

The National University of Singapore (NUS) Innovation & Entrepreneurship Eco-system and APEC

HUI Kwok Leong
4 November 2019
Suzhou

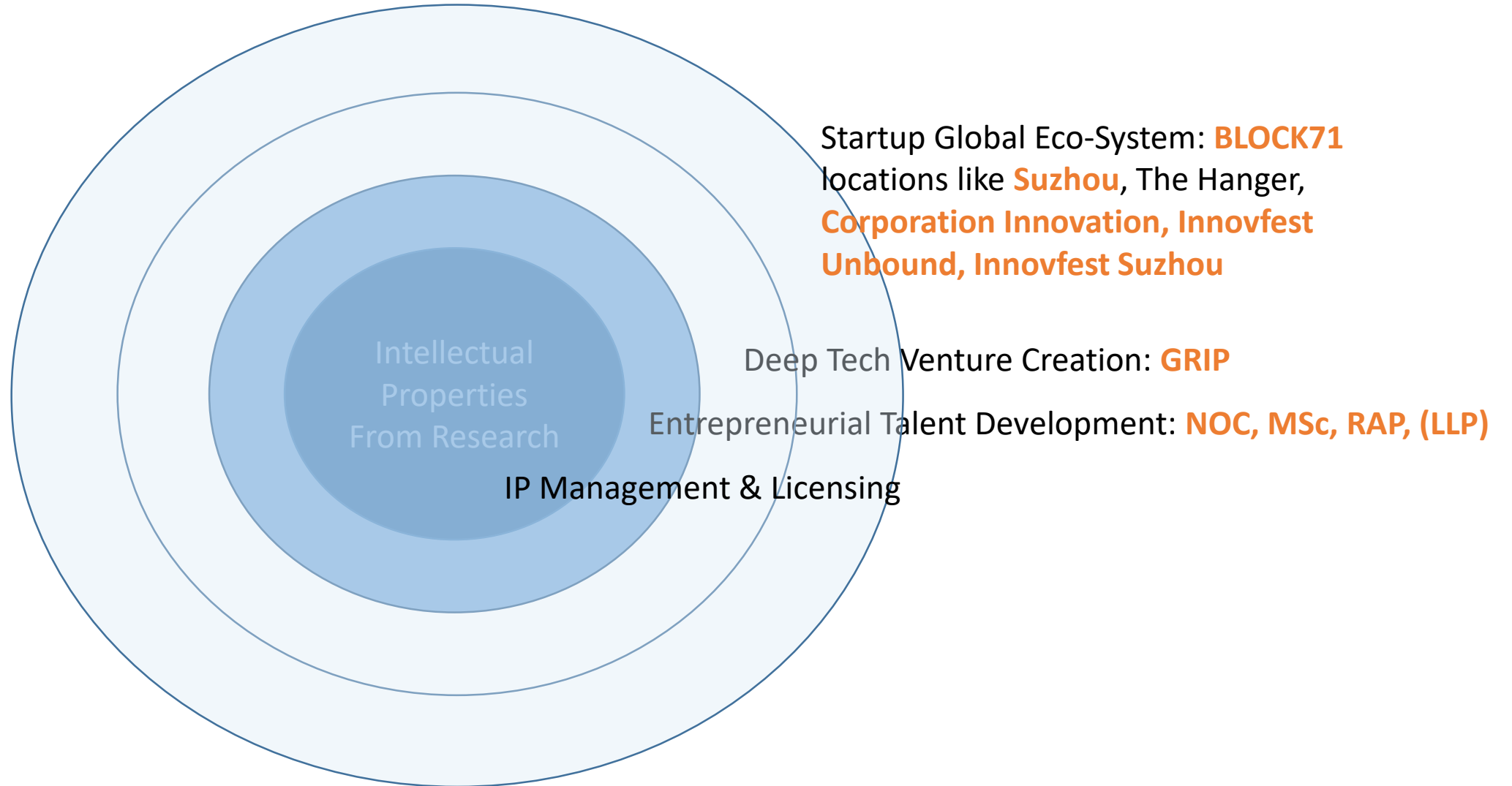


Our Objectives:

- Developing Entrepreneurial Talent (NOC, MSc, RAP)
- Creating Deep-Tech Ventures (GRIP)
- Building Global I&E Gateways (BLOCK71 & NUSRI)
- Engaging the Ecosystem (Corporate Innovation, Innovfest)



NUS Innovation & Entrepreneurship Eco-System



NUS is **Singapore's flagship university**

Our reputation for excellence is built on

| Education and research innovation

| Discoveries and initiatives that
| contribute to country and society

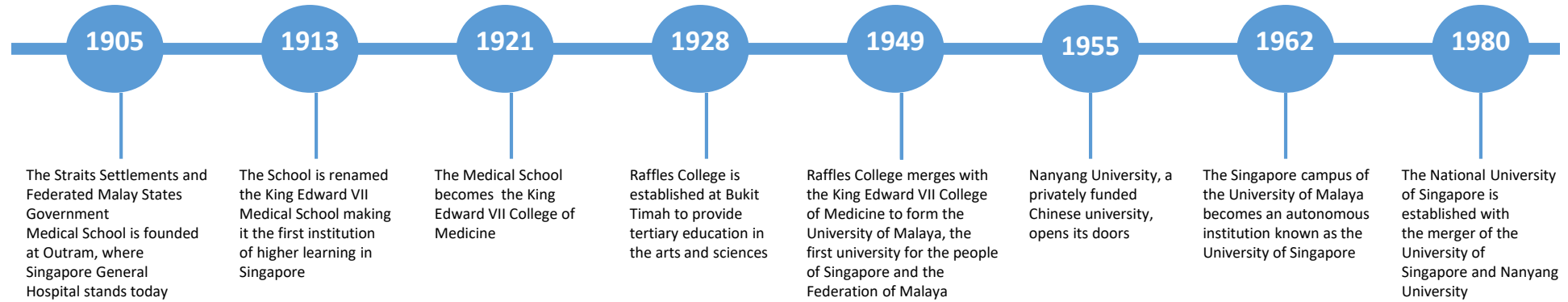


A photograph of three students in a modern university setting. In the foreground, a student with dark hair is seen from the back, looking at a laptop. In the middle ground, a young man with dark hair and headphones around his neck is smiling and looking at a laptop. Next to him, a young woman with dark hair is also smiling and looking at the same laptop. They are sitting at a white table. In the background, other students are visible, and there are large windows with vertical blinds. The overall atmosphere is bright and collaborative.

**As a leading
global university
centred in Asia,**

**| we nurture students
to understand Asia
and the world**

National University of Singapore (NUS)



A Leading Global University Centered in Asia Innovation & Impact

NUS aspires to be a leading global university centred in Asia, characterised by world-class education and scholarship, distinguished by our special expertise, thought-leadership and connections in Asia.

National University of Singapore (NUS)

It is a world leader in teaching, research and entrepreneurship. It has more than **40,000 students** from more than **100 countries and regions around the world**.

NUS has **17 colleges** offering undergraduate and postgraduate degree programmes, more than **2,600 faculties** and more than **4,000 full-time researchers**.



We are Asian and Global







NUS Research

Conduct research of
global impact in support
of national objectives

Achieve **peaks of excellence**
across interdisciplinary research

Bring research discoveries
to **application** and
commercialisation

4 Research Centres of Excellence

- | Centre for Quantum Technologies
- | Cancer Science Institute of Singapore
- | Mechanobiology Institute, Singapore
- | Singapore Centre on Environmental Life Sciences Engineering
(in partnership with NTU)

30 Research Institutes & Centres



NUS (Suzhou) Research Institute

Our first overseas research institute



First foreign university to set up
a research institute within the
Suzhou Dushu Lake Science and
Education Innovation District of
Suzhou Industrial Park

Yale-NUS, a leading **liberal arts college** in Asia which offers a new model of liberal arts & science education for Asia and the world

Groundbreaking partnership with
Yale University



Building bridges, building alliances



| **AUN**

ASEAN
University Network

| **AUA**

Asian
Universities Alliance

| **APRU**

Association of
Pacific Rim Universities

| **IARU**

International Alliance of
Research Universities

| **U21**

Universitas 21

| **WEF**

Global University
Leaders Forum

Our distinctive global programs

| NUS Overseas
Colleges

| Student exchange
and internships

| **>70** double,
joint
and concurrent
degrees with top
universities



A low-angle, upward-looking shot of an airplane's wing and tail section. The wing is white with a dark leading edge and a red-tipped wingtip. The background is a clear sky with a soft orange and yellow glow from the setting or rising sun, transitioning into a deep blue at the top.

>300 partner
universities
in 40+ countries for
student exchange
experiences

WHEN EVERYTHING SEEMS TO BE GOING AGAINST YOU,
REMEMBER THAT THE AIRPLANE TAKES OFF
AGAINST THE WIND, NOT WITH IT.

A group of approximately 12 students, mostly of Asian descent, are posing for a group photo in a room. They are wearing blue t-shirts with "NUS OVERSEAS COLLEGES" printed on them. Some are standing in the back, while others are sitting or kneeling in the front. They are all smiling and making various hand gestures, some forming heart shapes. The background is a white wall with a large, bold, black quote. To the right, there is a blue server rack. The floor is dark grey.

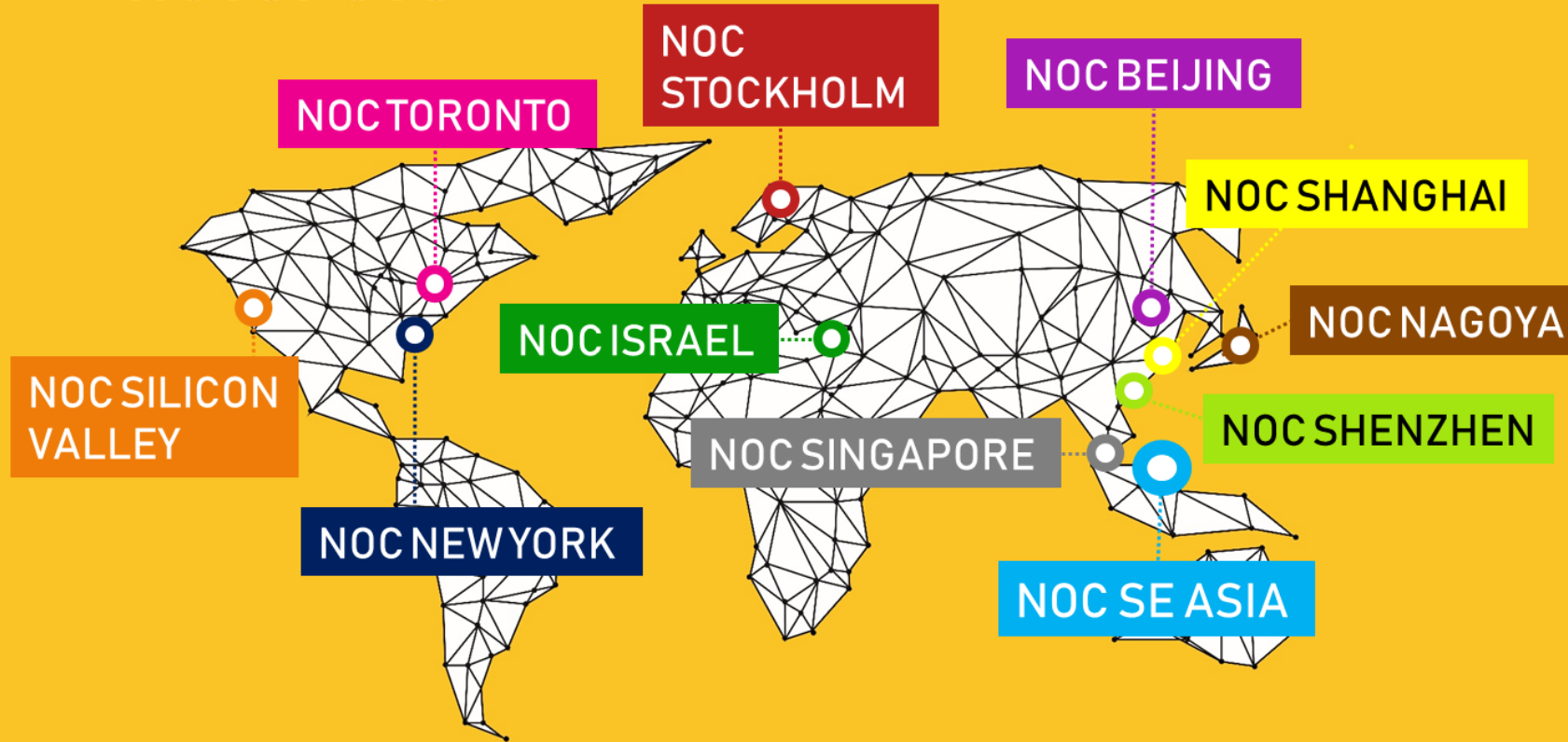
Developing Entrepreneurial Talent

A group of five diverse students, three men and two women, are standing in an urban courtyard. They are all smiling and looking towards the camera. The man on the far left is wearing a tan jacket. The woman next to him is wearing a black jacket and a grey scarf. The man in the center is wearing a dark grey puffer jacket over a teal t-shirt that has 'NUS OVERSEAS COLLEGE' printed on it. The woman next to him is wearing a tan jacket over a teal t-shirt. The man on the far right is wearing a dark blue quilted jacket. In the background, there are multi-story buildings with green fire escapes and a wall with graffiti that includes the word 'SAHADI'S' and 'COMING SOON'.

NUS Overseas Colleges (NOC)

- Immersion in 11 global entrepreneurial hubs
- Full-time start-up internships
- Part-time entrepreneurship classes
- Singapore Signature University Student Program

11 ENTREPRENEURIAL HOTSPOTS



>2800

Alumni

>650

Alumni-founded
start-ups

>79%

Alumni involved in
Innovation &
Entrepreneurship
ecosystem



What's Ahead for NOC

- Launching NOC PhD program in 2020



MSc in Entrepreneurship (Venture Creation)

- One-year program
- Experiential approach
- Venture creation focus
- Launching in 2020

Residential Accelerator Program (RAP)

- Three-month program
- Targeted at professionals interested in deep-tech start-ups
- Preferential access to NUS IP reservoir



Creating Deep-Tech Ventures



Graduate Research Innovation Program (GRIP)

- 1-year venture creation & incubation program
- For graduate students and research staff
- Aims to increase commercialization of NUS research and technologies



GRIP Start-Ups



Goal to spin-off
250 companies
over 5 years

Up to
S\$100K in funding
provided to teams

>40
graduated teams
to date

What's Ahead for GRIP

- Integrating with NOC
- Forging investment partnerships
- Developing post-program support



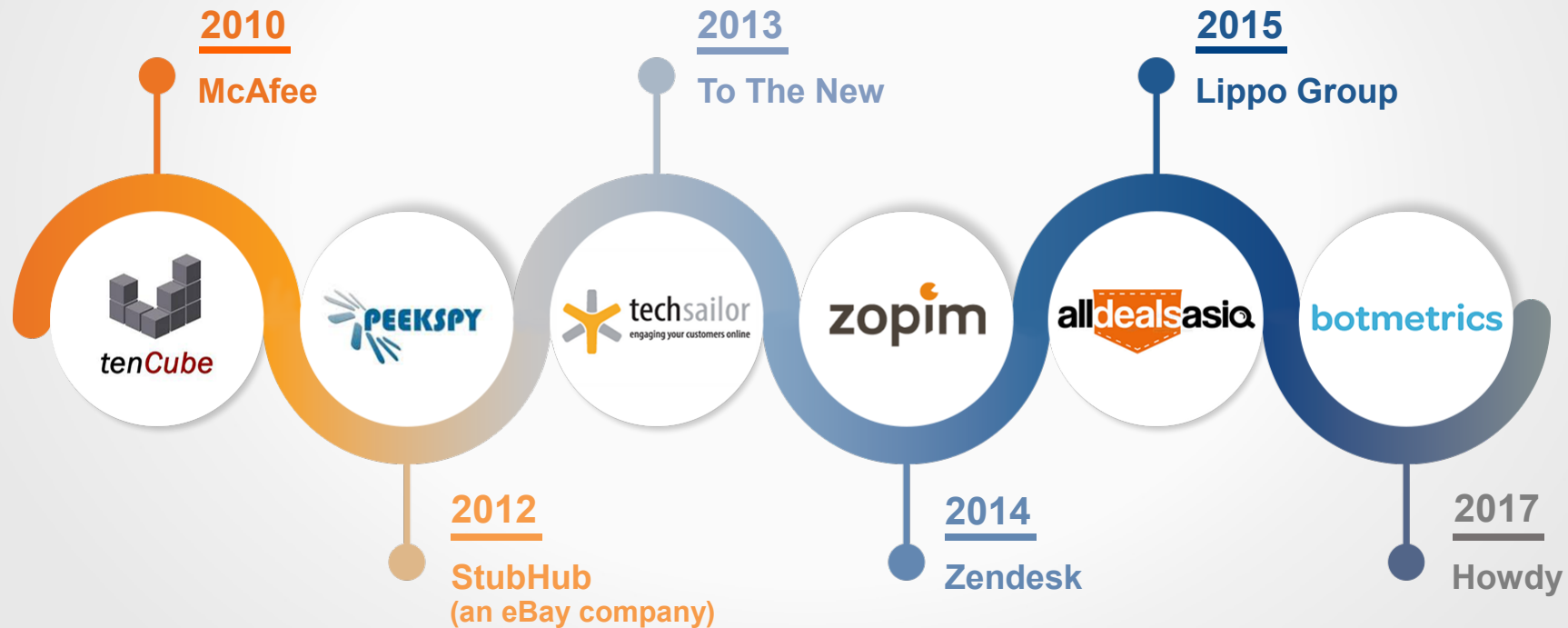
Incubatee /year > 300+ **Tech driven Startups /projects**

- Material manufacturing
- Advanced materials
- Water agriculture technology
- AR/VR virtual reality
- Artificial intelligence
- Biotechnology
- Medical and health care
- Blocks chain network security
- Privacy data science
- Analysis
- Energy and environmental
- (SaaS) enterprise service
- Financial
- Hardware
- Food science
- Information and communication
- Unmanned aircraft
- Machine learning
- Robot sensor

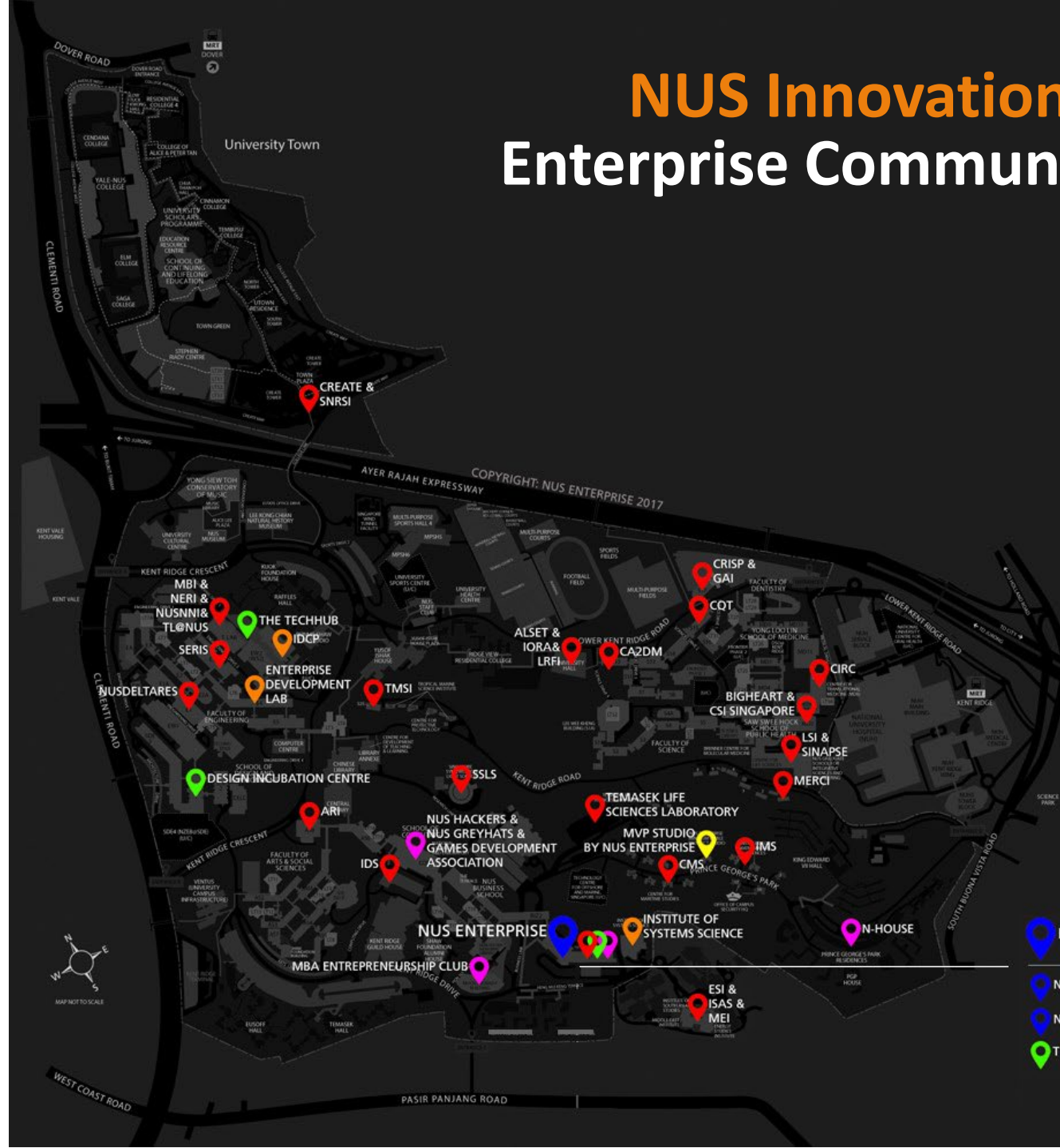
Promising spin-offs



Successful start-up acquisitions



NUS Innovation & Enterprise Community



LEGEND

- NUS ENTERPRISE
- INNOVATION CENTRES
- RESEARCH & TECHNOLOGY CENTRES
- INCUBATION CENTRES
- MAKER'S LAB
- COMMUNITIES / SOCIETIES / INTEREST GROUPS

SIGNATURE PROGRAMMES & EVENTS

BY NUS ENTERPRISE

- DBS-NUS SOCIAL VENTURE CHALLENGE ASIA
- INNOVFEST UNBOUND
- KOPI CHATS
- LEAN LAUNCHPAD
- MODERN AGING
- NUS ENTERPRISE SUMMER PROGRAMME
- NUS OVERSEAS COLLEGES
- SIA APP CHALLENGE
- START-UP VALIDATION PROGRAMME
- TECH.SG

BY NUS BUSINESS SCHOOL

- EXECUTIVE EDUCATION PROGRAMMES

BY NUS FACULTY OF ENGINEERING

- INNOVENTURE
- TECH LAUNCH

BY NUS SCHOOL OF COMPUTING

- MATCHPRENEUR
- SOC CAREER FAIR

BY NUS

- NUS CAREER FAIRS

COMMUNITIES OUTSIDE NUS CAMPUS

IN SINGAPORE

- BLOCK71 SINGAPORE
- NUS ENTERPRISE@SINGAPORE SCIENCE PARK

IN CHINA

- BLOCK71 SUZHOU

IN INDONESIA

- BLOCK71 JAKARTA

IN THE U.S.

- BLOCK71 SAN FRANCISCO

- NUS ENTERPRISE
- NUS ENTREPRENEURSHIP CENTRE
- NUS OVERSEAS COLLEGES
- THE HANGAR BY NUS ENTERPRISE

- IRES & RMI & SSI & TLIAP
- SOC FURNACE
- NUS ENTREPRENEURSHIP SOCIETY & DEEP LEARNING WIZARD & ENACTUS



Building Global Innovation & Entrepreneurship Gateways

BLOCK71

- A tech ecosystem builder & global connector
- Aggregator for the start-up community
- 7 locations in 6 cities and 4 countries





- **Singapore**
- **San Francisco**
- **Jakarta**
- **Suzhou**
- **Bandung**
- **Yogyakarta**

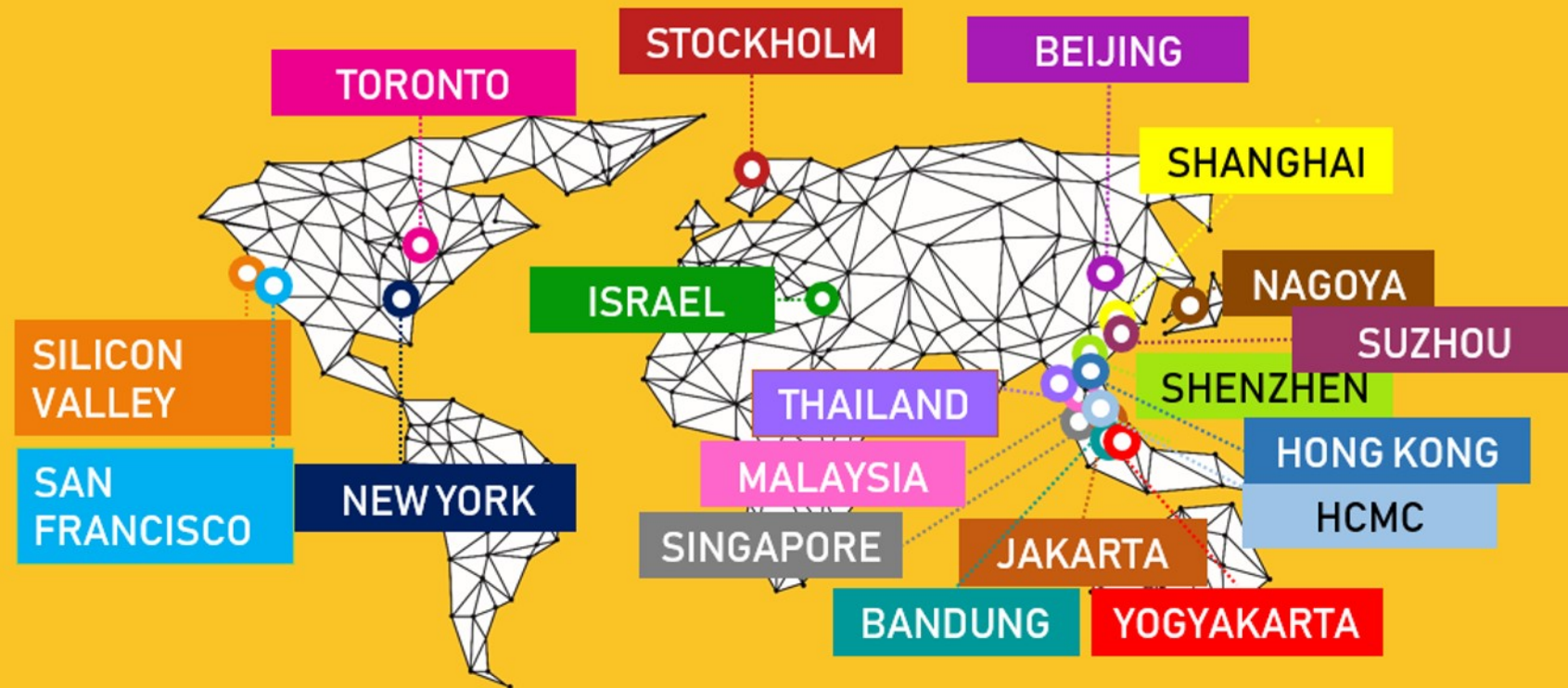
Global Reach and Access to:

- 670+ NUS Patents (FY14-18)
- 2400 NUS Research-Active Faculty
- >150 Pitch Opportunities Per Year
- 400+ Workshops, Meet-Ups and Kopi Chats
- 600+ Total Incubatees Since 2011

BLOCK71 around the world



Connections to & Presence in >15 I&E Hubs



**Supporting a Two-Way Flow of Talent,
Technologies & Start-ups**
through NOC and BLOCK71 programs,
exchange partnerships & access nodes

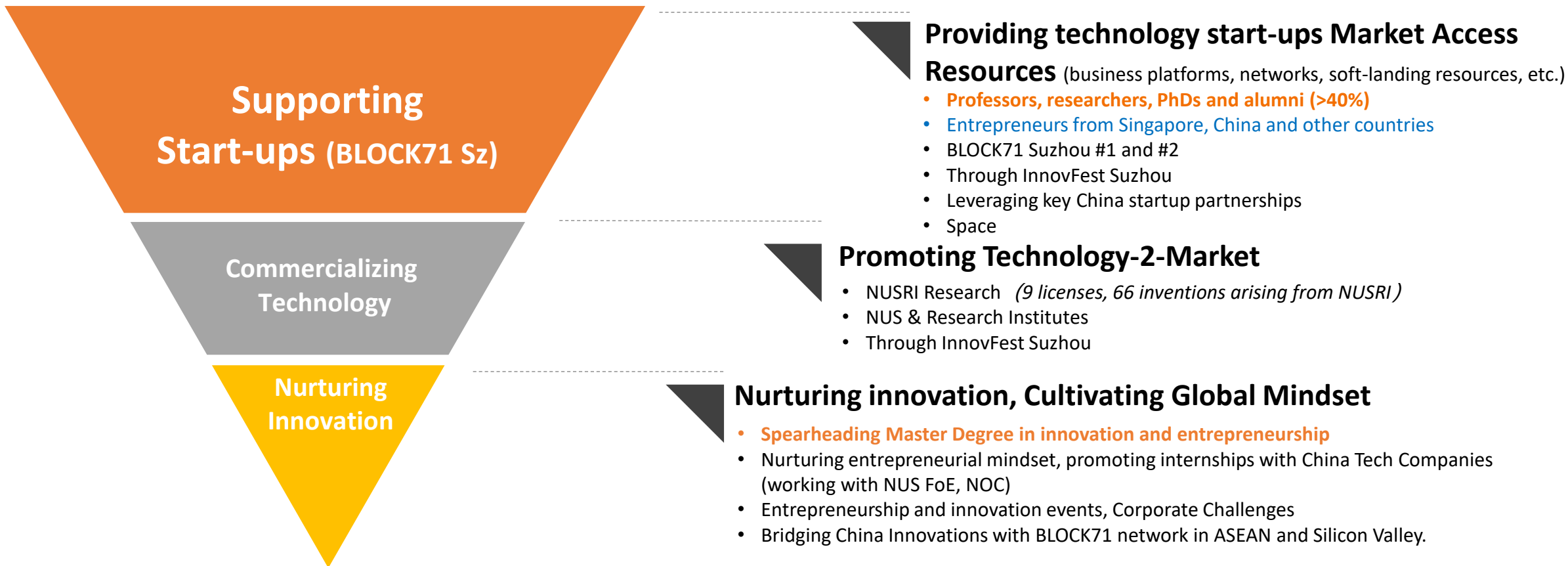
BLOCK71 Suzhou



"We are committed to building a vibrant international innovation and entrepreneurship ecosystem, building a broad platform that connects international science and technology, start-ups, investors and other resources, providing them with a variety of services and expanding domestic and overseas markets."

NUSRI Enterprise & BLOCK71 Suzhou

- Deep-tech Launchpad for Singapore Tech Startups and SMEs for Yangtze Delta



BLOCK71 Suzhou 壹

Collaboration between NUSRI and NUS Enterprise

Focusing on deep tech startups

Since May 2013

4000m² / 27 Individual Offices/ 500+ Workstations



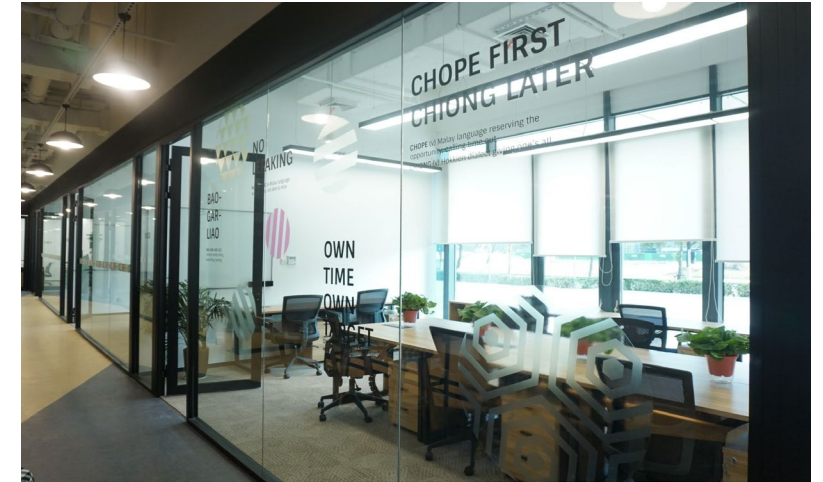
BLOCK71 Suzhou 貳

Collaboration between: NUSRI, NUS Enterprise, Ascendas-SingBridge China

Expanded space for eco-system tech startups and service providers

Since 21st Jan 2019

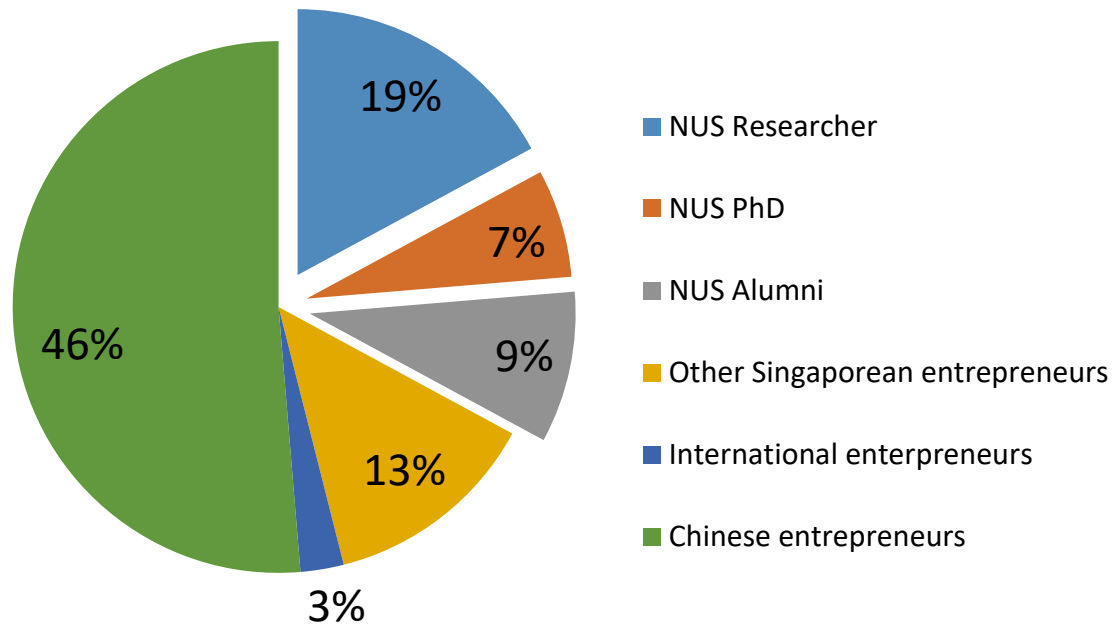
500m² / 9 Individual Offices/ 100 Workstations



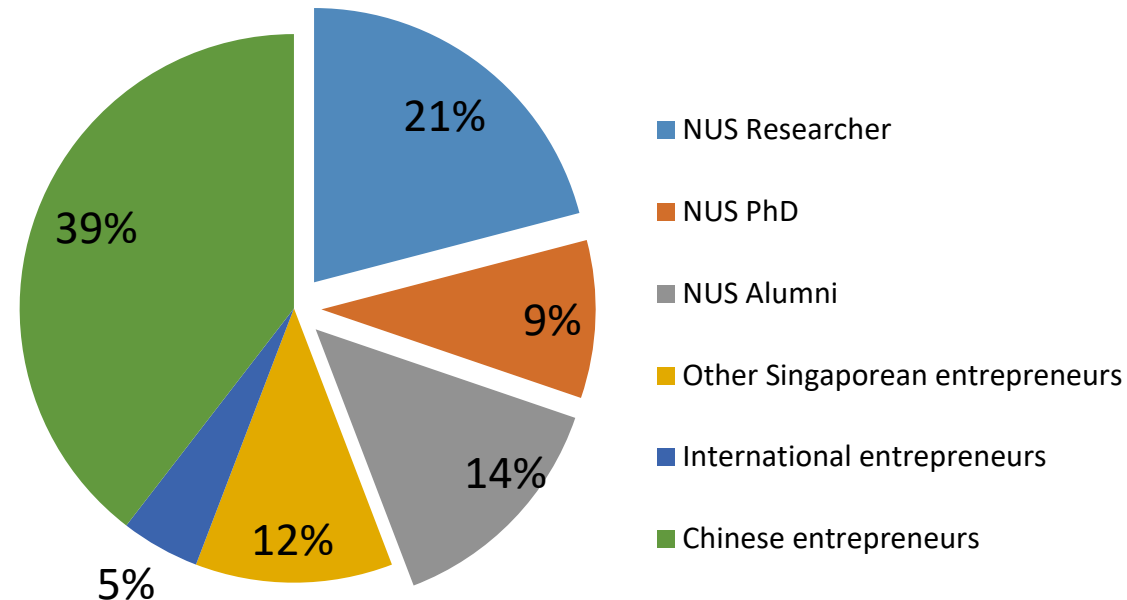
Profile of Incubatees

	NUS Researchers	NUS PhDs Alumni	Other NUS Alumni	Other Singaporean entrepreneurs	International entrepreneurs	Chinese entrepreneurs	Total
Total incubatees	13	5	7	10	2	39	76
On-site incubatees	9	4	6	5	2	17	43

Total incubatees



On-site incubatees



BLOCK71 Suzhou



76 incubated enterprise, **43** currently



850+ staffs in the incubating companies



RMB 800 million equity funding raised.
Total valuation **> RMB 2.5 billion**



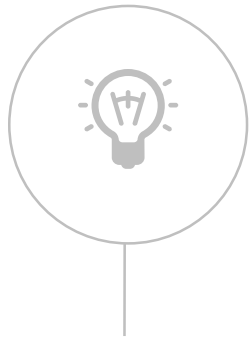
Helped **30+** entrepreneurs got all kinds of talents
titles and support from local government (**Over**
RMB 45 million grants)



160+ entrepreneurial activities held.
9800+ participants

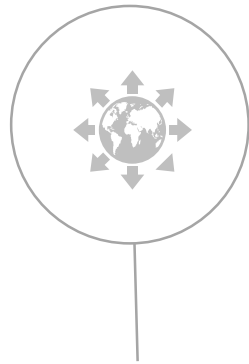


Technology resources, Market network and VC resources



Technology resources

- NUS & Research institutes
- NUSRI Research
- BLOCK71 Global Network



Market network

>1,000 companies network
Including industrial enterprises,
service enterprises, etc.



VC resources

>100 local and
international VCs



Local China Government policies and grants

Policy for Science and technology talents



Policy for science and technology enterprise qualification

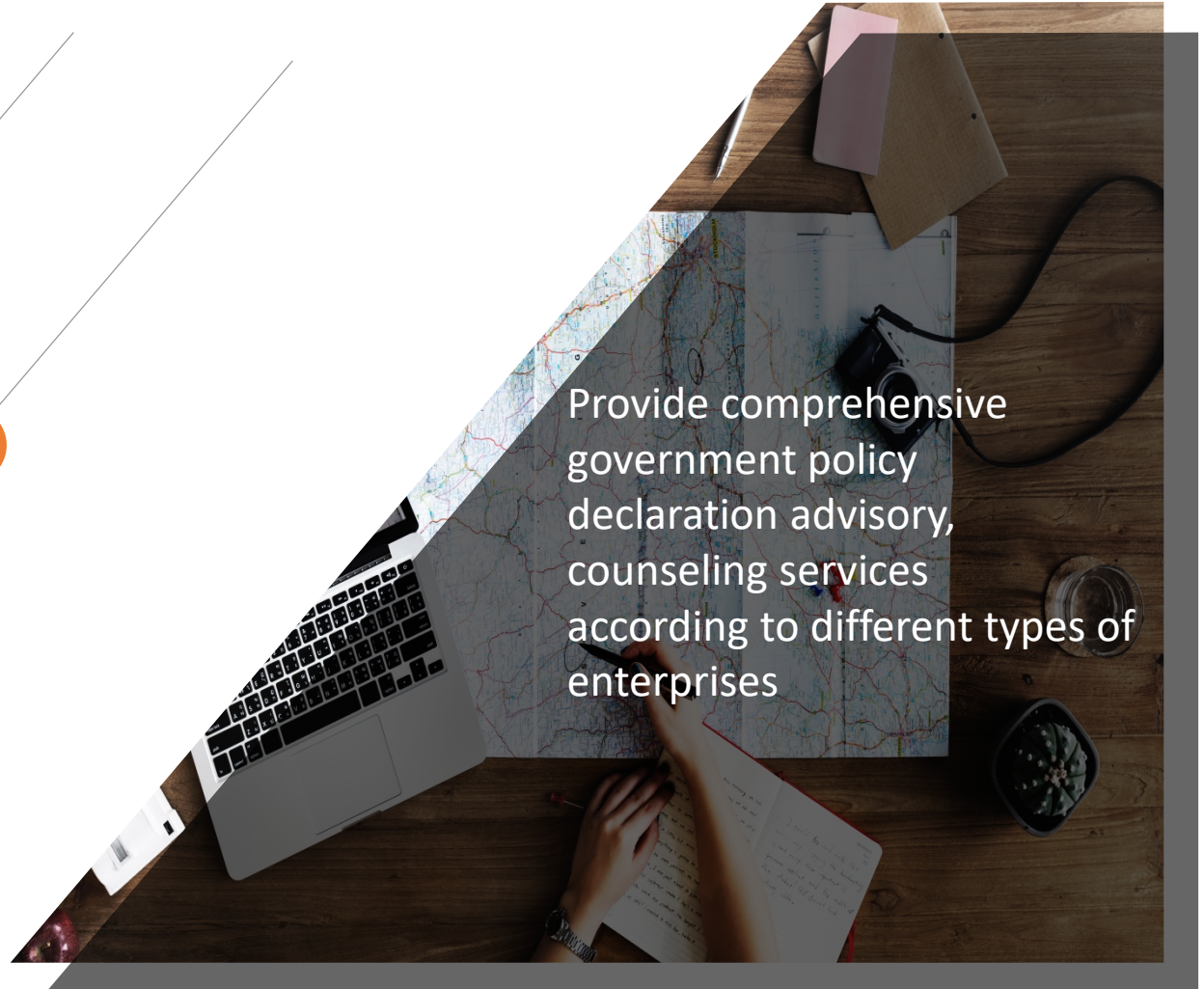


Supporting policies for science and technology finance



Subsidy policy for R&D

Provide comprehensive government policy declaration advisory, counseling services according to different types of enterprises



VVIP Guests Visiting



Visited by then Singapore Deputy Prime Minister TEO Chee Hean in 2014

Visited by SHI Heping, then vice governor of Jiangsu province, in 2014

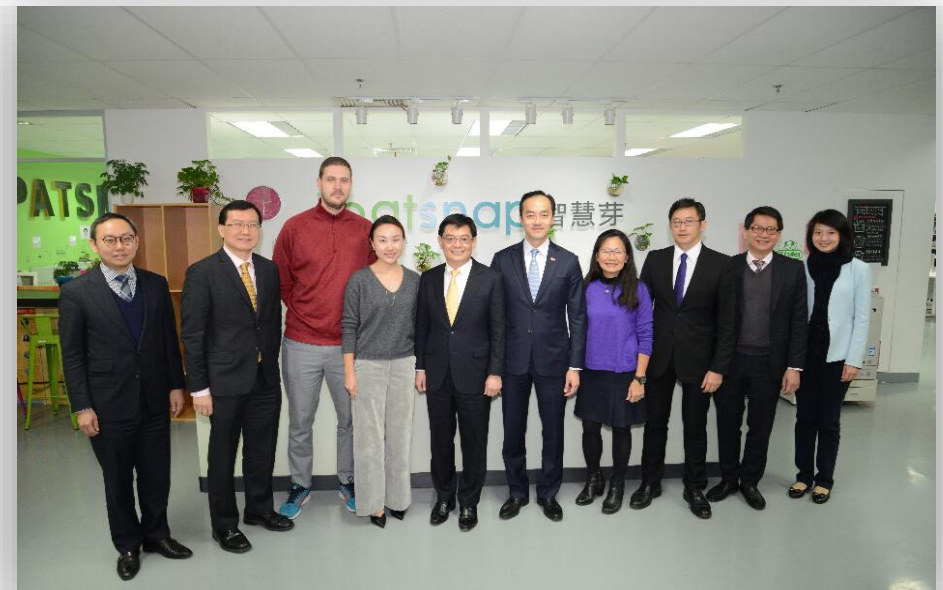


VVIP Guests Visiting



Lanuching ceremony of BLOCK71 Suzhou witnessed by Singapore and China leaders in 2017

BLOCK71 Suzhou Incubatee--**PATSNAP** visited by Minister of Finance HENG Swee Keat, Current Prime Minister of Singapore



INNOVATION
ECOSYSTEM

CYBERSECURITY
AT BLOCK71

ICE71

INNOVATION
CYBERSECURITY
ECOSYSTEM
AT BLOCK71

Engaging
the Ecosystem

Corporate Innovation Enabler

200 Corporate Partners * 2000+ Submissions

Accelerators

- ICE71 (Cybersecurity)
- Modern Aging (Health & Wellness)
- PIER71 (Maritime)
- SIA (Aviation)

Innovation Programs

- Bayer
- ComfortDelgro
- Danone
- DSTA
- L'Oréal
- LTA
- Shell
- SMRT



InnovFest

- Southeast Asia's largest innovation festival
- >13,000 attendees in 2019 from over 100 countries

Startup Ecosystem & Market Access: **Innovfest Suzhou** 2015-2019

Connecting Brands and Corporations
with Disruptive Technology

Explore China-ASEAN Opportunities

Suzhou, China
www.innovfestchina.com

Organised by



新加坡国立大学苏州研究院
NUS (Suzhou) Research Institute



NUS
Enterprise





Hosted and organized by NUSRI in close partnership with NUS Enterprise and BLOCK71 Suzhou,

Innovfest Suzhou is committed to becoming one of China's leading technology and startup platform to promote technology licensing and business collaboration at the eastern part of China.

Providing Singapore and overseas tech owners and companies a premium platform to find investors, collaborators, partners and enterprise customers.

Guest of Honor 2019:

Ms. Indranee RAJAH, Minister in the Singaporean Prime Minister's Office and Second Minister for Finance and Education

Dr. KOH Poh Koon, Senior Minister of State at Ministry of Trade and Industry, Singapore



Innovfest Suzhou 2019

118 presentations

39 exhibition booths and **7** concept projects

6 NUS GRIP startups participated

89 technologies and products were shared, **49** of them come from Singapore



704 attending companies and organizations: including

493 tech companies, **70** investment firms, **110** universities and research institutes

More than **1330** participants

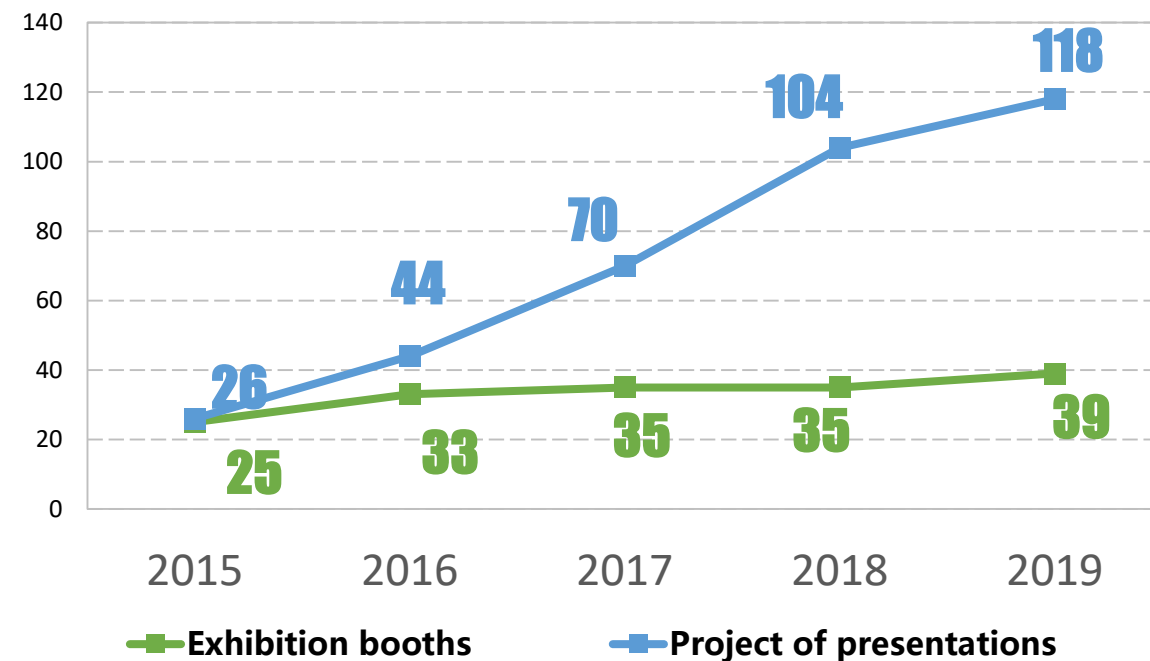
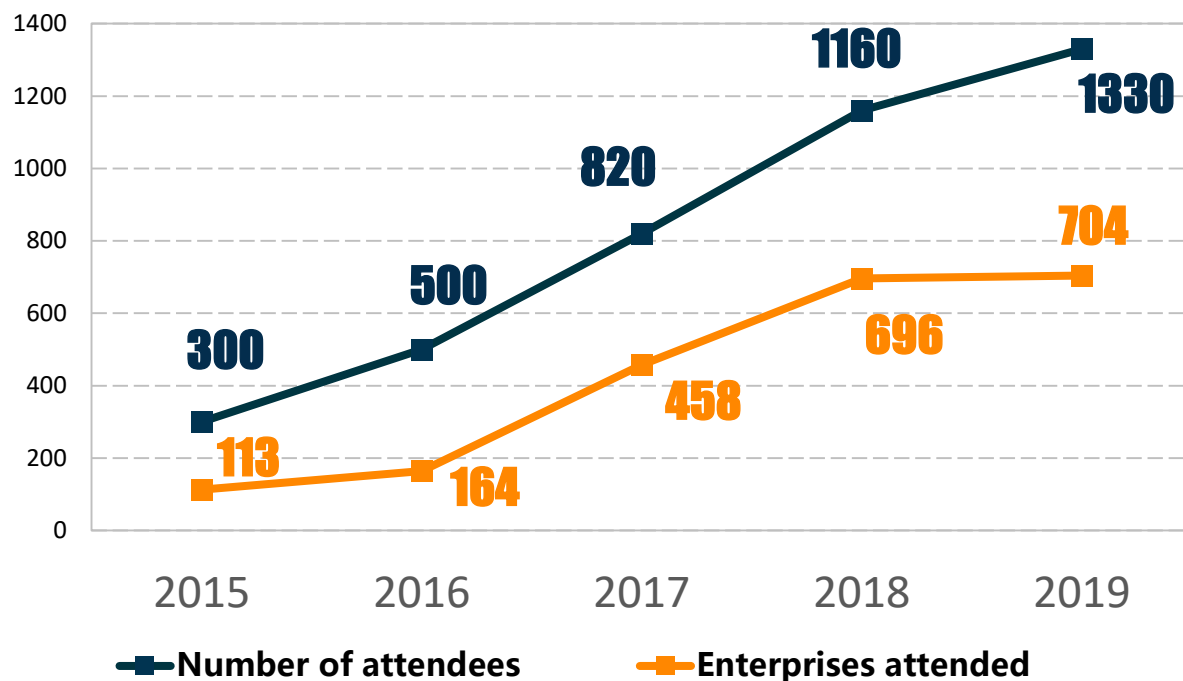
100 matching meetings

More than **71** media reports

Innovfest Suzhou 2019



Innovfest Suzhou 2015-2019



They joined us in 2019:



Media coverage

2019年09月26日 星期四

联合早报

zaobao.sg

许宝琨：创新是推动新中经济发展关键动力

曹实 苏州报道

昨天在苏州举办的中新国际科技交流与合作大会上，新加坡贸工部高级政务部长许宝琨指出，创新是推动新加坡和中国经济发展的关键动力，鼓励两国创新生态系统继续加强合作，共同创造更多创新技术和解决方案。

科研创新和企业2020计划拨款190亿元

许宝琨在大会上致辞时说，面对全球营商环境的不确定性，

企业需要通过创新来保持竞争力，并抓住新的增长机遇。他说，创新是当今全球经济增长的一股新动力，新加坡和中国都在努力发展科技研发和企业创新的生态系统。为了提升整体科技创新能力，新加坡在2016年推出了“科研、创新和企业”2020计划，拨款190亿新元，深化重点领域的基础研究，培育创业精神和推动科研成果市场化。

许宝琨鼓励新中创新型企业合作，又指两国企业可携手开拓东南亚市场。他说，东南亚

拥有超过6.4亿人口，消费规模达6.5万亿美元（8.9万亿美元），是世界第三大消费经济体。新加坡企业在东南亚开展了广泛而多样化的业务，累积了丰富的人脉网络及市场经验，可以作为中国企业开拓东南亚市场的合作伙伴。

东南亚10大独角兽企业四个以新加坡为基地

他也介绍，新加坡不仅是全球重要航运和贸易中心之一，也是全球人才和创新资源的集聚地。在10个东南亚独角兽企业当

中，就有四个以新加坡为基地，许多高增长的国际科技企业已在新加坡开展业务。在融资方面，东南亚34%的融资交易是通过新加坡风投资本达成。

许宝琨说：“除了在中国探索创新创业的商机，我们也希望有更多的中国创新企业和新加坡伙伴携手迈向东南亚。”

昨天开幕的中新国际科技交流与合作大会（Innovest Suzhou），由新加坡国立大学苏州研究院主办。这一大会自2015年开始举办，致力于搭建新中两

和产业的交流合作。本次大会设立了摩登乐龄、绿色智慧科技应用、生态修复等科技专场，涉及领域包括数码医疗、医学保健、物联网、人工智能、智能制造、绿色能源、污染治理等。来自新加坡国立大学、中国国务院发展研究中心、南京大学等海内外研究机构的逾百项国际科技创新项目，在本次大会上展示与对接。

——贸工部高级政务部长许宝琨

第五届中新国际科技交流与合作大会：深化中新合作

澎湃新闻

发布时间：09-28 17:07 上海东方报业有限公司

9月25至27日，新加坡国立大学苏州研究院（以下简称“新国大苏研院”）举办第五届中新国际科技交流与合作大会。

澎湃新闻（www.thepaper.cn）在现场看到，今年的中新国际科技交流与合作大会以着力深化中新合作为主题，以社会关切重大问题为导向，设立摩登乐龄、绿色智慧科技应用专场、生态修复等科技专场，涉及数字医疗、医学保健、物联网、人工智能等科技领域。携手国内外高校专家、大型创新企业及科技创新企业分享创新技术，开展专题研讨。

中国日报中文网 江苏 > 本网专稿

汇聚人才,聚力创新|新国大苏研院举办第五届中新国际科技交流与合作大会——深化新苏科教创新合作，提升创新驱动产业效能

来源：中国日报网 2019-09-26 19:31

分享

2019年9月25至27日，新加坡国立大学苏州研究院（以下简称“新国大苏研院”）举办第五届中新国际科技交流与合作大会。新方参会的有新加坡总理公署部长兼财政部及教育部第二部长英兰妮（Indranee Rajah），新加坡贸工部高级政务部长许宝琨医生，新加坡通商中国主席李奕贤，新加坡共和国驻上海总领事馆总领事罗德伟，新加坡国立大学高级常务副校长兼教务长何德华教授等领导。中方参会的有苏州市副市长杨知评，江苏省外办副主任杨菁，苏州工业园区党工委副书记、管委会主任丁立新，苏州工业园区党工委副书记、管委会副主任吴宏，苏州工业园区党工委委员、管委会副主任、统战部部长孙燕燕，苏州工业园区党工委委员、管委会副主任、组织部部长林小明等领导。

中国科技网 stdaily.com

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中新国际科技交流与合作大会在苏州举行，聚集产业与民生

2019-09-26 10:47:43 来源：科技日报 作者：张晔

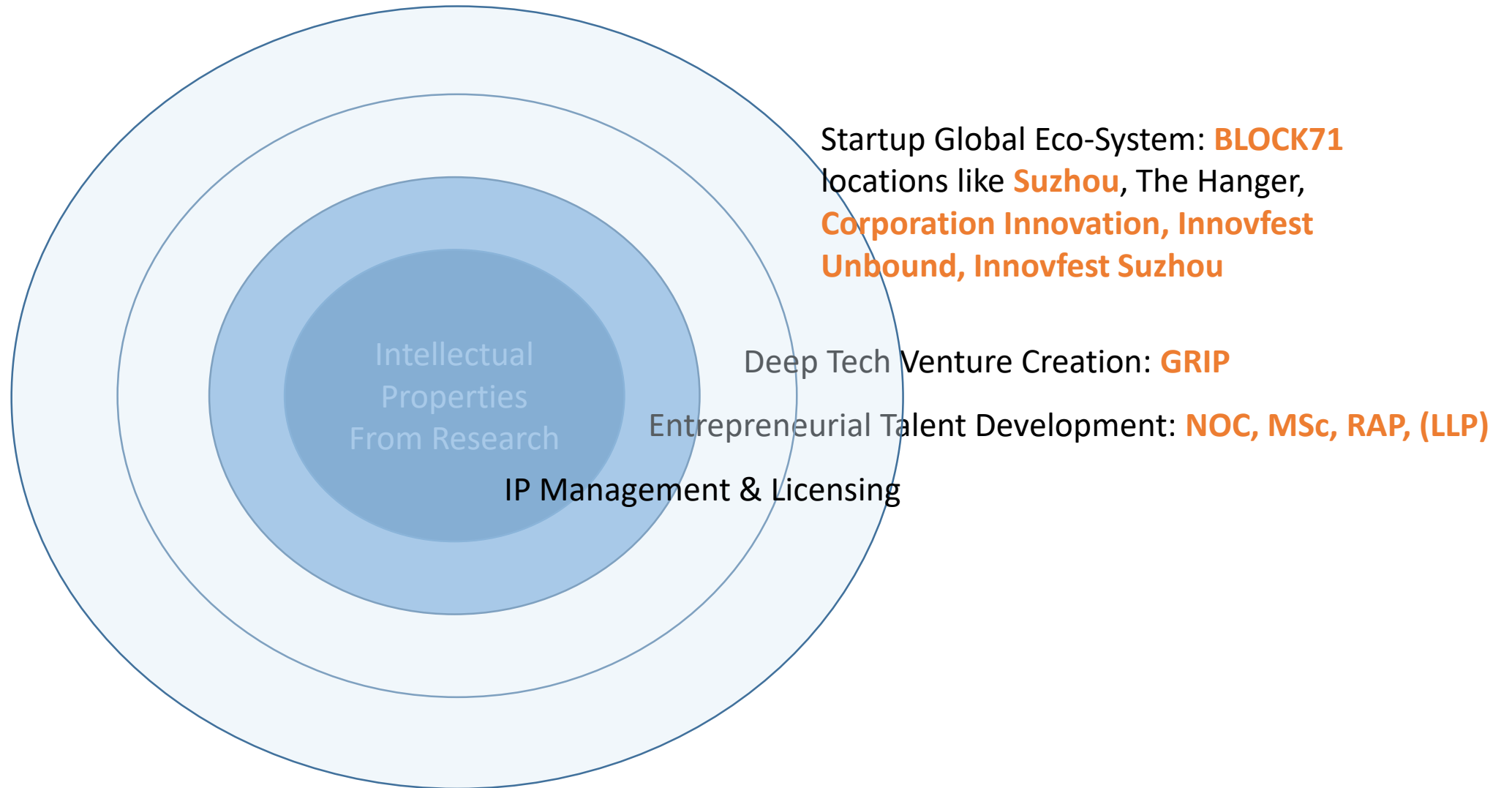
科技日报记者 张晔

数字医疗、物联网、人工智能、智能制造、绿色能源、污染治理……26日，第五届中新国际科技交流与合作大会在新加坡国立大学苏州研究院（以下简称“新国大苏研院”）举行，与会专家在八大专场、一场闭门路演、近百场主题演讲中，展示与对接来自新加坡、东盟国家及全球其他国家、地区百余项国际科技创新项目，聚集产业与民生发展。





NUS Innovation & Entrepreneurship Eco-System





Thank You!

nus.edu.sg

enterprise.nus.edu.sg

