Japan Forum for Internationalization of Universities
“Building a Network of ‘Strategic Partnerships’ to Strengthen International Competitiveness among Japanese Universities”

2nd Strategic Partnership Symposium

How to deepen the partnership in various aspects

Friday, March 3, 2023  The University of Tokyo

Compiled and Published by:
Division of Global Campus Initiatives, The University of Tokyo

Strategic Partnerships Project Websites:
English: https://www.u-tokyo.ac.jp/en/academics/tp-uni.html
Japanese: https://www.u-tokyo.ac.jp/ja/tp-uni

All the information on this report is dated March 3, 2023
Opening Comments

Prof. HAYASHI Kaori
Executive Vice President, Director
General of the Division for Global Campus Initiatives,
The University of Tokyo

Opening Address

Mr. KOBAYASHI Yosuke,
Director, International Affairs Division, Higher Education Bureau,
Ministry of Education, Culture, Sports, Science and Technology - Japan

Guest Lecture 1

Prof. YONEZAWA Akiyoshi,
Professor, Vice Director, International Strategy Office,
Tohoku University

Guest Lecture 2

Prof. Geraint REES,
Vice-Provost, University College London

Panel discussion

1. Prof. YONEZAWA Akiyoshi
   Professor, Vice Director, International Strategy Office, Tohoku University

2. Prof. Geraint REES
   Vice-Provost, University College London

3. Prof. WATANABE Satoshi
   Special Advisor to the President,
   Deputy Director General of the Division for Global Campus Initiatives, The University of Tokyo

4. Assoc. Prof. OBAYASHI Saori
   Center for Global Initiatives, Osaka University

List of Speakers:
Strategic Partnership Showcase Examples

5. Prof. Tsuchiya Motohiro
   Vice-President for Global Engagement, Keio University

6. Prof. Konomi Natalie
   Vice President, Professor / Manager, Global Strategies Office, Kyushu University

7. Prof. Toda Tatsuki
   Dean / Professor, Faculty of Science and Engineering, Soka University

Closing Remarks

Prof. KIHARA Genta
Executive Vice-President, Osaka University

2nd Strategic Partnership Symposium
How to deepen the partnership in various aspects

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Japan Forum for Internationalization of Universities
“Building a Network of ‘Strategic Partnerships’ to Strengthen International Competitiveness among Japanese Universities” Project

2nd Strategic Partnership Symposium
How to deepen the partnership in various aspects

Friday, March 3, 2023 17:30-20:00 (JST)
Virtual Meeting
Language: English (Simultaneous translation into Japanese will be available)

The University of Tokyo proposed the “Building a Network of ‘Strategic Partnerships’ to Strengthen International Competitiveness among Japanese Universities” as a project for the Japan Forum for Internationalization of Universities and plans to widely disseminate information by sharing the challenges and good practices with other universities through the enhancement of horizontal cooperation. Through this project, the universities plan to enhance the recognition of Strategic Partnerships and the international presence of the universities of Japan.

This year’s symposium will provide an opportunity to think how to deepen the Strategic Partnerships in various aspects including exchange of people with different functions such as researchers, students or non-academic staff, or synergy between bilateral partnerships and other alliances, consortia and networks of higher education institutes.

Registration
Please register via the following link.
Pre-registration required

Membership University
The University of Tokyo, Tohoku University, Kyoto University, Osaka University, Kyushu University, Ehime University, Waseda University, Keio University, Soka University

Organized by Division of Global Campus Initiatives, UTokyo (intl-project.adm@psu.u-tokyo.ac.jp)

2nd Strategic Partnership Symposium
How to deepen the partnership in various aspects

Program

17:30 Opening Comments
Prof. HAYASHI Kaoru, Executive Vice President, Director General of the Division for Global Campus Initiatives, The University of Tokyo

17:34 Opening Address
Mr. KOBASEYOSHI Yosuke, Director, International Affairs Division, Higher Education Bureau, Ministry of Education, Culture, Sports, Science and Technology - Japan

17:38 Guest Lecture 1
Global Engagement and Strategic Partnerships at Universities
Prof. YONEZAWA Akiyoshi, Professor, Vice Director, International Strategy Office, Tohoku University

18:05 Guest Lecture 2
Prof. Geraint REES, Vice-Provost, University College London

18:35 Panel Discussion
Prof. YONEZAWA Akiyoshi, Professor, Vice Director, International Strategy Office, Tohoku University
Prof. Geraint REES, Vice-Provost, University College London
Prof. WATANABE Satoshi, Special Advisor to the President, Deputy Director General of the Division for Global Campus Initiatives, The University of Tokyo
Assoc. Prof. OYAGASHI Saori, Center for Global Initiatives, Osaka University

19:00 Break

19:05 Strategic Partnership Showcase Examples
Keio University “The Current State of Keio University’s Strategic Partnerships”
Prof. Tsuchiya Motohiro, Vice-President for Global Engagement, Keio University

Kyushu University “Leveraging our network of partners - Strategic partnerships and Consortia”
Prof. KONOMI Natalio, Vice President, Professor / Manager, Global Strategies Office, Kyushu University

Soka University “Strategic Interdisciplinary Partnerships through SATREPS Projects with Asian and African Countries towards Building a Recycling Oriented Society”
Prof. TODA Tatsuki, Dean / Professor, Faculty of Science and Engineering, Soka University

19:50 Q&A Session

19:55 Closing Remarks
Prof. KAWAHARA Genta, Executive Vice President, Osaka University
戦略的パートナーシップシンポジウム (第2回)
戦略的パートナーシップによる多面的な連携深化
2023年3月3日（金）17:30-20:00
オンライン形式（Zoomウェビナー）

参加登録
下記URLより参加登録手続きをお願いいたします。

使用言語：英語もしくは日本語（日英の同時通訳あり）

2021年度に「大学の国際化促進フォーラム」事業として採択された国際競争力強化に向けた「戦略的パートナーシップ」のネットワーク構築プロジェクトが開始しました。本プロジェクトは、新潟の東京大学と各大学が連携協力し、各大学が実施している戦略的パートナーシッププロジェクトの課題やベスト・プラクティス等を共有し、ネットワーク構築を進めることで、大学間の国際通貨性・競争力向上を図ります。

今年のシンポジウムでは、各大学でこれまで展開されてきた戦略的パートナーシッププロジェクトの事例を報告するとともに、戦略的パートナーシップによる多面的な連携深化について、研究者・学生・職員など様々なレベルでの交流や、パートナーシップと他の大学ネットワークとの融合を含む、戦略的パートナーシップの実施について考える契機とします。

Program

17:30 開会挨拶
林 香里  東京大学 理事・副学長、グローバルキャンパス推進本部長

17:34 随堂挨拶
小林 洋介 文部科学省 高等教育局 参事官（国際担当）

17:38 国内ゲスト講演
米澤 彰純  東北大学 教授、国際戦略室副室長
「大学のグローバル・エンゲージメントと戦略的パートナーシップ」

18:05 海外ゲスト講演
Prof. Geraint REES, Vice-Provost, University College London
「海外ネットワークの活用～戦略的パートナーシップと国際コンソーシアム～」

18:35 パネルディスカッション・質疑応答
米澤 彰純  東北大学 教授、国際戦略室副室長

19:00 休憩

19:05 戦略的パートナーシップ事例紹介
慶應義塾大学「慶應義塾大学の戦略的パートナーシップの現状」
土屋 大洋  慶應義塾 常任理事

九州大学「海外ネットワークの活用～戦略的パートナーシップと国際コンソーシアム～」
許藤 ナタリ 九州大学 助教授、国際戦略企画室

創価大学「循環型社会構築を目指したアジア・アフリカ諸国とのSATREPSプロジェクトによる分野横断戦略的パートナーシップの推進」
戸田 龍樹  創価大学 教授・理工学部長

19:50 質疑応答

19:55 閉会挨拶
河原 泰太  大阪大学 理事・副学長
Guest Lectures

Global Engagement and Strategic Partnerships at Universities
大学のグローバル・エンゲージメントと戦略的パートナーシップ

Akiyoshi Yonezawa, Tohoku University
米澤彰純 （東北大学）
akiyoshi.yonezawa.a4@tohoku.ac.jp

Outline

1. Japan's context on the global engagement of universities
2. Japan's context on university strategy
3. The value of international partnership in realizing global engagement
4. What will be the strategic approach to achieve the above-mentioned goals and objectives?

Outline

1. 日本の大学のグローバル展開
2. 日本の大学と戦略
3. グローバル・エンゲージメントを実現するための国際的なパートナーシップとその意義
4. 上記の目標や目的を達成するために、どのような戦略的アプローチを取り得るのか？
What is global engagement?

グローバル・エンゲージメントとは？

Global engagement (Helms & Rumbley in Rumbley et al. 2014)
- Commitment to meaningful relationships with partners in other parts of the world.
- A movement beyond the mechanics of carrying out more traditional campus-based international activities.
- Dedication to a deeper and more prolonged commitment to international partnerships for mutual benefit.

Outward engagement as a new mode of internationalization
- Spreading institutional research through branch campuses, research centers, and distance delivery.
- Competing for global ranking and market share.
- Collaborating for joint projects, resource sharing, and mutual benefit.

Global engagement is not a new topic for Japan’s HE

グローバル・エンゲージメントは日本の大学にいつしかテーマになったか？

- By 1970s: Advanced model of modernization in East Asia → WWII → Avoidance of assimilation policy to other countries.
- 1980s: International cooperation in higher education that respects the autonomy of the partners and emphasizes long-term relationships.
- 1990s: Contribution to the world through basic science → recent rush of Nobel Prizes.

Pressure of the global and regional economy

世界経済・地域経済の圧力

- World Class University / Academic Excellence Initiatives
  - Active and systemic WCU policies in East Asia.
  - University rankings → widening participation pose pressures to matured, non-English speaking systems.
- Activated global and regional engagement with multilateral initiatives.

Acceptance of International Students

留学生の受け入れ

- Presence in share in students across borders - 100,000 by 2020 - 300,000 by 2020.
- Advanced human resource development (STEM).
- Self-financed students attracted by Japan’s economy, society and culture.
- Japanese language, vocational training.
- Incentives: more for human resource development linked with Japan’s economy and society rather than income generation through HE service export.
- Strengthened link with international (global, & regional) research/industrial collaboration.

What values can Japan’s universities share with international students and partners?

日本の大学は留学生と国際パートナーと、どのような価値を共有できるのか？

- Japan’s context on the global engagement of universities
- Global engagement not a new topic for Japan’s HE
- Pressure of the global and regional economy
- Acceptance of International Students
- What values can Japan’s universities share with international students and partners?
### International students (world) (thousands, 2020)

OECD Education at a Glance 2022

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>US</td>
<td>957</td>
</tr>
<tr>
<td>2.</td>
<td>UK</td>
<td>551</td>
</tr>
<tr>
<td>3.</td>
<td>Australia</td>
<td>458</td>
</tr>
<tr>
<td>4.</td>
<td>Germany</td>
<td>369</td>
</tr>
<tr>
<td>5.</td>
<td>Canada</td>
<td>323</td>
</tr>
<tr>
<td>6.</td>
<td>France</td>
<td>252</td>
</tr>
<tr>
<td>7.</td>
<td>China</td>
<td>225</td>
</tr>
<tr>
<td>8.</td>
<td>Japan</td>
<td>223</td>
</tr>
<tr>
<td>9.</td>
<td>Türkiye</td>
<td>185</td>
</tr>
<tr>
<td>10.</td>
<td>Netherlands</td>
<td>125</td>
</tr>
</tbody>
</table>

(Source: JASSO)

### International students (Japan) (2020)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>China</td>
<td>114,255</td>
</tr>
<tr>
<td>2.</td>
<td>Vietnam</td>
<td>49,469</td>
</tr>
<tr>
<td>3.</td>
<td>Nepal</td>
<td>18,825</td>
</tr>
<tr>
<td>4.</td>
<td>South Korea</td>
<td>14,247</td>
</tr>
<tr>
<td>5.</td>
<td>Indonesia</td>
<td>5,792</td>
</tr>
<tr>
<td>6.</td>
<td>Taiwan</td>
<td>4,887</td>
</tr>
<tr>
<td>7.</td>
<td>Sri Lanka</td>
<td>3,762</td>
</tr>
<tr>
<td>8.</td>
<td>Myanmar</td>
<td>3,469</td>
</tr>
<tr>
<td>9.</td>
<td>Bangladesh</td>
<td>3,095</td>
</tr>
<tr>
<td>10.</td>
<td>Mongolia</td>
<td>2,619</td>
</tr>
</tbody>
</table>

(Source: JASSO)

### Sending students abroad, internationalization at home/virtual

- Inward looking attitudes among Japanese students / less threats of brain drain until recently
- 2010s: Global Human Resource movements as agents of Japan’s economy
- 2010s: 日本経済の担い手としてのグローバル人材

### Drastic changes in global/regional/national contexts under digitalization

- デジタル化のもとでのグローバル/地域/国の文脈の激変が、高等教育と社会全体に波及

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**Collaborating through international partnerships**

for higher education capacity development

King Mongkut’s Institute of Technology Ladkrabang – Tokai University and others

Source: Tokai University website

Jomo Kenyatta University of Agriculture and Technology

Source: JICA website

**Kayashima et al. (2022)**

**Type A**

- universities in Japan

**Type B**

- universities in Japan

**TOP GLOBAL UNIVERSITY JAPAN**

- JICA project

**Empower Wisdom for Providers**

- collaborate with universities and other organizations to provide services and solutions for providers.
Developing the capacity to strategize

- Strategic Fund for Establishing International Headquarters in Universities (SiH)
- Global 30 Project
- Top Global University Project
- Japan Forum for Internationalization of Universities
- Japan Virtual Campus (JV-Campus) Pilot Program

Sharing resources to accelerate internationalization
- Program for Promoting the Enhancement of Research Universities
- Designated National Universities
- Universities for International Research Excellence

Increasing learners with international experiences
- Council for the Creation of Future Education
- Central Council for Education

To support young researchers in building an international network infrastructure through flexible initiatives by initiatives for young researchers, support is provided for short-term travel to overseas researchers for a month or so, and the holding of international symposia.

The goal is to build an international network infrastructure by traveling to benchmark institutions (6 institutions) × overseas partner institutions (33 institutions) to conduct international joint research.

To aim to publish international co-authored papers and build long-term relationships with overseas researchers. After returning to Tohoku University, follow-ups will be conducted to encourage participation in the "Junior Research Program," holding regular symposiums with the institutions of the destination country, etc.

Online Networking (2022)

Participate in online meetings of the overseas research group on a regular basis, and conduct or aim to conduct international joint research.

The value of international partnership in realizing global engagement

Global engagement as a part of stakeholder engagement

- Activism: Disenfranchised investors call for changes in organizational management
- Stewardship: Supporting long-term success that enables the sustainable prosperity of the funder
- Engagement: Purposeful dialogue between investor and company for mutual sustainable prosperity

Engage directly with diversified internal/external stakeholders more to the global and regional dimensions in addition to national and local dimensions

The world is no longer black and white, and the global and regional dimensions have become more significant.
What will be the strategic approach to achieve the above-mentioned goals and objectives?

上記の目標や目的を達成するために、どのような戦略的アプローチを取り得るのか？

- **With whom?**: specify your stakeholders/partners
- **Resources?**: knowledge and human resources can be created and developed at your university with various partnership
- **Sustainability?**: contribute and take initiatives in the formation of ecosystem for global knowledge / well-being

### The value of international partnership in realizing global engagement

グローバル・エンゲージメントを実現するための国際的なパートナーシップとその意義

(Sutton, Egginton & Favela, in Deardolf et.al. 2012)

- Making a good institutional match, based on mission, strengths, community connections, and partnership goals
- Devoting time to building and sustaining the relationship, communicating frequently, dealing with disagreement, and maintaining trust through fairness, integrity, and the honoring of commitments
- Operating on the basis of shared decision-making, reciprocity, mutual benefit, and collaborative determination of goals and projects
- Clarifying what is to be provided by each side in a transparent manner that also addresses possible inequities of resources and imbalances in exchanges
- Spreading activities across multiple arenas, engaging multiple constituencies, and building a large network of supporters
- Flexibility, adaptability, and openness to change
- Engaging relevant decision-makers and supporting the partnership through an overall institutional partnership strategy, as discussed in the next section

### Institutional Partnership Strategy

組織全体のパートナーシップ戦略

- Making an inventory of existing affiliations
- Establishing a partnership approval process articulating overall partnership goals and strategies
- Spreading a culture of partnership
- Developing policies, procedures, and organizational structures for managing partnerships
- Providing financial and other support
- Thoughtful practices for initiating partnerships
- Well-crafted MOUs and Implementation Plans
- Thoughtful practices for sustaining partnerships
- Procedures and benchmarks for reviewing, revisiting, and terminating partnerships

### Ethical principles test

- Risk and benefits
- Exploitation
- Standard of education

### Digital transformation, College (un)bound

Digital transformation, College (un)bound

### Change in talent and resource opportunities

Change in talent and resource opportunities

### Global Engagement

Global Engagement

### Expansion of global & regional dimensions

Expansion of global & regional dimensions

### Organizational Reforms: Management, governance & accountability

Organizational Reforms: Management, governance & accountability

"One size fits all" doesn’t work!

汎用的な解決策は存在しない！
Discussion

- **Challenge the hegemonic view of globalization**
- **Interactive global conversation: International partnerships hold promise for addressing critical global issues while respecting different cultures and ideas in a highly diverse and interconnected world.**
- **Each university has the rationality to construct and constantly evolve, go beyond what any one institution could do alone.**
- **Use this opportunity to develop the capacity of our members**

We need to think seriously about how we can attract and nurture internal and external community members, and develop international partnerships for global well-being.

学内外のコミュニティメンバーをどのように集め、育成していくか、また、グローバル・ウェルビングのために国際的なパートナーシップをどのように展開していくのか、真剣に考えなければならない。

Reference

- **ACE. Mapping Internationalization on U.S. Campuses: 2022 Edition. ACE**
- **Deardorff, D.K. et al. (Eds.) (2012). The SAGE Handbook of International Higher Education. SAGE.**
- **Education Insight. Global Engagement Index [https://www.educationinsight.uk/].**
- **Fumasoli, T., & Huisman, J. (2013). Strategic agency and system diversity: Conceptualizing institutional positioning in higher education. Minerva, 52, 155-169.**
- **Kayashima, N. et al. (Eds.) (2022). Japan’s International Cooperation in Education. Springer.**
- **Knight, J. (2022). Knowledge Diplomacy in International Relations and Higher Education. Springer.**
UK and Japan - national and international overviews

- Post-Brexit - challenges and focuses
  - UK government – the 1st post-Brexit trade deal signed was with Japan (2020)
  - UK foreign policy on “Indo-Pacific tilt” (2021)
  - New Ministry of Science, Innovation & Technology & announcement of International Science Partnership Fund (2022-3)

- Japan’s excellent capacity
  - Total expenditure (in 2020) on R&D £128 billion; 3.59 GDP, 72% (£92 billion) from the private sector
  - 951,000 researchers; 5th in 2021 Nature Index (UK is the 4th!); 13th in Global Innovation Index.

- Research landscape of UK-Japan collaboration
  - In all fields, UK-Japan research quality 3.5 times > the world average; in medicine, 6.5 times > the world average
  - UK is Japan’s 4th biggest research collaborator
  - Japan is UK’s 14th biggest research collaborator
  - With the size and excellence of research in Japan, it’s a missed opportunity!

Advantages and challenges - institutional level

Advantages
- Career security and progression under a clear academic career framework
- 50% of students are international. Global experience embedded curricula
- London’s global university – location, research environment
- Shared visions: UCL’s six ‘Grand Challenges’ (UCL 2034) and commitment to SDGs
- Similar and comparable structures, funding paradigm, and outlook

Challenges
- Community – ensuring we attract and keep the right staff and students, people fundamentally disposed toward international co-operation
- Culture – ensuring that the internationally focused disposition of our people is reflected in our strategies and celebrated by our institutions
- Capabilities – making sure that our systems and processes both align with the global aspects of our strategy and incentivise individuals to pursue global collaboration

Opportunities
- Resources and support for language study options at UCL to initiate and nurture cultural competency. Global mobility opportunity in collaboration with partners
- Exploring joint offering in diversifying the curricula and expanding PhD global experiences, such as joint PhDs
- Exploring opportunities for staff mobility and capacity building

UCL and JAPAN - 从TSUNAGARI到共享

- Historical connections
  Which endure through time and accrue over time, and from which derive wonderful, often unexpected, legacies that can take time to emerge.
  - Choshu Five
  - Joji Sakurai: the first Professor of Chemistry at University of Tokyo, first non-British honorary fellow of UCL in 1937. (The recording of his speech)
  - Eric Satow (Satō Ainosuke 佐藤英之助) from a UCL student to Japan, to a British diplomat in Japan.

- Organic connections
  - 56% increase of collaborative publications 2013-2022
  - 270 students from Japan (2022/3) vs. 5 in 1870.

- Strategic partnerships
  - Academic partners:
  - Tohoku University: disaster science, data science, neuroscience, materials science, EDI, and higher education
  - Osaka University: global health and wellbeing, neuroscience, urban sustainable design, and society and education
  - Industry partners:
  - HORIBA: advanced propulsion
  - Eisai: neurodegeneration
  - Santen: ophthalmological diseases

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- Exploring opportunities for staff mobility and capacity building
Thank you for your attention.

End of presentation.

Advantages and challenges - national level

Advantages
- UK’s strongly incentivised international student number growth and an international outlook, the ‘silver lining’ resulting from insufficient government funding
- Both governments’ new funding schemes

Challenges
- Immigration schemes in support of global tablet acquisition
  - How to create the conditions to attract and retain people
  - How to align with research funding schemes and programmes
- State funding and tuition policy
  - How to alleviate stress on international tuition fee income
  - How to offset full-cost international tuition fees when implementing opportunities of global experiences for inbounds and outbounds students
  - The university ranking dilemma

Opportunities
- Bi-lateral/cross governmental funding and mechanisms to establish reciprocal talent flows, esp. for 6-12 month exchanges
- Supporting partner institutions’ applications to national funding (e.g. Japan’s Universities Endowment Fund and UK’s SDF)
- Supporting and enabling joint research and education grant applications to national and international funding agencies.
- The Haldane Principle – academic freedom and wisdom in piloting scientific pursuits

Advantages and challenges - international level

Advantages
- Shared focus and endeavour on research integrity and security
  - Similar contexts of government expectations, regulatory interventions, and media scrutiny
  - Trusted and like-minded partners
  - An international composition of the student body: 50:50 UK:International

Challenges
- Neighbouring research powerhouses (competitors & collaborators) – EU and China
  - Difficult political backdrop and geopolitical risk factors
- Under the international competitiveness –
  - How to convince our governments to have both a continental and global focus
- How to convince a short-term entity (a government) of the need to pursue long-term benefit

Opportunities
- The creation of Department for Science Innovation and Technology in the UK – where HEI leaders will lobby
- UK-Japan join force as global thought leaders, along with our common partners in the US, Australia, and Europe, to support academic mission of each nation
  - G7 and U7+ fora; Expo 2025
- Mobilising a global community in the framework of partnership to enhance global crisis management and support
Strategic Partnership Showcase Examples

The Current State of Keio University’s Strategic Partnerships

Keio University
Takatsu, Tokyo
Vice-President for Global Engagement
Keio University
3 March, 2023

Reflecting on Presentation (May 24, 2022):
“Building Strategic Partnerships: Another Approach”

<table>
<thead>
<tr>
<th>Partnership building</th>
<th>Inter-University MoUs / Student exchange agreements / Cross appointments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deepening connection</td>
<td>Short-term programs / Joint degree programs (DD) / Joint workshops</td>
</tr>
<tr>
<td>Multi-faceted collaboration</td>
<td>Symposia / Seminars / Collaborative research / Grant applications / International co-authorship</td>
</tr>
<tr>
<td>University consortium</td>
<td>Strategic partnership with consortium is one method</td>
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Keio University
Takatsu, Tokyo

University of Keio University
Institutional Strategic Partnerships
Longevity, Security, Creativity

Professor Motohiro Tsuchiya
Vice-President for Global Engagement
Keio University
3 March, 2023
Today’s Presentation: “The Current State of Keio University’s Strategic Partnerships”

Today’s presentation will look at Keio’s recent (around AY2022) global engagement activities through the lens of strategic partnership.

First, we will cover examples of consortium-level activities such as the U7+ Alliance of World Universities touched upon in the previous presentation on May 24.

Next, we will go over activities conducted with partner institutions and foreign embassies.

Finally, we summarize the advantages and characteristics of Keio University’s strategic partnerships, as well as challenges and future prospects.

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   Case 1: U7+ Alliance Presidential Summit on March 16, 17
   Case 2: Research University 11 (RU11) activities
   Case 3: Association of Pacific Rim Universities (APRU) activities

2. Long-term partnerships with partner universities: Collaborating with universities with similar characteristics
   Case 4: Japan-Korea Millennium Forum

3. Partnerships with foreign embassies and related organizations: Collaborating with foreign governments to form science and technology and higher education policies
   Case 5: Embassy of the Republic of Indonesia, Australian Embassy
   Case 6: Experience Japan Exhibition (EJE) held with the British Council

4. Summary: Challenges and prospects

Consortium Case 1: Hosting “U7+Alliance Presidential Summit”

What is the U7+ Alliance of World Universities?

The U7+ Alliance of World Universities is a consortium of research universities launched by Sciences Po during the 2019 G7 Summit. It consists of 52 universities in 19 countries around the world that share the same values.

The U7+ Alliance discusses global issues and makes proposals to the G7 and other world leaderships.

The Fifth Annual U7+Alliance Presidential Summit
The Pen is Mightier than the Sword: Universities as Engines of Innovation for Peace and Security
on March 16-17, 2023, at Keio University, Tokyo
Consortium Case 3: Commitments as an APRU Member University

What is the Association of Pacific Rim Universities (APRU)?
The APRU is a consortium of 60 research universities in 18 countries and regions of the Pacific Rim that was formed in 1997.

Key Commitments in AY2022
Annual President Meeting (July 6-9, 2022)
Senior International Leaders’ Meeting (October 17-19, 2022)
APRU Virtual Student Exchange
Asia Pacific Women in Leadership (APWIL)

APWIL Event ‘Exploring Intersectionality on International Women’s Day’
Co-host with The University of Melbourne (March 8, 2023)

[Link](https://apru.org/event/exploring-intersectionality-on-international-womens-day/)

Partner Universities Case 4: Japan-Korea Millennium Forum

What is the Japan-Korea Millennium Forum?
The Japan-Korea Millennium Forum was established the same year as the 2002 FIFA Korea/Japan World Cup soccer tournament. It is a meeting of presidents of four private universities in Japan and Korea (Korea University, Yonsei University, Waseda University, and Keio University).

The four universities rotate hosting duties. The Forum runs using corporate donations. Meetings were suspended from 2020–2021 due to the COVID-19 pandemic. Keio will host in 2023.

[Link](https://www.keio.ac.jp/en/news/2022/Nov/14/48-133418/)

[Image]

[Image]

[Image]

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[Image]

[Image]

[Image]

Foreign embassies and related organizations Case 5: Embassy of the Republic of Indonesia and the Australian Embassy

Embassy of the Republic of Indonesia
The Embassy visited Keio in May 2022 and introduced the Indonesian International Student Mobility Awards (ISIMA). Keio joined the ISIMA information meeting in September and was considering applying to be a host university. During the Experience Japan Exhibition (EJE) in November, Keio held a session for Indonesian students about the ISIMA. In January 2023, Keio applied to ISMA, and became a host university in February.

[Link]

Australian Embassy
The Embassy visited Keio in April 2022. During the November EJE, Keio held a session on the New Colombo Plan for Australian students.

[Link]
Foreign embassies and related organizations
Case 6: British Council

In November 2022, Keio invited members of the British Parliament to tour the university as part of the British Council’s (BC) political engagement program. In December, the UK Minister for Science, Research and Innovation, the British Ambassador, and others visited Keio University.

At “Campus Live Japan” hosted by THE (Times Higher Education) in December, Keio served as partner university and the BC as content partner.

Keio maintains a rich and storied relationship with the UK dating back to its days as a school of English studies. Keio as a whole has a total of 20 agreements with UK universities. Keio hosted the pre-games training camps for Team GB and ParalympicsGB in 2021.

Summary: Advantages and Characteristics

Consortium partnerships allow for:
- A bigger impact than a single university is capable of
- The sharing of values with a global consortium of universities
- Joint involvement in common local issues (e.g. gender issues)
- Opportunities to strengthen relationships and create new alliances among member universities

Long-term partnerships with partner universities allow for:
- Concrete proposals based on long-standing relationships of trust
- Top-down decision-making

Partnerships with foreign embassies and related organizations allow for:
- New opportunities that arise from a given country’s higher education and science and technology policy needs

Summary: Challenges and Future Perspectives

Consortium partnerships: Collaborating with groups of universities that share values
Long-term partnerships with partner universities: Collaborating with universities with similar characteristics
Partnerships with foreign embassies and related organizations: Collaborating with foreign governments to form science and technology and higher education policies

These foundations are, ultimately, continuations of preexisting partnerships and the results of built-up exchange.

Challenges
Maintaining foundations: Keeping up relationships and communication with existing partners
Passive, transitory, or difficult to sustain partnerships: Lack of leaders among researchers and inadequate support systems for leaders (particularly in collaborative research)

Future Perspectives
Utilizing foundations effectively (over 300 agreements): Evaluation and prioritization of existing partnerships
Strategy: Clarification of objectives for each partnership
Sustainable structure: Human resources, structure, and budget

Foreign embassies and related organizations
Case 6 (continued): Experience Japan Exhibition (EJE)

From 2011 to 2019, Keio co-hosted the Education in Japan Fair (EJE) in London with the British Council.

10–15 Japanese universities held booths attended by 500–600 people. Keio collaborated with the Japanese Embassy in the UK, JSPS, scholarship organizations, etc.

The EJE was held online from 2020.

More than 20 Japanese universities held booths attended by 1,000–2,000 participants from Asia and around the world

Seminars hosted by the Embassy of the Republic of Indonesia, the Australian Embassy, and the University of Tokyo India Office
Thank you for your attention.
Partnerships >> Strategic

Kyushu-Illinois

Kyushu University and the University of Illinois Urbana-Champaign reached an agreement to be strategic partners and promote mutually beneficial and sustainable collaborations.

Phase 1
- 2010 WPI-I2CNER
- Decade partnership

Phase 2
- August 2019 Strategic Partnership
- 2020 WPI Academy

Phase 3
- 2021 Kyushu-Illinois Strategic Partnership Colloquia Series (Online)
- 2022-2023 Joint Fund

Joint fund to support and expand collaborations between both institutions

5 Areas of Collaboration
- Smart Grid and Sustainable Energy
- Environmental Economics
- Data Science/Data Management and Curation
- Library Science
- Humanities

Activities

Monthly Meetings
Leadership Call
Lectures
Expert Meetings
JOT Intern
OIA’s regular contact
Student exchange
Papers and Grants

International Consortia
61 Universities Acting Together for Global Impact

Aim: To bring together thought leaders, researchers, and policy-makers to discuss and develop 21st century solutions

Outcomes

A Carbon Neutral Society Action Month
- 5-week webinar series (May-June 2022) bringing together a diverse group of experts and researchers to "realize a decarbonized society"
- Aim 1: To encourage brainstorming, cross-disciplinary dialogue, and collaborative problem-solving
- Aim 2: To launch a long-term program that promotes interdisciplinary collaboration between early career researchers (ECRs) from diverse fields

APRU SDG Education for Global Citizenship
- An intercultural, transdisciplinary and interactive program that builds knowledge of global issues and global literacy among students
- Kyushu U is one of the core partners alongside of Chulalongkorn University, The Chinese University of Hong Kong, Shanghai Jiao Tong University, Simon Fraser University and Universiti Malaya

61 Universities Acting Together for Global Impact

Aim: To bring together thought leaders, researchers, and policy-makers to discuss and develop 21st century solutions
Outcomes

MIRAI Research and Innovation Week 2022
- Hosted the conference at Ito Campus in November 2022
- First post-pandemic in-person meeting within the phase 2.0
- More than 300 representatives from universities, companies, ministries, foundations and research funding agencies gathered in Fukuoka
- Stronger connections with MIRAI universities and stakeholders in Sweden
- Promotion of Kyushu University’s Stockholm Liaison Office in Sweden (opened in 2020 as its European office)

MIRAI Seed-funding Project
- Strengthen MIRAI researcher collaboration
- Japan side receives approx. 400,000 JPY/project.
- Most submissions and approvals of all 20 member universities in the 2nd term of MIRAI seed-funding (2022)
- Excellent opportunity for ECRs to initiate joint research/ publication

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Outcomes

Introducing a Co-chair System
- Advantages of the introduction of co-chairs, with chairs in both Japan and the UK: raising RENKEI’s visibility to stakeholders, facilitating deeper and broader cooperation, supporting discussion among members, ensuring RENKEI's academic priorities are met
- Kyushu University and the University of Southampton as co-chairs for the first year (until March 2023)
- Many opportunities to communicate with UK member and non-member universities and UK governmental sectors

Fostering ECRs
- RENKEI ECR fellowship program as a part of its 10th anniversary project.
- Kyushu University sent two students and a mentor professor with travel grant support

Thank you

Prof. Natalie Konomi
Vice President
konomi.natalie.909@m.kyushu-u.ac.jp
Strategic Interdisciplinary Partnerships through SATREPS Projects with Asian and African Countries towards Building a Recycling Oriented Society

Tatsuki Toda, Prof. Dr.
Faculty of Science and Engineering, Soka University

SATREPS: S\text{cience} and T\text{echnology R\text{esearch}} Partnership for S\text{ustainable Development}

SATREPS is a Japanese government program that promotes international joint research, structured as a collaboration between the Japan Science and Technology Agency (JST) and the Japan International Cooperation Agency (JICA), which provides development assistance (ODA).

- 1. International Cooperation
- 2. Addressing Global Issues and Advancing Science
- 3. Capacity Development

The Project for Continuous Operation System for Microalgae Production Optimized for Sustainable Tropical Aquaculture (COSMOS) (Malaysia)

Accumulation of sludge in aquaculture pond

PLANkton Eco-engineering for Environmental and Economic Transformation (PLANE3T) (Ethiopia) / "Eco-engineering for Agricultural Revitalization Towards improvement of Human nutrition (EARTH)" in Ethiopia

Water hyacinth overgrowth in Lake Tana
Background: Rapid growth of aquaculture industry in Malaysia

- Rapid increase in production by governmental policies
  - Government goal by 2010 (NP3)

**Needs for aquaculture industry**

- Create high-value products
- Promote export of bioresource
- Guarantee food safety (HACCP)

**Market price (US$/ton)**

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<td>3.00</td>
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<td>4.00</td>
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</tbody>
</table>

Establishment of sustainable tropical aquaculture system by incorporating microalgae mass culture

1. High CO₂ fixation capacity (more than 20-fold of terrestrial plants)
2. Production of high-value products (health supplements, functional food, medicine source, etc.)
3. Utilization of nitrogen and phosphorous in sludge and wastewater (mitigating water pollution)

**Research Structure of COSMOS**

- **Fundamental science of tropical microalgae**
  - Screening, Isolation, Life cycle, High-value products

- **Needs for aquaculture industry**
  - Create high-value products
  - Promote export of bioresource
  - Guarantee food safety (HACCP)

- **Theme 1. Bio-prospecting of High-value Indigenous Microalgae** (University of Tokyo—UMT)
  - High-value products

- **Theme 2. Survey of Natural Growth-promoting Substances** (NIES—UNISEL)
  - Humic acids and other complex compounds

- **Theme 3. Development of a Novel Photobioreactor** (Soka Uni. & UPM)
  - Sustainable aquaculture, LCA-LCC

- **Theme 4. Development of a Nutrient Recycling System** (TI Tech—UPM)
  - Nutrient recovery technology, Sustainable aquaculture, LCA-LCC

**Sustainable Aquaculture System Combined with Microalgal Mass-culture**

- **(1) Bio-prospecting of High-value Native Microalgae** (U. Tokyo. & UMT)
- **(2) Survey of Natural Growth-Promoting Substances** (NIES & UNISEL)
- **(3) Development of a Novel Photobioreactor** (TI Tech & UPM)
- **(4) Nutrients recovery from aquaculture pond sludge** (TI Tech & UPM)

Production of high-value microalgae using nutrients from aquaculture sludge

Sustainable Aquaculture
The PROJECT for Eco-engineering on Agricultural Revitalization Towards Human Health Improvement (EARTH): Transforming Water Hyacinth to Energy and Nutrition

Conservation of lake ecosystem and biodiversity, and utilization of water hyacinth

→ Federal and local governments investing huge budget and human resources every year to remove water hyacinth
→ Difficult to eradicate because of fast proliferation

National Water Hyacinth Eradication Campaign
2012 ~ 2018
Total number of labor: 1 million people
Total labor cost: 100 million Ethiopia Birr ($2.6 mil)

Management and effective utilization of overgrown water hyacinth in Lake Tana, Ethiopia

Overgrown water hyacinth

Eutrophication
Organic wastewater
Population growth

Modern sustainable recycling society in Africa

Fuel (biogas, electricity)
Utilization of carbon and nutrients

Animal feed / Nutrient-food
Microalgae cultivation

Effluent
Anaerobic digestion
Pyrolysis

Soil amendment / Crop production

Biochar

Conservation of lake environment
Restoration of biological diversity
Sustainable harvest

https://allafrica.com/stories/201709060104.html

National problems and policies in Ethiopia

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Soil amendment / Crop production

Biochar

Conservation of lake environment
Restoration of biological diversity
Sustainable harvest

https://allafrica.com/stories/201709060104.html
Spirulina originated in Ethiopia
Arthrospira fusiformis

『Superfood』

- High protein (50~70% dry weight)
- Whole essential amino acids
- 10 kinds of Vitamins (including Vitamin B12)
- Rich minerals such as iron and zinc

- 1 g/day for 6 weeks intake → Improvement of malnutrition
  (Antenna Technology, 2007)
- Productivity: 150~250 kg dry weight/ha/day → 20 times more protein productivity than soybeans
  (Taberumo Co., Ltd., 2018)

Capacity Development Activities

(1) Equipment installation at Malaysian research institute
(2) Short-term training for Malaysian researchers in Japan
(3) Workshop, seminar, symposium and outreach activities
(4) Promotion of career advancement of young researchers

Manual & Protocol

11 manuals
Research article: **102** (Co-authored with Malaysian researcher: **40**)
Patents: **13**
Awards: **29**
Mass media (newspapers, TV, etc.): **21**

Master’s or Ph.D. holders from research institutes on the Malaysian side:

<table>
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<th>Research Groups</th>
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<th>Graduated PhD</th>
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<td><strong>8</strong></td>
<td><strong>16</strong></td>
<td><strong>18</strong></td>
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**31 MSc + 26 PhD**  
**Total 57**
2nd Strategic Partnership Symposium

How to deepen the partnership in various aspects

Friday, March 3, 2023
The University of Tokyo

Compiled and Published by:
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Strategic Partnerships Project Websites:
English: https://www.u-tokyo.ac.jp/en/academics/sp-uni.html
Japanese: https://www.u-tokyo.ac.jp/ja/m5-activities/exchanges/sp-uni.html

All the information on this report is dated March 3, 2023.