



Faculty and Staff Mobility at Tokyo Tech

October 30, 2018
2018 Japan-UK Dialogue on Exchange
in Higher Education & Research

Tokyo Institute of Technology
President **Kazuya Masu**
president@titech.ac.jp

1. About Tokyo Tech
2. Faculty and Staff Mobility
3. Team Tokyo Tech

1. About Tokyo Tech

2. Faculty and Staff Mobility

3. Team Tokyo Tech

Tokyo Tech today



Ookayama



Suzukakedai



Tamachi
(with attached high school)

Master's & Doctoral
Students

5,159
(975)

Faculty

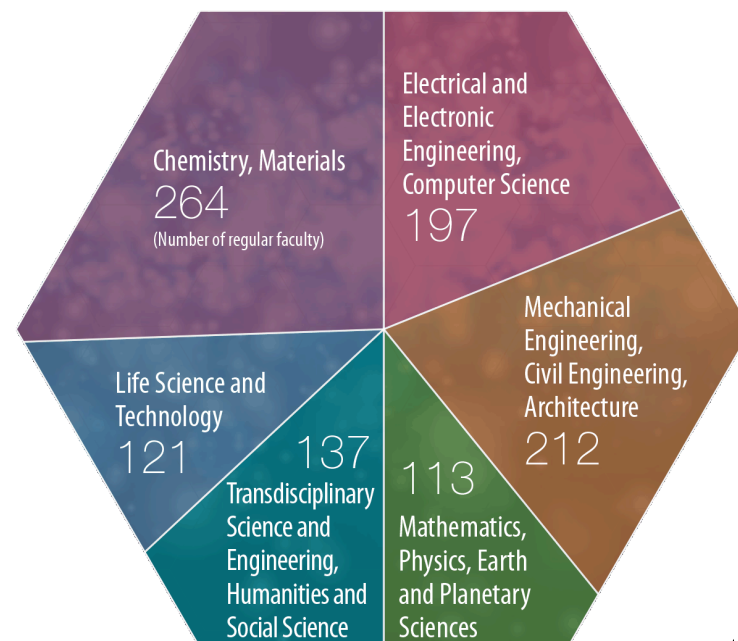
1,040
(43)

Bachelor's Students

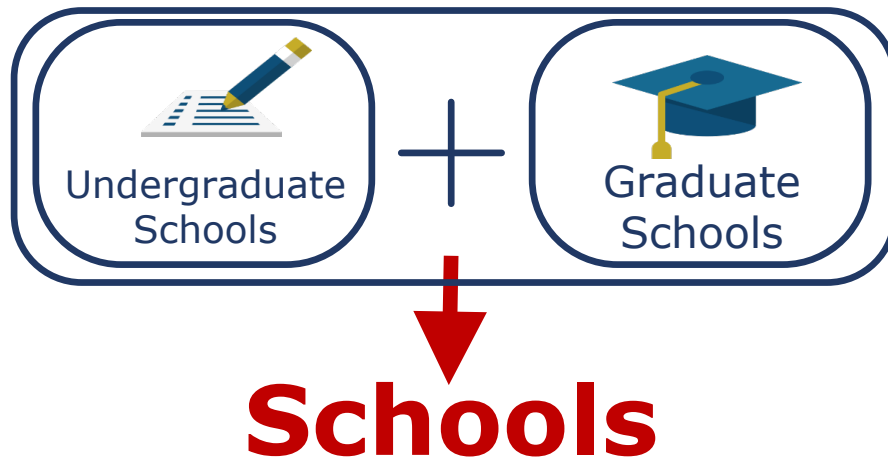
4,803
(239)

Admin & Technical
Staff

600
(2)



Academic organization



- School of Science
- School of Engineering
- School of Materials and Chemical Technology
- School of Computing
- School of Life Science and Technology
- School of Environment and Society
- Institute for Liberal Arts
- Institute of Innovative Research

- 理学院
- 工学院
- 物質理工学院
- 情報理工学院
- 生命理工学院
- 環境・社会理工学院

- リベラルアーツ研究教育院
- 科学技術創成研究院

Awards



Hideki Shirakawa
Chemical Engineering
Doctorate

- 2000 Nobel Prize in Chemistry



Yasuharu Suematsu
Honorary Professor

- 2015 Order of Culture
- 2014 Japan Prize



Kenichi Iga
Professor Emeritus

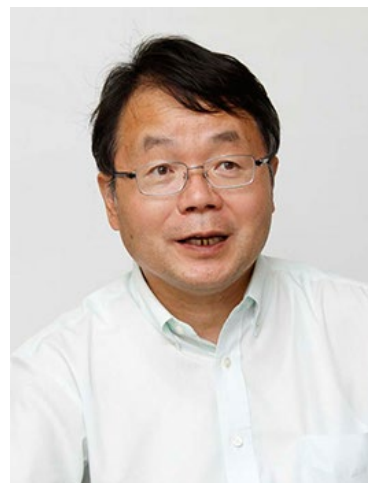
- 2013 Benjamin Franklin Medal



Yoshinori Ohsumi

Honorary Professor

- 2016 Nobel Prize in Physiology or Medicine
- 2016 Breakthrough Prize in Life Sciences
- 2015 Canada Gairdner Award
- 2015 Person of Cultural Merit



Hideo Hosono

Professor

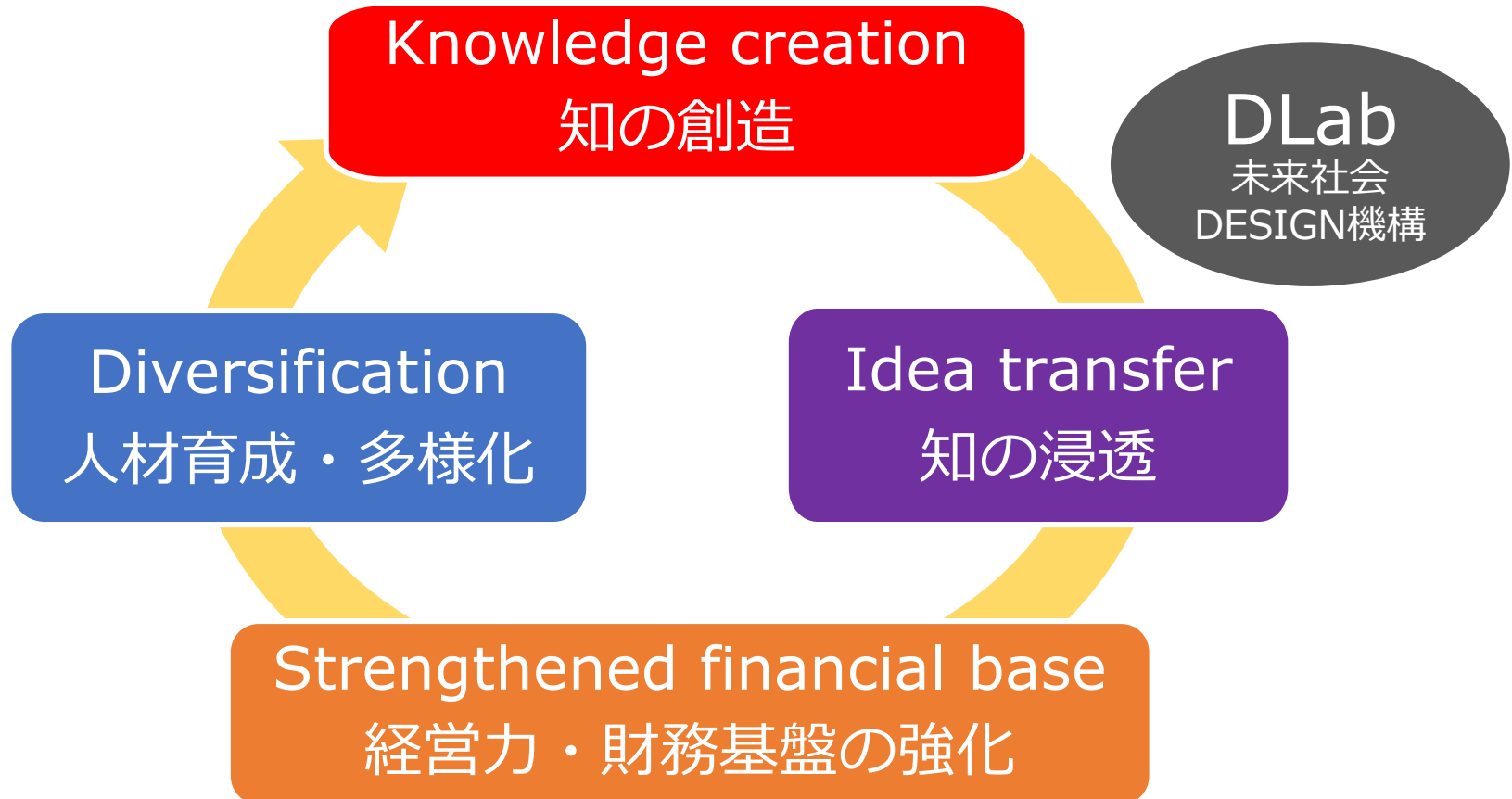
- 2017 Foreign Member of the Royal Society
- 2016 Japan Prize
- 2015 Imperial Prize of the Japan Academy
- 2013 Thomson Reuters Citation Laureate

Virtuous cycle of Tokyo Tech (好循環)

Pioneering a new era

Continuous dialogue with society & discovery of hidden possibilities in science and technology

科学技術の新たな可能性を掘り起こし，社会との対話の中で新時代を切り拓く



1. About Tokyo Tech

2. Faculty and Staff Mobility

3. Team Tokyo Tech

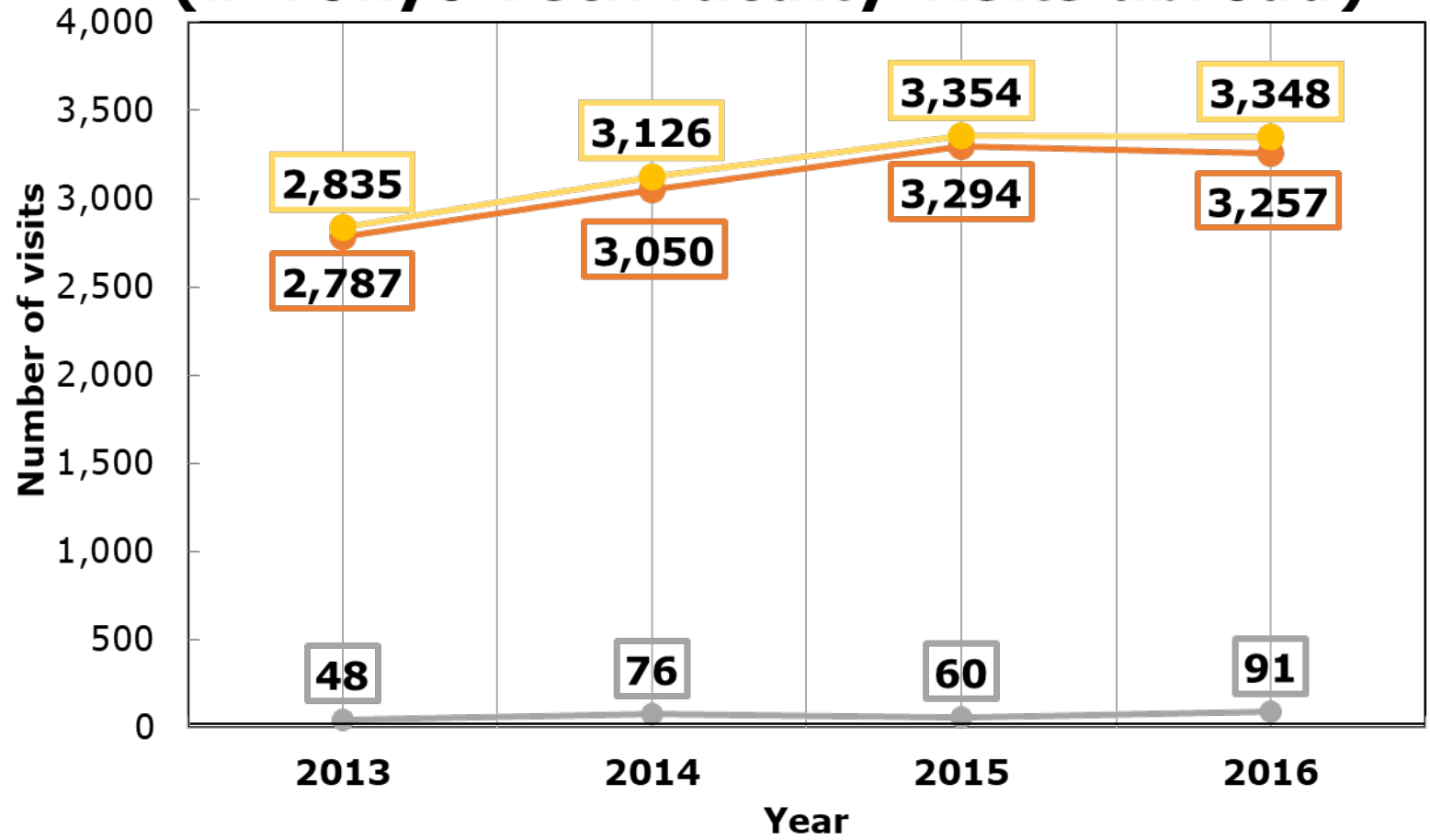
Faculty mobility

- Support research collaboration and increase joint authorship
- Boost diversification (faculty experience and research fields)
- Schemes to promote mobility
 - Project-based
 - Appointment-based



Data on faculty mobility (1)

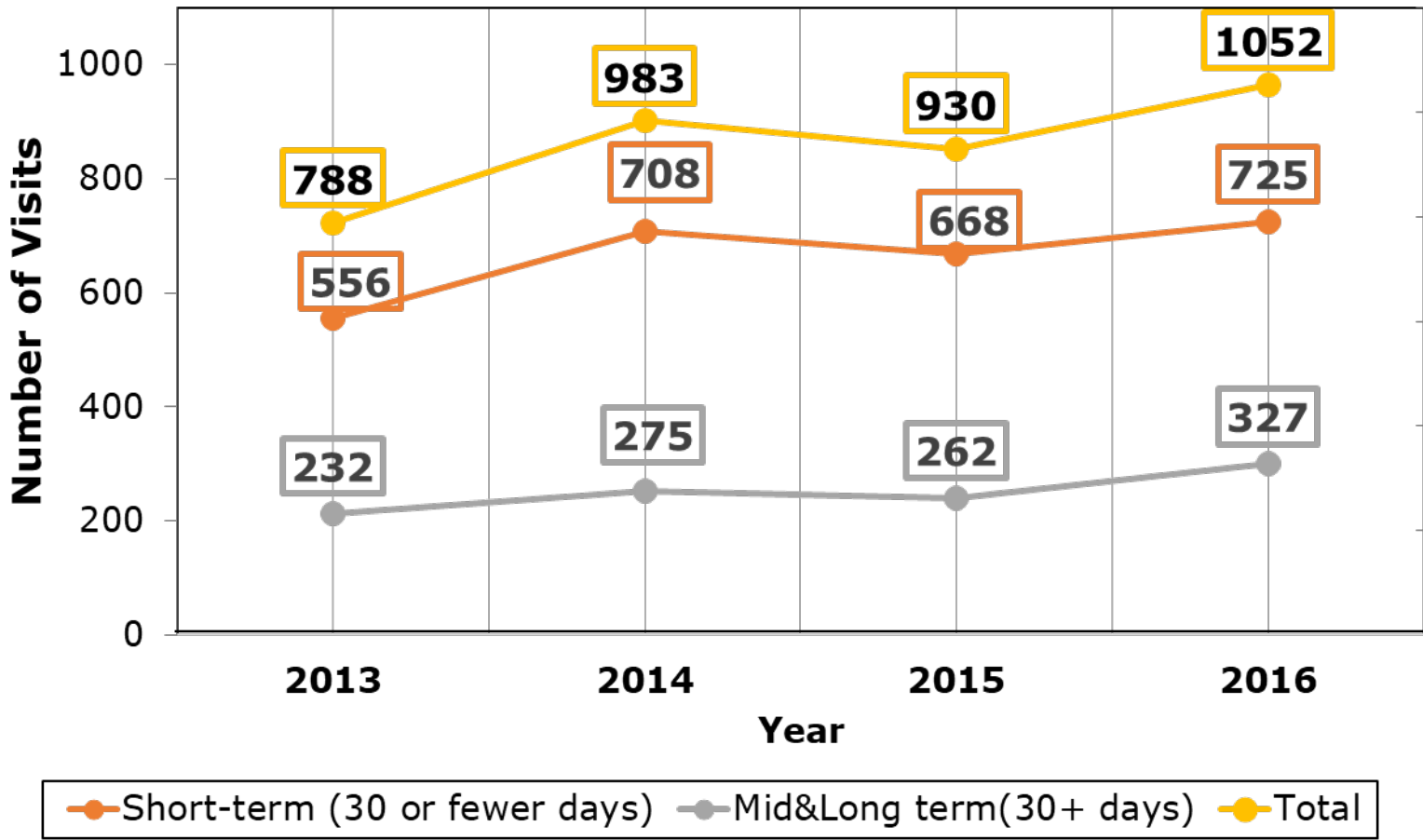
Outbound mobility trends (# Tokyo Tech faculty visits abroad)



● Short term (30 or fewer days)
 ● Mid & Long term (30 + days)
 ● Total

Data on faculty mobility (2)

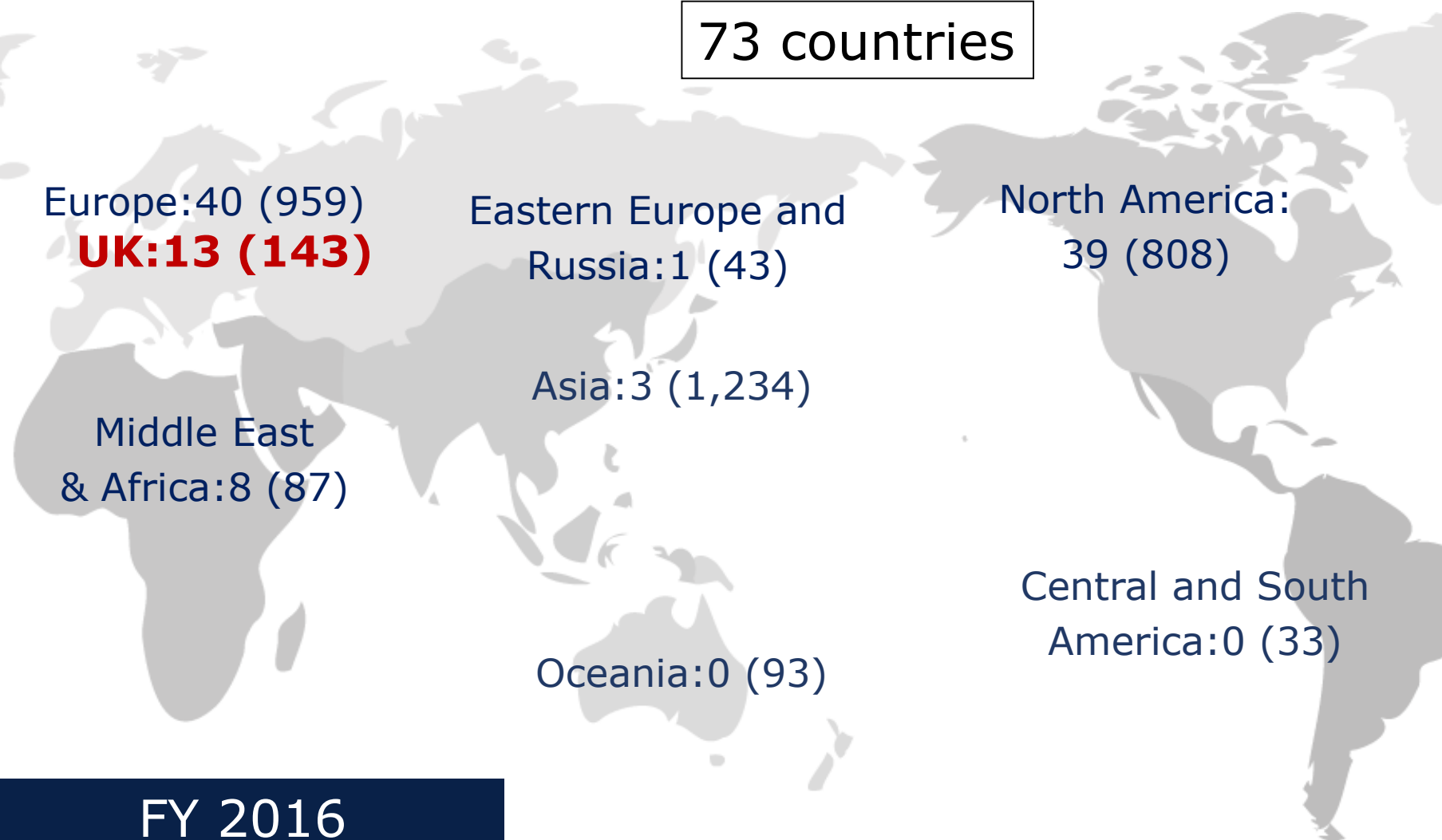
Inbound mobility trends (# of faculty visits from abroad)



Visits by outbound researchers (destination)

Destination: visits abroad for 30+ days (visits abroad for 30 or fewer days)

73 countries

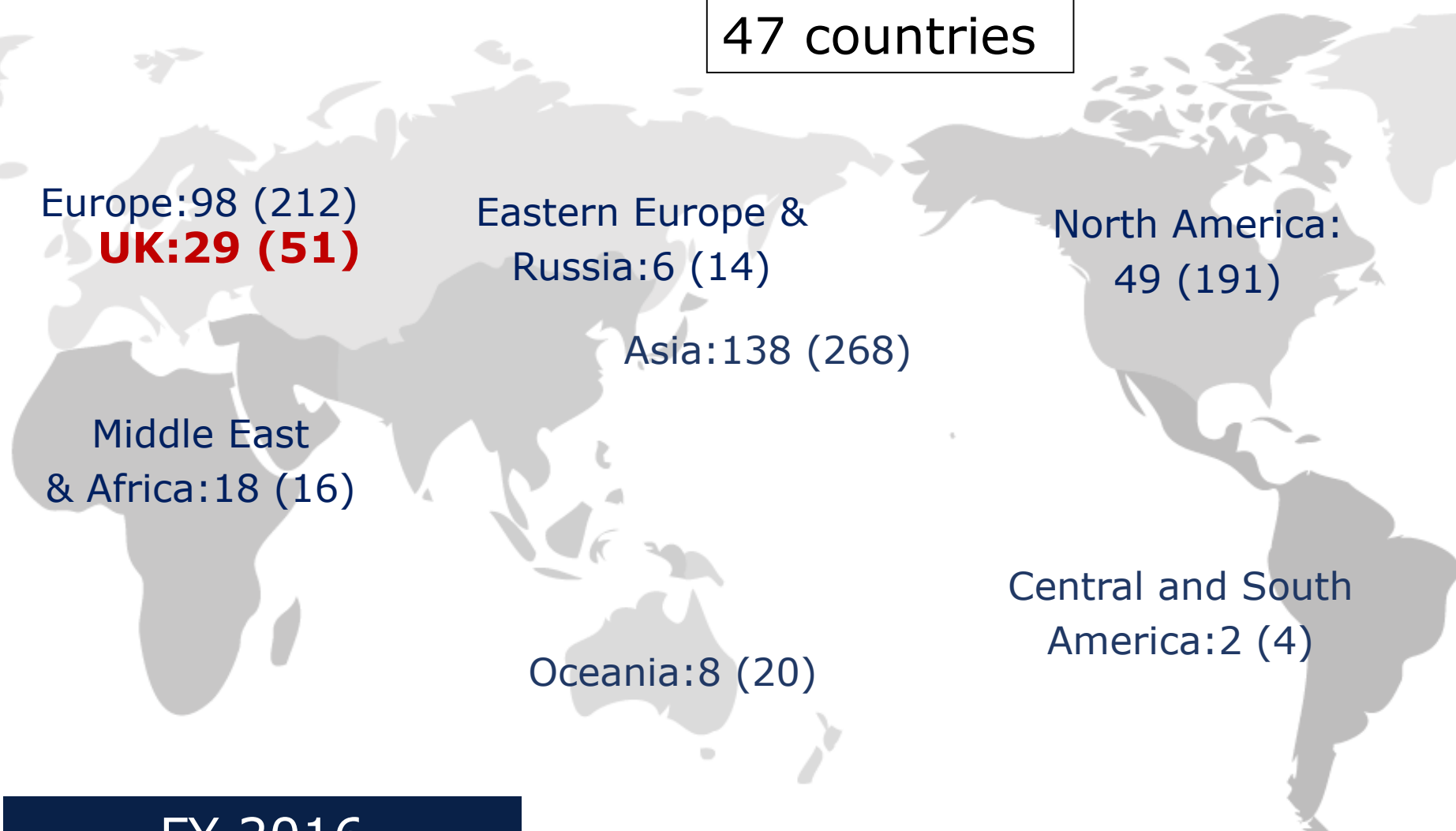


FY 2016

Visits by inbound researchers (origin)

Home university location: visits of 30+ days (visits of 30 or fewer days)

47 countries



FY 2016

Faculty mobility

- Support research collaboration and increase joint authorship
- Boost diversification (faculty experience and research fields)
- Schemes to promote mobility
 - Project-based
 - Appointment-based



Faculty mobility schemes

	Project-based	Appointment-based
Duration	1 week – 3 months	2 months – 3 years
Aims	<ul style="list-style-type: none"> Promote joint authorship Encourage collaborative activities through consortia or with target universities Encourage student exchange through faculty-led projects 	<p>Teaching</p> <ul style="list-style-type: none"> Provide intensive lectures at the graduate-level or lectures in English on specialized studies by faculty members from other top-level universities <p>Research</p> <ul style="list-style-type: none"> Promote sustained cooperation through long-term joint research activities by young researchers from other institutions
Participants	Faculty members from Tokyo Tech and overseas universities	<ul style="list-style-type: none"> Faculty members Young researchers from other institutions
Support	<ul style="list-style-type: none"> Travel expenses Research fees Lab operation fees 	<ul style="list-style-type: none"> Salary Travel expenses

Earth-Life Science Institute (ELSI)

- Launched in 2012 and selected by MEXT for funding under WPI
- Serves as a model for internationalization of Tokyo Tech's Schools and research labs

Strategies

- Provide administration and daily life support in English
- International dissemination of research activities
- Offers an optimal and international research environment

Outcomes/Achievements

- Overseas applicants for research scientist positions: **90% of total**
- Non-Japanese researchers: **66% of total** (23 out of 35)
- * Exceeds % required under WPI by **36%**

WPI: World Premier International Research Center Initiative

The WPI was launched to build within Japan globally-visible centers where researchers from around the world vie to come and conduct frontier research in a supportive and highly autonomous research environment.



Faculty mobility schemes (example): WRHI

World Research Hub Initiative (WRHI)

- A six year project to accelerate international joint research and researcher mobility
- Attracts world-class investigators to participate in joint projects at the IIR that go beyond the boundaries of organizations

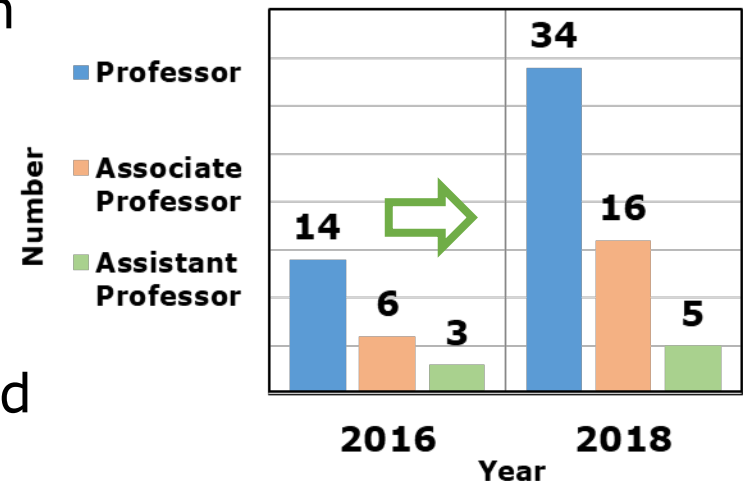
Strategies

- Daily life support, administration in English
- Extensive research and lab spaces

Outcomes/Achievements

- Non-Japanese researchers (appointment-basis) ratio increased by **41%** from 2016 to 2018

Appointment-based



WRHI: World Research Hub Initiative

The WRHI was established as part of the IIR to achieve interdisciplinary exchange between the world's top researchers and act as a center for ground-breaking research.

- Better support students and faculty members
- Strengthen staff members' knowledge and experience base (i.e., to host intl. symposia, to negotiate with intl. counterparts, to identify best practices)
- Schemes to promote mobility
 - Staff Development Programs
 - International Administrator Exchange Program



Staff mobility schemes (example): Staff Development Programs

About 10% of our staff members participated in staff development programs in the past 10 years.

Short-term dispatch

- Job shadowing
- Meetings, workshops
- Participation in study tours
- English language training

Long-term dispatch (1 year)

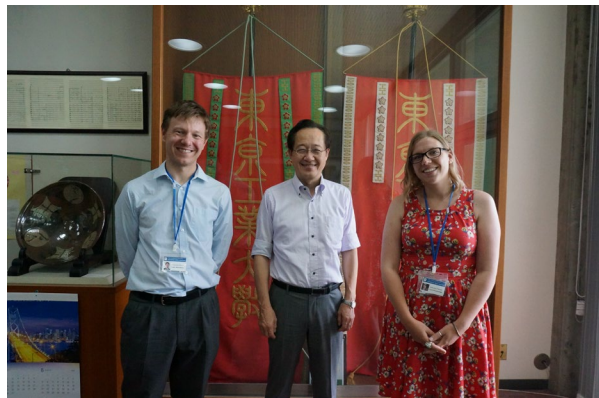
- JSPS training
- LEAP Program supported by MEXT

Country	Capacity	Duration	Participants (2008-2018)
UK	2	5-7 days	14
Germany	1	1 year	4
Sweden	1	1 year	2
Australia	2	1-2 weeks	13
USA	1	4 weeks	11
	1	1 year	4
Other	1 or more	2-3 days	15

Staff mobility scheme (example): International Administrator Exchange Program

Launched in 2017 with University of Sussex

- Staff dispatch : 2 persons per univ. per year
- Duration: 4 to 5 days
 - Meetings with board members
 - Discussions with administrative staff
 - Joint professional development workshop
 - Site visits



1. About Tokyo Tech
2. Faculty and Staff Mobility
3. Team Tokyo Tech

Pioneering a new era

Autonomy, Diversity &
Collaboration

as

Team Tokyo Tech



Tokyo Tech



Pursue, Engage, Transfer

尖らせる、共鳴する、実装する

