

The Ecosystem of Knowledge Transfer in Green Technologies



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Science & Technology Parks

Making things happen

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Hong Kong Science & Technology
Parks Corp.

Nov 13, 2014



Hong Kong...



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Global Innovation Index
World Top 10



Recognition by Ministry of Science and Technology of PRC
National High-Tech Industrialisation (Partner) Base for Green Technology
National Modern Services Industrialisation (Partner) Base



The Top 10 Smart Cities on the Planet



Forbes: The Only Asian City In the Top Tech Capital to Watch



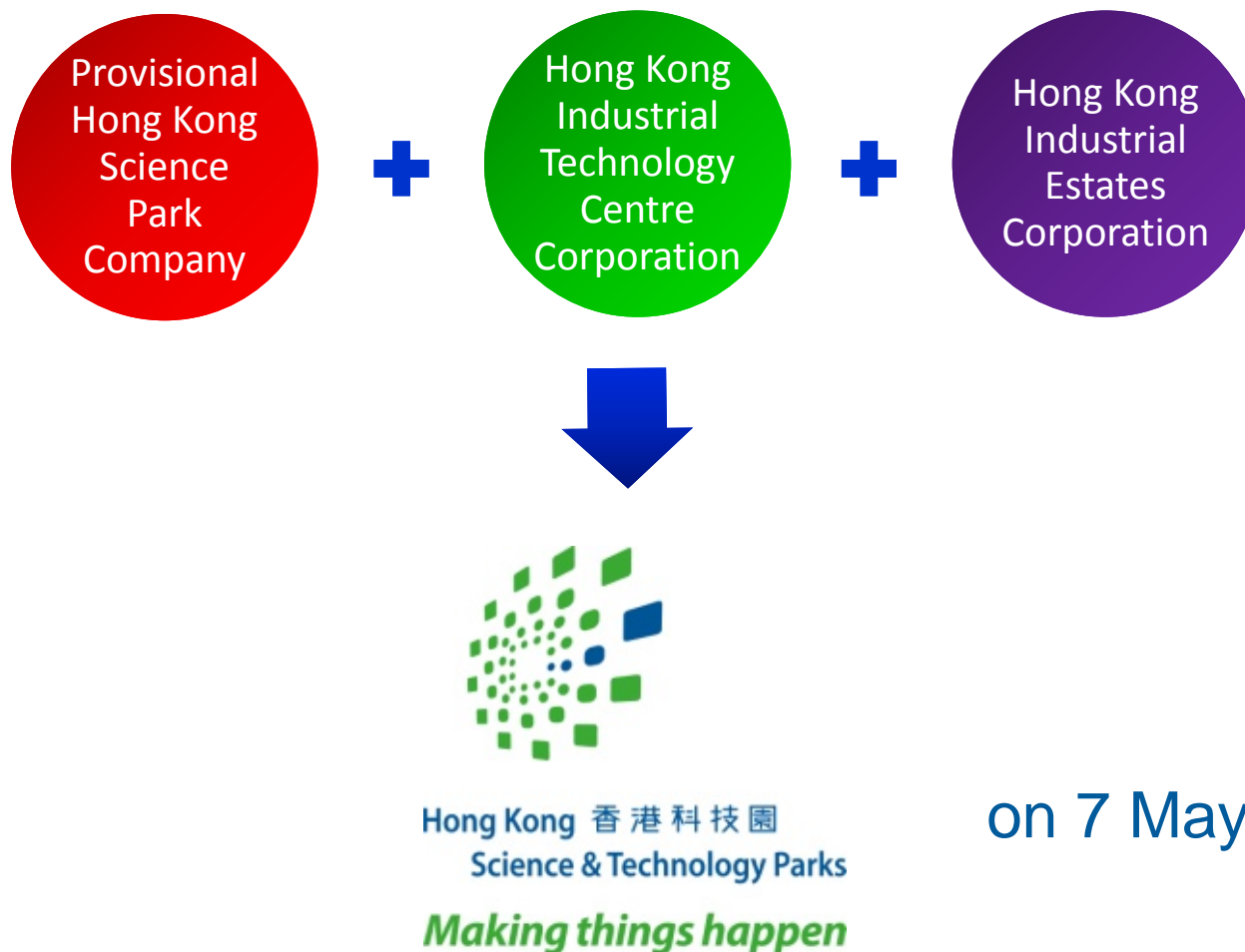
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Hong Kong – the offering

- An International Business City – Dynamic and Vibrant
- Comprehensive Legal and Financial Infrastructure
- IP Protection
- Convergent of Human Capital from Worldwide
- Human Capital – Work Ethic and Low Turnover Rate
- World Class Universities- Well-trained Graduates plus Graduate Researchers



Hong Kong Science & Technology Parks Corporation



on 7 May 2001.

Hong Kong Science and Technology Parks Corporation (HKSTPC)



Vision

Transforming innovation and technological advancement into value creation that benefits Hong Kong, Mainland – and the world.

Mission

In propelling Hong Kong towards a world-class hub for selected technologies, we provide facilities, services and a dynamic environment that enable companies to nurture ideas, innovate and develop.

Hong Kong Science & Technology Parks Corporation



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Hong Kong Science Park
(10,392 employees)



InnoCentre
(1,143 employees)



**Tai Po
Industrial Estate**
(13,000 employees)



**Tseung Kwan O
Industrial Estate**
(9,100 employees)



**Yuen Long
Industrial Estate**
(3,700 employees)

Hong Kong Science Park

Facilities and Services to support R&D and product commercialisation





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Hong Kong Science Park

Phased development to cater to the needs of science and technology sector...



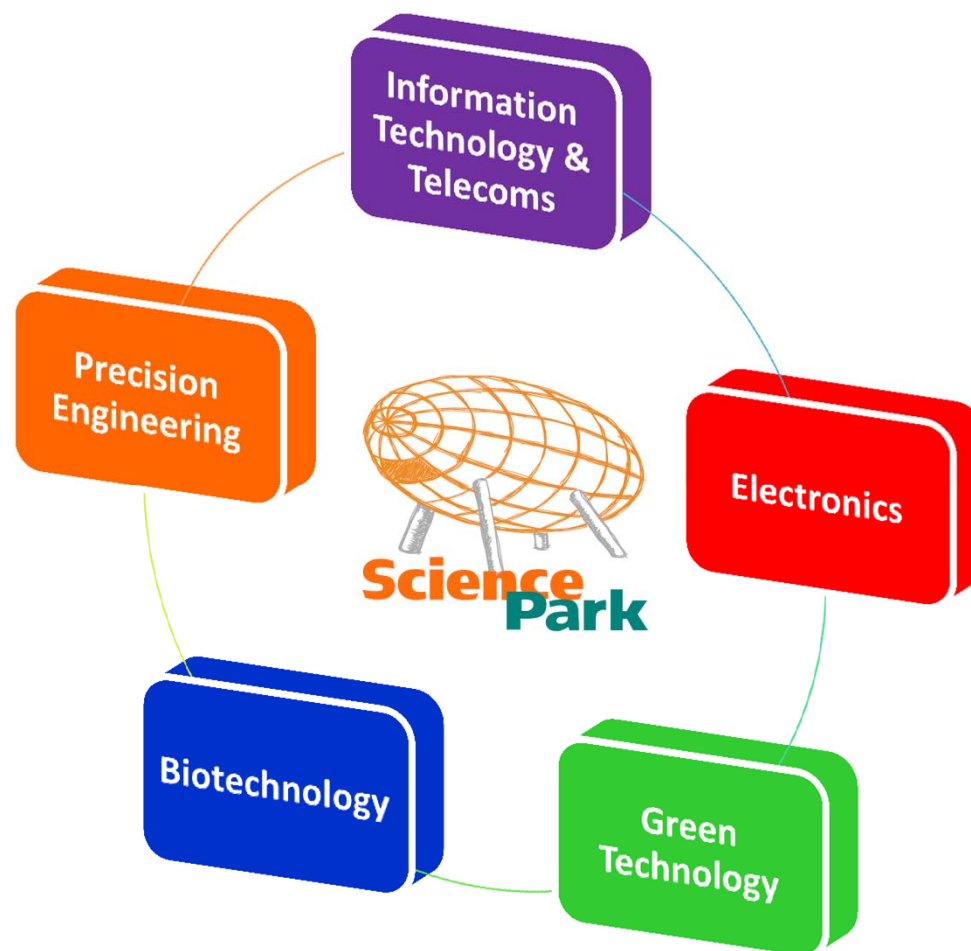
Hong Kong Science Park

Perfect Ecosystem for Clustering Synergy

Hatching Innovations that Benefit our Community



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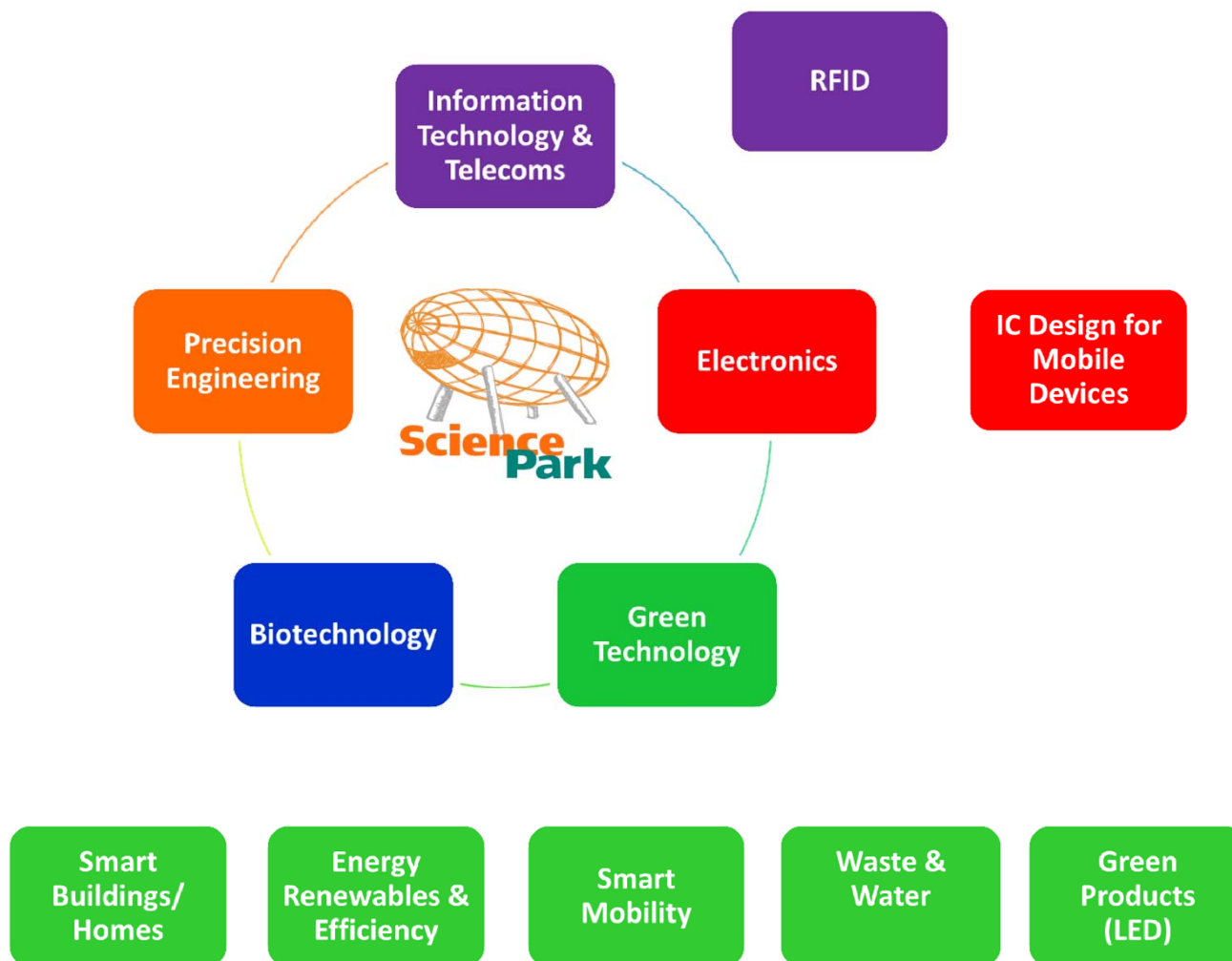
Hong Kong Science Park

Perfect Ecosystem for Clustering Synergy

Hatching Innovations that Benefit our Community

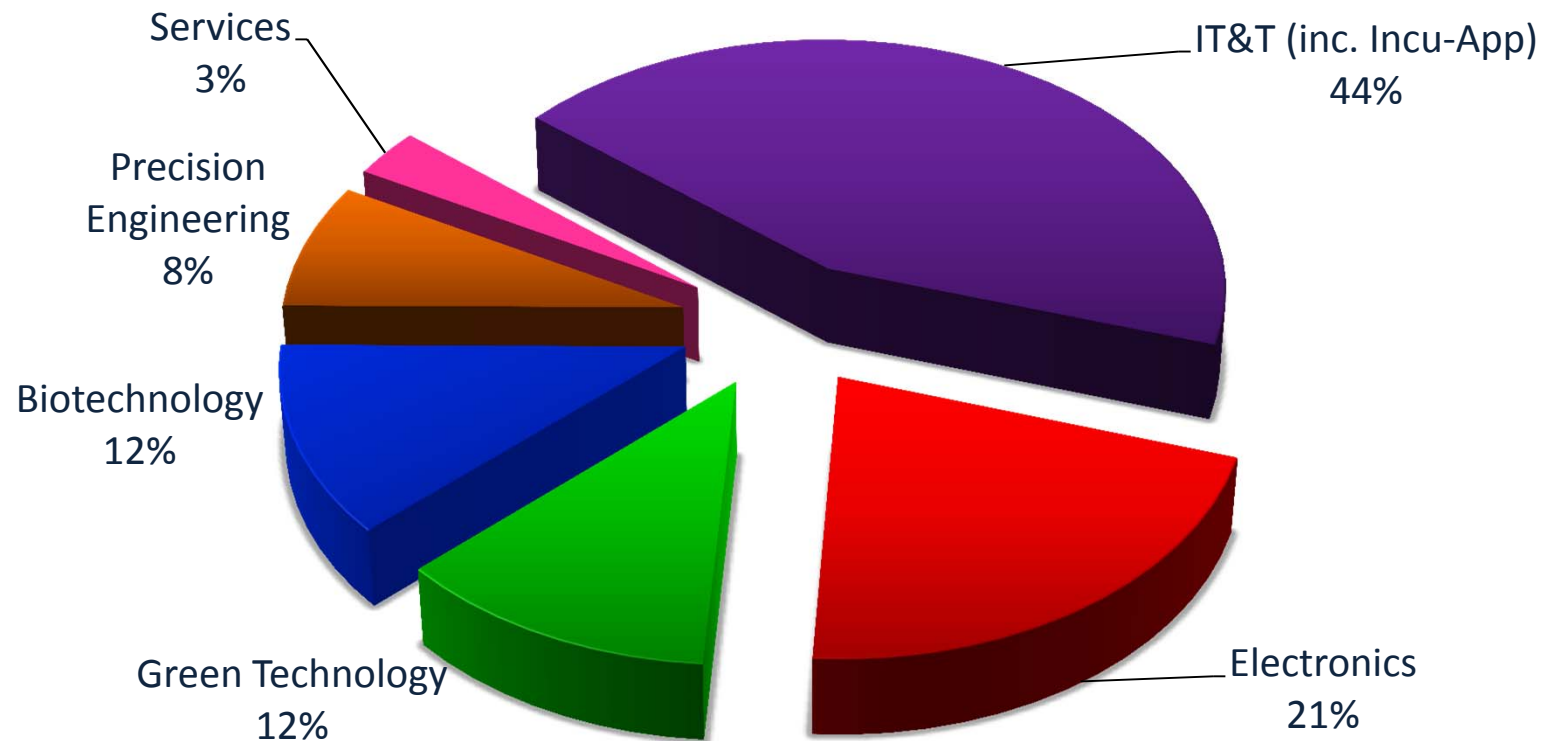


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Cluster Distribution



	Company	Staff
Partner companies	335	9,678
Incubatees	156	714
Total	491	10,392

58 Green Tech Companies in Science Park



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Phase 3 Objectives



Establish HK as the Green Tech Hub

- Plan and develop Phase 3 to incorporate the latest green technologies, sustainable building design and management practices, with a net zero carbon target
- As a showcase for implementing sustainable practices in Hong Kong
- As the catalyst to develop Hong Kong and Pearl River Delta Region as the hub for green technology
- Recognised as a leader in:
 - Green Building Award 2012 – *Grand Award New Building Category [Building Project under Design]*
 - Hong Kong Green Building Council – *BEAM Plus (New Building) Provisional Platinum*

Grand Plaza – Facilitates Community Collaboration



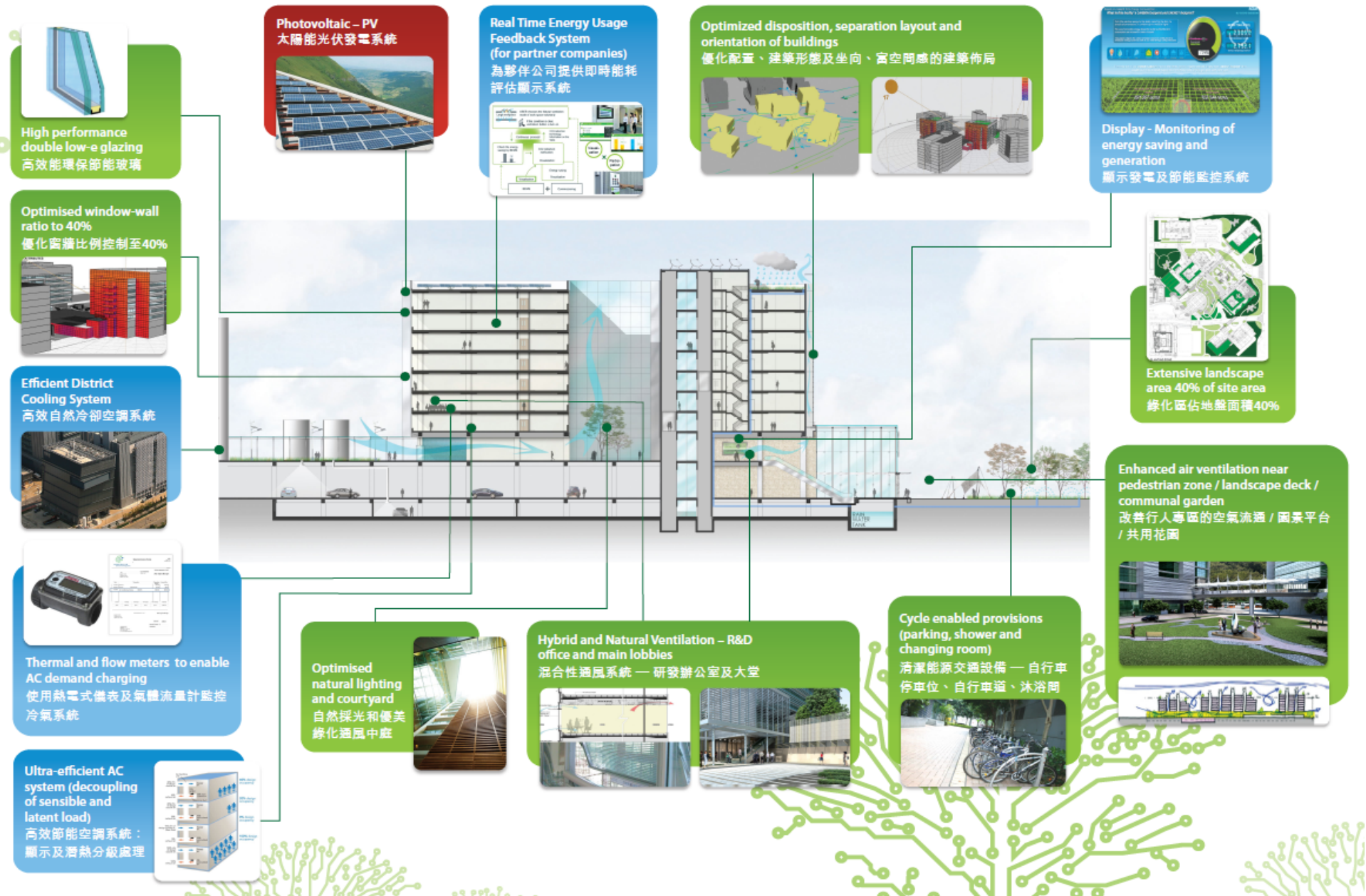
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Fundamental Sustainable Design Features



Novel Sustainable Design Features

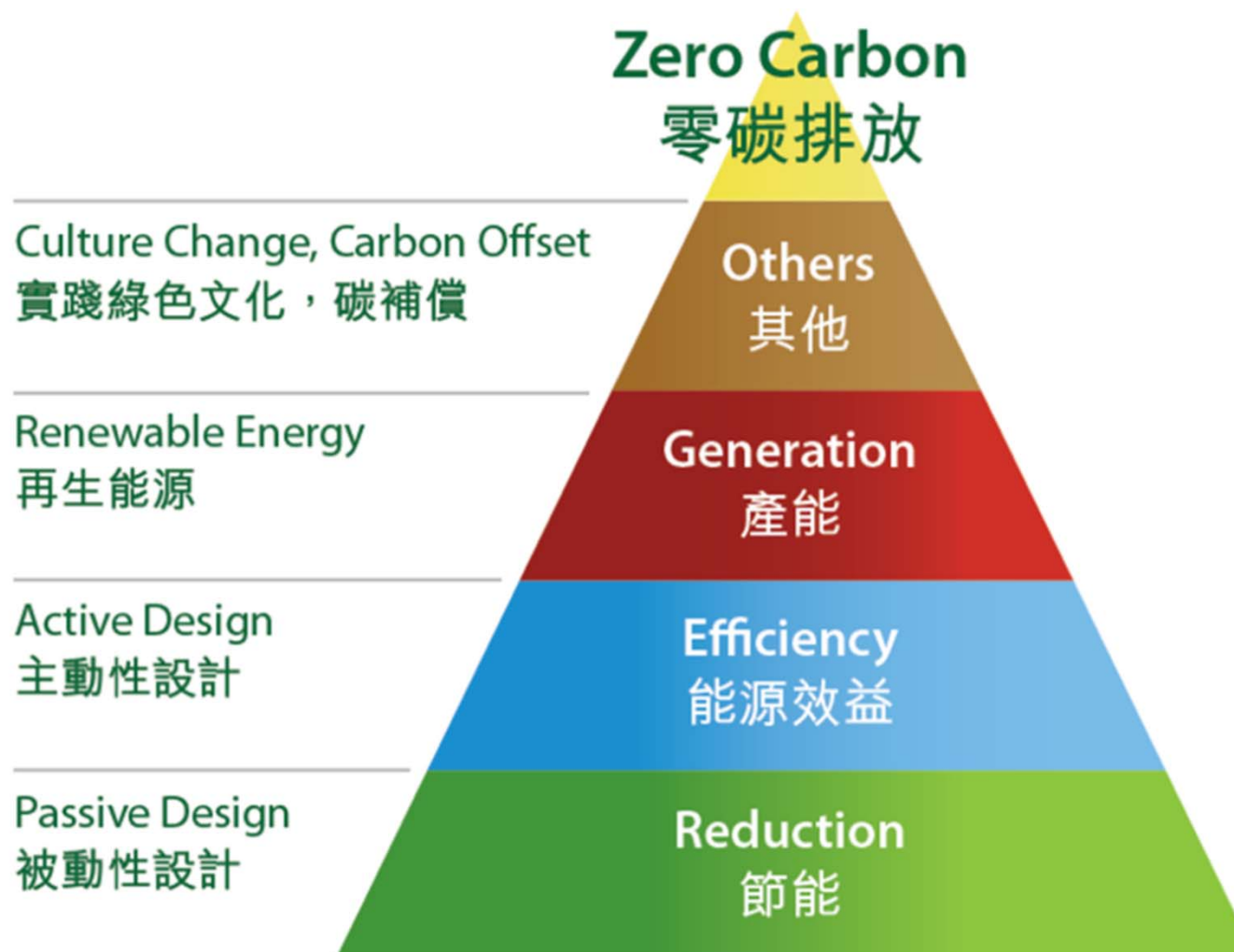


Demonstration Initiatives and Educational Features





Roadmap to Sustainability





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Laboratories and Technical Centres

Electronics

IC Design
Centre

IP Servicing
Centre

Probe & Test
Development
Centre

IC Failure
Analysis Lab

Reliability Lab

3D SiP Lab



IT/Telecom

Wireless
Communications
Test Lab

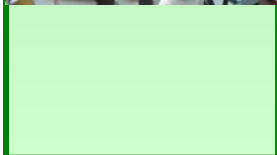
LTE Joint Test Lab



Precision Engineering

Materials
Analysis Lab

Rapid
Prototyping
Lab
(To be opened in
Phase 3)



Biotech

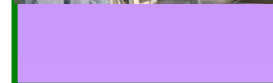
Biotech
Support
Centre



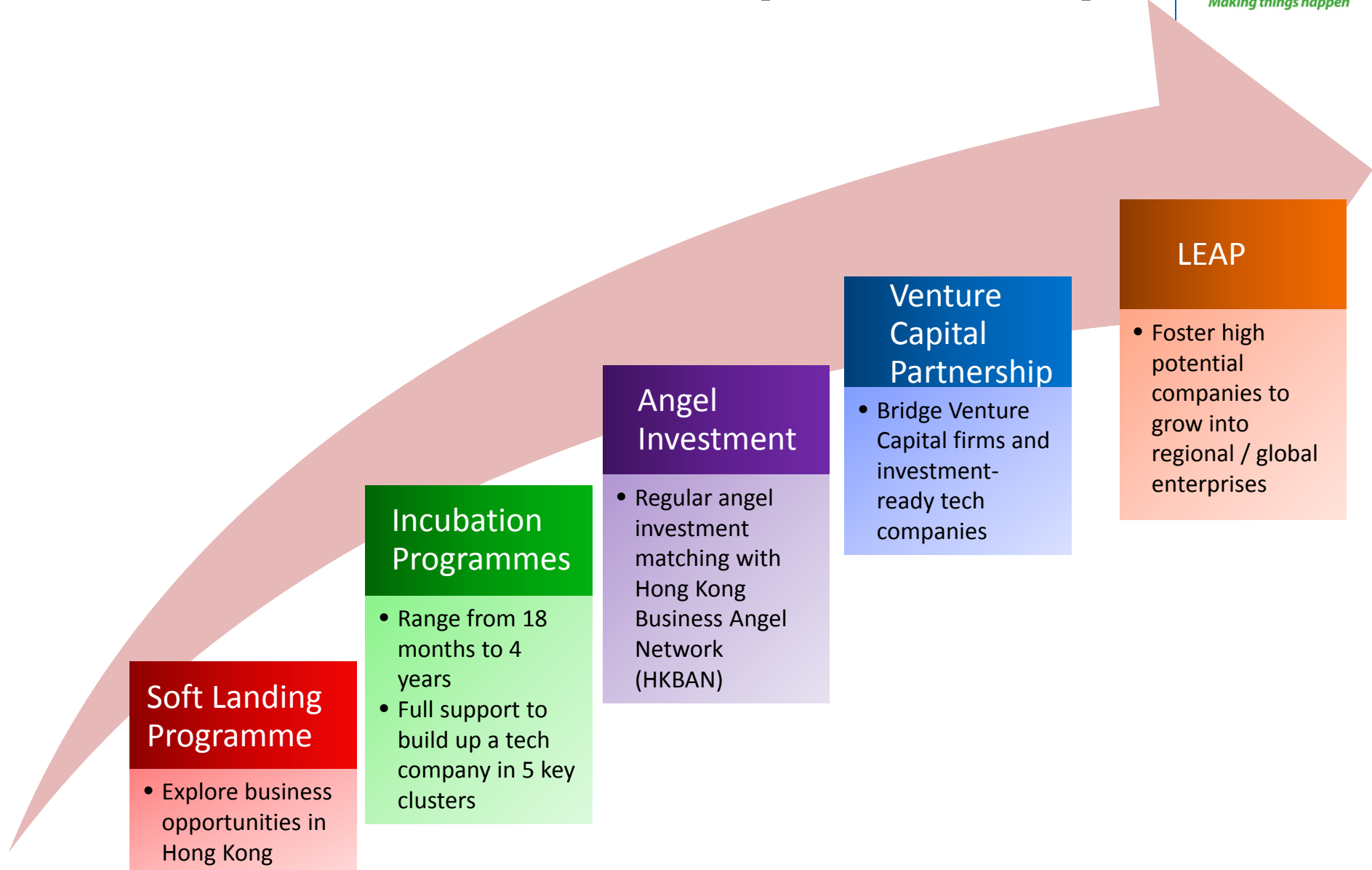
Green Tech

Solar Energy
Technical
Support
Centre

Solid State
Lighting Lab



The Road towards Entrepreneurship...





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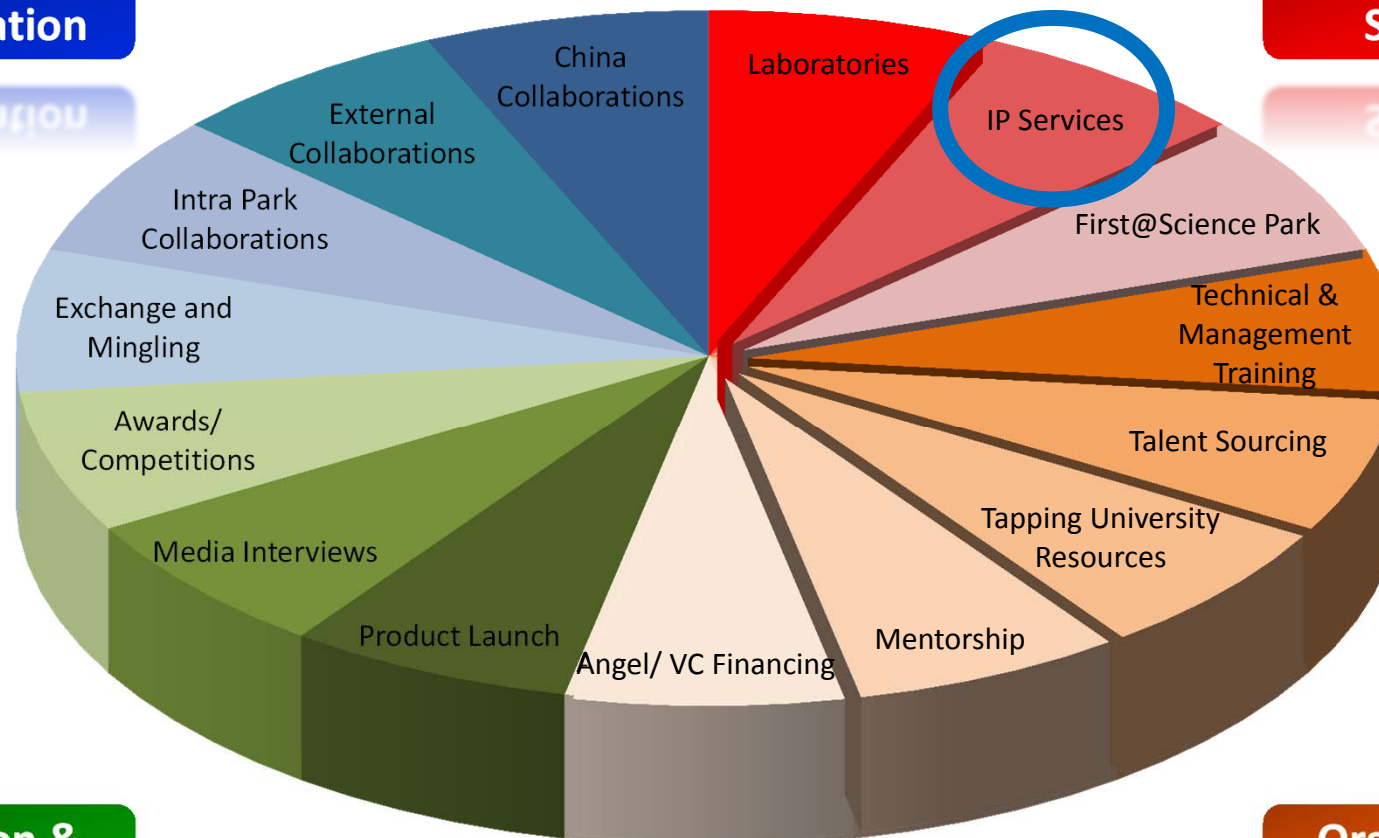
Comprehensive Support

Network Collaboration

Collaboration

Technology Support

Support



Promotion & Publicity

Publicity

Organisation Growth

Growth



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HKSTPC – VC Partnership Programme

SEQUOIA  CAPITAL

SWK CAPITAL

TELEFIELD™

 青雲創投
TSING CAPITAL

IDG 资本
IDG Capital Partners

 ARBOR VENTURES

REGATTA™
CAPITAL MANAGEMENT



MITSUI GLOBAL INVESTMENT

日本三井物产环球投资株式会社北京代表处

 兰馨亚洲投资集团
ORCHID ASIA

 aster
capital

Comba

中卫基金 
China Healthcare Venture

FUTURE
Architect

 天策创投
Kingcraft VC

 REDBRIDGE
Enterprises Limited

 DOW®



 BASF
The Chemical Company

 斐然 资本
FUEL Capital

 kyron
Get Real. Fundable. Fast.

 intel®
Capital

Soft Landing Programme

Incubation Programmes

LEAP Programme

Angel Investment

VC Partnership

Incubation Programmes

Statistics and Achievements



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As at 30 Sept 2014

Financial Support to R&D by Innovation & Technology Commission

Innovation & Technology Fund (ITF)

	Innovation & Technology Support Programme (ITSP)		University-industry Collaboration Programme (UICP)
	Platform Projects	Collaborative Projects	
Industry Investment	10% of project cost	50% of project cost	50% of project cost
ITF	90% of project cost	50% of project cost	50% of project cost
Industry to own IP	N	Y	Y

Research & Development Cash Rebate Scheme

HK-PRD Technology/ Innovation Corridor



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University of Cambridge
World Rank #2



University of Oxford
World Rank #5



University College London
World Rank #4

ETH Zürich

ETH Zürich
World Rank #13



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

EPFL
World Rank #29



University of Edinburgh
World Rank #21



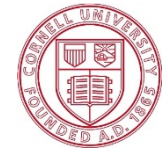
Lund University
World Rank #71



LMU München
World Rank #60



MIT
World Rank #1



Cornell University
World Rank #14



Georgia Tech
World Rank #88



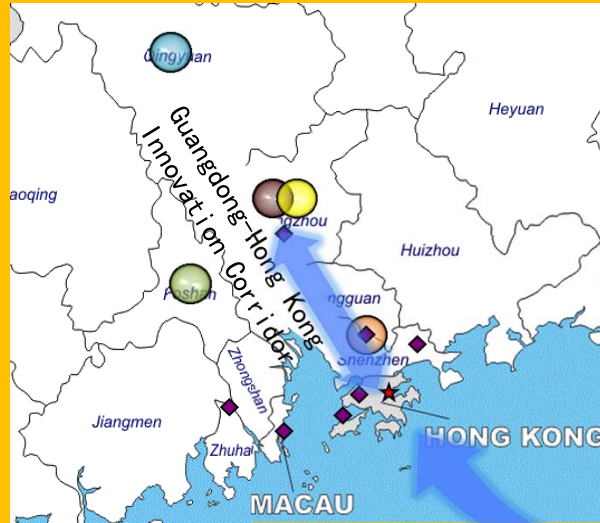
Carnegie Mellon University
World Rank #49



University of Glasgow
World Rank #54



Stanford University
World Rank #15



International Tertiary R&D
World-class Talents
International Innovations

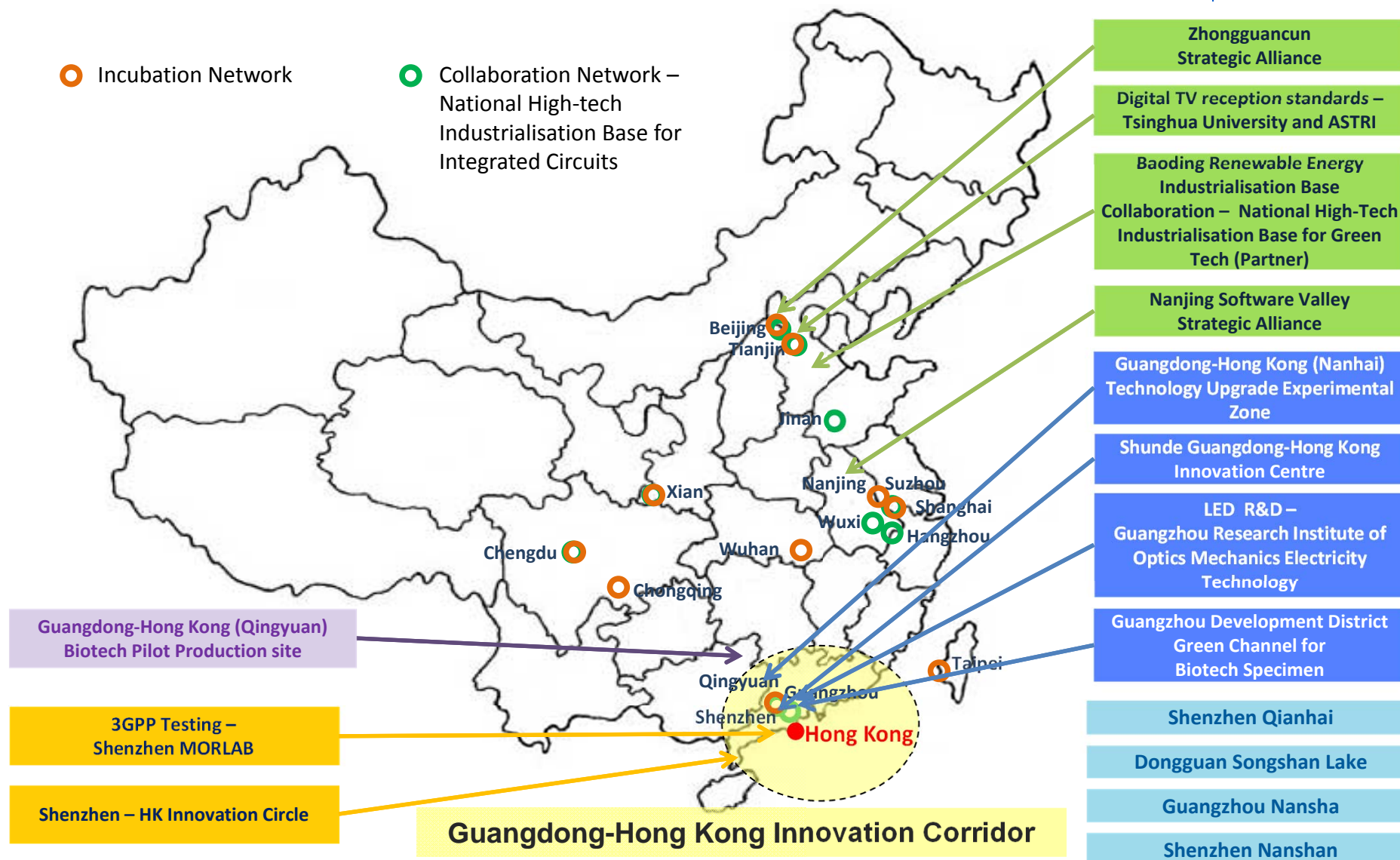


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Mainland Collaboration

○ Incubation Network

● Collaboration Network –
National High-tech
Industrialisation Base for
Integrated Circuits



IP Trade Survey conducted by HKTDC in 2012

among 10 Asia-Pacific cities including Singapore and Shanghai



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- HK was ahead of other cities in IP creation, IP modification and related services
- HK has excellent geographical location and institutional structure
- HK was viewed by many as best location for licensing, copyright trading and technology transfer



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