



Tohoku University Vision 2030 and International Strategy

Liaison Office Vision 2030

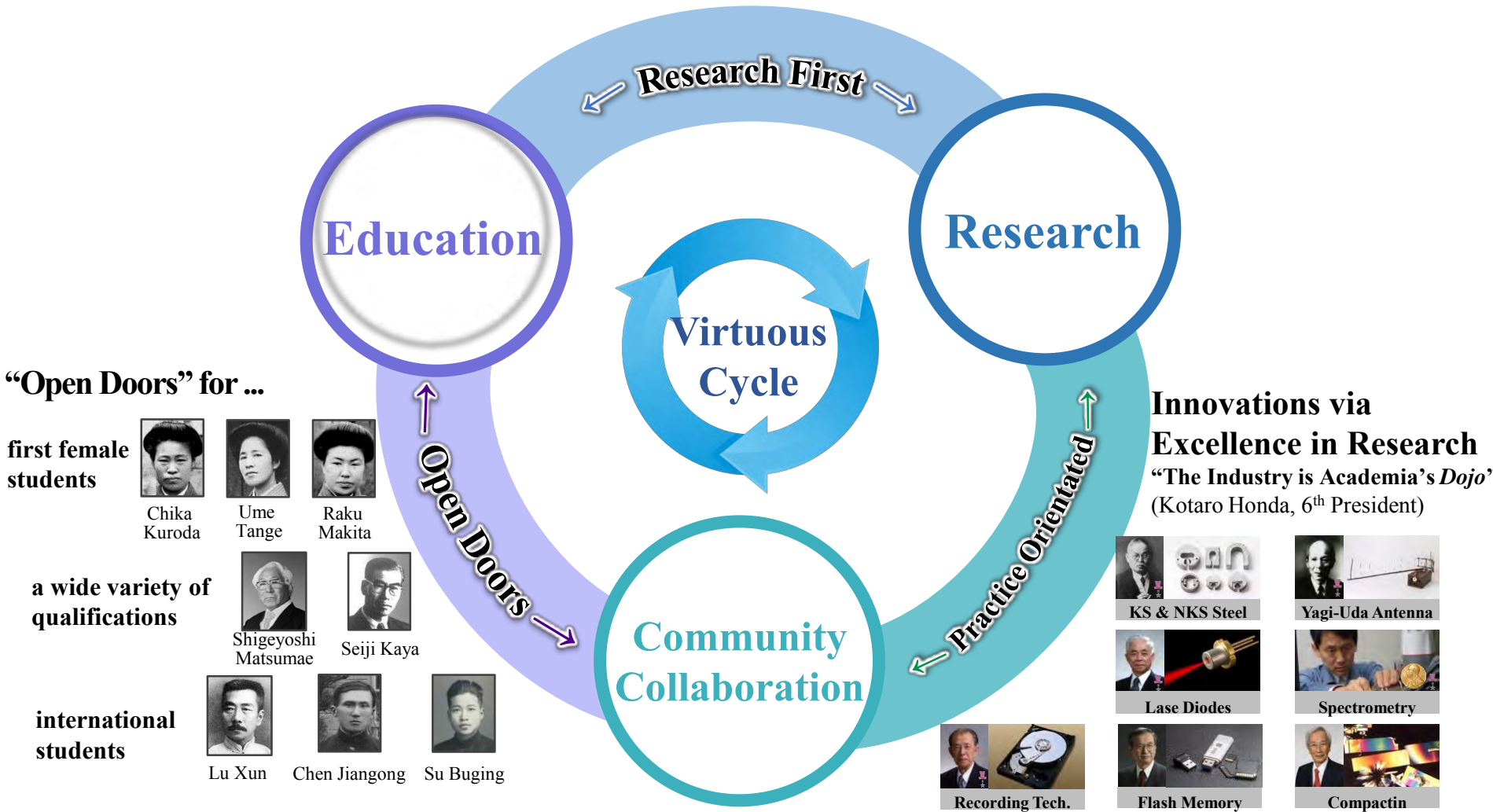
Nov. 7, 2019

Masahiro Yamaguchi
Vice President
Tohoku University



As a University Engaged with Society

Based on *Research First*, *Open Doors*
and *Practice Orientated Research & Education*

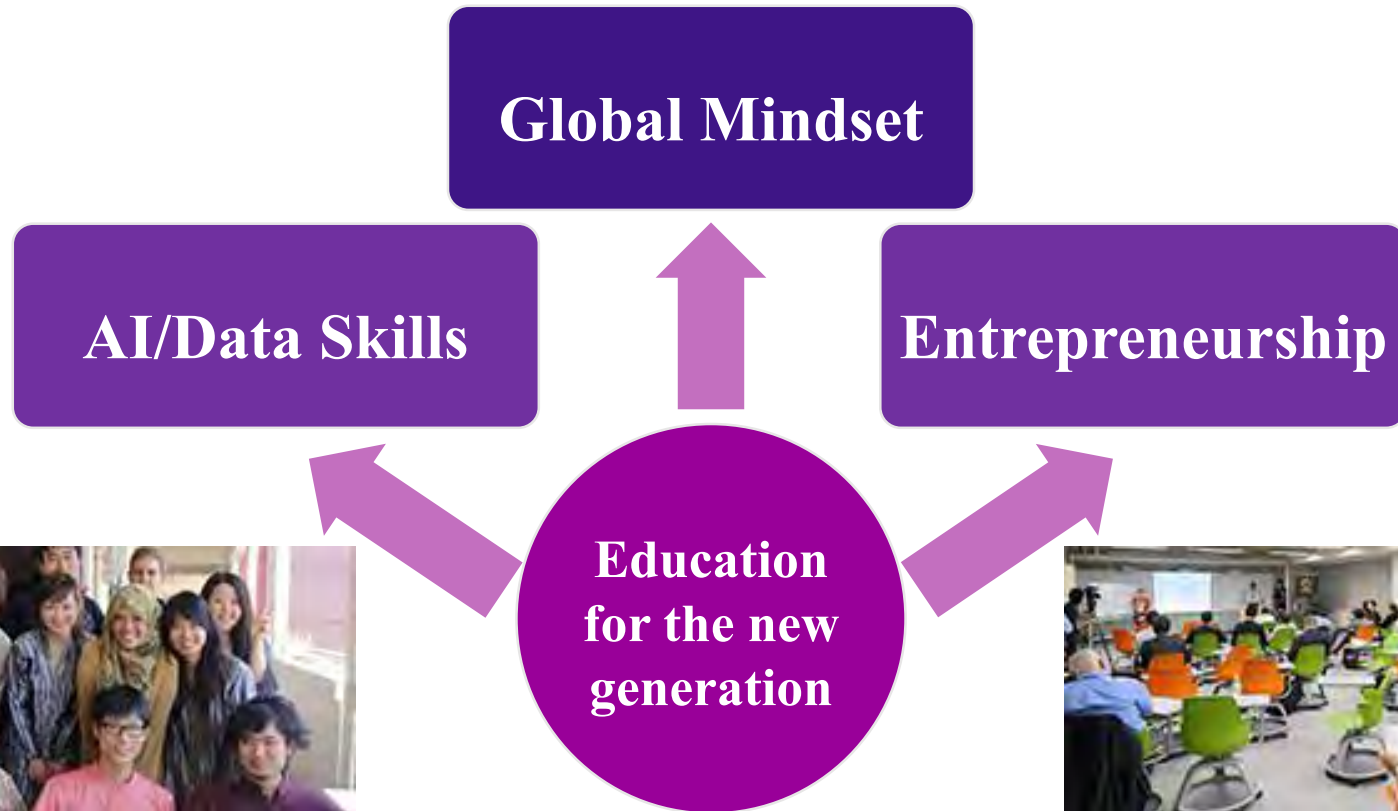






General Education for Future Leaders

- Developing practical education to help students acquire **a global mindset, AI/data skills, and a sense of entrepreneurship** which are essential these days
- Developing expanding programs that respond to students' "challenging minds"



Provide all undergraduate students approx. 2,500



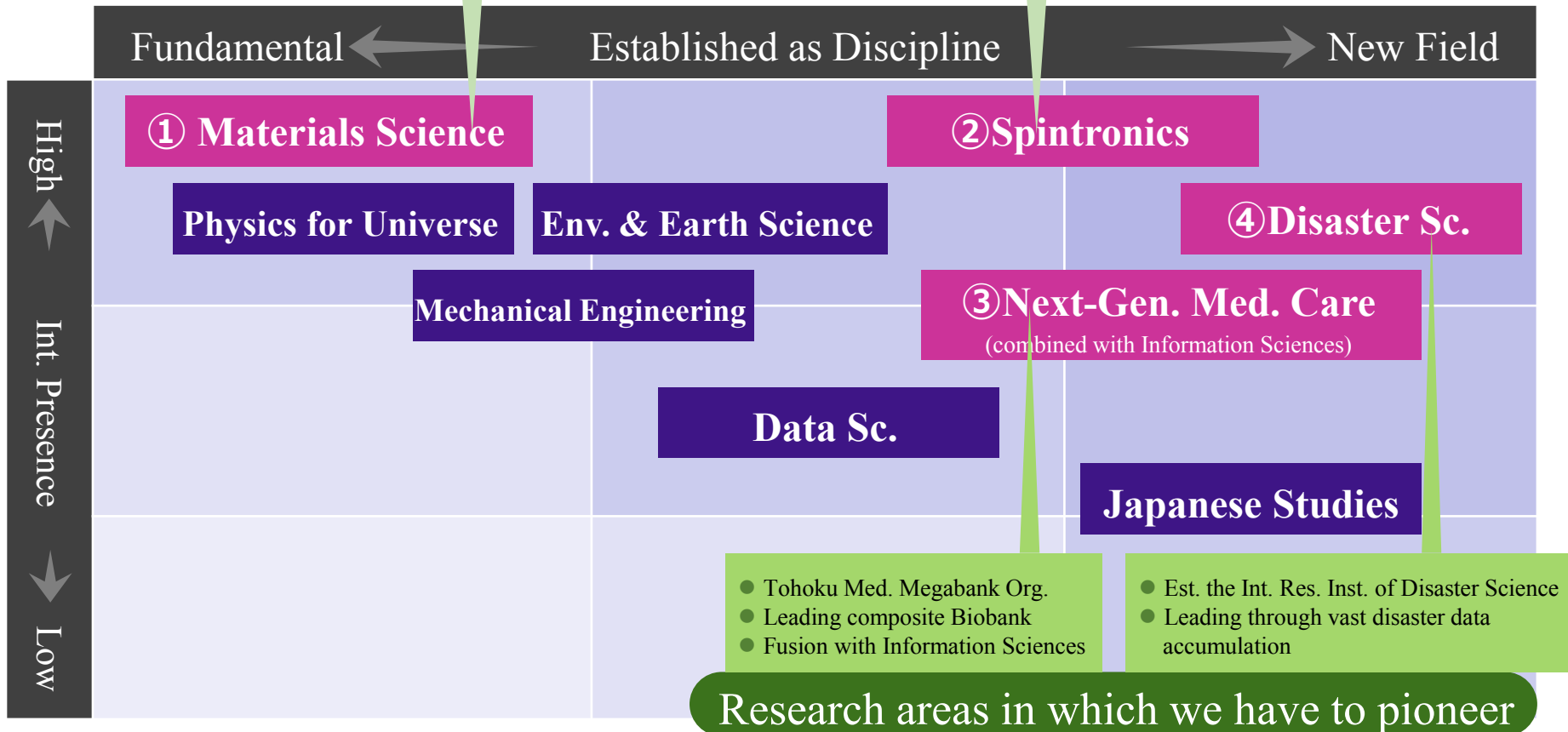
Priority Objective: World Leading Research Centers

- Prioritized promotion of World Leading Research Centers in 4 research areas
- International Research Cluster in 9 fields with 5 other strong areas

Research Areas with Leading Potential

- Strong fields of Tohoku Uni.
- Leading researchers
- Interdisciplinary research

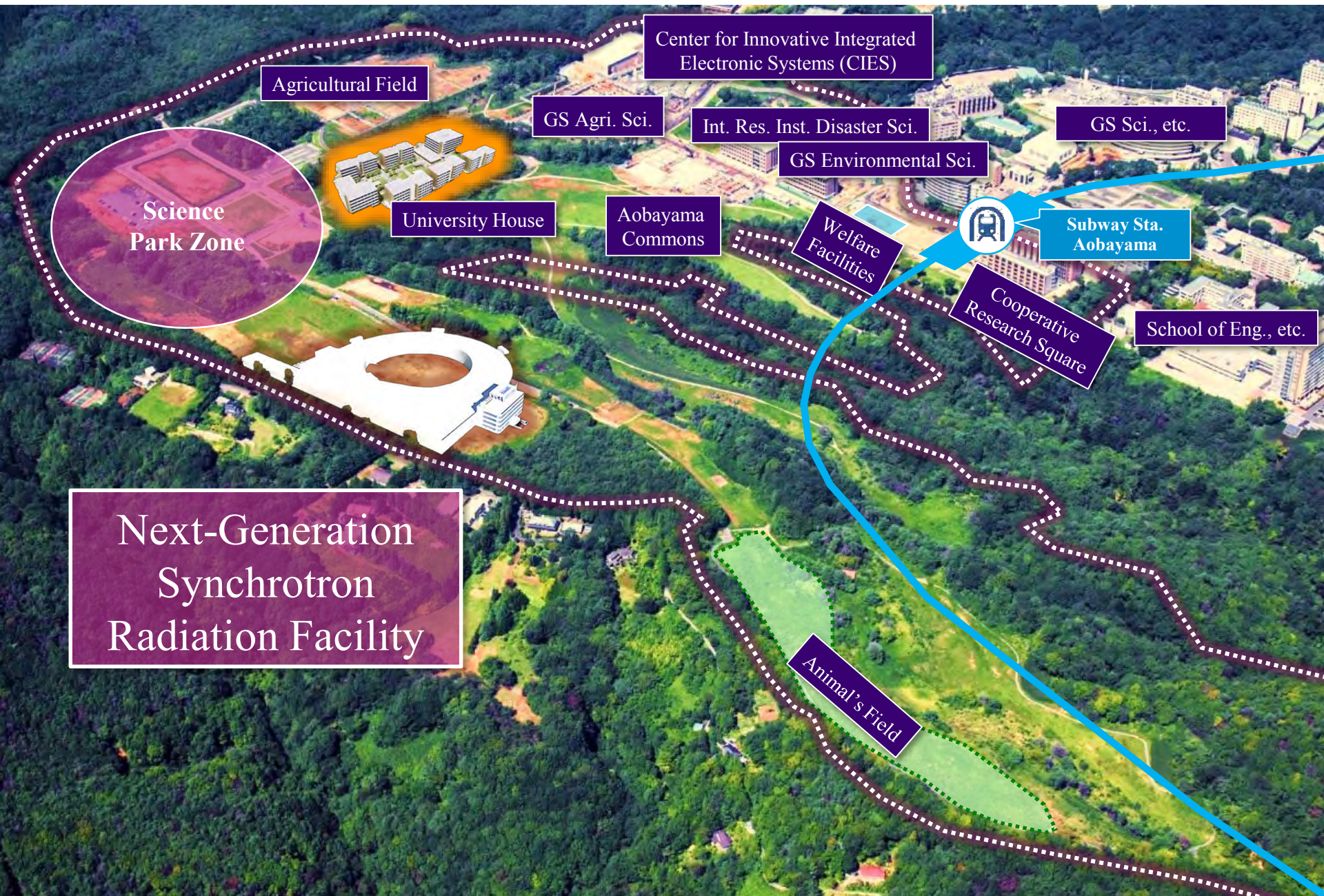
- Fundamental & applied research, e.g. magnetic semiconductors
- Already known as pioneers





Global Innovation Campus

6





April 2011

Establishment of the IDRRR

Promotion of prioritized research and its implementation within society for reconstruction and regeneration

July 2015

Initiation of “Research with Social Impact”

30 cross-sectoral and interdisciplinary research developments aimed at solving important social issues



Academia Contributions **“close the science-policy gap”**



Sendai Framework for Disaster Risk Reduction



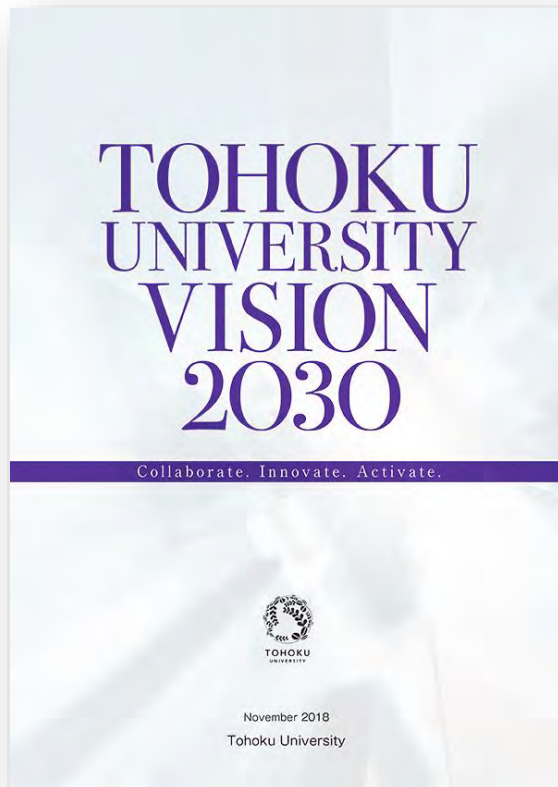
2015: **Establishment of Three Major Agendas for the International Community**





International Strategy

Realization of the University Mission and Vision through the Advancement of International Collaborations and Comprehensive Internationalization



- Strategic advancement of international collaborations (Main Policy 56 of Vision 2030)
- University-wide, cross-sectoral globalization on campus (Main Policy 57 of Vision 2030)



Times of Global Change

- Globalization and Localization
- The 4th Industrial Revolution, Digital Innovation, etc.
- Knowledge-based Society

Issues and Objectives

- SDGs
- Sendai Framework for Disaster Risk Reduction
- Paris Agreement
- Aging and Population Decline

Tohoku University's Identity:

To be a Global University with Creativity and Innovation

- Creation of global cutting-edge knowledge
- Accept a wide range of talents involved in the community
- Leading the development of Tohoku and Japan



Talk at Liaison Office Session 2017

We need more **Strategic and comprehensive** approach

Strategic international partnerships are a hot topic in higher education right now. Collectively, we seem to be moving away from an initial philosophy of “let’s sign as many MOUs with foreign institutions as we can,” to an approach that emphasizes careful planning, deliberate action, and attention to quality, depth, and sustainability.

Helms (2016) *Higher Education Today*



Processes and Targets of our International Strategy

Process 1: Advancement of International Collaborations

We will bring together the wisdom with a variety of external partners and advance autonomous international collaboration

Process 2: Comprehensive Internationalization

Through cross-border “Open Doors”, we will develop a hub for diverse talents, resources, and networks from around the world



Target 1: Education with a Global Perspective

We will attract talented students and faculty members from home and abroad, and foster future leaders with a global perspective for the times of global change

Target 2: Cutting-Edge Research

We will create innovations and become pioneers in new academic fields through the cutting-edge research and knowledge creation

Target 3: Cross-border University-Industry Collaboration

We will develop international university-industry collaborations through the global innovation campuses and international networks

Target 4: Solving Worldwide Social Tasks

Through Community Collaboration, we will play a leading role in solving various global social challenges

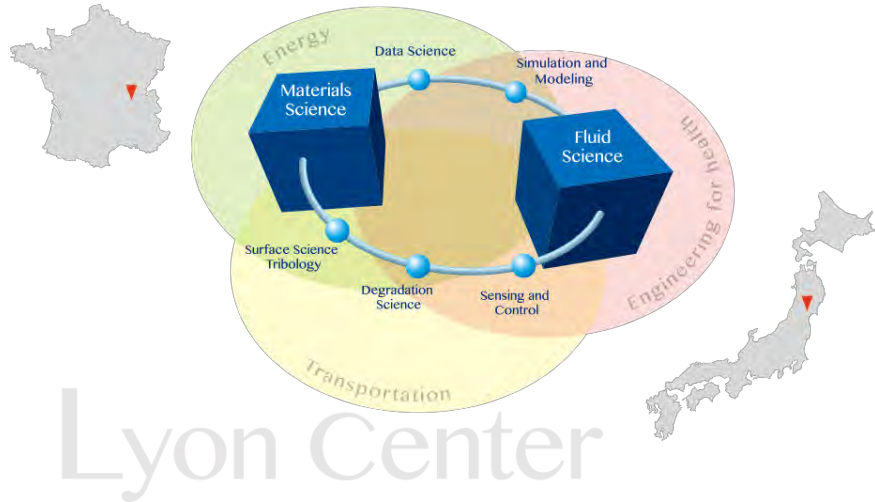


Process 1. Advancement of International Collaborations

- We will develop international exchanges in a more open manner through the clear guidelines for international academic exchange agreements
- We will **strategically strengthen partnership with overseas universities** with whom Tohoku University can build mutually beneficial relationships
- We will activate the international exchange through effective monitoring and assessment based on an integral database on international exchange
- We will **effectively use overseas bases** and participate **inter-university consortia actively**
- We will activate international exchanges tailored to each region and country using networks inside and outside the university
- We will enhance the Tohoku University overseas network beyond regions and generations by using such organizations as the **overseas alumni associations**
- We will improve of our international presence through the development of our international public relations



Selective strategic partnerships



Tohoku University Day
in Melbourne(2018)

Strategic partnerships:

- Selection under the presidential leadership and mutual agreement
- Intensive support and monitoring for enhancing university wide exchange and collaboration

Candidates for strategic partners:

▪ UCL ▪ Melbourne ▪ Tsinghua ▪ Lyon ▪ Washington and others



- Research Collaboration by Matching Fund Scheme (Seed Fund)
 - Usage of Inter-University Consortia
 - Joint Laboratories
 - Liaison Offices & Overseas Offices
- and others



Tsinghua University

Research Areas	3 areas (Materials Science, Spintronics, Disaster Science)
Number of applications	6 applications
Projects supported	6 projects (4 in Materials Science, 1 in Spintronics, 1 in Disaster Science)
Funding Period (for 2 academic years)	Tohoku: April 1, 2019 to March 31, 2021 Tsinghua: April 1, 2019 to December 31, 2020
Funding amount	JPY3.3M max per project for 2 years from each university



University College London (UCL)

Research Areas	All areas (6 prioritized areas: Disaster Science, Neuroscience, Materials Science, Data Science, Higher Education, Equality & Diversity)
Number of applications	13 applications
Projects supported	7 projects (1 in Disaster Science, 2 in Neuroscience, 2 in Materials Science, 1 in Data Science, 1 in Equality & Diversity)
Funding Period (for 1 academic year)	Tohoku: June 1, 2019 to March 31, 2020 UCL: June 1, 2019 to May 31, 2020
Funding amount	JPY700,000 max per project for 1 year from each university





AEARU
The Association of East
Asian Research Universities



APRU
Association of Pacific Rim
Universities



HeKKSaGOn
The Japanese-German
University Consortium



T.I.M.E.
Top Industrial Managers
for Europe



RENKEI
Japan-UK Research and
Education Network for
Knowledge Economy
Initiatives



International Research Expansion: International Joint Laboratory Centers

Japan-France Joint Laboratory (ELyTMaX)



Established in January 2016 by Tohoku University, Université de Lyon and CNRS

—Achievements—

- Peer-reviewed International Conference Proceedings: 7 papers
- Presentations at over 40 international conferences
- Fund acquisition:
Grants-in-Aid for Scientific Research (Scientific Research A, B), Nuclear Decommissioning Joint Program, Private Companies (DENSO etc.)

Tohoku University – National Chiao Tung University Joint Laboratory



Tohoku University – University of Science and Technology Beijing Joint Research Laboratory





Sendai



An administrative framework to
catalyze collaborative research,
education and information exchange
between UW and TU.



Seattle



Started in April, 2017

Current Achievements: 9 research workshops, 10 educational collaborations,
16 joint papers*

(*including "those in preparation")



Thailand Office @Chulalongkorn



2nd Tohoku University Seminar for Social Benefits in Thailand
Sat. February 2nd, 2019
Time: 12:30 - 16:15

Venue:
 Room 701, 7th Floor
 Chaloe Rajakumari 60
 Building (Chamchuri 10),
 Chulalongkorn University

Keynote speaker



Hiroyuki Murata
 Professor
 Smart Ageing
 Research Center
 (SARC)
 Tohoku University



Kazuhiro Kosuge
 Professor
 System Robotics Lab,
 Department of Robotics
 Tohoku University



Sittawat Lertsiri
 Associate Professor
 Food Science
 and Technology,
 Mahidol University



Ronnapee Chaichawarat
 Lecturer
 International School
 of Engineering,
 Chulalongkorn University

Organized by Tohoku University, Japan
 and Tohoku University Alumni (TUAT), Thailand
 For more information: pwetchayont@gmail.com

Technology and Innovation for Smart Health and Aging Society

FREE Seminar



Prof. Toshiya Ueki
 Executive
 Vice President of
 Tohoku University



**Assoc. Prof. Ruttikorn
 Varakulsiripunth**
 Chairman of TUAT

Seminar Tentative

12:30 ~ 13:00 Registration
 13:00 ~ 13:05 Greeting by Chairman of TUAT
 13:05 ~ 13:10 Greeting by Executive Vice President of Tohoku University
 13:10 ~ 13:40 Prof. Hiroyuki Murata (Tohoku University)
 "Aging trend from Japan: What will happen in our super-aged society?"
 Q & A
 13:40 ~ 14:20 Assoc. Prof. Sittawat Lertsiri (TU's alumni, Mahidol University)
 "Food for health and wellness in aging society"
 Q & A
 14:20 ~ 14:30 Q & A
 14:30 ~ 14:50 Coffee Break
 14:50 ~ 15:20 Prof. Kazuhiro Kosuge (Tohoku University)
 "Physical Human-Robot Interaction Dance Partner Robot
 and Co-worker Robot PaDY"
 Q & A
 15:20 ~ 15:30 Q & A
 15:30 ~ 16:00 Dr. Ronnapee Chaichawarat (TU's alumni, Chulalongkorn University)
 "Wearable robots for the future aging society"
 Q & A
 16:00 ~ 16:10 Q & A
 16:10 ~ 16:15 Closing Remark

Limited seats >>> Register HERE
<https://tinyurl.com/y8pneleg>



TohokuU. Seminar/ Alumni Gathering Dinner



Tohoku U. Center @ FTU, Vietnam



Study Abroad Program in Vietnam



TOHOKU UNIVERSITY FGL
 CHALLENGE FOR SUSTAINABLE DEVELOPMENT

CHANCE TO BE INVITED TO TOHOKU UNIVERSITY!

CREATE 3-MINUTE-VIDEO TO SHOW YOUR IDEAS TO
 IMPROVE OUR SOCIETY IN A SUSTAINABLE WAY



Alumni Association @Vietnam

FGL Challenge



Overseas Representative Offices

- 1 China Office @JSPS Beijing (Apr 20,2007)
- 2 Thailand Office @Chulalongkorn University(Mar 14,2016)
- 3 UW-TU Academic Open Space @University of Washington (Apr 14. 2017)

Joint Laboratories

- 1 ElytMax @Université de Lyon (INSA-Lyon) (Mar 5, 2018)
- 2 Top Mass @University of Science and Technology Beijing (Nov 17,2016)
- 3 @National Chiao Tung University (in process)



Liaison Offices (established by the departments' Initiative)

- | | | | |
|---|---|----|--|
| 1 | The University of New South Wales (International Office) Australia (May 17, 2002) | 8 | Royal Institute of Technology (Faculty of Mechanical Engineering) Sweden (June 28, 2012) |
| 2 | Moscow State University (Faculty of Physics) Russia (June 21, 2002) | 9 | The University of California, Riverside, USA (February 1, 2013) |
| 3 | Syracuse University (L. C. Smith College of Engineering and Computer Science) USA (November 11, 2003) | 10 | Université de Lyon (June 2, 2015) ※Based on the Liaison office @INSA-Lyon since January 23, 2004 (Institute for Fluid Science) |
| 4 | Korea Advanced Institute of Science and Technology (Department of Mechanical Engineering) South Korea (December 18, 2003) | 11 | Foreign Trade University, Vietnam (December 19, 2015) |
| 5 | Research Institute for Tropical Medicine, Philippines (May 1, 2007) | 12 | National Chiao Tung University (College of Electrical and Computer Engineering) Taiwan (May 4, 2017) |
| 6 | Institut Teknologi Bandung, Indonesia (August 2, 2011) | 13 | Sichuan University (West China School of Stomatology) China (March 1, 2018) |
| 7 | Seoul National University (College of Engineering) South Korea (December 1, 2011) | | |