

Session 1

International Symposium on Double Degree Strategy 2015

Keio University

October 19, 2015

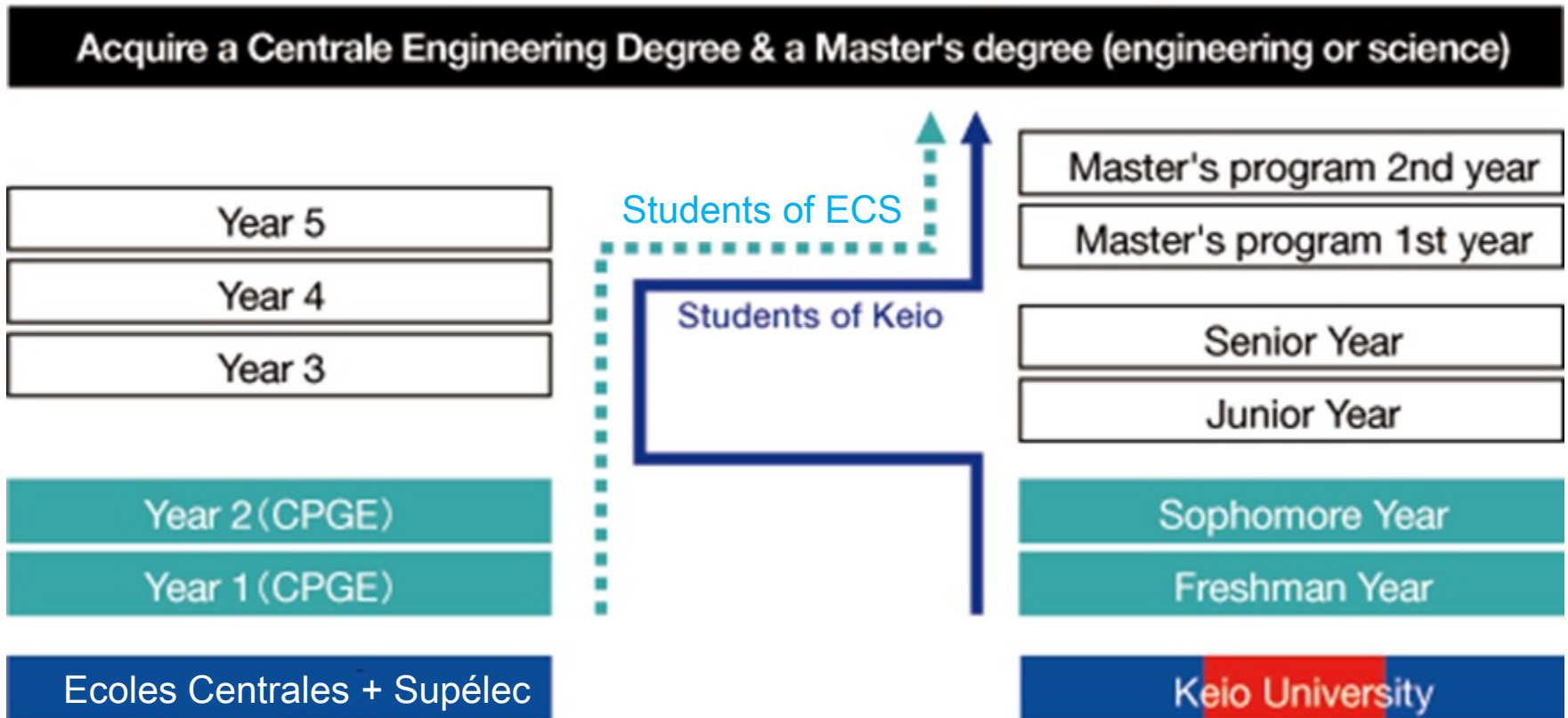
Session 1: Contents

- Activities at Keio University Science and Technology (Pr. Obi)
 - Double degree framework
 - Entry program development
 - Outcome
 - Issues
- Partnership with Ecole Centrale de Nantes (Pr. Bennis)
- Networking in T.I.M.E. Association (Mr. Crowther)
- SOI Asia: Keio University Faculty of Environment and Information Studies (Pr. Okawa)

Double Degree Program at Keio Sci&Tech

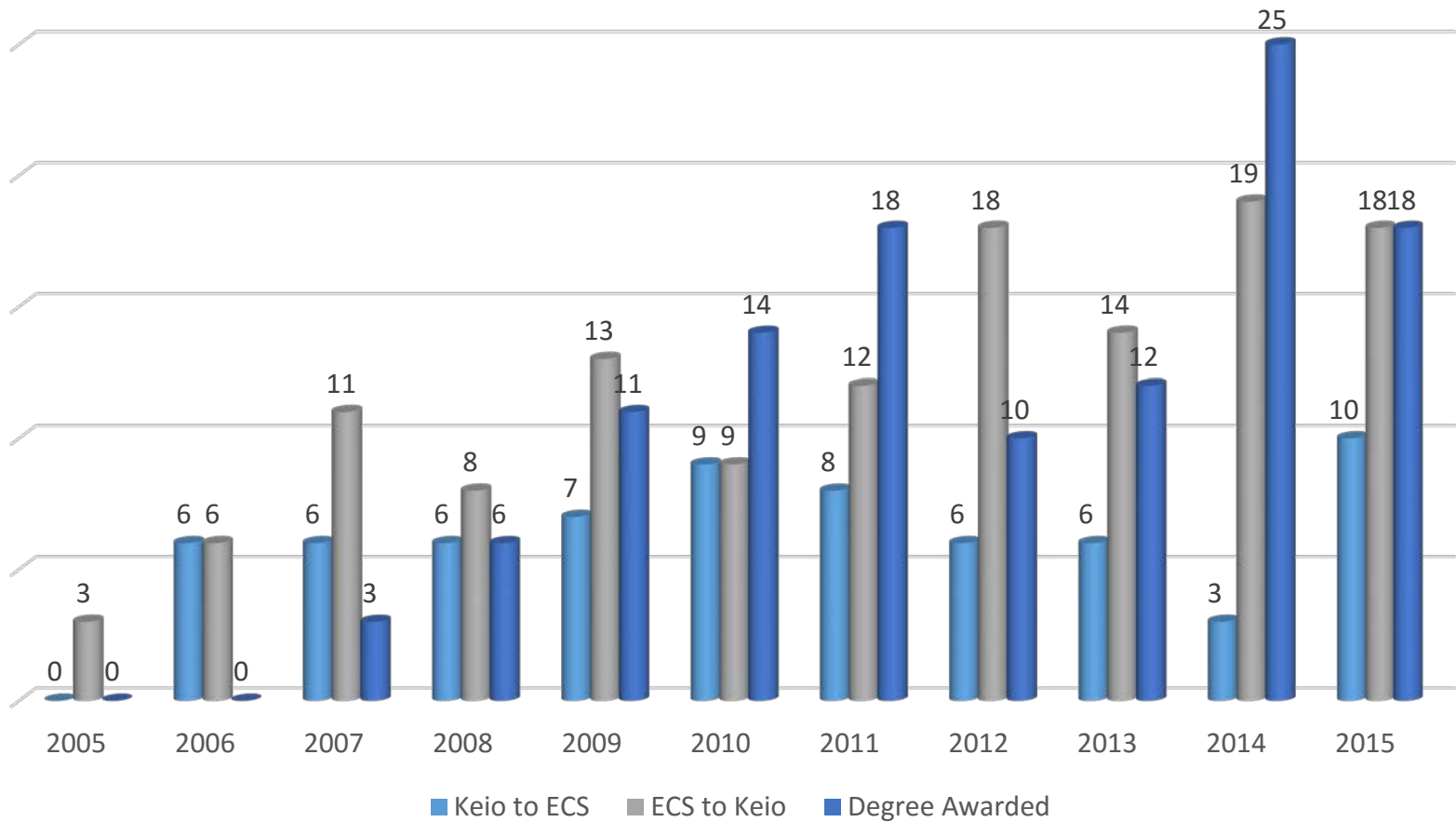
- 2003 Launched International Graduate Program for Advanced Science and Technology
- 2005 Double degree agreement with Ecoles Centrales, France
- 2005 Received first group of students from ECN
- 2006 Sent first group of students to Ecoles Centrales

Double Degree Program with Ecoles Centrales + Supélec



EC-Supelec-Keio DDP Participants

Total: 67 Japanese, 131 French, 117 Degrees Awarded (as of September 2015)



Double Degree Program at Keio Sci&Tech

- 2003 Launched International Graduate Program for Advanced Science and Technology
- 2005 Double degree agreement with Ecoles Centrales, France
- 2005 Received first group of students from ECN
- 2006 Sent first group of students to Ecoles Centrales
- 2007 Admitted for T.I.M.E. Association



Top Industrial Manager for Europe (T.I.M.E.)

Australia	University of Queensland	Germany	RWTH-Aachen ★	Norway	NTNU
Austria	TUWien	TU Berlin	TU Darmstadt ☆	Poland	AGH University of Science and Technology Wroclaw University of Technology
Belgium	Faculté Polytechnique de Mons Université Catholique de Louvain ★ Université Libre de Bruxelles ★ Université de Liège Vrije Universiteit Brussel	TU Dresden ☆	TU München ★	Portugal	Instituto Superior Técnico
Brazil	University of Campinas Universidade de Sao Paulo ☆	U Stuttgart	Greece	Russian Federation	Bauman Moscow State TU Moscow State TU Saint Petersburg State Polytech U. Tomsk Polytechnic University
China	Beihang University Xi'an Jiaotong University ☆	Hungary	Aristotle University of Thessaloniki Ethniko Metsovio Polytechnio Athina	Spain	Universidad Politécnica de Madrid ★ Universidad Politécnica de Valencia Universidad Pontificia Comillas Universidad de Sevilla Universitat Politècnica de Catalunya ☆
Czech Republic	Ceské Vysoké Učení Technické v Praze	Italy	Budapest U. Technology and Economics	Sweden	Kungl. Tekniska Högskolan ★ Lunds Tekniska Högskola ★
Denmark	Danmarks Tekniske Universitet ☆	Japan	Politecnico di Milano ★ Politecnico di Torino Università degli Studi di Padova Università degli Studi di Trento	Turkey	Istanbul Teknik Üniversitesi
France	CentraleSupélec ★ EC Marseille ★ ENPC EC Lille ★ EC Lyon ★ EC Nantes ★ ENSTA ☆ ENSAE				

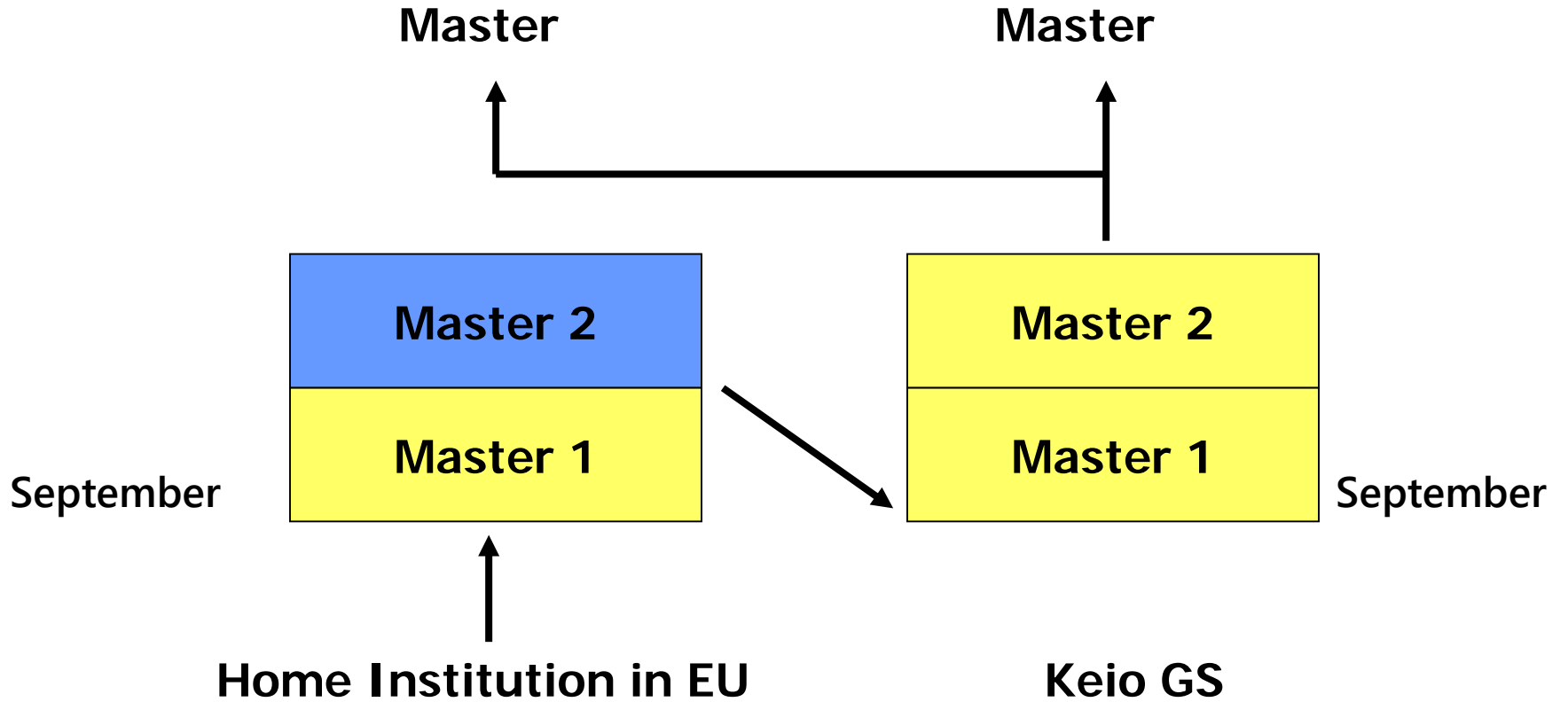
★ DD partners of Keio Science & Technology

☆ Partners of Keio University

Double Degree Program at Keio Sci&Tech

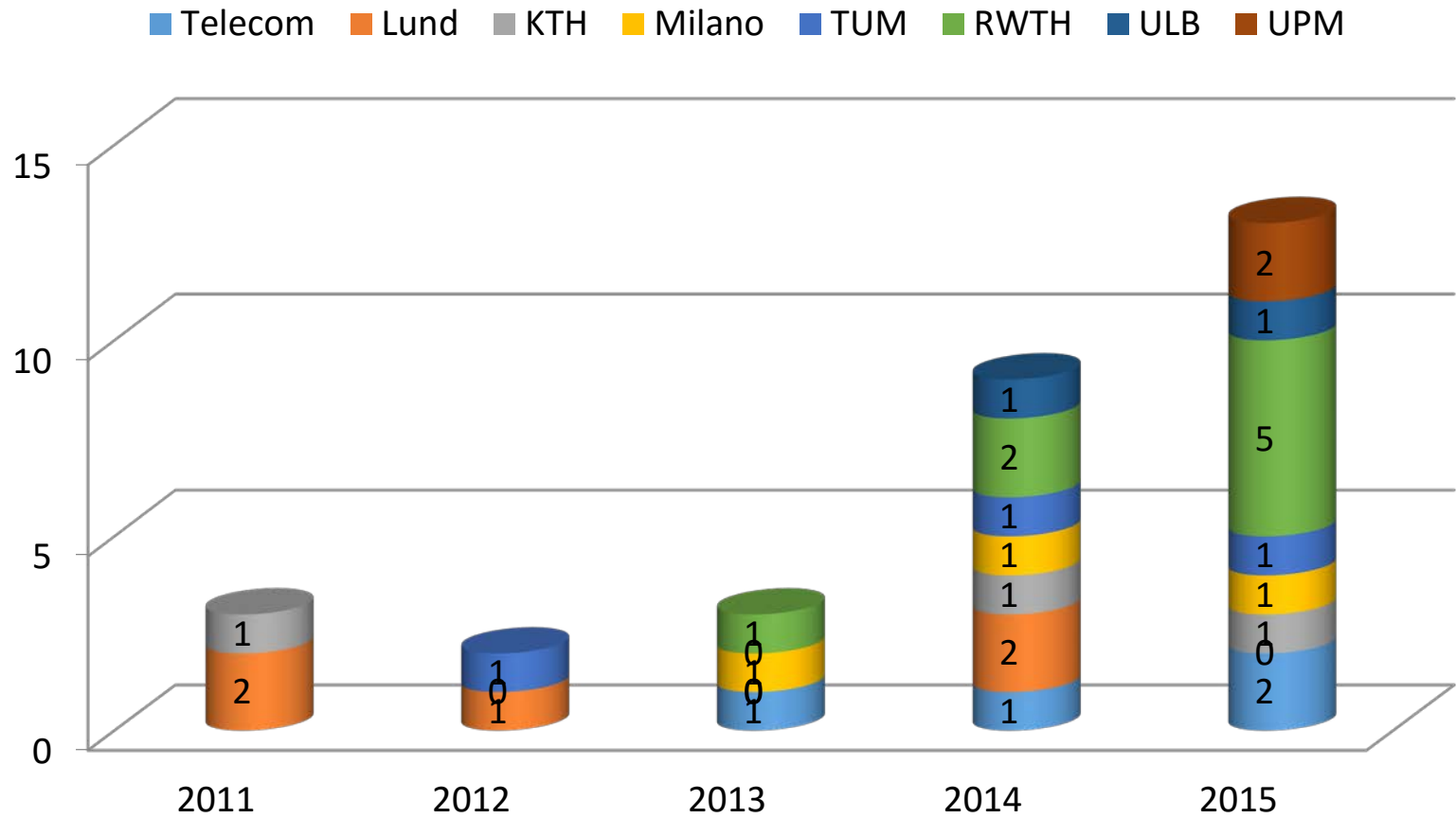
- 2003 Launched International Graduate Program for Advanced Science and Technology
- 2005 Double degree agreement with Ecoles Centrales, France
- 2005 Received first group of students from ECN
- 2006 Sent first group of students to Ecoles Centrales
- 2007 Admitted for T.I.M.E. Association
- 2010 Sent first student to LTH through Master DD Program
- 2011 Received first students through Master DD Program

Master DD Program - Incoming

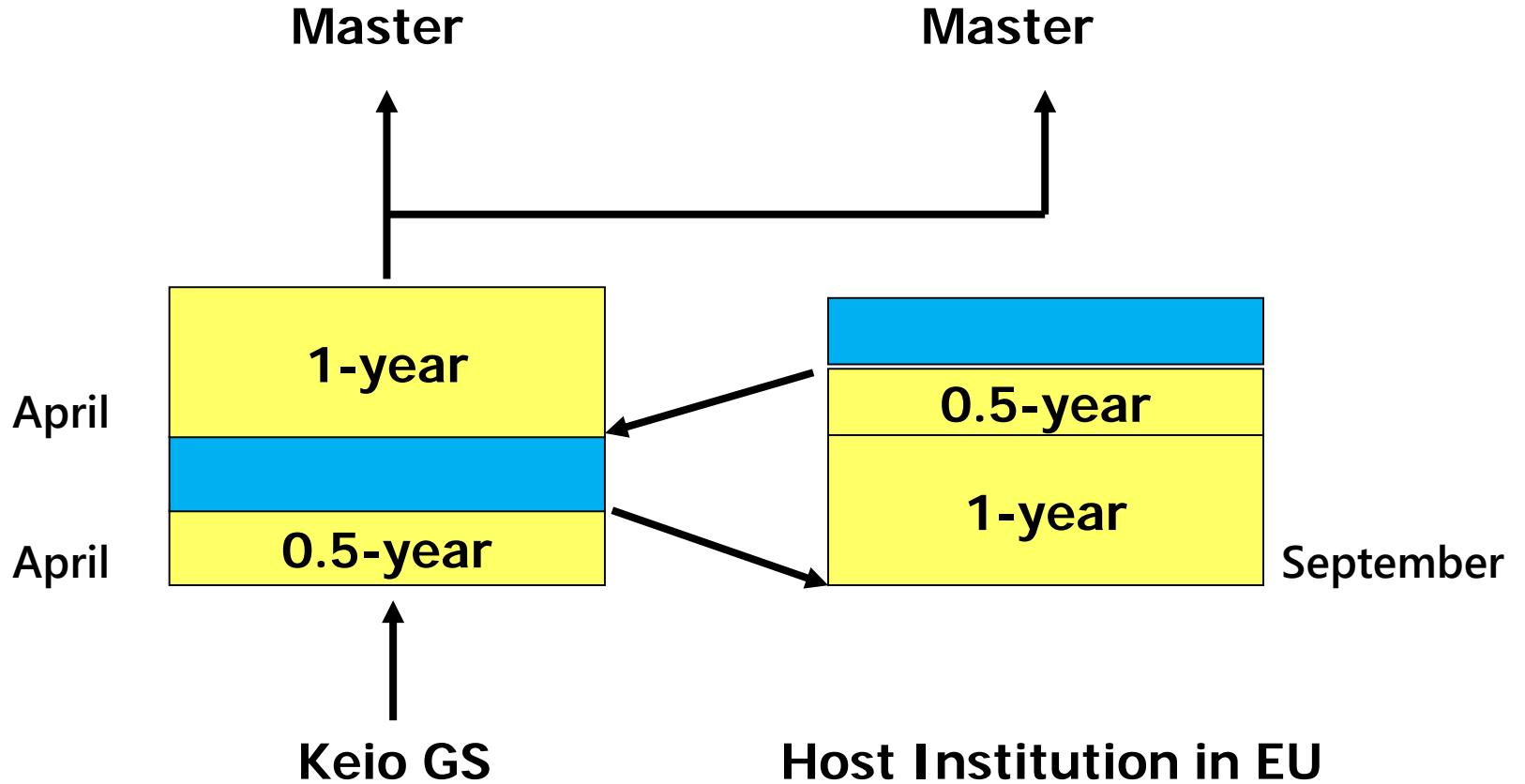


Master DDP-Incoming

Total: 30 incoming students from 8 partners (as of September 2015)



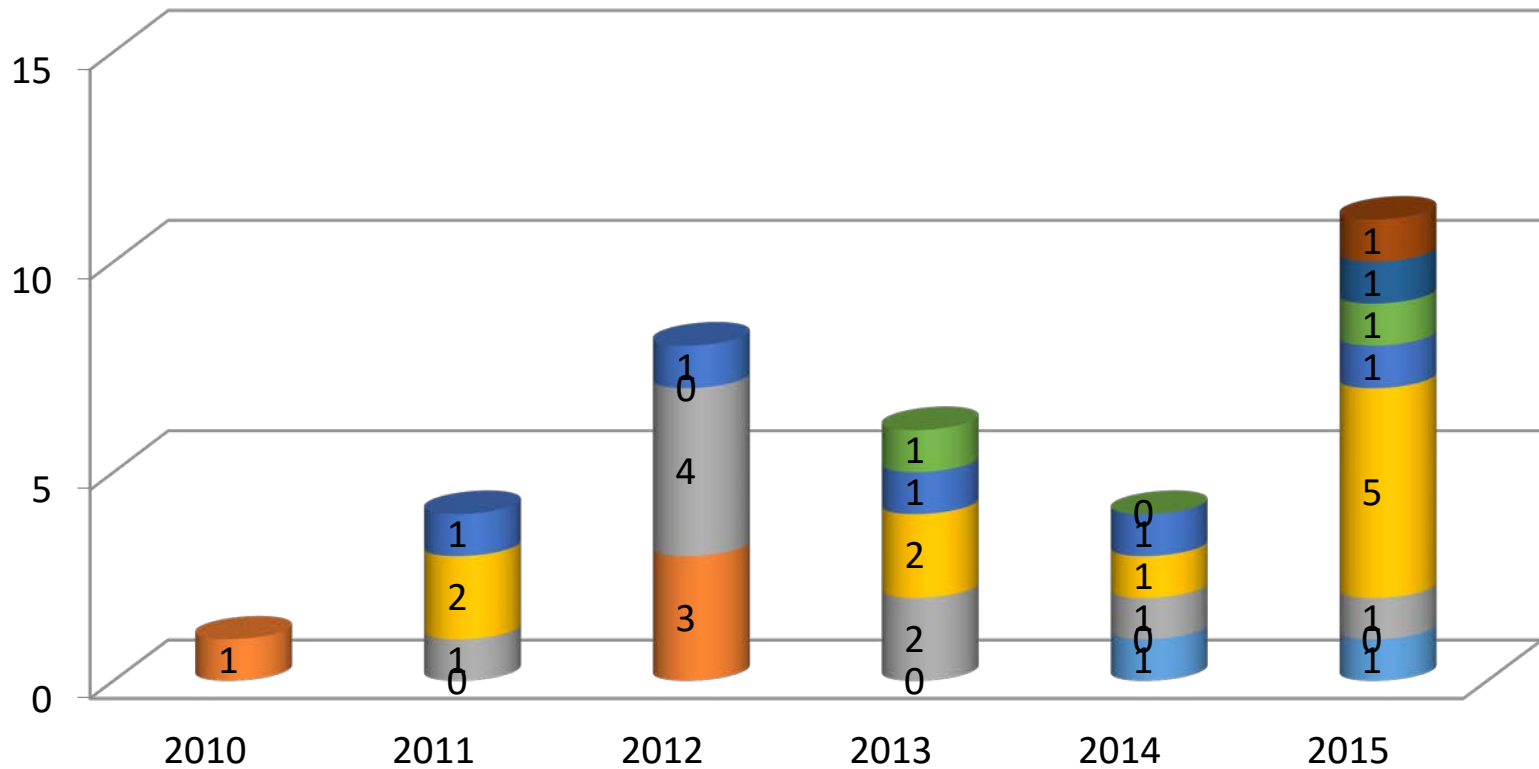
Master DD Program - Outgoing



Master DDP-Outgoing

Total: 34 outgoing students to 8 partners (as of September 2015)

■ Telecom ■ Lund ■ KTH ■ Milano ■ TUM ■ RWTH ■ ULB ■ UCL



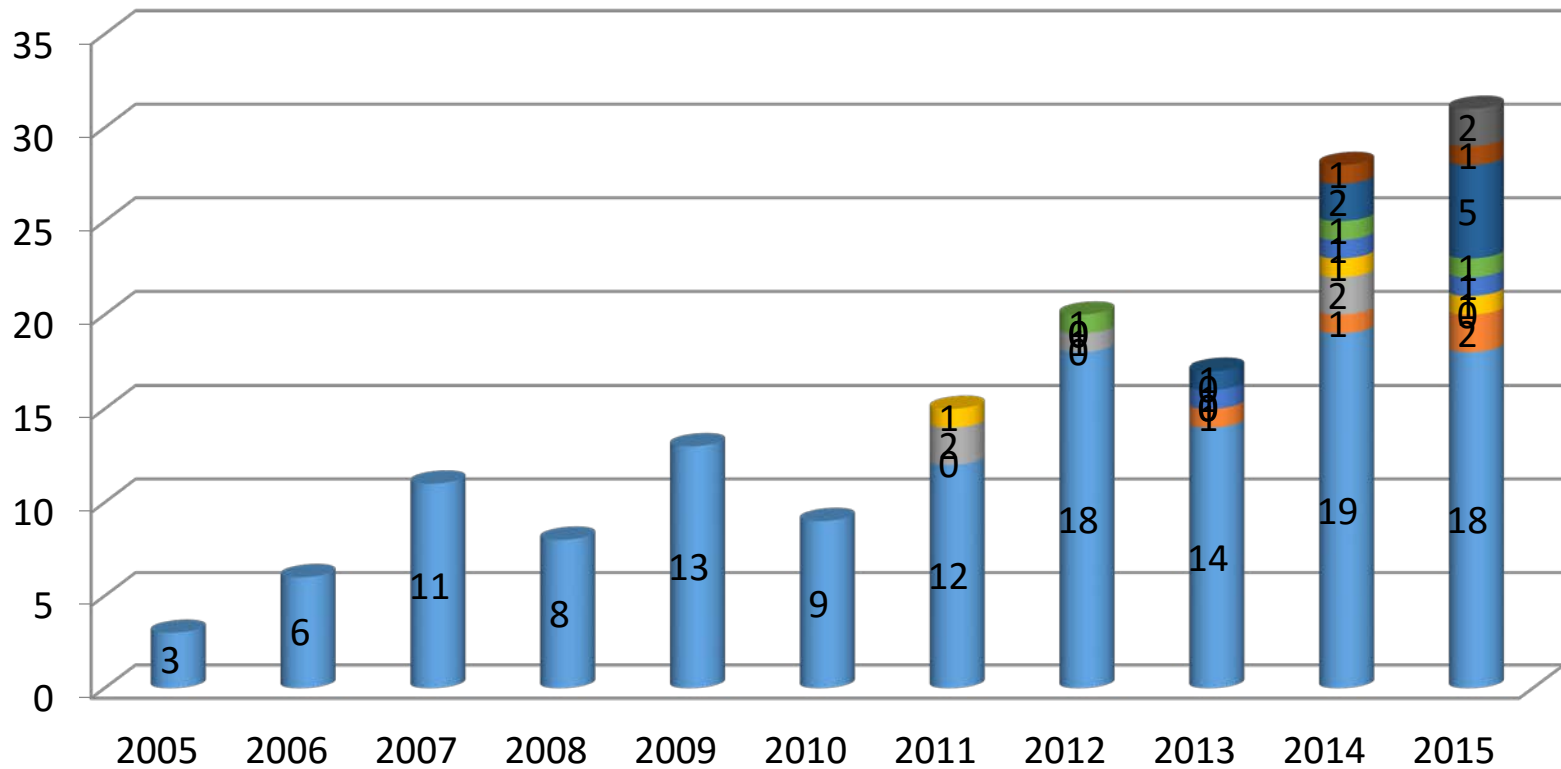
Double Degree Program at Keio Sci&Tech

- 2003 Launched International Graduate Program for Advanced Science and Technology
- 2005 Double degree agreement with Ecoles Centrales, France
- 2005 Received first group of students from ECN
- 2006 Sent first group of students to Ecoles Centrales
- 2007 Admitted for T.I.M.E. Association
- 2010 Sent first student to LTH through Master DD Program
- 2011 Received first students through Master DD Program
- 2014 Issued 100th double-degree all together

DDP-Incoming: From all partners

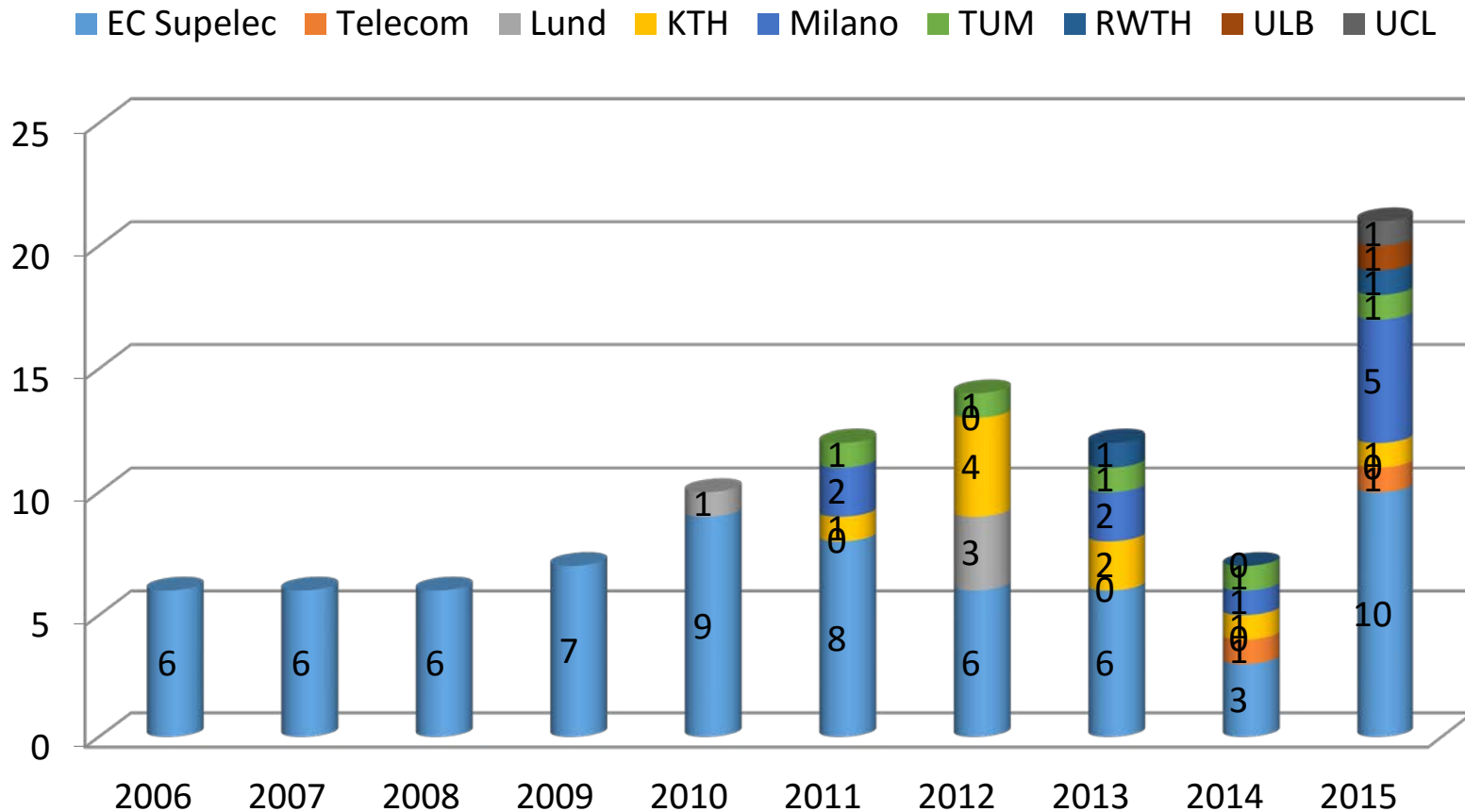
Total: 161 incoming students from 13 partners (as of September 2015)

■ EC Supelec ■ Telecom ■ Lund ■ KTH ■ Milano ■ TUM ■ RWTH ■ ULB ■ UPM



DDP-Outgoing: Bachelor and Master

Total: 101 outgoing students to 13 partners (as of September 2015)



Outcomes

- Totally 138 degrees awarded as of September 2015



Get-Together of KEIO Double Degree Alumni, October 2015

Entry Program – Language and Culture

Linguistic and Cultural Program by Ecole Centrale de Nantes, France

- Since 2001
- French language and cultural experience
- 6 weeks in February and March at host family
- Group of approx. 10 students (ST and other disciplines)

Summer School by RWTH-Aachen, Germany

- Since 2007
- German language and introduction to engineering
- 3 weeks in August/September with buddy program
- Group of approx. 20 students (ST only)
- Spring program starts in 2016
 - German language and cultural exchange
 - 3 weeks in March

Taste of Study Abroad – Summer Session

- Since 2013 in cooperation with Study Abroad Foundation, SAF
- Courses offered at selected universities by SAF in USA, UK, etc.
- STEM subjects given in English language
- 4, 6, 8 weeks during summer season (June to September)
- “Quarter system” to overcome the difference in academic calendar
- 3 to 6 students at junior level



THE STUDY ABROAD FOUNDATION
AN INTERNATIONAL UNIVERSITY NETWORK

Sending Japanese students abroad

- Purpose *should be clearly stated*
 - Part of the curriculum *such as Double Degree, Oversea Research Stay*
 - Extracurricular program *such as summer vacation program, language course*
- Duration *may vary according to the purpose and type of the programs*
- Quality assurance *is of particular importance*
- Financial support *by university is preferable but consistency with curriculum is more essential*

Double Degree as a Promoter of Collaboration in Research

- Nurturing students with global vision
 - Specialist training in two different cultural environment
 - Master English as lingua-franca
- Joint supervision of master thesis
 - Communication by researchers of partner universities
 - Possibility of further joint research opportunity
- Opportunity of grant application
 - Establishment of mutual interest between institutions
 - Application to Erasmus Mundus, Erasmus +, etc.

Career path after degree

- Join in industry, manufacturer, financial sector, etc.
 - Louis Klepal (ECN – Keio, graduation 2010)
- PhD program at Keio or other universities in Europe
 - Yuki Homma (Keio – ECP – Keio, 2010, TUM)
 - Emiyu Ogawa (Keio – ECLy – Keio, 2012)
- Other study program for further specialization
 - Asana Sasaki (Keio – ECN – Keio, 2011, Renault Foundation)

Issues (partly resolved)

- Conflict with traditional, Japanese curriculum policy
 - Specialist vs Generalist
 - Research intensive vs Course intensive
- Financial support
- Foreign language training
- Job hunting behavior
- Academic calendar