



PhD in Information Systems

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School of Information Systems

AY2012

Singapore



On the map



Some Facts about Singapore

- Geography
 - 136.8 km north of the equator (tropic climate)
 - Island of 682 square km
 - Exotic “garden-city”
- People
 - Population: 5 million
 - Singaporeans: 4 million (74% Chinese, 13% Malay, 9% Indian, 4% Eurasians)
- 6th wealthiest country in terms of GDP/capita
- Language: English

Singapore Management University

- Location
 - Purpose-built over 4.5 hectares of land in the central business district.
 - Surrounded by museums, theatres, educational institutions, art galleries, cafés, restaurants and a range of retail outlets.
- Student population: 7,533 students



	Undergraduate	Postgraduate
Gender - Female	51%	40%
Gender - Male	49%	60%
Full-time Study	100%	49%
Part-time Study	0	51%
Median Age	22 years	29 years
Singapore Citizens and Singapore Permanent Residents	86%	69%
Foreign Students	14%	31%
Number of foreign countries represented	28	24

School of Information Systems

- We are an iSchool that is concerned about the uses, users and impact of information and IT in the context of the World of Business
- We work on information system technology, information system management, as well as intersection between them
- Our education programs include:
 - BSc. (IS Management)
 - Master of IT in Business (Financial Services)
 - Master of IT in Business (Service Sector Analytics)
 - Master of Applied Information Systems
 - Master of Science in Information Systems
 - PhD in Information Systems



Programme Goal

- To develop researchers/educators
 - Who address deep technology challenges in real information systems that impact business processes or management, or
 - Who develop tools and methodologies to translate business goals to technology solutions.
- PhD graduates will be capable of
 - Collaborating with faculty members from different research areas,
 - Designing technology solutions for real-world problems and applications,
 - While still producing top-rate academic publications.

BUSINESS-INSPIRED
INFORMATION
SYSTEMS
RESEARCH



PHD IN
INFORMATION
SYSTEMS

Employment Prospects

- ***Academic institutions***, particularly software schools require PhD graduates with application/system building and management skills.
- ***R&D units*** require PhD graduates with system/business-view of technology, to complement graduates from other institutions who are trained to work on component technologies.
- ***Industry*** requires PhD graduates with the skill to develop tools and methodologies to translate business goals into technology requirements, and also to build technology-based solutions that contribute to revenue growth or cost reduction.

SIS' PhD training will offer our graduates good employment prospects through a well-rounded education, and also opportunities to establish their network of contacts.

Tech Firms Need IS PHD Researchers

Microsoft
Research

Videos

Projects

Publications

People

Down

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Our Research

Connections

Careers

Hub

Worldwide Labs

Research Areas

Research Groups

Researcher Reflections
Stretch into the Unknown

Worldwide Labs > Microsoft Research Asia

Twitter

Facebook


LinkedIn

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Print

Microsoft Research Asia



Microsoft Research Asia is founded in Beijing as Microsoft's fundamental research facility in the Asia Pacific region and expands rapidly. By attracting the best talent from Asia and across the globe, Microsoft Research Asia has grown into a world-class research laboratory with more than 230 researchers and developers and more than 250 visiting scientists and students. Today, the lab conducts basic research in natural user interfaces, next-generation multimedia, data-intensive computing, search and online advertising, and computer science fundamentals.

Research Areas



[Research at the Beijing lab](#) focuses on the following areas.

Feature Stories

Interns

[Diverse Expertise Drives Interns](#)

[Advanced Technology Labs Cairo](#)

[Advanced Technology Labs Europe](#)

[Advanced Technology Labs Israel](#)

[Asia](#)

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About A*STAR

Fostering **WORLD-CLASS**
Scientific Research and Talent for
a **VIBRANT** Knowledge-Based Singapore

Overview

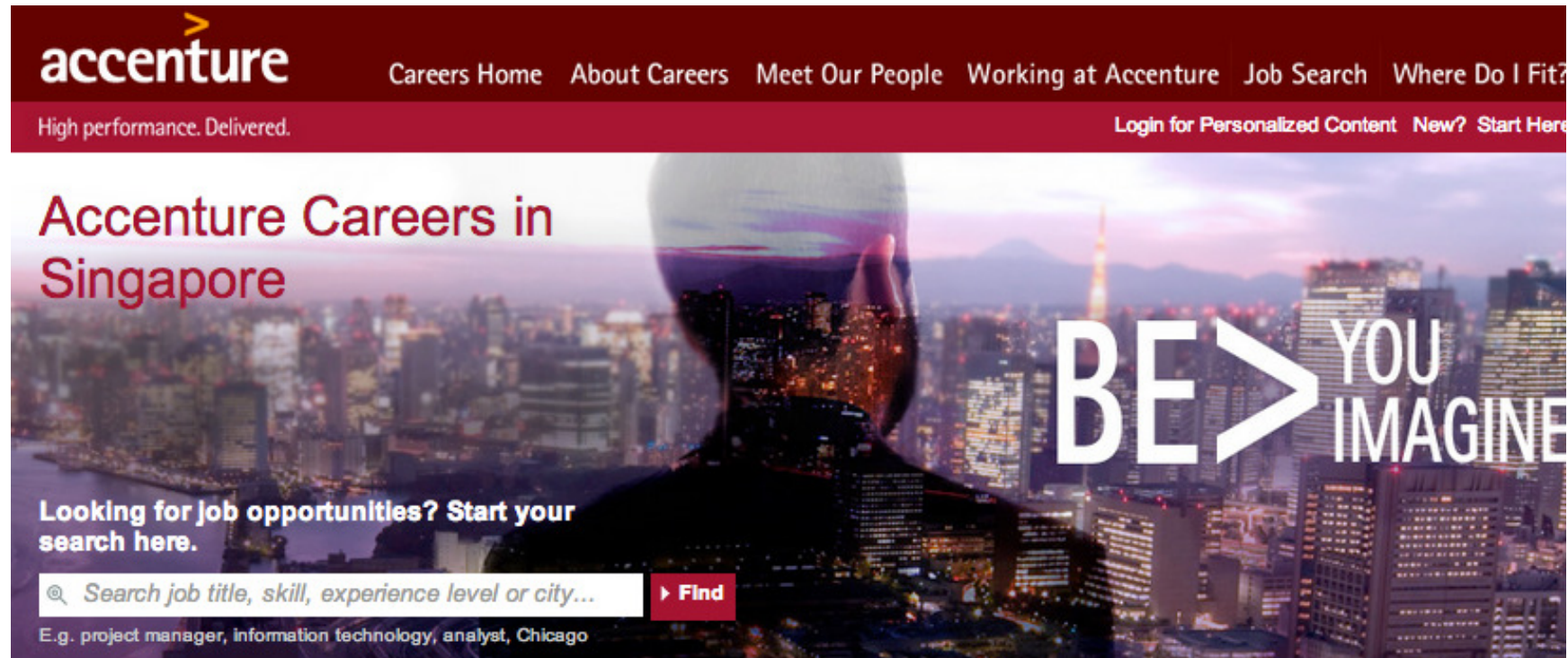
[Corporate Profile](#)

[Biomedical Research Council](#)

Overview

The Agency for Science, Technology and Research (A*STAR) is the lead agency for fostering world-class scientific research and talent for a vibrant knowledge-based and innovation-driven Singapore. A*STAR oversees 14 biomedical sciences and physical sciences and engineering research institutes, and six consortia¹⁰

Industry Jobs for People with IS PHDs



The banner features the Accenture logo at the top left, followed by navigation links: Careers Home, About Careers, Meet Our People, Working at Accenture, Job Search, and Where Do I Fit?. Below these is the tagline 'High performance. Delivered.' and a link to 'Login for Personalized Content' with a 'New? Start Here' link. The main visual is a cityscape at night with a person's silhouette in the foreground. The text 'Accenture Careers in Singapore' is prominently displayed. Below this, a search bar prompts users to 'Search job title, skill, experience level or city...' with a 'Find' button. An example search query is provided: 'E.g. project manager, information technology, analyst, Chicago'. The slogan 'BE > YOU IMAGINE' is also visible.

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Accenture Careers in Singapore

Looking for job opportunities? Start your search here.

🔍 Search job title, skill, experience level or city... **Find**

E.g. project manager, information technology, analyst, Chicago

BE > YOU IMAGINE

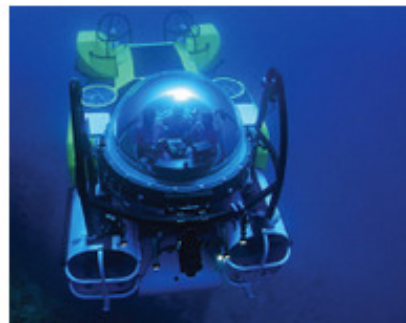
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Accenture Network & Communications Consulting
Location Negotiable

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1 **2** 3 4

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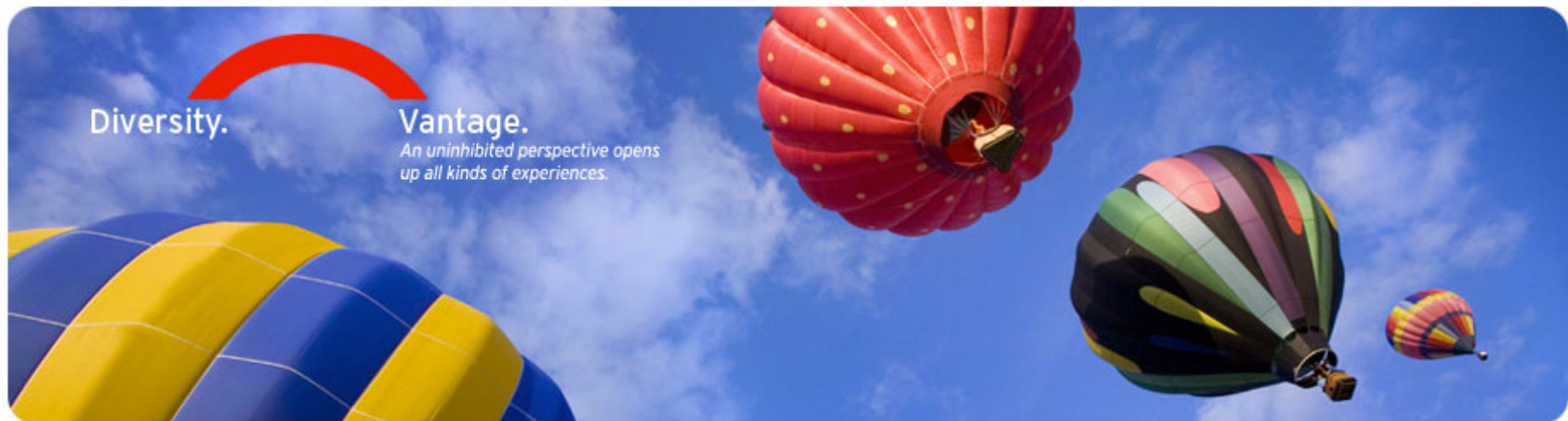
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Our Businesses



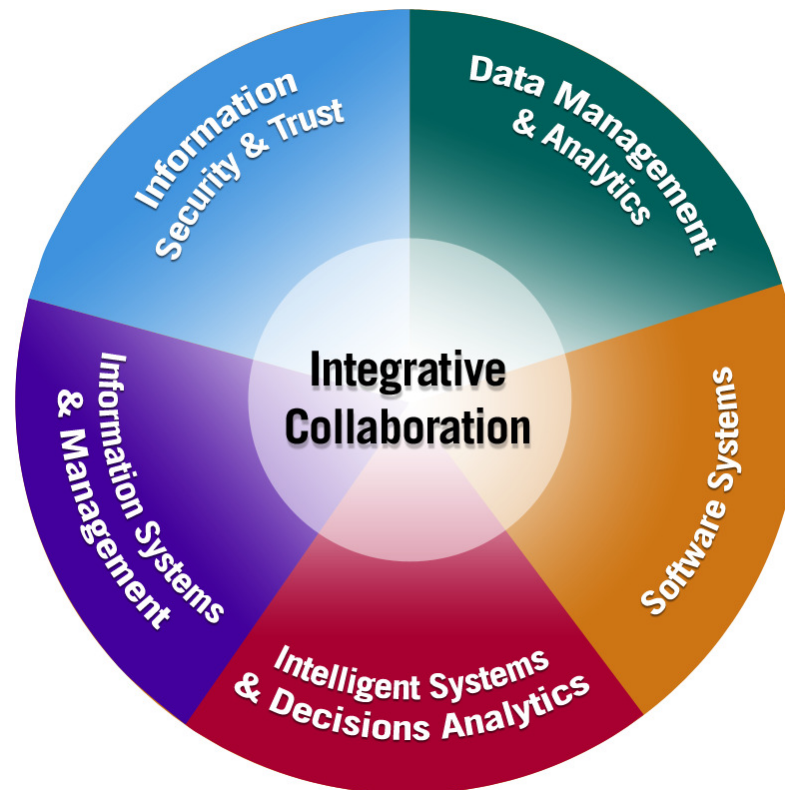
[Global Consumer Banking](#)

[>> Grad Recruitment](#)

- Banks offer PhD jobs in decision mgmt, card operations, credit operations, IT services

Research Areas

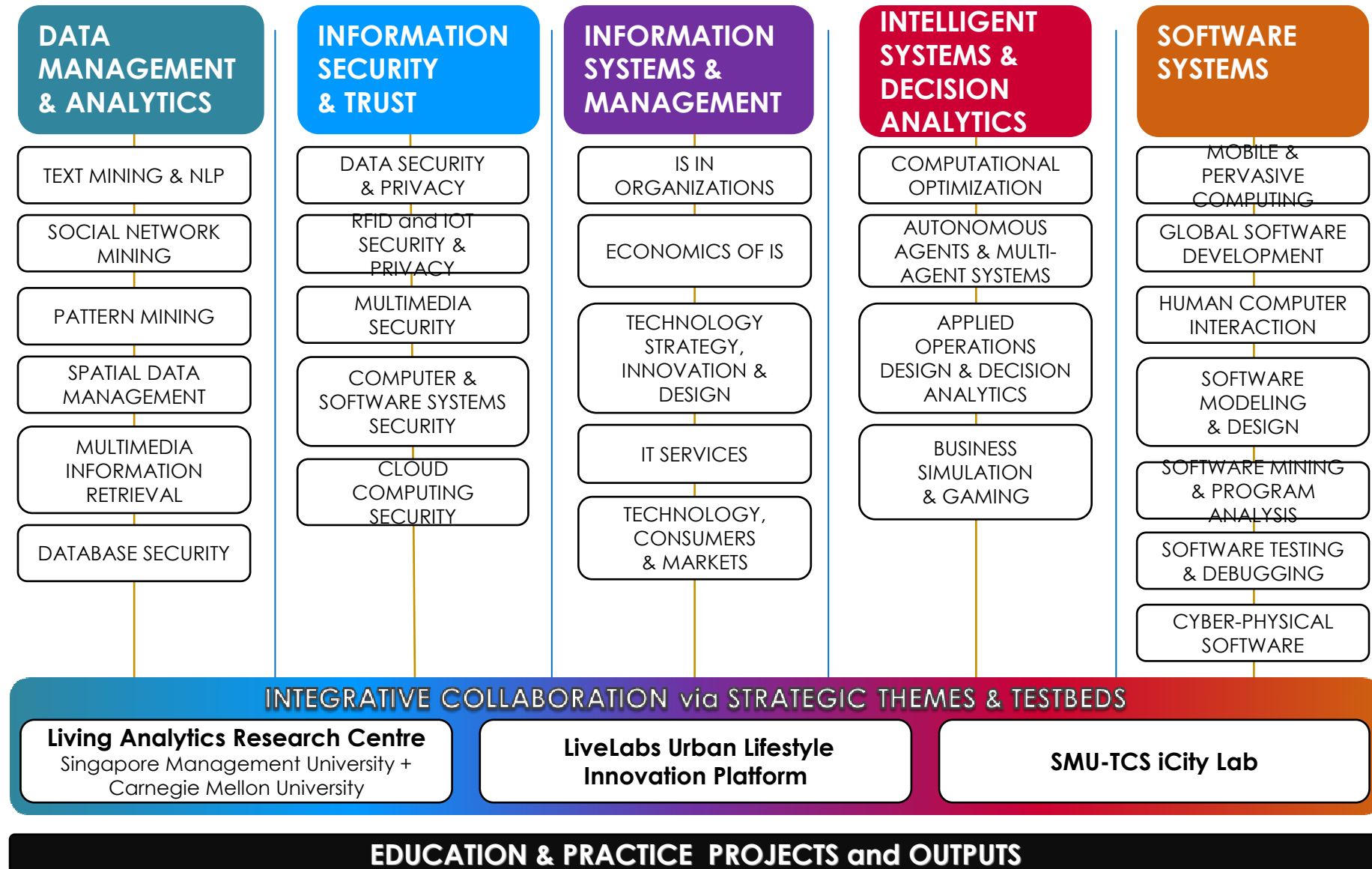
Five Niche Areas of Research Concentration



Co-supervision is encouraged

- Primary advisor + secondary advisor from different research areas
- Primary advisor from SIS; secondary advisor from industry, or another school or university

SIS Research Areas



Curriculum Requirements

Total 40 Course Units (CUs)

Coursework (7 CUs)

- **Information Systems & Management Track students**
5 foundation courses (in IS&M and Economics) + 2 IT courses
- **Information Technology Track students**
5 foundation courses + 1 Depth Elective + 1 Breadth Elective

Empirical Research Projects – ERPs (3 CUs)

- 2 Term papers/projects in the depth area
- 1 Term paper/project in the breadth area

Advanced Research Topics – ARTs (2 CUs)

- Technical writing and presentation
- Readings in Information Systems

Dissertation (28 CUs)

Sample Schedule

Year	Term 1	Term 2	Term 3
1	<ul style="list-style-type: none"> 4 Foundation Courses (1 CU each) 	<ul style="list-style-type: none"> 1 Foundation Course (1 CU each) 2 Elective Courses (1 CU each) 1 ERP (1 CU each) 	<ul style="list-style-type: none"> 1 ERP (1 CU each) 1 ART (1 CU each) Prepare for Qualifying Exam
2	<ul style="list-style-type: none"> 1 ERP (1 CU each) Pass Qualifying Exam Prepare Dissertation Proposal 	<ul style="list-style-type: none"> 0.5 ART (IS Seminars) Prepare Dissertation Proposal 	<ul style="list-style-type: none"> 0.5 ART (IS Seminars) Prepare Dissertation Proposal
3	<ul style="list-style-type: none"> Submit Dissertation Proposal Report Oral Defense of Dissertation Proposal Conduct Dissertation Research 	<ul style="list-style-type: none"> Conduct Dissertation Research 	<ul style="list-style-type: none"> Conduct Dissertation Research
4	<ul style="list-style-type: none"> Conduct Dissertation Research 	<ul style="list-style-type: none"> Conduct Dissertation Research Submit Dissertation Report Oral Defense of Dissertation 	<ul style="list-style-type: none"> Revise Dissertation Report Submit Approved Dissertation Report to PGR Office

Admission & Scholarships

Admission Requirements

- Good Bachelor or Master degree
- Good TOEFL scores if Bachelor degree is not in English
- Good GRE/GMAT scores (Test taken within 5 years will be accepted.)
- 2 academic references

Scholarships

- Monthly allowance: S\$2000 to S\$2500
- Waiver of tuition fees
- For full-time students only

Distinctive Features of PhD in SIS

- Research labs: large testbeds, real field experiments
- LARC: joint project with Carnegie Mellon Uni.
 - **PhD students go to CMU for 10-month, fully-paid training**
- iCity: designing, creating and testing a “City Management Platform” for developing countries
- Funding for large-scale initiatives:
 - LARC: S\$26M
 - LiveLabs: S\$9.94 M
 - iCity Lab: S\$6M (from Tata Consulting Services)
- Among the world’s largest university initiatives in computational social science

Research, Education, and Practice

Research Centres

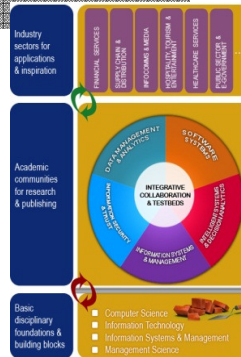
Living Analytics
Research Centre



RFID Security Lab +
Information Security & Privacy Centre (**)

National R&D Testbeds

LiveLabs@ the Malls
LiveLabs@ SMU
LiveLabs@ Sentosa



PG – Research

- PhD (IS)
- MSc (IS), Thesis + Coursework
- Master of Applied Info Systems, 1 yr

PG – Professional

PG – Professional

- MITB (Financial Services)
- MITB (Service Sector Analytics)
- Single course registration, CET
 - MITB-FS
 - MITB-SSA
- SMU-NTUC Next U CET
- iCity CET

Education / Practice Centric Labs

SMU-TCS iCity Lab

SMU-SAS

Advanced Analytics Lab

Standard Chartered
iLab@SMU

SMU-Alexandra Health T- Lab

Institute of
Innovation & Entrepreneurship

(Strong links with SIS)

Undergrad

- BSc (ISM)
 - Advanced Business Technology 2nd major
 - ABT tracks (BizAnalytics)
 - 2nd majors with all other SMU undergraduate programmes

(**) Planning stage



More Information

- PhD Programme: www.sis.smu.edu.sg/programme/PhD/
- School of Information Systems: www.sis.smu.edu.sg
- Singapore Management University: www.smu.edu.sg
- Singapore: www.stb.gov.sg
- Any enquiry, contact sis_phd@smu.edu.sg or +65 6828 0910

Thank you!
