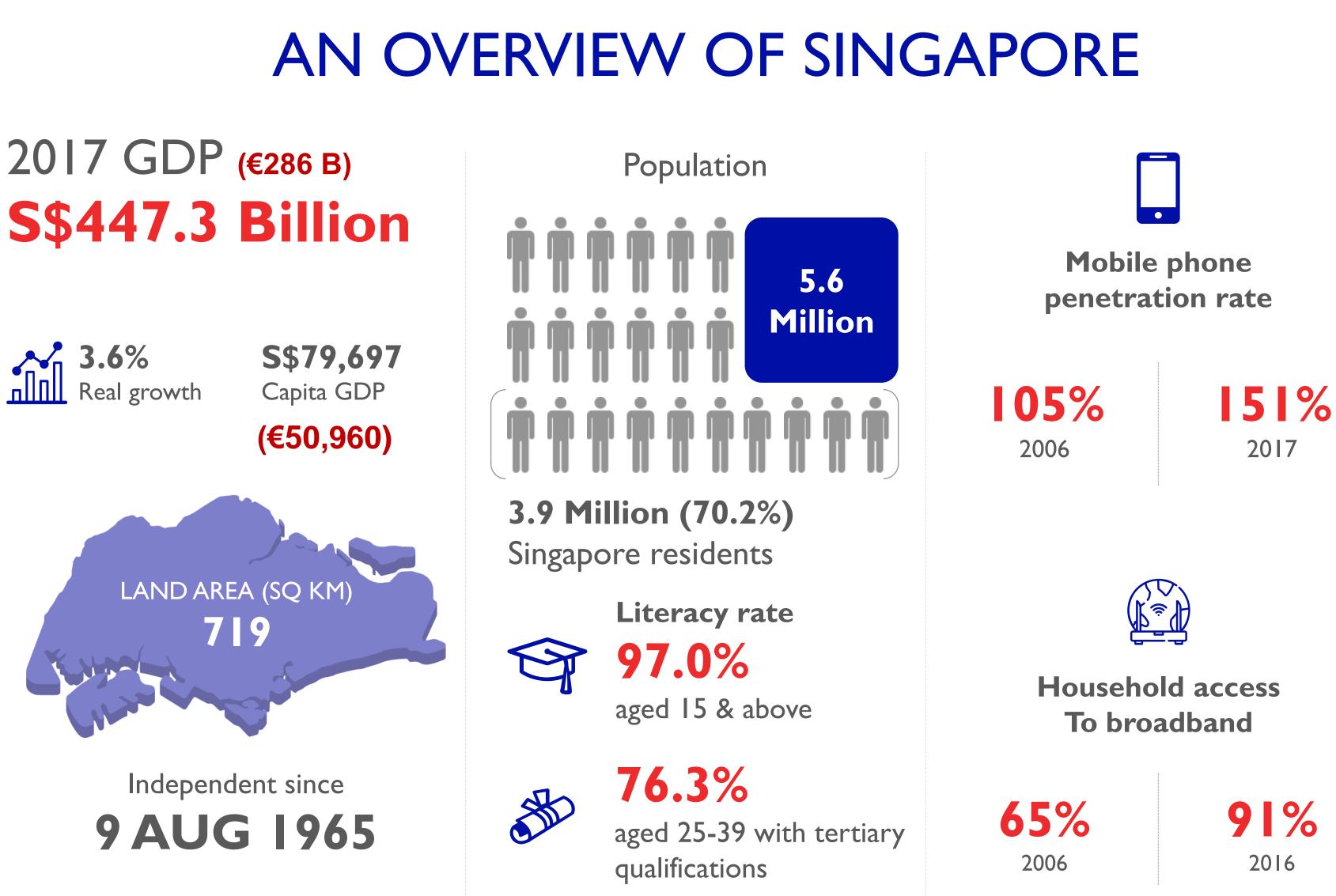


Agency for Science, Technology and Research

### **OVERVIEW**

## CREATING GROWTH, **ENHANCING LIVES**



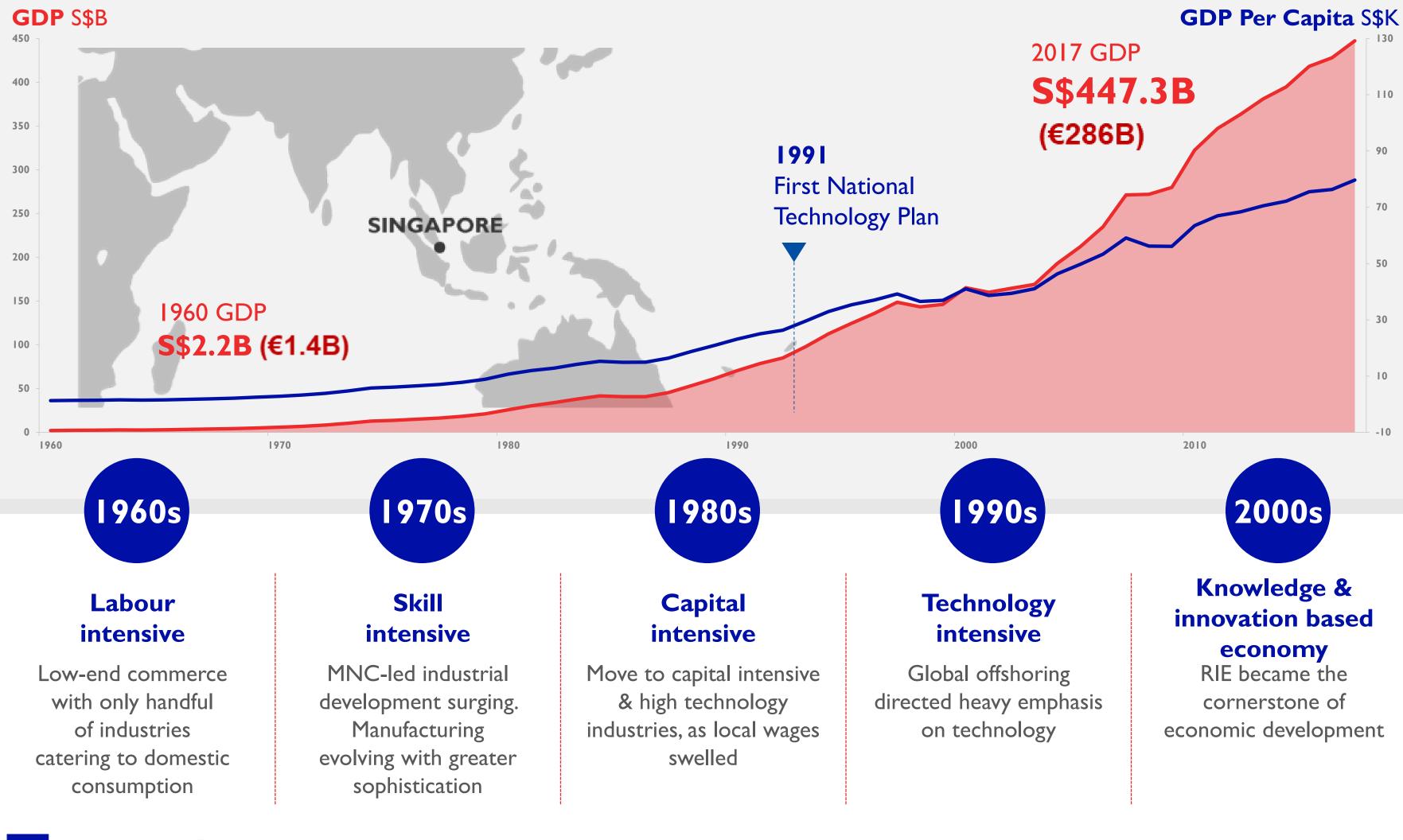


Sources: Singapore in Figures 2017 Department of Statistics and IIMDA's Annual Surveys on Infocomm Usage in Households and by Individuals and MDA POI





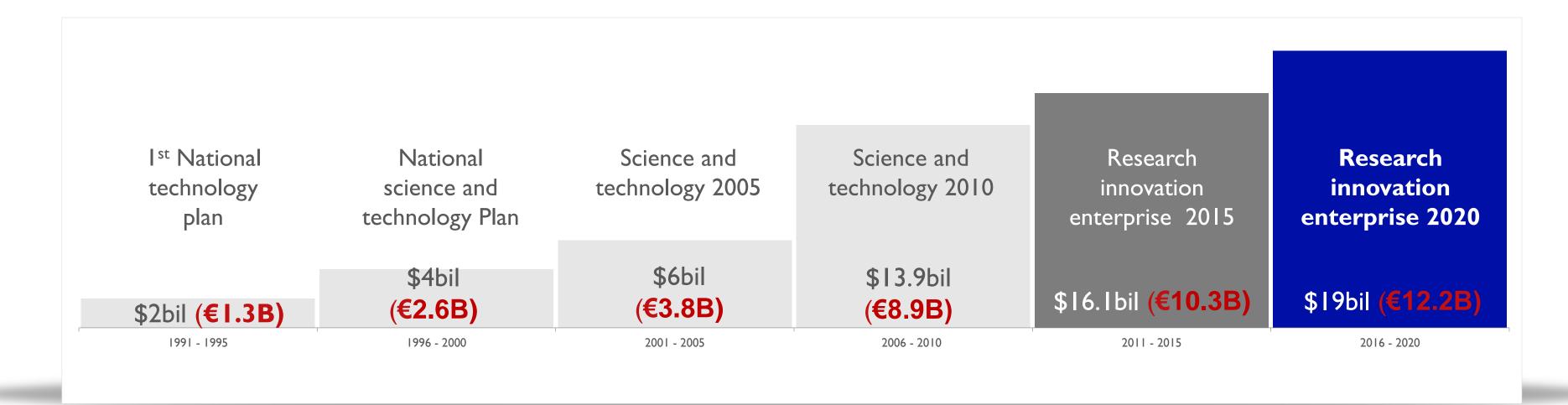
### **RIE INTEGRAL TO** SINGAPORE'S ECONOMIC STRATEGY







## **RIE2020: STRATEGIC THRUSTS**





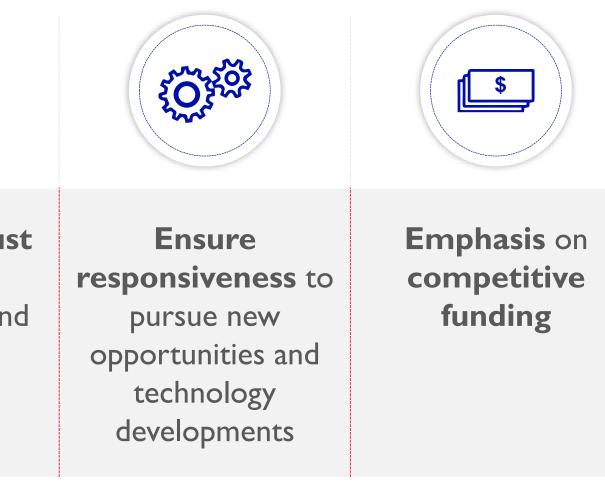
Ensure excellent science and invest strategically in curiosity driven and mission oriented research



Strengthen flow through from research to economic and societal impact Greater national coordination of multi-stakeholder and multi-disciplinary collaboration Sustain a robust and diverse research base and innovation workforce













# ABOUT A\*STAR

### OUR MISSION AND VISION

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### MISSION

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We advance science and develop innovative technology to further economic growth and improve lives







### VISION

A global leader in science, technology and open innovation

### A\*STAR

### MISSION

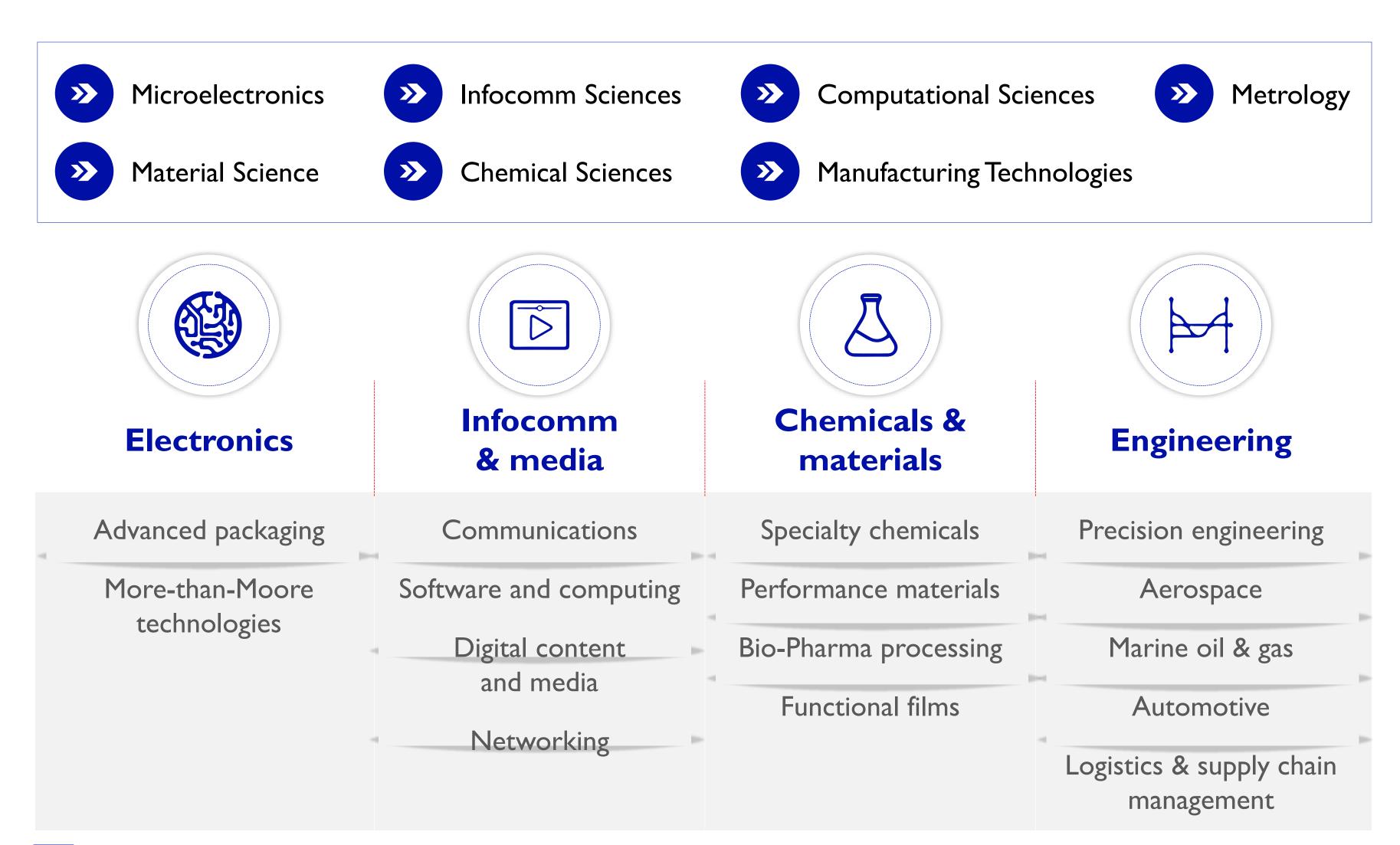
We advance science and develop innovative technology to further economic growth and improve lives



## **A\*STAR'S RESEARCH ENTITIES**

				Biopolis Pha (2003)	ase I Biop	olis Phase II (2006)	Fusionopolis Phase (2008)
970 1990		2000		2010			
National Metrology Centre (NMC) 1973	Bioprocessing Technology Institute (BTI) 1990	Singapore Institute of Manufacturing Technology (SIMTech) 1993	Genome Institute of Singapore (GIS) 2000	Institute of Bioengineering & Nanotechnology (IBN) 2003	Singapore Institute for Clinical Sciences (SICS) 2006	Skin Resear Institute o Singapore (SF 2013	f Supercomputing
Institute of Molecular & Cell Biology (IMCB) 1985	Institute of Micro- electronics (IME) 1991	Institute of Materials Research & Engineering (IMRE) 1997	Bioinformatics Institute (BII) 2001	Singapore Bioimaging Consortium (SBIC) 2004	Institute of Medical Biology (IMB) 2006	Advanced Remanufactur and Technolo Centre (ART 2014	ring Drug Development
		Institute of High Performance Computing (IHPC) 1998	Institute for Infocomm Research (I2R) 2002	Singapore Immunology Network (SlgN) 2005			
			Institute for Chemical & Engineering Sciences (ICES) 2002				

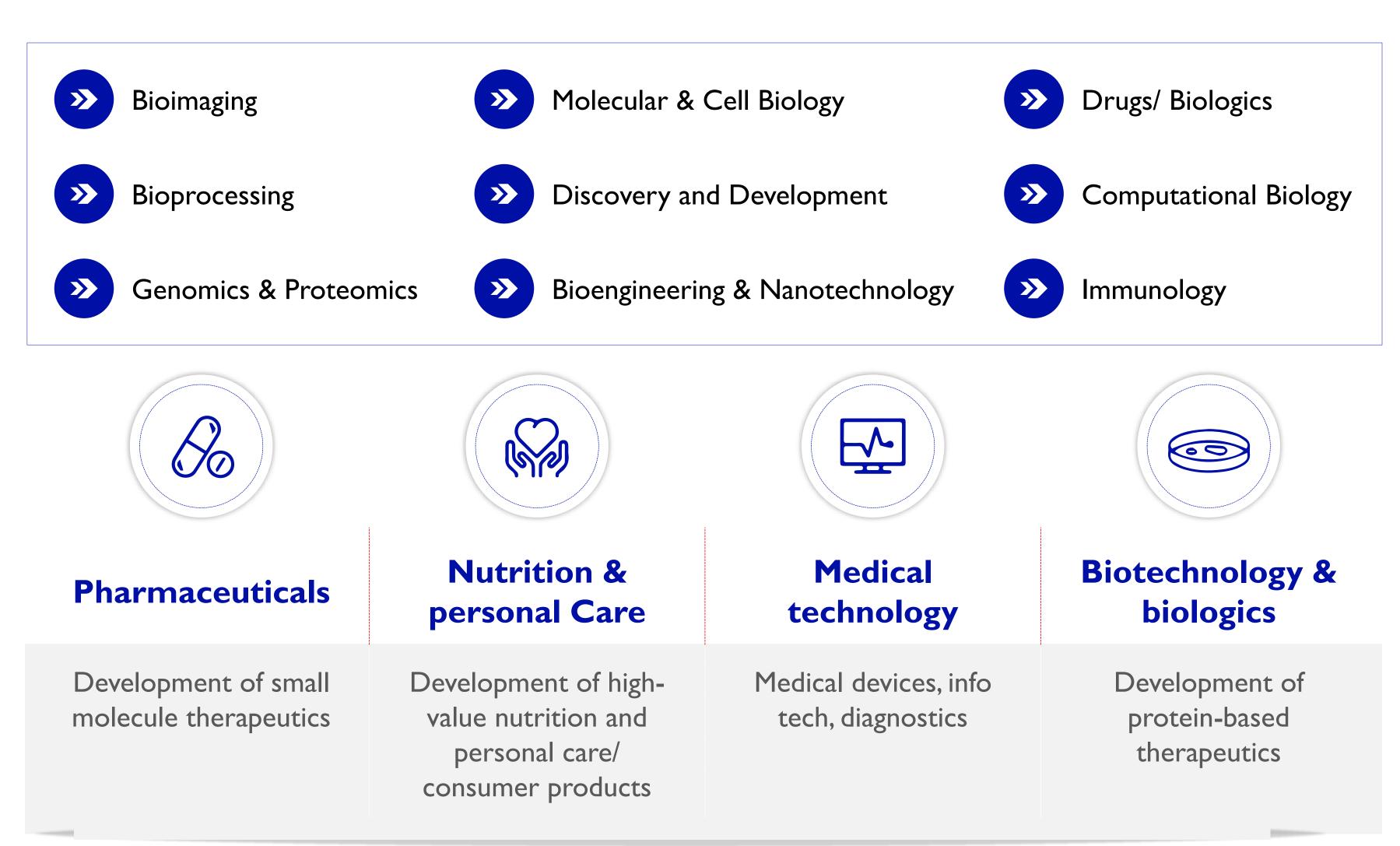
### CORE SERC CAPABILITIES







## CORE BMRC CAPABILITIES

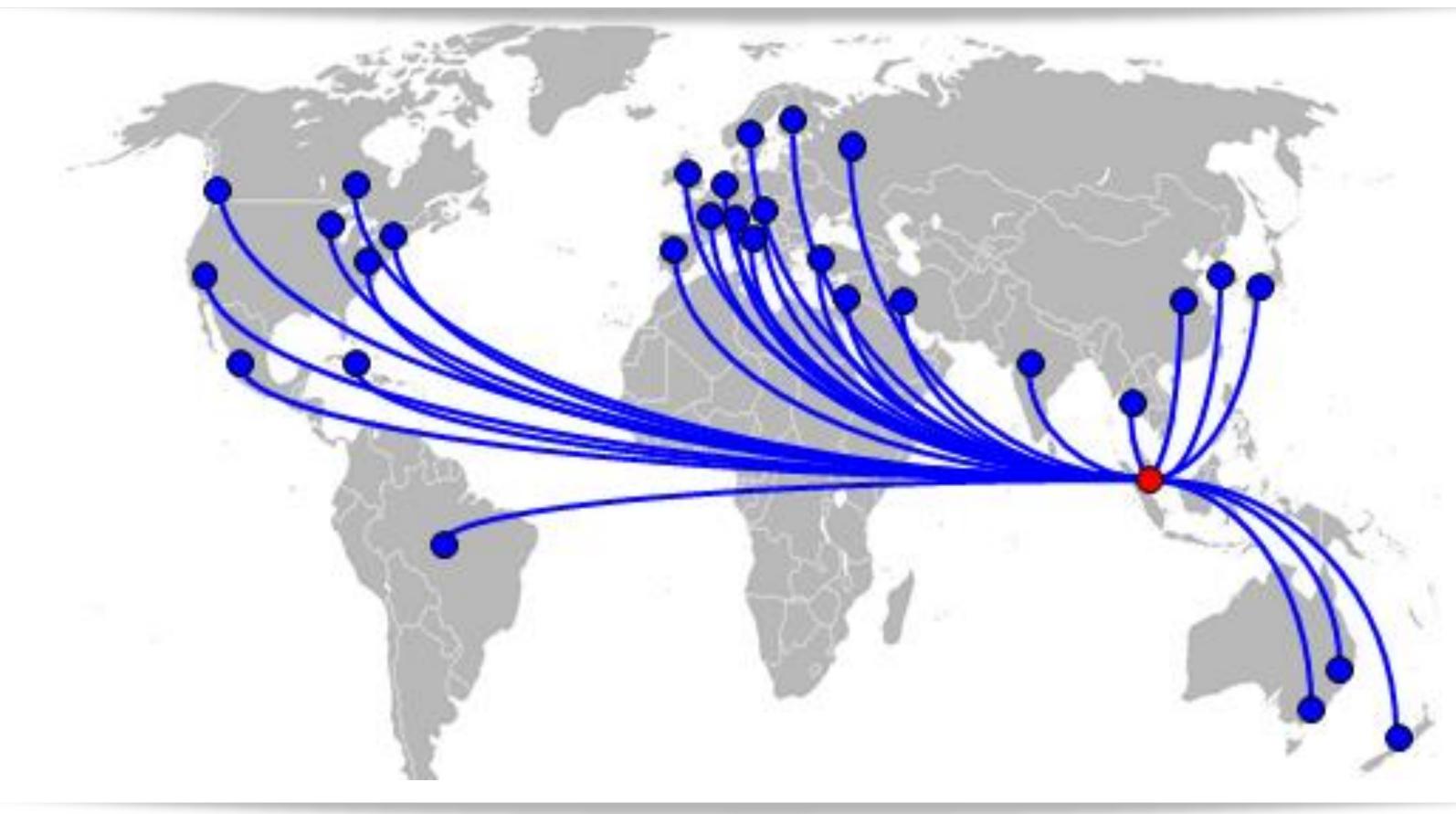






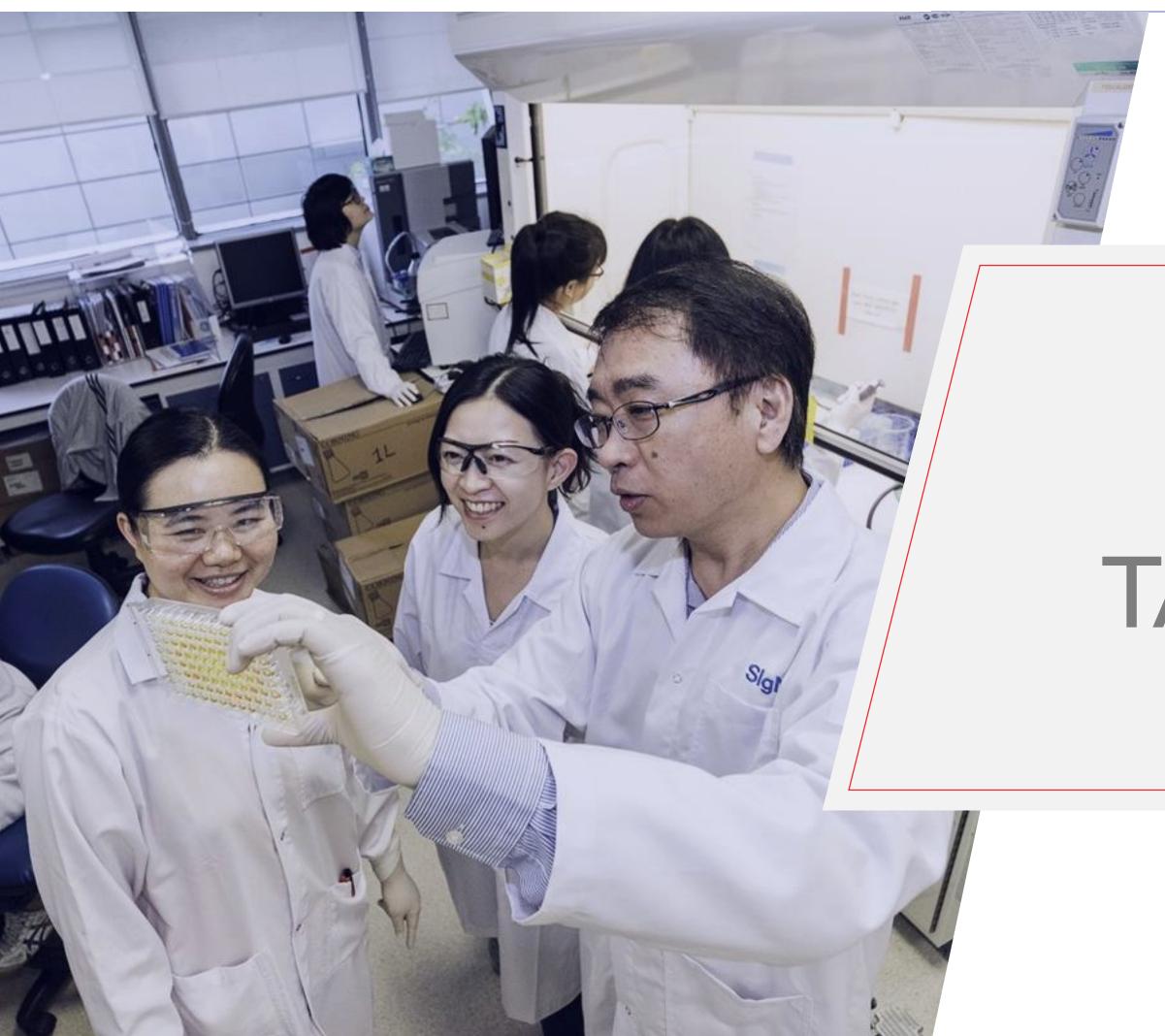
### INTERNATIONAL RELATIONS & PARTNERSHIPS

Continue to foster collaborations and cooperation through bilateral grants, scientific exchanges and joint symposiums













# OUR TALENT

## A\*STAR'S TALENT STRATEGY Strong core of Singaporean research talent, complemented by

rich diversity of international researchers



#### Creating the Pipeline

STEM Outreach to improve STEM pipeline and enthuse young to take up science & research as a career



#### Investing in the Pipeline

Scholarships strategy to meet scientific talent needs

- Singaporean core
- International diversity
- Sizing of scientific talent needs













#### Developing the Pipeline

Post-PhD development of early career researchers, and development of leaders



### A\*STAR GRADUATE ACADEMY

#### Nurturing a Pipeline of >1,500 Singaporean PhD Talent

A\*STAR has awarded more than 1,500 Scholarships to develop Singaporean PhD talent since 2001. Over 800 scholars have completed their PhD/ postdoctoral training & are contributing to Singapore's Research, Innovation and Enterprise (RIE) ecosystem



Assoc Prof Karen Crasta Lee Kong Chian School of Medicine, Nanyang Technological University (NTU) A\*STAR International Fellowship Recipient

Dr Yar Kar Peo Data Scientist - Chief Technology Office at ST Electronics National Science Scholarship (PhD) Recipient

Dr Jonathan Loh Yuin Han Principal Investigator, Institute of Molecular & Cell Biology (IMCB) A\*STAR Graduate Scholarship Recipient



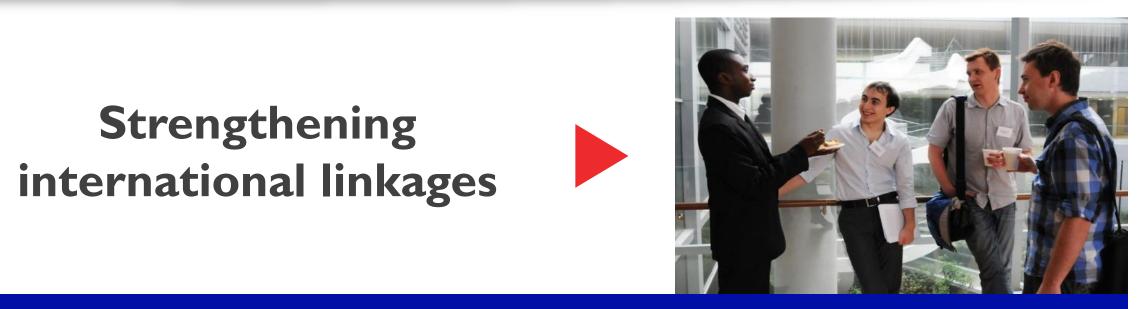


Dr Seah Kwang Hwee Assistant Vice President, Accelerate Technologies Pte Ltd (A\*ccelerate) A\*STAR Graduate Scholarship Recipient

### **A\*STAR GRADUATE ACADEMY**

**Building a robust & diverse talent pool** 





#### **Opportunities for graduate & pre-graduate students from around the world**

#### Singapore International Pre-Graduate Award (SIPGA)

- Short-term research attachments at A\*STAR Research Institutes for students in the later years of their **Bachelors' or Masters** programmes
- Over 850 students awarded to date

#### **A\*STAR Research Attachmer Programme (ARAP)**

- **PhD** research opportunities at **A\*STAR Research Institutes und** joint supervision of A\*STAR scientists and faculty from overseas universities
- **Over 250 international students** awarded to date





nt		Singapore International Graduate Award (SINGA)
er	•	4-year PhD programme at A*STAR RIs, in partnership with NUS, NTU and SUTD
	•	Full PhD scholarships awarded to over 250* international students

Data as at 30 June 2018 \* 840 awardees across A\*STAR, NTU, NUS and SUTD

### **NETWORK OF PARTNERS IN GROWING SCIENTIFIC TALENTS**



Research

## A\*STAR RESEARCH ATTACHMENT PROGRAMME (ARAP)

### A\*STAR RESEARCH ATTACHMENT PROGRAMME (ARAP)

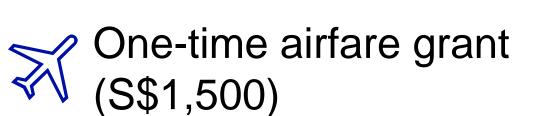
### Eligibility

- Enrolled in PhD course with the university
- Obtained 2nd Upper Honours (or equivalent) for BSc

### Terms of award



Monthly stipend of S\$2,500













One-time settling-in allowance (S\$1,000)

🔗 Medical insurance



Conference and training allowance

SINGAPORE INTERNATIONAL GRADUATE AWARD (SINGA)

### SINGAPORE INTERNATIONAL GRADUATE AWARD (SINGA)





Agency for Science, Technology and Research



**4 years of PhD studies** Internationally Recognized Universities

### **World-Class Learning and Research Facilities Vibrant Campus Life Top-notch faculty Global learning**





20

SINGAPORE INTERNATIONAL PRE-GRADUATE AWARD (SIPGA)

### SINGAPORE INTERNATIONAL PRE-GRADUATE AWARD (SIPGA)

 Short term (2 to 6 months) research attachment in an A\*STAR research institute

### Eligibility

- 3rd / 4th year undergraduates or Master students
- Obtained/On track to 2nd Upper Honours (or equivalent) for BSc

### Terms of award

**[**\$

Monthly stipend of S\$1,500







### >810 Students from 70 countries

SINGAPORE INTERNATIONAL GRADUATE AWARD (SINGA)

### SINGAPORE INTERNATIONAL GRADUATE AWARD (SINGA)

### **Eligibility**

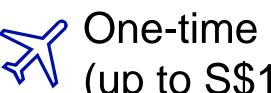
- Graduates with excellent academic performance
- Strong passion for research lacksquare
- Good skills in written and spoken English  ${\color{black}\bullet}$
- 2 good recommendation reports from academic referees

### **Terms of award**



Monthly stipend of S\$2,000 (\$2,500 after QE)





ne-time airfare grant p to S\$1,500)









One-time settling-in allowance (S\$1,000)





Conference and training allowance



# **CONTACT US**

## **A\*STAR Graduate** Academy