



R&D Talent in Singapore and A*STAR

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Executive Director
A*STAR Graduate Academy

OUTLINE

- 
- 1. Research in Singapore**
 2. Career Opportunities for PhD Talent
 3. Get Started with A*STAR Scholarships

Strong Commitment to R&D in Singapore



“R&D is an important activity in a knowledge-based economy like Singapore ... Through R&D, we drive innovations that improve our lives ... develop new economic opportunities ... retain and develop our own talented scientists and researchers ... our policy and practice has been to have steady, long-term investments in R&D”

- PM Lee Hsien Loong at the opening of Campus for Research Excellence and Technological Enterprise (CREATE), Nov 2012

**National
Technology
Plan
(1991-1995)
S\$2 billion**

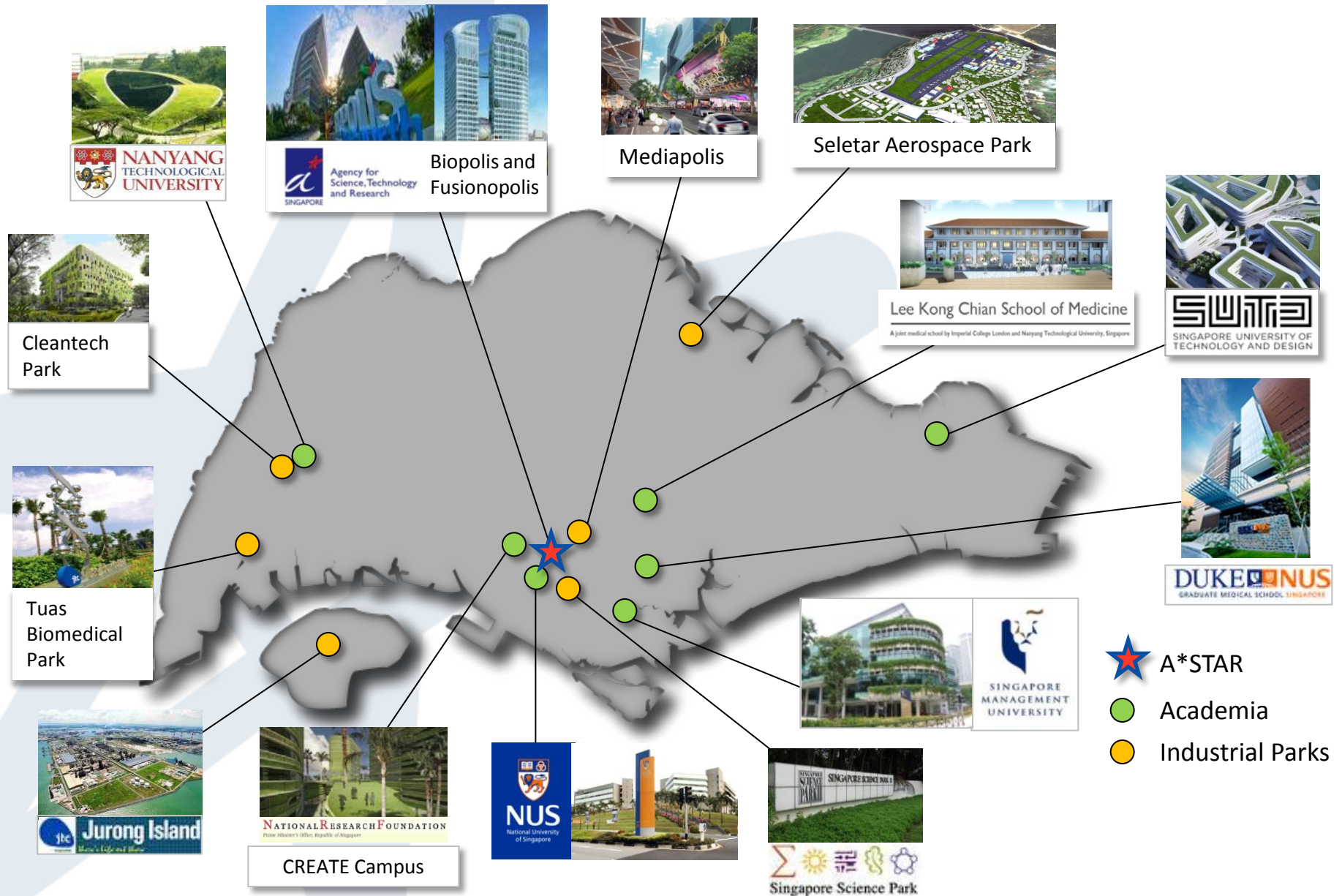
**National
Science &
Technology
Plan
(1996-2000)
S\$4 billion**

**Science &
Technology
Plan 2005
(2001-2005)
S\$6 billion**

**Science &
Technology
Plan 2010
(2006-2010)
S\$13.6 billion**

**Research,
Innovation &
Enterprise RIE
2015
(2011-2015)
S\$ 16.1 billion**

Singapore's Research Ecosystem

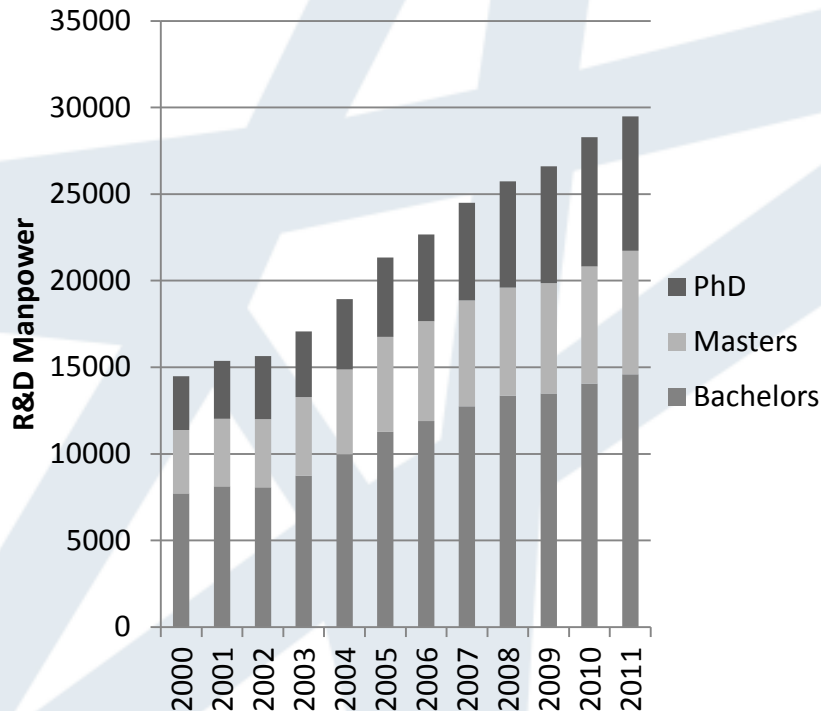


Growing Pool of PhD Talent

- Number of RSEs in Singapore has grown at ~7% since 2000
- Number of RSEs with PhD has grown ~9% since 2000

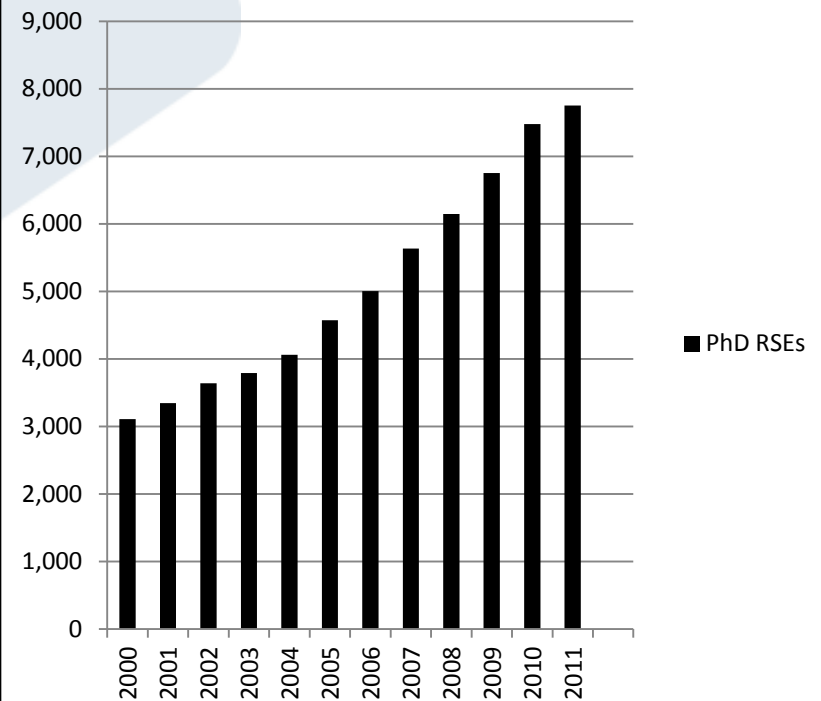
RSEs in Public & Private Sector

Total RSEs in 2011 = 29,482



PhD RSEs in Public & Private Sector

Total PhD RSEs in 2011 = 7,754

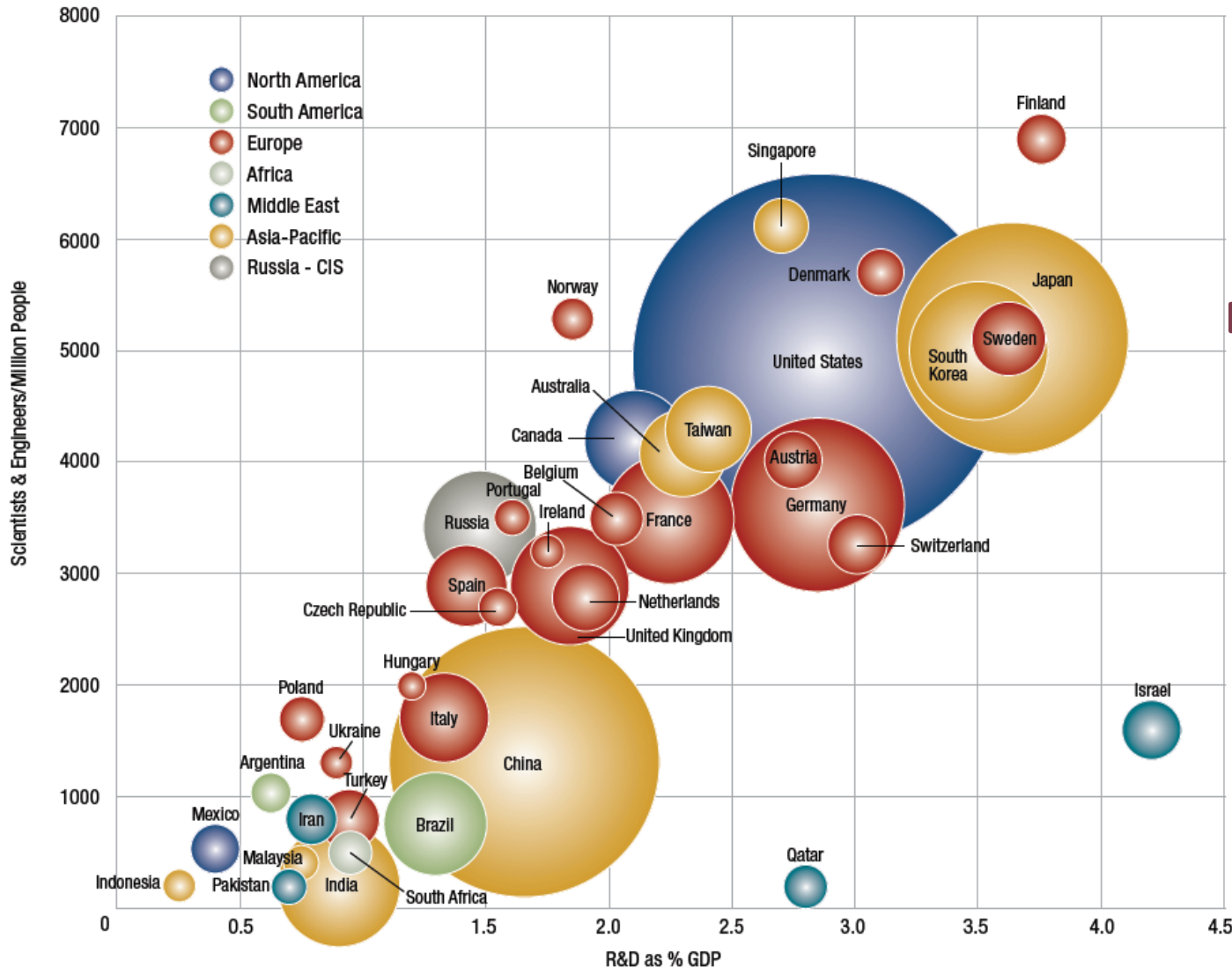


Source: Annual National Survey of R&D in Singapore

Singapore : Innovation and Research Intensity

World of R&D 2012

Size of circle reflects the relative amount of annual R&D spending by the country noted.



Global Innovation Index 2013 Ranking

Country/Economy	Score (0–100)	Rank
Switzerland	66.59	1
Sweden	61.36	2
United Kingdom	61.25	3
Netherlands	61.14	4
United States of America	60.31	5
Finland	59.51	6
Hong Kong (China)	59.43	7
Singapore	59.41	8
Denmark	58.34	9
Ireland	57.91	10
Canada	57.60	11
Luxembourg	56.57	12
Iceland	56.40	13
Israel	55.98	14
Germany	55.83	15
Norway	55.64	16
New Zealand	54.46	17
Korea, Rep.	53.31	18
Australia	53.07	19
France	52.83	20

By Insead Business School



Agency for
Science, Technology
and Research

NG LIVES.

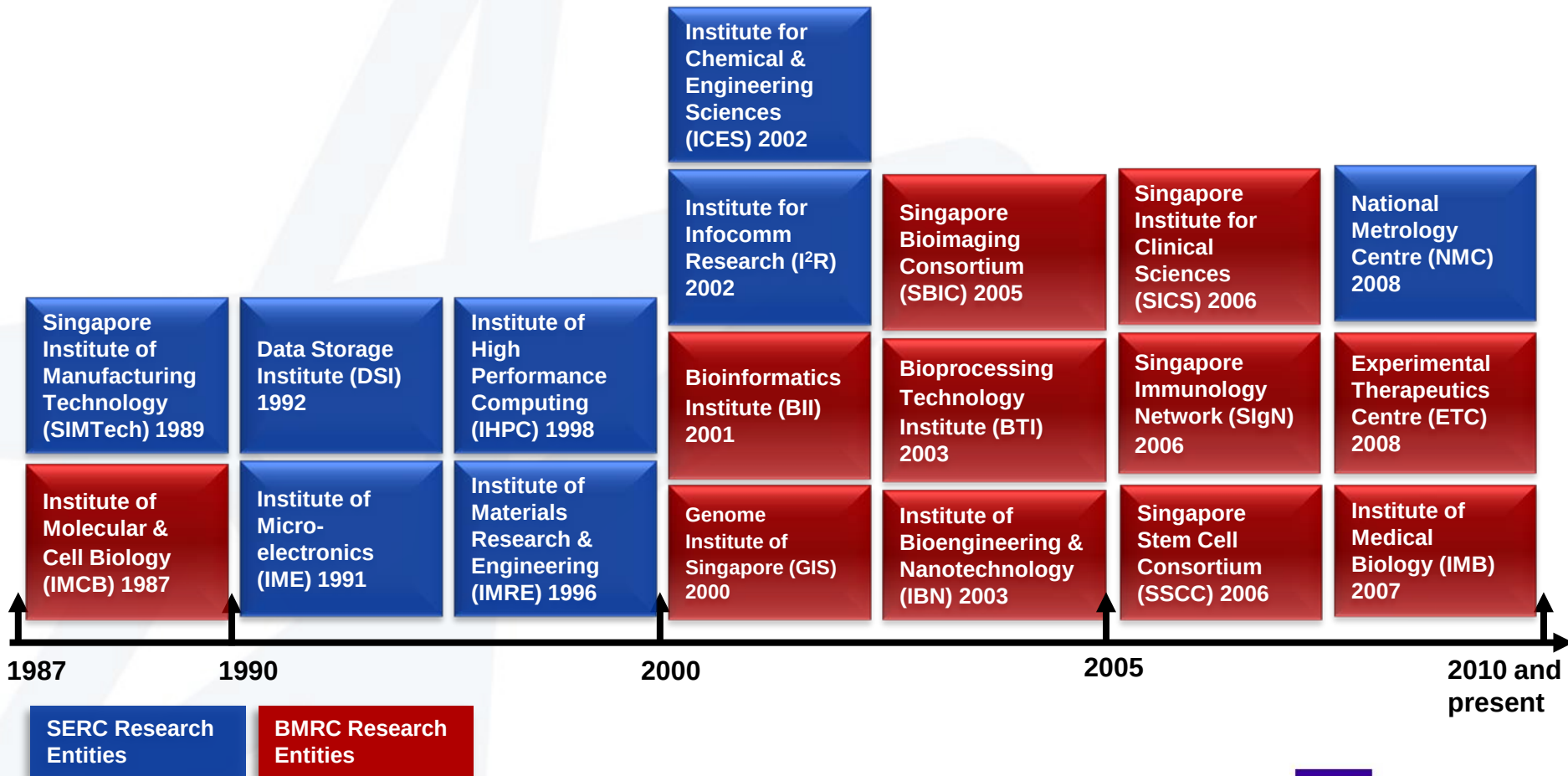
SINGAPORE

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A*STAR's Research Entities

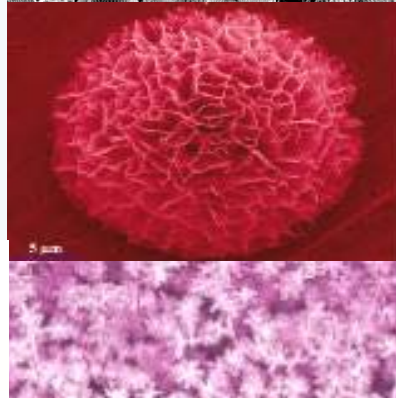
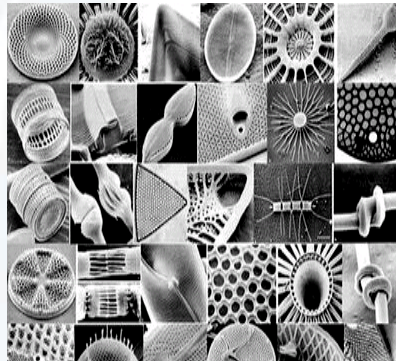
A*STAR has more than 2,900 RSEs
(Including international talent from some 60 countries)



SERC RIs

Electronics

Infocomm



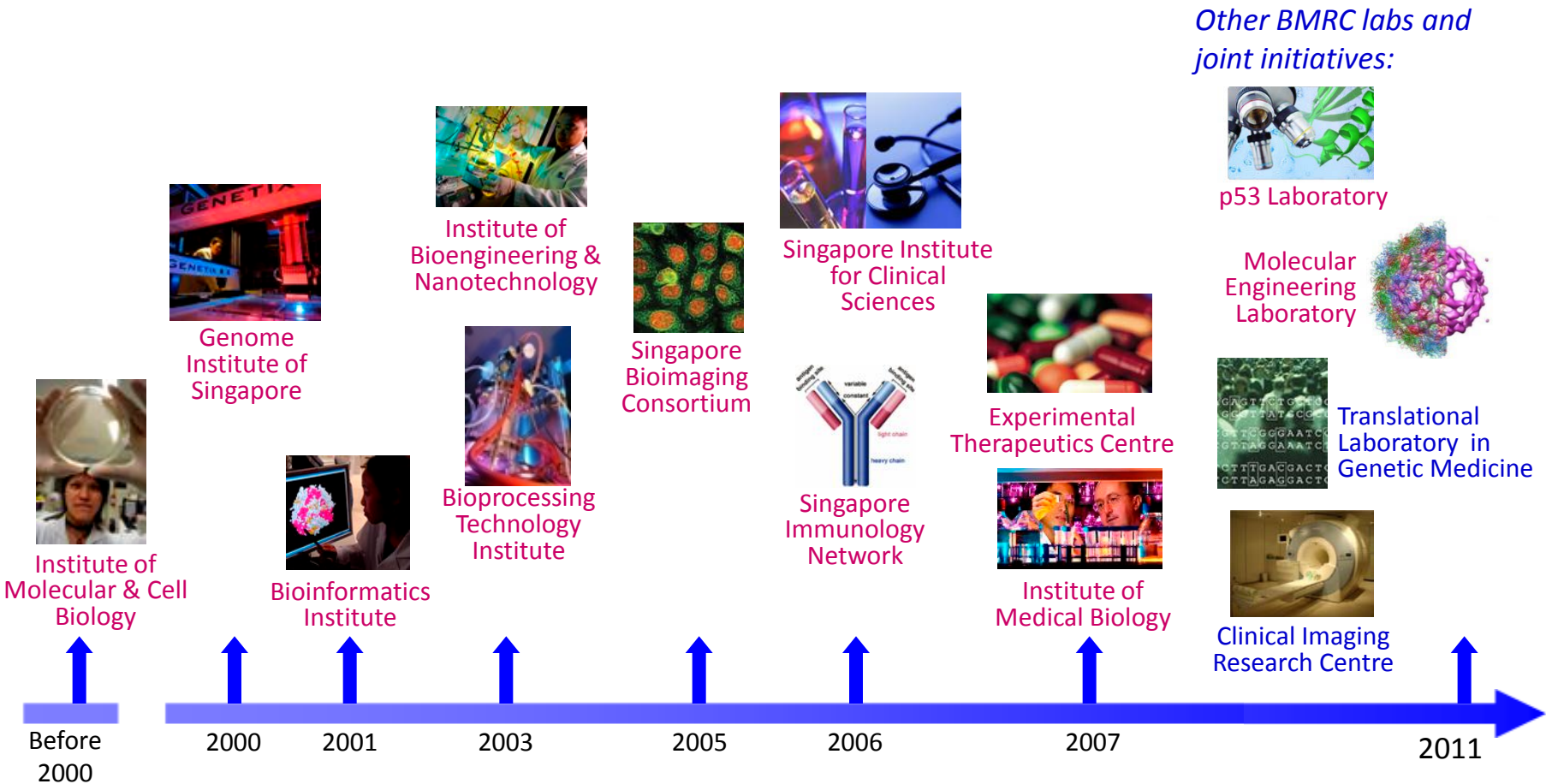
Chemicals & Materials

Engineering

Building Biomedical R&D Capabilities

Phase 1: 2000 - 2005

Phase 2: 2006 - 2010



Phase 3: Integrating for Impact

A*STAR Research News

Go to:

<http://www.research.a-star.edu.sg/>

The screenshot shows the A*STAR Research website. At the top, the browser address bar displays www.research.a-star.edu.sg/. The website header includes the A*STAR Research logo on the left and navigation links: "About A*STAR Research", "Register", "News", "Jobs", "Events", and "Sitemap". Below these are "Highlights", "Features & Innovations", and "In Focus". A search bar is located in the top right. The main content area features a large image of cells with green fluorescent nanoparticles, accompanied by the text: "A brighter future for cell tracking. Fluorescent organic nanoparticles operating as cell tracers outperform existing methods for long-term tracking of living cells." To the right of this image is a "Print issue" section showing a thumbnail of the latest issue of A*STAR Research, with a "Download" button and links to "Read this issue on Scribd" and "Read this issue on Yudu". Below this is a "Stay connected with A*STAR" section with icons for Twitter, Facebook, and RSS. A black box highlights these social media icons, with an arrow pointing to the text "Subscribe to our feeds". At the bottom, a "LATEST HIGHLIGHTS" section dated "11 September 2013" displays a row of six small images representing various research topics.

Subscribe to
our feeds

Expanding Horizons

*A PhD at A*STAR opens up multiple career pathways*

Scientific:

- Principal Investigators,
- Technology Platform Specialists, Project/Team Leader,
- Senior Scientists etc.

Clinician-
Scientist

Tech Transfer /
Commercialisation

Industry
R&D

Patent
Examiner

Business
Development

Research Admin
& Policy

Technology
startups

Science
Journalism

Academia

Government

Other Careers

Science
Education



Our Scholars Today: Careers

R&D



IMB

Jonathan Loh
(AGS - NUS)



BTI

Ho Ying-Swan
(NSS-PhD)



I²R

Tan Hwee Pink
(NSS-IF)



IMRE

Joel Yang
(NSS-PhD)



IBN

Andrew Wan
(NSS-PhD)



IHPC

Quek Su Ying
(NSS-PhD)

Industry



ST Electronics

Yar Kar Peo
(NSS – PhD)



Abbott

Low Yen Ling
(NSS-PhD)



P & G

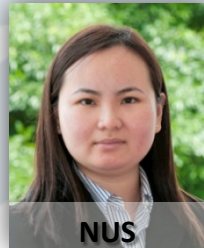
Tanu Kustandi
(AGS – NUS)



L'Oreal

Harmeet Singh
(AGS – NUS)

Academia



NUS

Teo Peili
(AGS - NUS)



Yale-NUS

Melissa Fullwood
(NSS-PhD)



NUS

Ho Han Kiat
(NSS-PhD)

Spin-Offs



HistoIndex

Gideon Ho
(NSS – IF)

Patent Examiner



IPOS

Seah Kwang Hwee
(AGS-O)

A PhD opens doors to a world of opportunities!

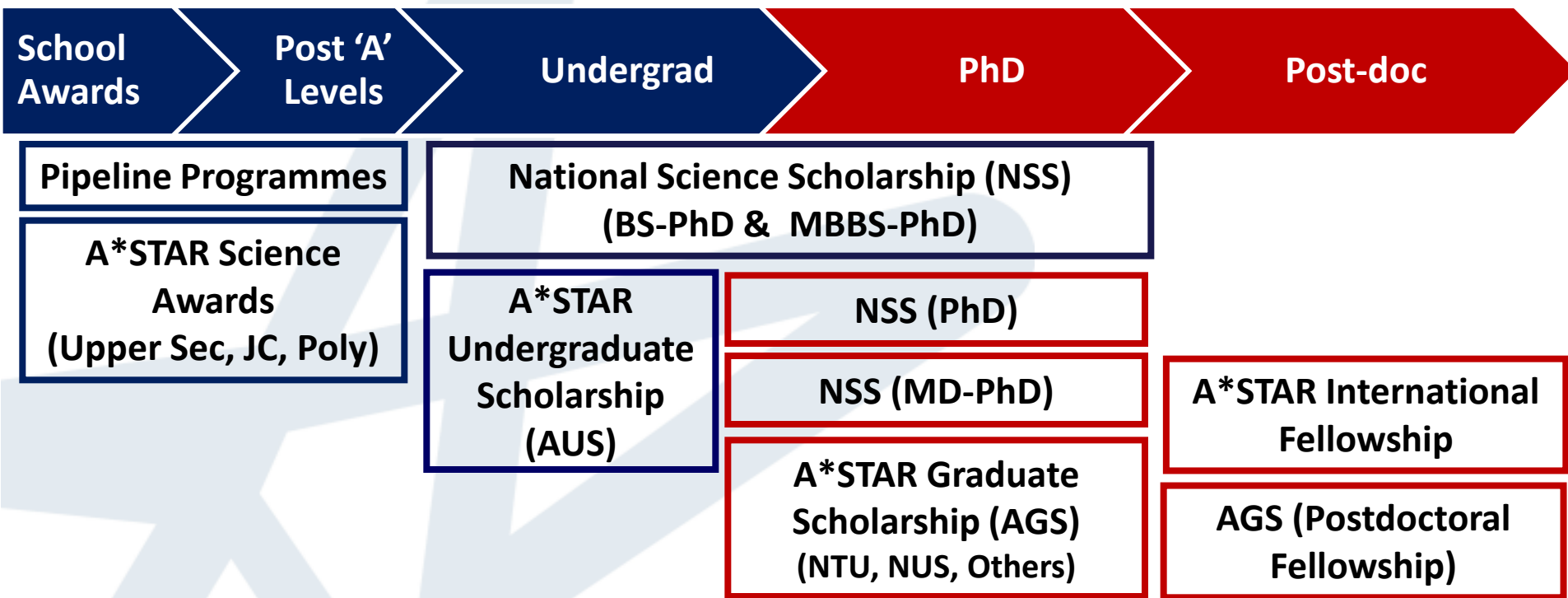


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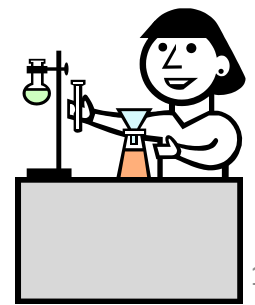
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A*STAR Scholarships & Fellowships

Diversity of Entry Points



find out more at the A*GA booth outside

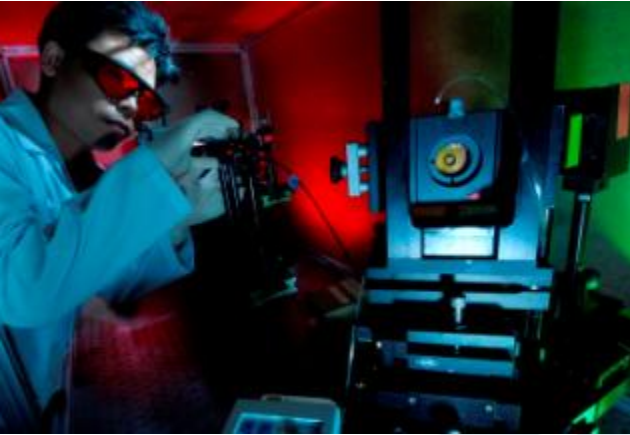


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Creating Growth. Enhancing Lives.
through science, technology and research to make an impact.

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Thank You

