TRANSCEND

transitioning to HKSTP Incubation

1-year program with HKD 100K grant (USD 12.8K)

Objectives

Growth :

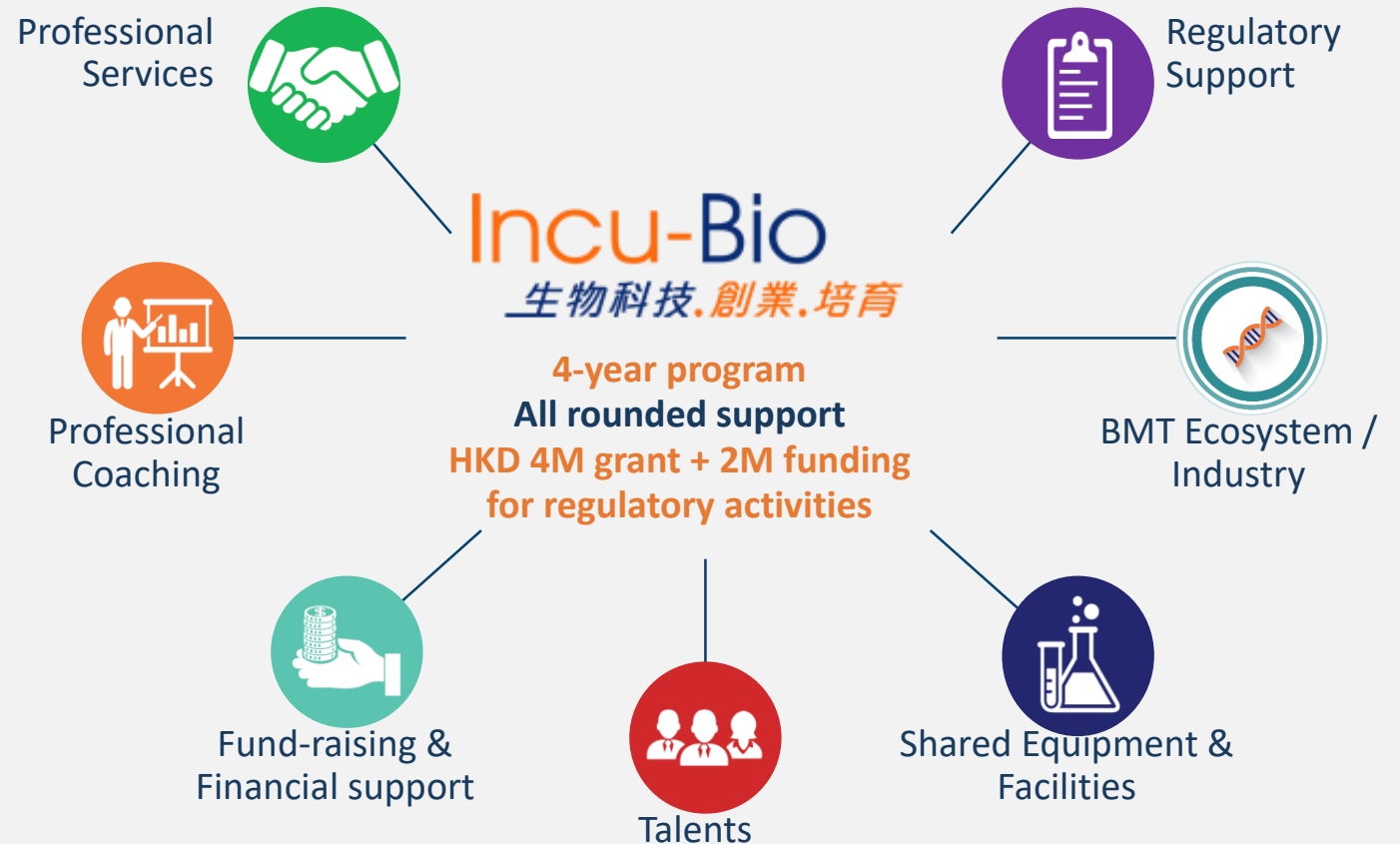
Offering 1-stop biomedical technology focused services to startups

Commercialization:

Assisting translation of research

Financial Sustainability :

Providing capital (subsidy, investment) to support startups through the “Valley of Death”



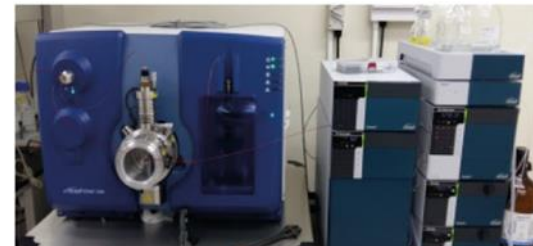
4-year program with HKD 6M total financial support (USD 769K)

HKSTP Infrastructure and Lab Support – Biomedical & Electronics



- IC Design Service (EDA Tools)
- Probe & Test Development Centre (PTDC)
- IC Failure Analysis Lab (ICFAL)
- Reliability Lab (RL)
- 3D SiP Lab
- Rapid Prototyping Lab

- Healthcare device hub
- Shared lab and equipment
- Bare-shell laboratory
- SME lab and office
- Bio Bank



Talent Support Schemes

Postdoctoral Hub

- “Postdoctoral Hub” Programme provides funding support for recruitment of post-doctoral talents in R&D
- HKSTP’s incubatees and tenants eligible
- Max 2 talents at one time
- Each Talent :
 - Max HK\$32K (USD 4.1K) X 36 months
 - Max employer MPF allowance HK\$1.5K X 36 months

Up to
HK\$2.41M
(US\$309K)

Researcher Programme

- “Researcher Programme” provides funding to recruit researchers to assist in R&D
- HKSTP’s incubatees and tenants eligible
- Max 2 researchers at one time
- Each researcher :
 - *Bachelor’s Degree:*
Max HK\$18K (USD 2.3K) X 36 months
 - *Master’s Degree:*
Max HK\$21K (USD 2.7K) X 36 months
 - Max employer MPF allowance HK\$1.1K X 36 months

Up to
HK\$1.59M
(US\$204K)

Technology Talent Admission Scheme

- Started on June 1st, 2018
- A fast-track work-visa programme for eligible technology companies and institutes to admit overseas and Mainland technology talents
- **1000** visas will be awarded
- Up to 100 applicants per company per year



Bio Tech



A.I.



Cyber Security



Robotics



Data Analysis



Fin Tech



Material Science

Talent Support Schemes

HKSTP Tenant Accommodation Support Scheme

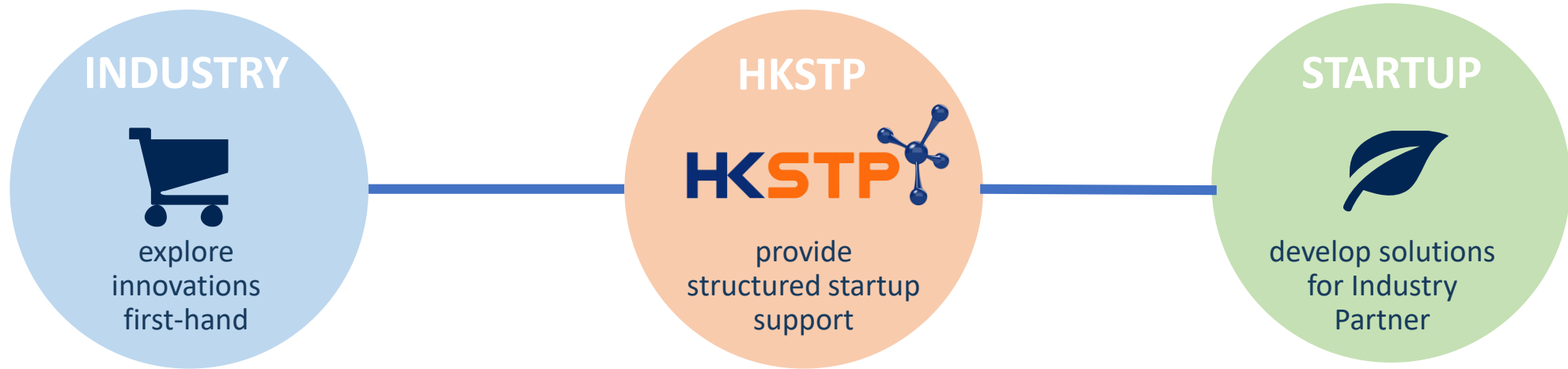
- Providing accommodation subsidy to “overseas/mainland employees of HKSTP Tenant Companies” who work and reside in HK
- Target: Tenant companies with overseas/mainland employees admitted under the Technology Talent Admission Scheme (TechTAS)
- The maximum amount of the subsidy per talent is HK\$10K (US\$1.3K) a month for max. 12 months



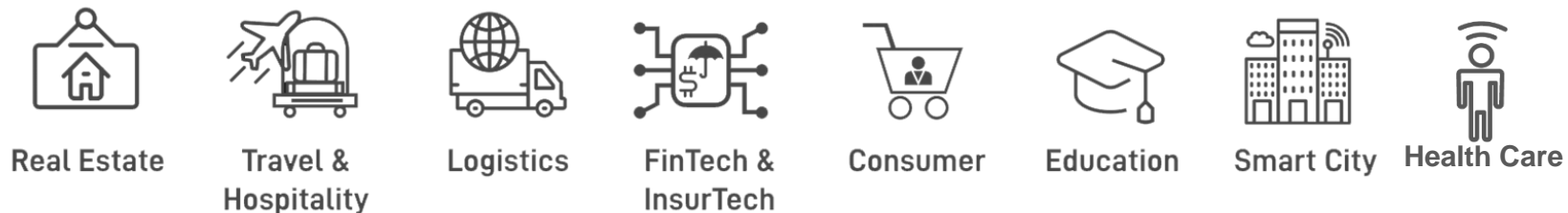
Up to HK\$120,000 (US\$15K) per talent

GAA Global Acceleration Academy

Connecting enterprises with start-ups



Serving startups in 8 verticals



Partners:



安创空间
ARM Ecosystem Accelerator

SUNSHINE 新松
创造无限价值 Create Infinite Value

WKO
AUSSENWIRTSCHAFT AUSTRIA



領展
LINK

elite
Elite Industrial Holdings Ltd.



KERRY PROPERTIES
嘉里建設



信和集團
Sino Group



GLOBAL
ACCELERATION
ACADEMY

Go to Market – Industry Adoption Channels and Support



Provides matching platform for enterprises to adopt innovations by Park companies

Partnerships with **60** corporations: Airport Authority, CLP, Maxim's, Ocean Park, New World, HKT, Hutchison, MTR



Facilitate collaboration between Park companies and industry associations

Partnerships with **20+** local associations



Provide test bed for Park companies to test or pilot new technologies

20+ innovations were tested in 17/18



- Feasibility study
- Functional/ DFM
- Pilot to mass production
- Certification
- IP protection
- Manufacturing

Growing the Start-up Ecosystem

3 Major Incubation Programmes – Incu-App, Incu-Tech, Incu-Bio

626

Graduates

489

Still in Business

4

Completed IPOs

Investment Raised in FY18/19

USD 2B

Total fund raised by
Park companies

Investment Support Services



Investment Funds Raised
(FY18/19)

HKD 18 B
(USD 2.3 B)

Funds raised by
Park companies

Corporate Venture Fund Invested
(up to Dec 2018)

1 : 13.4
HKD 50 M **HKD 670 M**

HKSTP Total Investment Fund
(as of today)

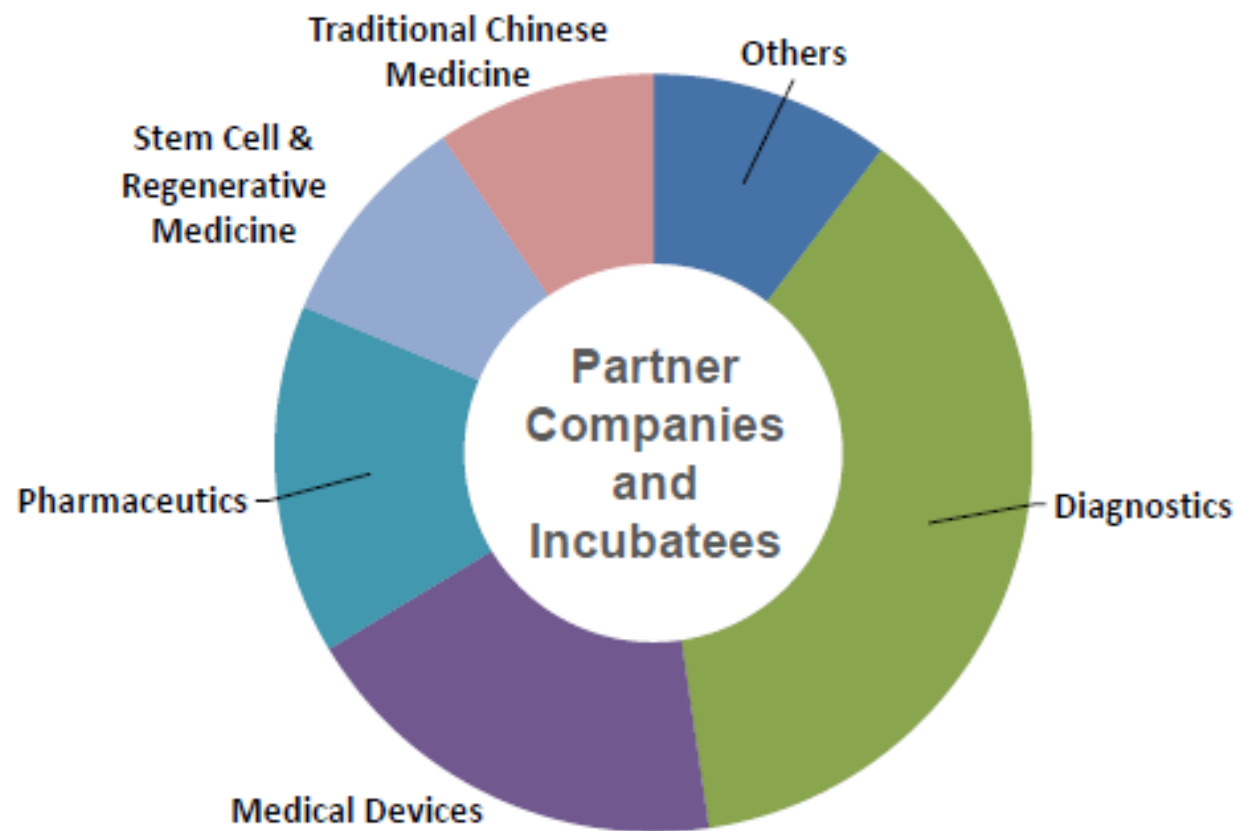
HKD 600 M
(USD 76.9 M)

Our Investment Partners :



Biomedical Technology Cluster @HKSTP

Sub-cluster Distribution
(Partner Companies)



- 110+ Partner Companies and Incubatees
- 1,000+ researchers from 12 countries

Diagnostics



Medical Devices



Pharmaceuticals



Others



Traditional Chinese Medicine



Stem Cell & Regenerative Medicine



Our Incubatees



EIELING



HSK GENETECH



ImmunoDiagnostics Limited

Pure Innovation
Biotech Limited

Alumni



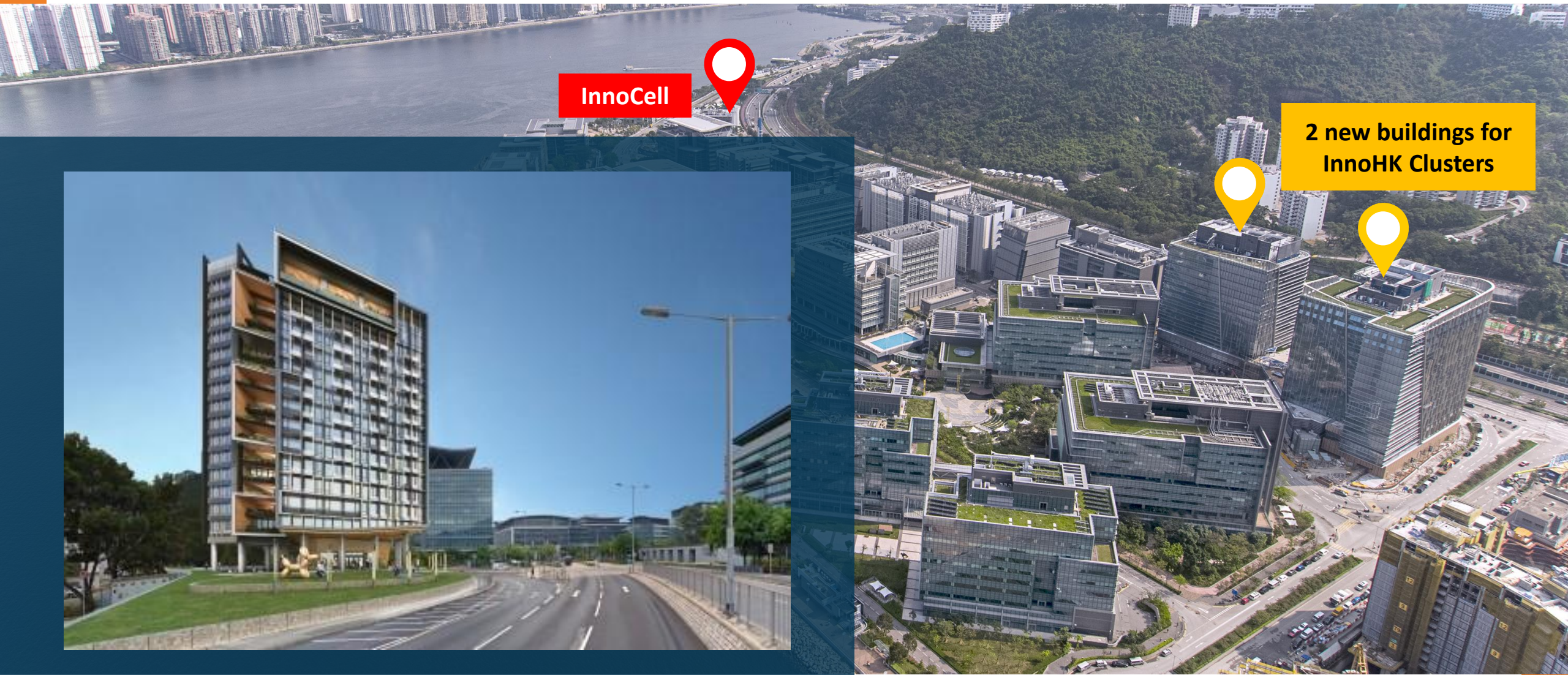
Living Tissues

We grow your cartilage



Innovate for a
Better Future

Future Development @HKSTP



InnoCell

2 new buildings for
InnoHK Clusters

AIR@InnoHK and Health@InnoHK programs

- **HK Government** funds 10B HKD (1.3B USD) to attract and support global leading research institutes & universities setting up R&D centers in these two fields in HK
- **HKSTP** will physically host these R&D centers and provide support to researchers for translational research and commercialization

Attract world-class scholars

- Air@Inno and Health@Inno will attract world class scholars and their teams to HKSTP, your company can connect and recruit the best global research talents

Joint Collaboration

- Air@Inno and Health@Inno are open for joint research on cutting-edge topics, your company can work with global scholars through joint lab supported by HKSTP and the government



Translational Research Facilities



Bench

Translational Research

Bedside



Biobank (3 Laboratories)

Biomedical Informatics

Drug Safety Center

Pilot Batch /
Device Testing



GLP

Biosamples repository

Support biomarker
discovery and efficacy
analyses



Secured and centralized
Data platform for R&D

Data management, analytics,
sharing



GLP

Drug Safety Center for
drug efficacy

Provide GLP *in vitro* and *in vivo*
drug safety tests



GMP

Facility for drug materials
(Biologics & Cell processing)

Provide GMP drug quality
assessment for every stage of
clinical trials

Expansion Plans Cater for Future Growth



Data Technology Hub (DT Hub)

Location:	TKO IE
Land Area:	0.54 Ha
GFA:	27,000m ²
Development Cost:	HK\$1.62B
Year of Completion:	2020
Estimate No. of I&T Related Staff:	~900
Estimate value-added for economy:	HK\$573M per year



Advanced Manufacturing Centre (AMC)

Location:	TKO IE
Land Area:	2.71Ha
GFA:	108,580m ²
Development:	HK\$6.63B
Target Year of Completion:	2022
Estimate No. of I&T Related Staff:	~2500
Estimate value-added for economy:	HKD927M per/year

Hong Kong-Shenzhen I&T Co-operation Zone



Hong Kong-Shenzhen I&T Co-operation Zone

