Leapfrogging in Innovation & Technology: Our Strategy

2017.10.14





Leveraging Innovation & Technology: Your Strategy

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New momentum for economic development

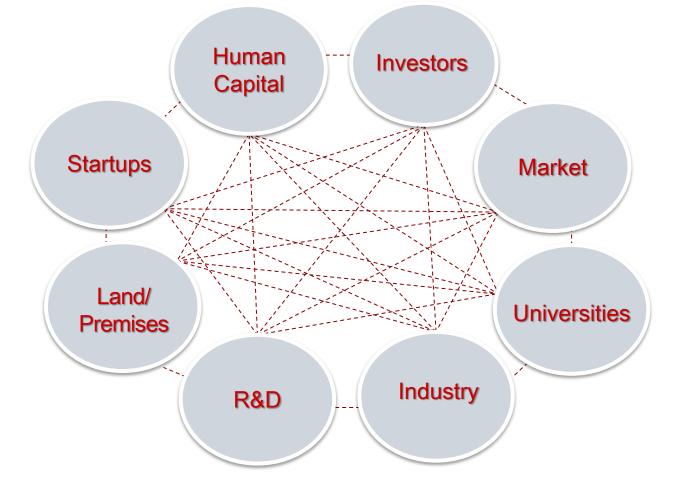
Strengthen our competitiveness

Provide quality employment



Improve the quality of life for Hong Kong people

I&T Ecosystem



Strengths

- World class universities & researches
- Rule of Law; Strong IP Protection
- Free flow of information/capital
- Proximity to Asian & China market
- International city; preferred by many



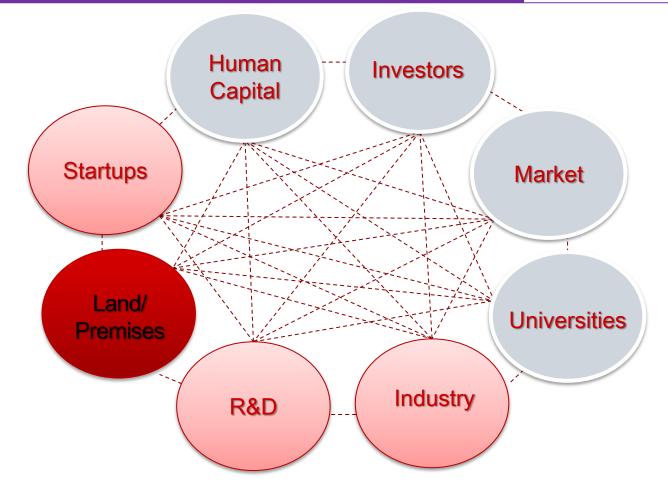
Top 5 fastest growing ecosystem; substantial growth in no of accelerators/co-working spaces

Weaknesses

Lack manufacturing sector & defence Too many alternatives for capital Too many alternatives for careers High cost (land, manpower) Local market too small Late starter; need to leapfrog



Provision of Infrastructure



Science Park

- 22 ha; ~640 tech companies
- Incubation programmes to nurture technology startups
 ~260 current incubatees; >480 graduates since inception
- GFA: 3.5M ft² to increase to 4.3M ft² by 2020
- InnoCentre: 240,000 ft²; 88 cos
- InnoCell: accommodation for talents



Industrial Estates

- 217 ha (Tai Po, Yuen Long, Tseung Kwan O)
- for custom-built factories; ~ 160 companies
- New Development to drive reindustrialization
 - To develop high value-added industries/production processes that are not land-intensive
 - Data Technology Hub & Advanced Manufacturing Centre (GFA ~ 1.5M ft²) in Tseung Kwan O Industrial Estate for rent to users

HK-Shenzhen I & T Park at Lok Ma Chau Loop

- 87 ha; GFA 12M ft²
- MOU with Shenzhen on 3 Jan 2017
- Within HKSAR boundary
- Apply HK laws

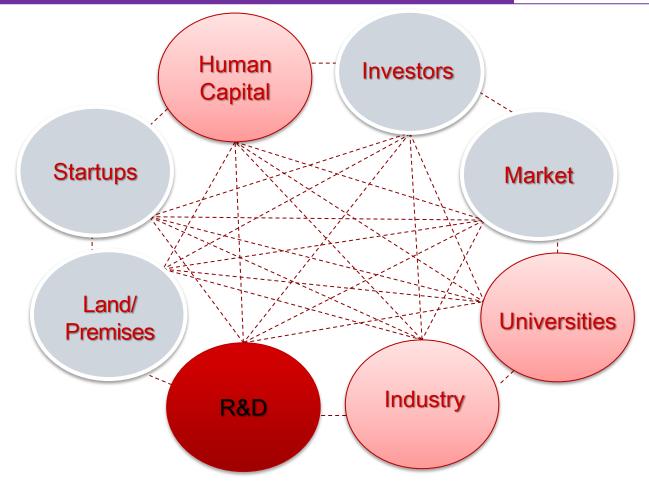


- To be operated by HK-SZ I & T Park Ltd, a subsidiary under HK Science & Technology Parks Corporation
- First plot of land ready by 2021

Cyberport

- GFA: ~ 1,000,000 ft²; ~ 460 ICT tenants
- To operate additional 20,000 ft² co-working space
- Incubation programme to nurture technology start-ups
 - ~ 190 incubatees; ~220 graduates





R&D Centres & HK Productivity Council



Automotive Parts & Accessory Systems R&D Centre



Applied Science & Technology Research Institute



Nano & Advanced Materials Institute



HK Research Institute of Textiles & Apparel

R&D Centre for Logistics & Supply Chain Management Enabling Technologies

LSCM



HK Productivity Council

- Currently about HK\$19B per yr
- ~ 0.73% of GDP (other advanced economies: 2-4%)
 - public 56% : private 44% (other economies: private 60-70%)

Public sector:

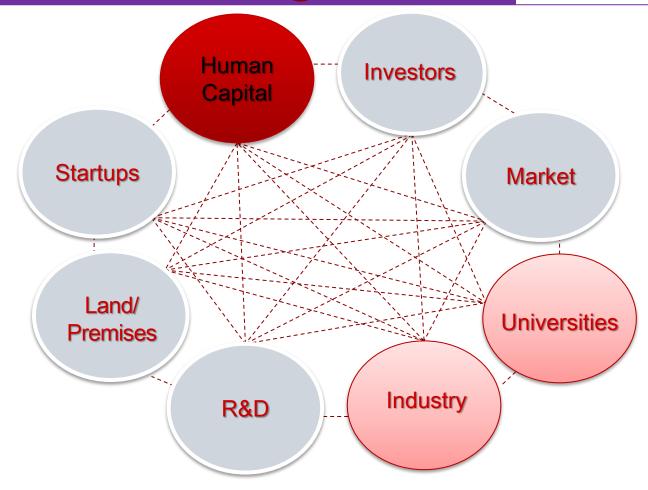
- University Grants Committee/Research Grants Council (for universities' basic researches)
- Innovation & Technology Fund (for midstream/applied researches conducted by private enterprises or universities or R&D centres)

- Policy Address targets: 1.5% of GDP (~ \$45B per yr) by 2022 + public 45% : private 55%
 - How to achieve this?
 - More public funding for researches in universities and private enterprises
 - Tax Incentive Super Deduction (300% for first \$2M & 200% thereafter)

Attract top-notch R&D institutions / tech giants to HK

- □ Massachusetts Institute of Technology: 1st Innovation Hub outside the US
- □ Karolinska Institutet: 1st R&D centre outside Sweden
- Open Govt Data to facilitate researches (e.g. in big data analytics, artificial intelligence, biotechnology)

Nurture Technology Talents



Nurture Technology Talents

9000+ local STEM graduates each year

Internship Programme for STEM graduates

all tech companies in Science Park,
 Cyberport & Industrial Estates

🛛 2 years

 Monthly allowance fully paid by Govt: \$16,000 (Bachelor's degree) \$19,000 (Master's degree)



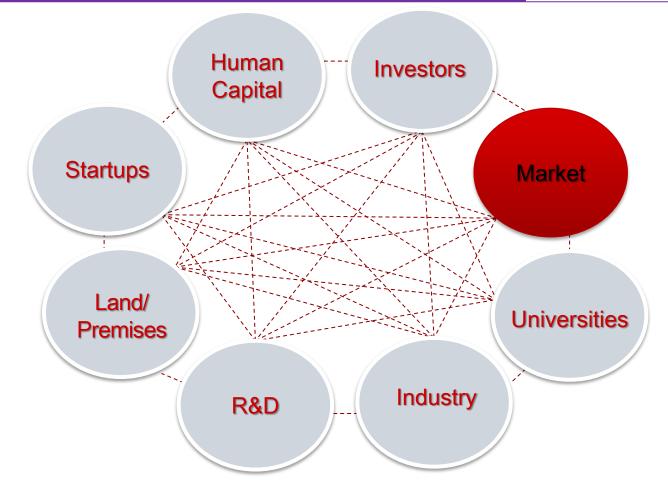
Nurture Technology Talents

A \$500M "Tech Talent Scheme"

- Establish a "Postdoctoral Hub"
 - Subsidize local enterprises to recruit postdoctoral talents for R&D work
 - monthly allowance of \$32,000
- Subsidize local enterprises on a matching basis to train staff on
 - advance manufacturing technologies
 - especially those related to Industry 4.0

\$3B to provide studentship for STEM postgraduate students

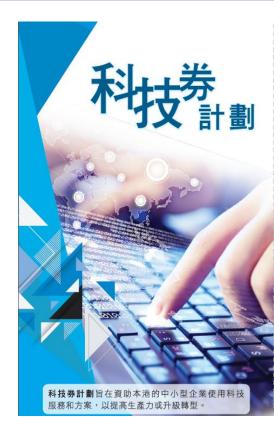
Market Development



Facilitate Technology Adoption

Technology Voucher:

- Subsidize local SMEs to use technology to improve productivity, or upgrade or transform business processes
- Co-payment with Govt 2: company 1
- □ Maximum \$200,000
- Success rate in getting funding: 92%
- Key user groups: Wholesale/Retail, Import/Export, Professional Services, Engineering
- Common tech solutions: Document management system; cloud computing; mobile access system; enterprise resource planning; inventory control
- Note: Audit Automation System



Facilitate Technology Adoption

Public Sector Trial Scheme

Funding to conduct trials of new technologies in the public sector (Govt, NGOs, professional bodies, trade associations)

Fund for Better Living

Funding for projects that can improve people's daily lives

Review Legislation

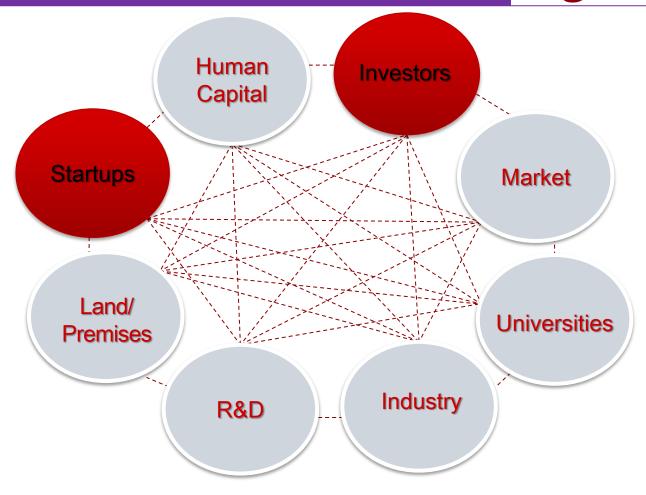
Govt Procurement

Facilitate Access to Mainland Market

CEPA

- Cooperation with Ministry of Science & Technology etc
- Science Park to collaborate with Mainland tech incubators
- HK NGO operating incubator in Qianhai, Shenzhen
- Visit of young entrepreneurs to Mainland tech industries

Make Available Venture Funding



Make Available Venture Financing

Innovation and Technology Venture Fund

A \$2B fund to co-invest with private VCs in local start-ups

Science Park Corporate Venture Fund

Pre-A co-investment funding

Cyberport Creative Micro Fund

Seed fund for ICT startups

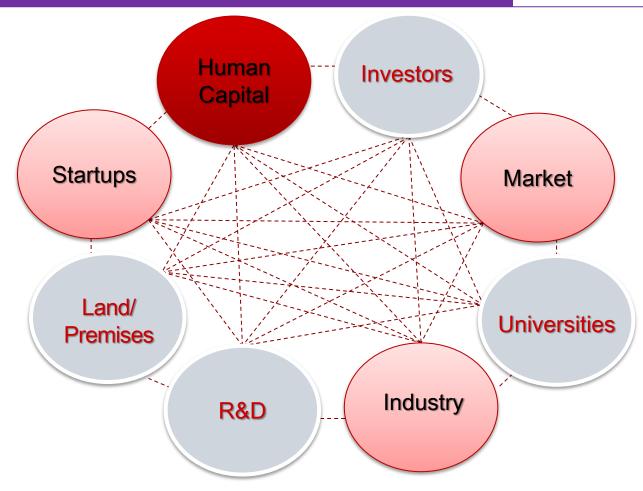
Cyberport Macro Fund

Pre-A co-investment funding



Technology Startup Support Scheme for Universities

Promote Tech Culture



Promote Technology Culture

Smart City Development

leid, smart lamp posts, smart parking meters, Wifi hotspots etc

Tech is Fun!

- Science/technology competitions;
- Training in computational thinking & coding
- 🛯 InnoCarnival; I & T Expo

Patent Application Grant

Media Publicity





" I have always been in the right place and time. Of course, I steered myself there."

Bob Hope

- Thank You -