



NTU's Global Programmes – Beyond Traditional Exchange



GE3 Annual Meeting 2015, TU Delft 19 May 2016

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Internationalisation Strategies

Internationalisation is part of NTU's DNA. Our Internationalisation strategies are focused on the following key themes, anchored in our strategic ambition to be a global university of excellence:

- Expand student exchange and mobility opportunities through sustained engagements and new partnerships with esteemed institutions of top repute
- Enhance faculty exchange and high profile research collaboration with international institutional and industrial partners according to our strategic intents
- Maintain faculty diversity by recruiting globally eminent and prolific academics and best early-stage researchers to augment the University's international profile

Internationalisation Strategies (cont'd)

- Boost admission quality by attracting bright international students through premier programmes and rich academic offerings
- Internationalise the curriculum through new pedagogical approaches to facilitate collaborative and cross-cultural learning, harnessing the best expertise and academic rigour
- Foster international alumni relations by nurturing a strong network of graduates worldwide
- Elevate international visibility by strengthening our outreach and communication efforts, positioning ourselves as a global partner of choice for leading universities and research organisations

International Education & Mobility

Bring the World to NTU, Take NTU to the World

Strategy

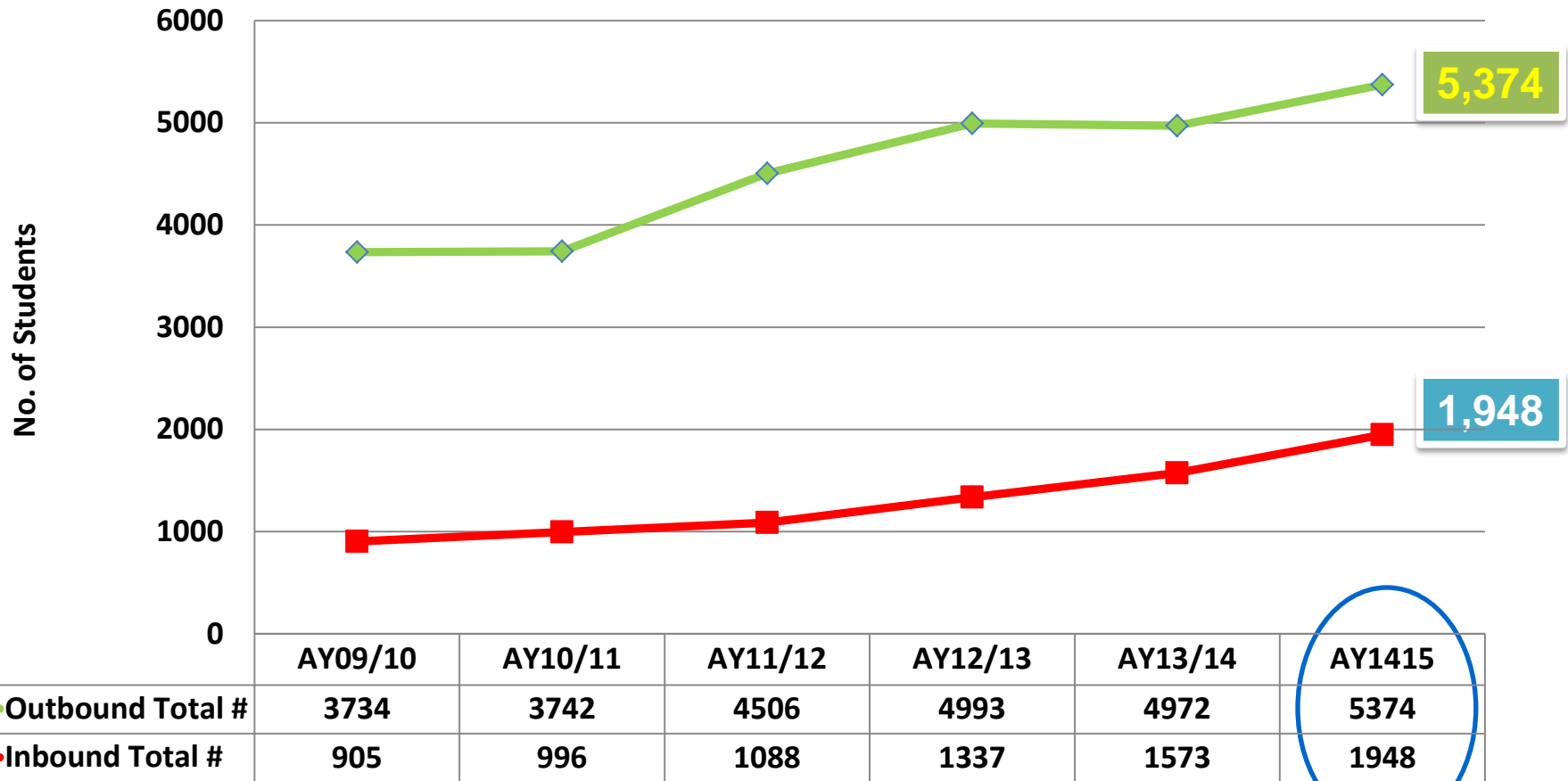
Bring the World to NTU

- More than 50 joint programmes with more than 250 international institutes of higher education from more than 35 countries
- We receive more than 1,900 Inbound exchange students to NTU in a year
- NTU has 33,200 students from more than 90 countries (15% international undergraduates, 58% international post-graduates)
- 60% international faculty and research staff from 61 countries worldwide

Take NTU to the World

- More than 60% of NTU undergraduates with overseas exposure before graduation
- More than 5,300 Outbound exchange students on average in a year
- Over 400 institution & industry partners from over 45 countries
- More than 700 active research collaborations with more than 200 International institutions/industry partners.
- 45 Overseas-based Alumni Associations; more than 200,000 alumni from more than 148 countries

NTU Total Student Mobility Growth (AY09/10 to AY14/15)



NTU GEM Programmes: Wide Range of Choices

GEM Discoverer (Overseas Exposure Programmes)

- Worldwide **Summer School**
- **Prelude**
- **Work & Study**



GEM Trailblazer Summer (Inbound Exposure 4 tracks)

- Chinese Language & Cultural Studies
- Entrepreneurship & Innovation Asia
- Creative Writing
- Global Skills



GEM Explorer (Overseas Attachment Programmes)

- Study Exchange
- Research Exchange
- Study Scholarship Programme to Georgia Tech etc.

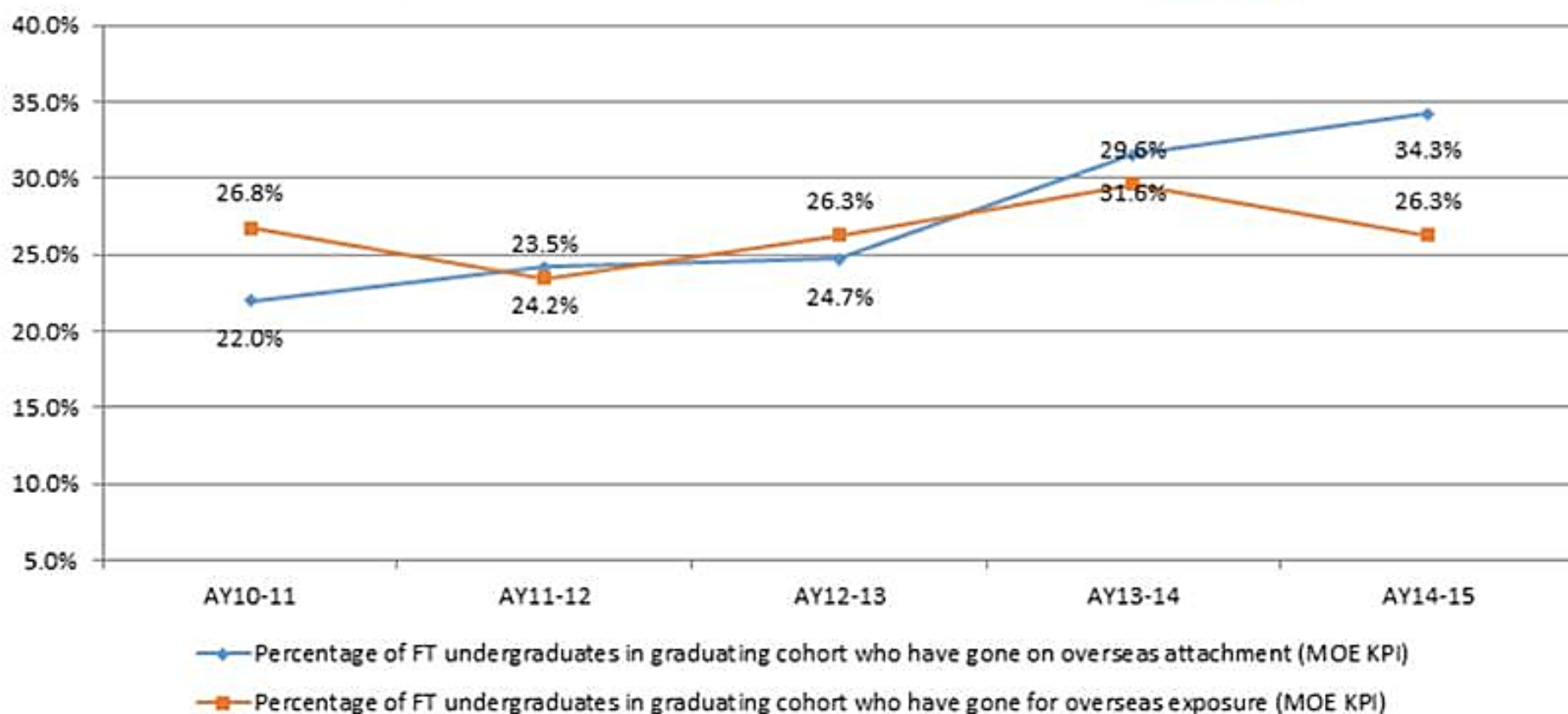


GEM Trailblazer Exchange (Incoming Attachment)

- Study
- Research
- Work
- TF LEaRN Programme

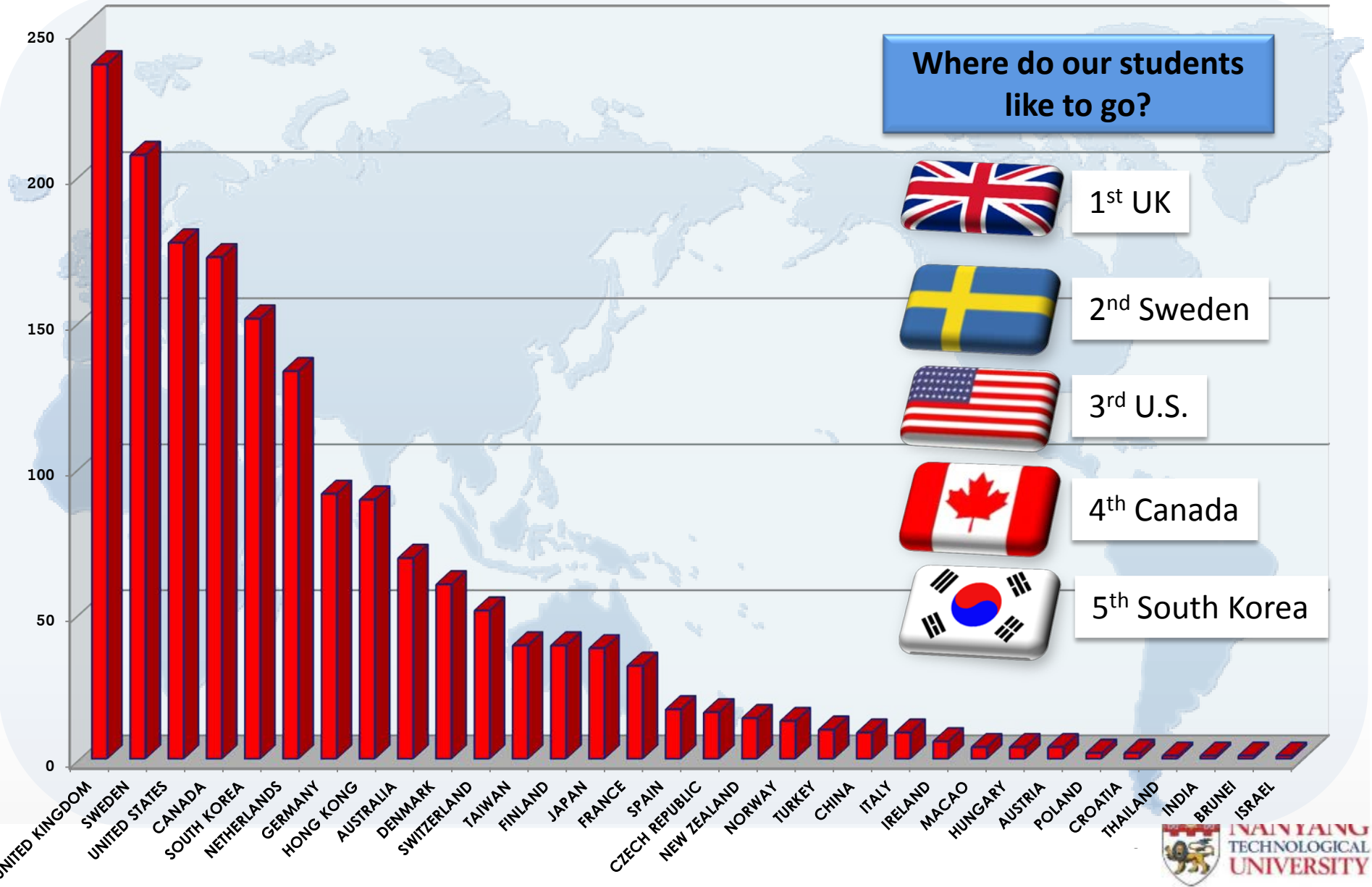
Undergraduate Overseas Attachment & Exposure (excl. NIE) MOE KPI (AY10/11 to AY14/15)

Undergraduate Overseas Attachment and Exposure (excl. NIE) (MOE KPI)

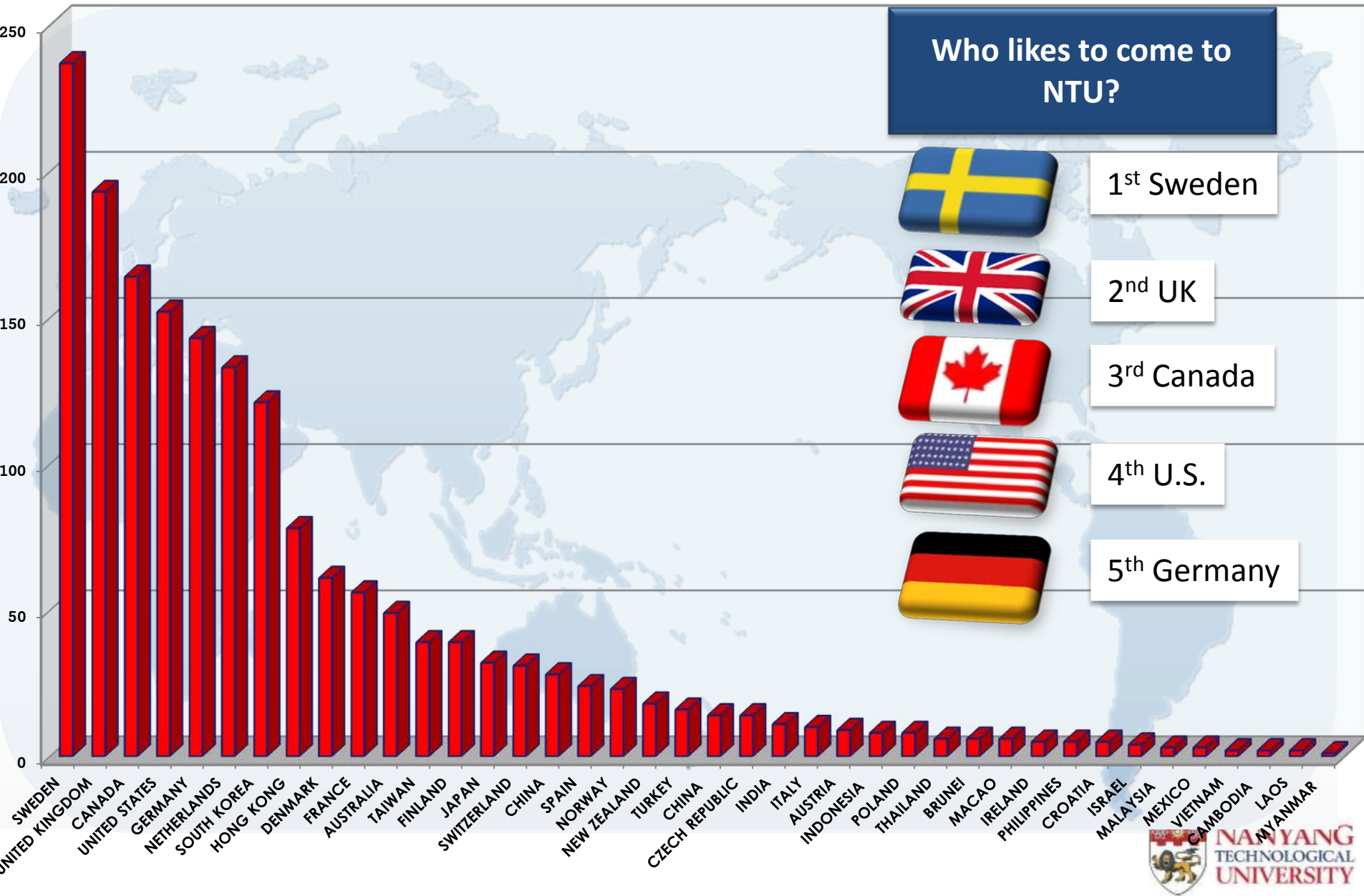


NTU Outbound Exchange Mobility

Top 5 Mobility Destinations (AY2015/2016)



NTU Inbound Exchange Mobility – Top 5 Mobility Destinations (AY2015/2016)



Global Citizens



**Overseas Exposure for 80% Students
by 2020**

Students
experience
studying and
working abroad

8 in 10 undergrads
will have an
overseas
opportunity during
course of study

Students will be
attached to
international
organisations and top
partner universities

Build a
global
network

Globalisation of Joint/Dual PhD Programmes with Prestigious Overseas Universities

List of 24 Partner Universities:



Carnegie Mellon University



Karolinska Institutet



Joint/Dual PhD Programmes

S/N	Partner University, Country	Research Focus including
1	Ben-Gurion University of the Negev, Israel	Nanomaterials
2	Carnegie Mellon University, USA (Dual)	Robotics & Intelligent Systems
3	Columbia University, USA (Dual)	Electrical & Electronics Engineering
4	Hebrew University of Jerusalem, Israel	Environmental Microbiology & Nanomaterials
5	Institut polytechnique de Grenoble, France	Energy
6	Karolinska Institutet, Sweden	Biomedical Sciences
7	Loughborough University, United Kingdom	Sports Science & Technology
8	Medical University of Vienna, Austria	Medical Technologies & Digital Medicine
9	Paris Institute of Technology, France	Mathematics and Applications; Information and Communication Science; Electrical Engineering; Physics, Optics; Chemistry, Physical Chemistry
10	Pierre and Marie Curie University – Paris VI, France (Dual)	Chemical Synthesis
11	Technion - Israel Institute of Technology, Israel	Materials Science & Bioengineering
12	Technische Universität Darmstadt, Germany	Visual Computing

Joint/Dual PhD Programmes

S/N	Partner University, Country	Research Focus including
13	Technische Universität Graz, Austria	Visual Computing
14	Technische Universität München, Germany	E-mobility, Integrated Circuit Design & Nano-electronics
15	Université de Technologie de Troyes, France	Nanophotonic & Automated Networking
16	University of Konstanz, Germany	Chemical Biology
17	University of Natural Resources and Life Sciences, Vienna, Austria	Nanobiotechnology
18	University of New South Wales, Australia	Environmental Biotechnology, Photovoltaics, Renewable Energy & Thermoelectric Materials
19	University of Southampton, United Kingdom	Chemistry, Marine & Maritime Studies & Optoelectronics
20	University of Warwick, United Kingdom	Neurosciences
21	Technical University Denmark	Advanced materials, energy systems integration, intelligent transport systems, food safety, quantitative sustainability, urban water management
22	Wageningen University	Food science and Technology
23	Sorbonne Universities (Paris)	Natural sciences, Modelling, and engineering, Life sciences, health and medicine, social sciences, humanities, business and management
24	University of British Columbia, Canada	Electrical and computer engineering

NTU-DTU Joint PhD Programme

- NTU and DTU have signed an agreement on 9th March 2016 that will enable both institutes to jointly offer PhD Programme.
- Research focus includes : **Advanced materials, energy systems integration, intelligent transport systems, food safety, quantitative sustainability, urban water management.**
- The Joint PhD Programme will be conducted on a full-time basis to undertake one joint piece of research under a minimum of two supervisors, one each from NTU and DTU.
- The minimum period to be spent at the partner university is 1 year. It can be longer depending on the individual research project.

NTU-DTU Joint PhD Programme

- For DTU PhD students, they must have a Master degree (based on the European 3-2-3 system).
For NTU PhD students, all students who pass their PhD Qualifying Examinations (including Bachelors student) are recognised to have completed 4+1 years of tertiary education that is equivalent to the European Master degree students (ie. Equivalent to 3+2 years in Europe).
- Joint PhD students must meet the academic entry requirements of both institutions and will be registered at both NTU and DTU.
- Successful candidates will receive a Joint PhD degree issued by both universities.



Thank You