Establishing partnerships in China:
Monash-Southeast University Joint Venture in Suzhou

Aibing Yu (余艾冰)
Pro Vice-Chancellor and President – Suzhou
Monash University

11 August 2015
Contents

• Monash university and its international strategy

• Operation in Monash Suzhou

• Final remarks
四种类型的大学（Four types of university）

完美型
Perfect

特色型
Unique

国际化
Internationalisation

其他
Others

Prof Ed Byrne, former VC and President
Globalisation or internationalisation: a trend for future universities

影响此趋势的三大主要因素 (three major factors):

- 信息和通信技术 (ICT Revolution)
- 全球化 (Globalisation)
- 亚洲的崛起 (The Rise of Asia)
For universities, globalisation is a mixed blessing. It opens up the possibility of international research collaboration, the possibility of accessing international research funding and the possibility of attracting the brightest students from across the world.

The increase in international research collaboration is also a pleasing trend. It opens our researchers up to a rich diversity of perspectives in a way that mirrors what has happened with our students.

The great universities can collaborate closely in bringing together the best minds to address global challenges.
Mission:
Through excellent research and education, Monash will discover, teach and collaborate with partners to meet the challenges of the age in service of national and international communities.

Monash University (蒙纳士大学)

- **Campuses** in Melbourne (Australia), Malaysia, India, Italy, South Africa, UK and China
- **65,006 students** (Based on 2014 full-year data)
  - 41,228 domestic + 23,778 International
  - 4,660 Higher degree research + 13,910 P/G coursework + 45,557 undergraduate
- **Number of staff** (and full-time equivalent): 15,695 (8,383)
  - 6,961 (3,063) Academic
  - 7,735 (4,361) General
- **10 Faculties**
- **1 Graduate Research School**
Monash University (蒙纳士大学)

World Rankings

Academic Ranking of World Universities

QS World University Rankings

THE World University Rankings

Prof Margaret Gardner, current VC and President
Monash strategy 蒙纳士大学的全球化战略-打造国际化大学

Global reach, global reputation.
Indian Institute of Technology Bombay, a leader in engineering education and research

IITB-Monash Research Academy

• 175 PhD students
• Research themes: Advanced Computational Engineering, Simulation and Manufacture, Infrastructure Engineering, Clean Energy, Water, Nanotechnology, Biotechnology and Stem Cell Research
• To date ~$14m in partnership funds over next five years
• Key industry partners: BHP, CSIRO, ORICA Mining Services, Infosys, JSW, TCS, SABIC, Eaton, Intel, Samsung, Piramal Life Sciences, Reliance

Prof Margaret Gardner, current VC and President
Monash Malaysia

- Established in 1998
- 6,139 undergraduate students
- 265 postgraduate coursework students
- 353 postgraduate research students
- 28% international students

- Research strengths:
  - Tropical Medicine and Biology;
  - Advanced Engineering
  - Halal Ecosystems
  - Social and Economic Transformation in Asia
  - Brain Research Institute Monash Sunway
  - The South East Asian Community Observatory (SEACO).

- Rated Tier 5 Excellent under the Rating System for Malaysian Higher Education Institutions by the Malaysian Qualifications Agency (MQA)

Prof Margaret Gardner, current VC and President
Monash – Warwick Alliance

• A new model of university alliance

• Joint research in high-potential areas incl. green chemistry, arts, business and economics

• Establishing course design for high profile co-delivered, joint testamur degrees

• Jointly taught units

• Joint appointments of high-performing staff attract through pooled resources

• Grant/contract total value awarded to joint professorial appointees: $29m, £525k and €6.8m.

Prof Margaret Gardner, current VC and President
The Prato Centre - Florence

- Established 2001 for international teaching and research collaborations
- One of only two Australian university presences in Europe
- Activities: 42 courses, 32 conferences, 18 events
- 582 university students, and 3303 visitors

Prof Margaret Gardner, current VC and President
Contents

• Monash university and its international strategy

• Operation in Monash Suzhou

• Final remarks
Southeast University and Monash University’s Collaboration Project – Chronology of Development
东南大学和蒙纳士大学的合作项目 – 发展大事记

• 2010 – discussions began about a possible collaboration between the two universities.
• May 2011 – MoE delegation visited Monash.
• September 2011 – Charter for Graduate Education and Cooperation Agreement were signed
• 26 March 2012 – MoE issued approval for establishment of the Southeast University-Monash University Joint Graduate School (Suzhou) to offer postgraduate (masters and PhDs) courses. The permit issued on 27 March 2012 expires on 31 December 2019.
• July 2012 – a Double Masters Agreement was signed.
• September 2013 – a PhD Agreement was signed.
• June 2014 – a Research and Collaboration Agreement was signed.

• 2010 – 两校开始讨论有关两校的合作可能。
• 2011年5月 – 教育部代表团访问蒙纳士大学。
• 2011年9月 – 两校签署了一个研究生教育宪章和一个合作协议。
• 2012年3月26日 – 教育部正式核准东南大学-蒙纳士大学联合研究生院（苏州）的成立提供研究生（硕士，博士）课程。2012年3月27日签发的许可证于2019年12月底到期。
• 2012年7月 – 两校签署了一个双硕士学位协议。
• 2013年9月 – 两校签署了博士学位协议。
• 2014年6月 – 两校签署了一个研究和协作协议。
Suzhou in China

- **Suzhou** is on the Lake Tai Plain south of the Yangtze River, about 100 km to the west of Shanghai and just over 200 km east of Nanjing.

- Suzhou's economy is primarily based on its large manufacturing sector (e.g. iron and steel, IT and electronic equipment, and textile products). The city's service sector is notably well-developed.

- Suzhou's overall GDP exceeded RMB 1.3 trillion in 2013.

- The city is also one of China's foremost destinations for foreign investment, and is the home of the **Suzhou Industrial Park**.
Suzhou in China

Rich Resources:
- 34 State Protected Historic Sites
- 60 Classical Gardens of Suzhou
- 9 Gardens in the World Heritage List
SIP-Suzhou Industrial Park

Suzhou Industrial Park is a county-level administrative area

• A flagship project between Chinese and Singapore governments, a model for international cooperation;
• A pilot zone of reform and opening-up;
• One of China's fastest-growing development zones with the most international competitive edges.

Goal:

• To develop into a hi-tech industrial park with international competitiveness.
• To develop an innovation eco-township of internationalized, modernized, information-based happy district.
Highly Ranked Among The National Economic & Trade Development Zones:

- No.1 among most competitive development zones
- No.1 for infrastructure capability
- No.1 for environment and emission reduction index
- No.2 for investment environment
- No.2 for technology innovation environment
- No.3 for comprehensive economic strength
- No.3 for human resource and social responsibility
For education in SIP there is Suzhou Dushu Lake Higher Education Town, one of the government's key projects. Located east of Dushu Lake, it has a total area of 25 km², and expects to have around 400,000 people by 2016, 100,000 of whom will be students.

Its goal is to offer good education, advanced technology, and a pleasant living environment. The area is home to many universities (undergraduate as well as graduate schools) including local Chinese universities and universities from other countries. This community focuses on producing educated and creative people.

The area offers facilities including libraries, entertainment venues, parks, a sports centre and accommodation.
Joint Graduate School and Joint Research Institute – Governance

SEU-Monash Joint Graduate School (JGS)
东南大学 - 蒙纳士大学联合研究生院

Monash-SEU Joint Research Institute (JRI)
蒙纳士大学 - 东南大学联合研究院

Academic Program Committee for masters and PhD programs
学术委员会 - 硕士和博士课程

Dean
院长

President
院长

Joint Management Committee
联合管理委员会
Vision

To establish a world-class research and training institute in China through a combined effort of Monash and Southeast Universities

Incomes = Expenses + Reputation

Reputation
- Increased HDR graduates
- Increased research publications
- Increased research funding
- More collaborative projects
- Enhanced R&D reputation
Official opening of the new Joint Graduate School building took place on 23 October 2013, with extensive coverage of the event both in local and Australian media.

Graduation of the first Joint Graduate School (MInfoTechSys) masters students celebrated on 27 June 2014.

第一批联合研究生院硕士（信息技术系统硕士）研究生毕业于2014年6月27日。
Joint Graduate School – Double Masters Program
联合研究生院 – 双硕士课程

• Upon successful completion of both masters courses of the two universities. students are awarded two masters degrees, one each from SEU and Monash.
  学生圆满完成了东南大学和蒙纳士大学两个硕士课程后将获得两个大学的硕士学位。

• Double masters programs offered at the JGS are:
  在JGS提供的双硕士项目是:
  ➢ Master of Industrial Design
    工业设计硕士
  ➢ Master of Information Technology Systems
    信息技术系统硕士
  ➢ Master of International Business
    国际商务硕士
  ➢ Master of Interpreting and Translation Studies
    口译与翻译学硕士
  ➢ Master of Transportation Systems
    交通运输系统硕士

• Nine of the 168 students in the 2014/15 cohort have chosen to take one semester of the Monash program in Clayton. 2015/16 cohort is about 200.
  在2014/15年的168名学生中，九名学生选择了来蒙纳士大学学习第一个学期。在2015/16年将招收190名硕士研究生。
Joint Graduate School (JGS) – (1)

Double Masters Program

Five Master Programs:
Translation & Interpreting; Ind Design; Information Tech; Int Business; and Transportation System.

English requirement (in addition to other (normal) academic requirements):

- All these students will still need to meet Monash’s English proficiency language requirements. Many choose to take the 10-week Monash English Bridging (MEB) Program.

- National English Test (NET) ≥ 60 or College English Test level 6 (CET-6) ≥ 450 or TEM-8 pass were approved by Academic Board as alternative entry requirements to IELTS 6.0 for entry into the MEB Program until 2020.

- In addition, Academic Board has recently approved National English Test (NET) ≥ 68 or College English Test level 6 (CET-6) ≥ 500 or TEM-8 credit as alternative entry requirements to IELTS 6.5 for entry into the MEB Program.
Joint Research Institute – Vision
联合研究院 - 愿景

To capitalise on Monash’s and SEU’s research strengths in engineering, health, science, technology, design, business and humanities, to promote cross-disciplinary research and to achieve excellence in education, research outcomes, and regional and global impact. The ultimate aim is to establish a world-class research and training institute in China through a combined effort of Monash and SEU.

为了充分利用蒙纳士大学和东南大学在工程、健康、科学、技术、设计、商业和人文学科的科研优势来促进跨学科研究、并在教育、研究成果以及区域和全球的影响达到精益求精。最终的目标是通过蒙纳士大学（Monash）与东南大学（SEU）的共同努力在中国建立一个世界一流的研究与培训联合研究院。
Joint Research Institute – Target Actions
联合研究院 - 行动

• Ensure strong collaboration between pre-eminent researchers at Southeast University and Monash University
确保东南大学和蒙纳士卓越研究人员之间的密切合作

• Broaden and strengthen the research funding base
扩大和加强科研经费的基础

• Provide incentives to attract top local, national and international research students and researchers
提供奖励以吸引顶尖国家和国际研究生和研究人员

• Encourage cross-disciplinary research collaborations for impact
鼓励跨学科合作有影响的研究

• Engage with industries and other partners in China, Australia and globally in research, particularly in a multi-disciplinary setting
与中国、澳大利亚、全球行业及其它伙伴等从事研究、特别是多学科研究

• Enhance and optimise use of research platforms to support research activities.
加强和优化研究平台的利用来支持科研活动。
Joint Research Institute – Key Initial Research Themes
联合研究院 - 关键的初步研究主题

Six research themes that address strategic issues have been identified for initial focus. These are:

- Advanced materials and manufacturing
- Energy and resources
- Bio and nano technology
- Bioinformatics
- Water-sensitive cities
- Modelling and simulation (in engineering)

旨在解决战略性问题的六大研究课题已经初步确定为：

- 先进材料和制造
- 能源和资源
- 生物和纳米技术
- 生物信息学
- 水敏感的城市
- 模拟和仿真

Public health (or life science) is a newly established, 7th centre
Joint PhD Program Overview
联合博士课程概述

• Students need to spend at least 12 months research time of the 4-5 year Joint PhD program at Monash.
  学生在4-5年的联合博士课程中，至少需在蒙纳士大学进行12个月的研究。

• All joint PhD projects will be co-supervised by Monash and SEU staff.
  所有联合博士项目由东南大学和蒙纳士大学导师共同监督。

• China Scholarships Council (CSC) and other funding sources such as from industry will be sought to fund students for the Australian experience, and support supervision and project costs.
  为资助学生赴澳学习、支持研究生监督及项目经费，需寻求中国留学基金管理委员会(CSC)的奖学金或其它如工业等渠道。

• Aim is to have an annual student intake of >50 (ideally 100) students a year. The first Joint PhD students commence in 2015.
  每年的招生人数目标为>50(理想人数为100)。首批联合博士生在2015年开始。
We have started to obtain funds from various sources in China, including NSFC, to support our R&D activities in Suzhou.
Contents

• Monash university and its international strategy
• Operation in Monash Suzhou
• Final remarks
Vision

To establish a world-class research and training institute in China through a combined effort of Monash and SEU

NB: JRI and JGS to be self-contained/financed after the start-up period (~5 yrs)

Milestones

- **2015**: Establish a solid foundation for next step of developments, with a core team set-up and having some PhD students enrolled (now having about 500 master students)
- **2019**: JRI in full operation, indicated by hosting ~1,500 postgraduate students (including ~500 PhDs)
- **beyond 2019**: Gradually increase the level of operation to reach the long-term target (>4,000 students)
Final Remarks

• This presentation just describes where we are and where we are going in the coming few years.
• The "policy" formulated is not perfect, but should provide us some general guidelines for Monash-SEU joint venture. Many details will have to be developed while the two universities work together.
• The success of international collaboration often depends on individual collaborators. Universities can only help establish a platform for such collaborations. Now we have more than a good platform in Suzhou. We are hoping to achieve more in the near future.
There exists a high level of complementarity between Australia and China, as reflected by the facts:

- **Australia is a key supplier** of resource, food, service, and education which China requires.
- **China is a major exporter** of manufactured products that Australia requires and in the meantime, has a huge market for commercializing new technologies and products developed in Australia.
- The trade between Australia and China is substantial, and this will be enhanced with the recent approval of the Free Trade Agreement.
- Australia and China face considerable challenges in securing their future value proposition and sustaining a competitive advantage in a carbon and resource constrained world.

Therefore, there is no reason why the two countries cannot work together to meet their respective but complementary challenges for a better future.
Which (money, people, or outcomes) comes first in this cycle?