

Initiatives and Outcomes Research and Education

Increased international co-authorship and the number of papers written in English by promoting international integrated research between the humanities and the sciences through the three initiatives of "Longevity," "Security," and "Creativity" with KGRI as the core

The Keio University Global Research Institute (KGRI) was established in November 2016 as a research organization to bridge faculties and graduate schools across the university. At KGRI, we will collaborate closely with Keio's academics and researchers to promote integrated education and research related to the three transdisciplinary initiatives of "Longevity," "Security," and "Creativity," and extensively share these research findings with the international community, thereby establishing a system to further advance Keio's domestic and international research collaboration.

As part of efforts to accelerate research in these global initiatives, KGRI launched the "Research Grants for Global Initiative Research Projects," an autonomously-funded research grant system at Keio.

In addition, KGRI implemented the "KGRI Caravan," an initiative which aims to facilitate visits to overseas universities and organizations with excellent research capabilities to introduce Keio's research and develop collaborative relationships. The initiative has resulted in the signing of collaborative research agreements with world-class research universities.

These university-wide efforts to promote international integrated research between the humanities and the sciences have led to a steady increase in Keio's international co-authorship and the number of papers written in English.



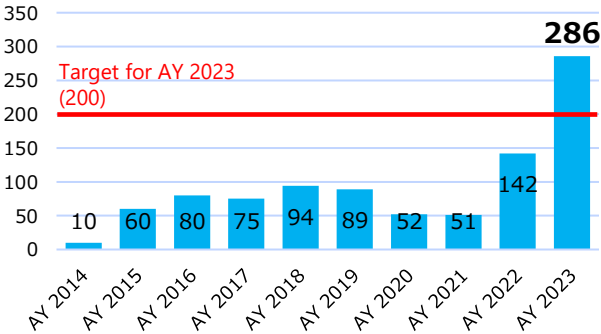
Expansion of opportunities for students to receive research guidance from overseas researchers and the creation and promotion of international joint research and co-authored papers through the appointment of guest professors (global) using a cross-appointment system

The university established and commenced full operation of its cross-appointment scheme, the Guest Professor (Global) program, to employ researchers from abroad as visiting research co-advisors to advise graduate students at Keio.

The total number of appointments by AY 2023 exceeded 900, providing many graduate students with opportunities to receive guidance from overseas researchers and promoting international joint research. The knowledge that Keio has accumulated with regards to providing online teaching and instruction since AY 2018 bore fruit as students were able to leverage it and turn it into an opportunity to seamlessly receive guidance from abroad even in the midst of the COVID-19 pandemic. Therefore, this program maintained Keio's momentum in internationalization even during the COVID-19 pandemic.

In addition, as a result of the constant fine-tuning and refinement of the program through the analysis of the "Guest Professor (Global) Final Report," the level of satisfaction with the program for AY 2023 averaged at 4.9 points out of a full score of 5 points among both guest professors and host faculty members. The program will continue as the Global Faculty Program even after the Top Global University Project has concluded.

Number of Guest Professor (Global) Appointments (Top Global University Project performance indicator)



Establishment of a support system for university-launched startups with a top-class track record in Japan

The number of Keio-launched startups totaled 291 companies in FY 2023, an increase of 55 companies compared to the previous year, bringing Keio from third place in the previous year to second place in the ranking of Japanese universities based on number of university-launched venture businesses according to the Ministry of Economy, Trade and Industry's Survey on University-Developed Venture Businesses. Keio's startup funding rose to 51 billion yen, ranking first among Japanese universities according to the Japan Startup Finance 2023 report by INITIAL.

Keio Innovation Initiative (KII), the university's official venture capital, was established in December 2015. Since AY 2016, it has established several funds to support real-world implementation of research findings and solutions to social issues. Furthermore, in October 2023, KII established the KII No. 3 Impact Fund (of approximately 20 billion yen), the first impact fund for a university's venture capital, and is working with the startups in which it has invested on impact measurement and management (IMM) in compliance with international standards.



Number of Keio-launched Startups

291 companies | 2<sup>nd</sup> among Japanese universities

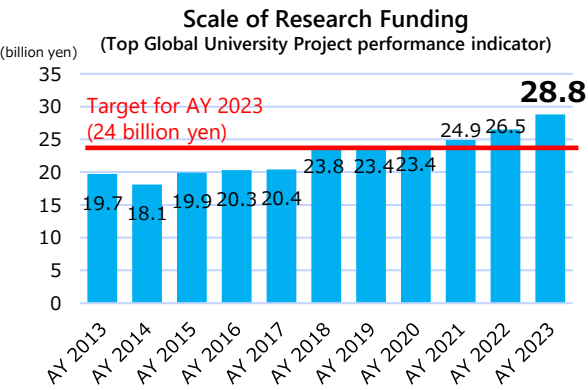
Ministry of Economy, Trade and Industry "FY2023 Report Compiled on Results of the Survey on University-Developed Venture Businesses"



Expanded research funding by acquiring large-scale funding

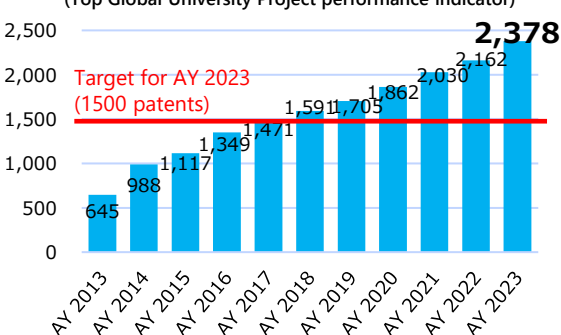
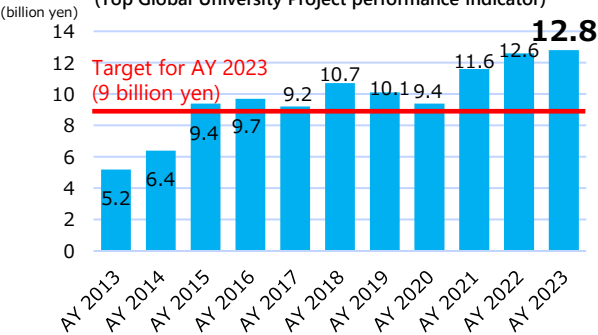
The total amount of research funding was 19.7 billion yen in AY 2013, but by AY 2023, the amount reached 28.8 billion yen, an increase of about 46% from the initial amount and far exceeding the target of 24 billion yen for AY 2023. One key reason for the expansion was the selection of the Human Biology-Microbiome-Quantum Research Center (Bio2Q) under the World Premier International Research Center Initiative (WPI) in AY 2022, the first among private universities in Japan. The center was also selected for the Program for Forming Japan's Peak Research Universities (J-PEAKS) in AY 2023. In addition, strengthened ties with world-class universities and overseas corporations have led to an increase in research funding.

The amount of industry-academia commissioned research funds also expanded from 5.2 billion yen in AY 2013 to 12.8 billion yen in AY 2023, far exceeding the target of 9 billion yen. To further promote industry-academia collaboration at Keio, the Keio University Office of Innovation and Entrepreneurship was established in November 2018. The office serves as a groundbreaking platform for the creation of advanced knowledge-intensive industries in collaboration with industry partners by forming an innovation ecosystem based on the accumulated knowledge, technology, and professional talent at the university. The Startup Division was set up within the office in 2021, and in 2023, it was merged with the Intellectual Property Division in order to strengthen intellectual property management which forms the basis of industry-academia collaboration. With the strengthening of this system, in addition to support for entrepreneurship by faculty members and other staff based on Keio's research outcomes, support for educational activities and awareness campaigns to foster entrepreneurship has taken off dramatically. In AY 2023, the cumulative number of patents registered in Japan and overseas as part of intellectual property rights resulting from Keio's research outcomes totaled at 2,378, far exceeding the final target of 1,500.

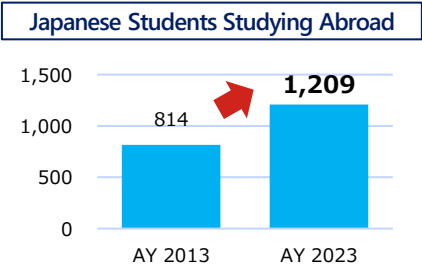
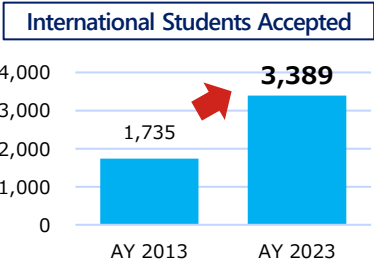


Amount of Industry-Academia Commissioned Research Funds  
(Top Global University Project performance indicator)

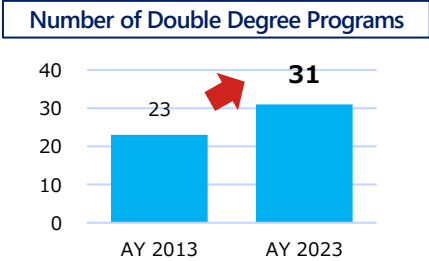
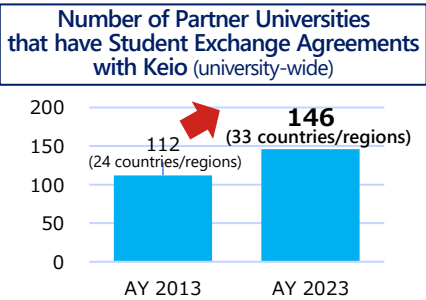
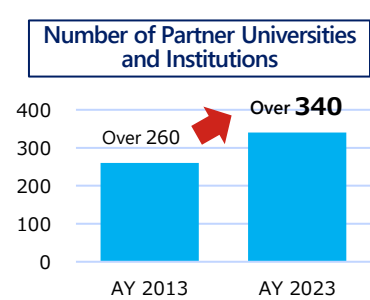
Cumulative Total of Domestic and Overseas Patent Registrations  
(Top Global University Project performance indicator)



Increase in student mobility/study abroad



\*Numbers for both international and Japanese students are indicated for the full academic year. For international students, short-term international students without a student visa—i.e., those without the "Student" status of residence—are counted in the total number, in addition to those with the "Student" status of residence. For Japanese students studying abroad, only those who have earned credits at overseas universities and institutions are counted in the total number.



Degree programs in English: PEARL / GIGA, etc.

The Programme in Economics for Alliances, Research and Leadership (PEARL), established in September 2016, is a degree program taught in English that allows students to study economics over a four-year program at the Faculty of Economics. In addition, the Global Information and Governance Academic Program (GIGA), established in September 2011 by the Faculty of Environment and Information Studies, has also been offered by the Faculty of Policy Management from AY 2015, thus expanding the range of degree programs offered in English at Keio under the Top Global University Project. With the establishment of these degree programs in faculties and graduate schools, the number of students enrolled in courses that allow students to graduate by studying only in English has reached 1111, far exceeding the target for AY 2023 (600 students). By having lectures taught in English, international students are able to study in a more conducive learning environment while Japanese students taking such courses can immerse themselves in an international setting.



Establishment of all-English Global Interdisciplinary Courses (GIC)

The Center for Global Interdisciplinary Courses (GIC) was set up under the Top Global University Project and began accepting students from all faculties since AY 2015. It provides programs and courses to study international and interdisciplinary issues in English and other languages.

The GIC has increased the number of courses offered in foreign languages at Keio, and the number of students enrolled in GIC accredited courses offered by the various faculties, graduate schools, and the center has hit more than 10000 per year. Going forward from AY 2024 onwards, the center will continue to provide a place of learning where people from diverse backgrounds, including international students, can gather and discuss global issues from various academic perspectives, regardless of their field of specialization.



Support for Japanese students who wish to study abroad, including from other universities, through early roll-out of vaccinations at workplaces

In July 2021, Keio took the lead in implementing a workplace vaccination program with the cooperation of the School of Medicine, Faculty of Nursing and Medical Care, and Faculty of Pharmacy. By providing priority vaccination to those aspiring to study abroad from the fall of that academic year, students not only from Keio but from other universities as well were able to realize their dreams.



Establishment of a project advancement system headed by Keio president and an information sharing system for Keio's various departments

In order to make steady progress in the implementation of the Top Global University Project, a university-wide meeting system was established to ensure that each faculty and graduate school fully understands and shares the vision of Keio's leadership, including the president, vice-president, and other executive officers. This will help speed up and execute reforms according to this vision across the entire university. From this perspective, the "Top Global University Project Office (Cluster Steering Committee, Personnel System Steering Committee, Research Training & Education Steering Committee, International Communications Committee) Joint Steering Committee" was held once a month, attended by the president, vice-presidents, faculty deans, graduate school deans, and all relevant secretariat offices. In addition, the "Top Global University Project Management Committee" was held in conjunction with the "Executive Board Meeting" to decide on matters pertaining to university organizations.

Furthermore, the "Global Engagement Office" was set up as a secretariat office supporting the Top Global University Project Office. Although the "Top Global University Project Office" was abolished at the end of AY 2023 with the conclusion of financial support for Top Global University Project initiatives, internationalization remains a key priority of Keio. As such, the "Global Engagement Office Expansion Meeting (formerly the Top Global University Project Management Committee)" which includes the president and vice-presidents, will continue to be held regularly from AY 2024 onward. Keio continues to maintain university-wide efforts toward further internationalization, such as through regular information sharing by the Global Engagement Office during board of directors' meetings and similar engagements, attended by faculty deans, graduate school deans, and other executive officers.





## Promoting Kyosei and advancing the SDGs (Mentoring Program, Keio University Student Conference, etc.)

The United Nations' "Sustainable Development Goals" (SDGs) are highly compatible with Keio's Top Global University Project vision, "Enhancing the sustainability of global society through *Jitsugaku* (science)." Keio has advanced initiatives toward the SDGs university-wide, including students, faculty and staff members, with a view beyond 2030 under the theme "Beyond SDGs."

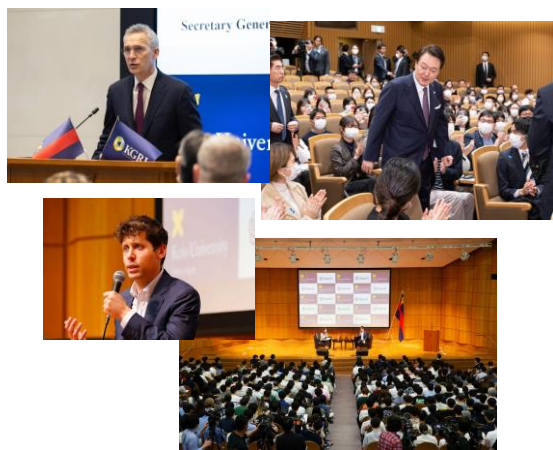
The Keio University Student Conference, which was initiated in AY 2022, serves as a platform for students to gather and take the initiative to propose recommendations on specific measures that Keio should implement to realize the SDGs. For its first and second years, the conference was held only in Japanese, but from AY 2024, the conference adopted a more global perspective through the introduction of English and by inviting international graduate school students from United Nations University. The recommendations from the conference are submitted directly to the president of Keio University. Some of the proposals have been adopted as part of Keio's project planning.

In addition, the Office for Equity, Diversity, and Inclusion was established in April 2018 and has spearheaded various initiatives to raise awareness university-wide on diversity issues, such as gender diversity and women's empowerment. Since then, several departments within Keio have launched their own committees and projects to actively work towards realizing progress on DEI issues. To promote the empowerment of female faculty members, Keio participated in the Association of Pacific Rim Universities (APRU) Asia Pacific Women in Leadership (APWiL) Mentoring Program from its first cohort. With the experience gleaned from this participation, Keio launched its own full-fledged mentoring program for female faculty members in AY 2022. In AY 2023, 36 female faculty members at Keio were able to network and learn from each other through the program. In addition, a mentoring program tailored for Keio students, the "Keio University Student Mentoring Program," was launched in AY 2023 where students interact with Keio alumni who are active in various sectors of society and industry.



## International events organized by KGRI and publicization of research accomplishments

KGRI has publicized Keio's research activities and accomplishments both domestically and internationally by holding the KGRI Lecture Series and Great Thinker Series where prominent figures engaged in cutting-edge research and education in Japan and overseas are invited to deliver lectures. These lectures are now held in-person (they were held online during the COVID-19 pandemic). Videos of the lectures and other materials are made available to the public. Keio maintained active dialogue with international partners even during the COVID-19 pandemic, leading to lectures post-corona by prominent figures including the then secretary general of NATO (North Atlantic Treaty Organization) Jens Stoltenberg (February 2023), South Korean president Yoon Suk-yeol (March 2023), and OpenAI CEO Sam Altman (June 2023), among others. These are the results of KGRI's global research activities and international PR efforts, which also led to Keio successfully applying and being selected for the Program for Forming Japan's Peak Research Universities (J-PEAKS) under the Japan Society for the Promotion of Science (JSPS) in AY 2024. KGRI, which was established under the Top Global University Project, now forms the core of the next major project, J-PEAKS.



## Attracting international students to study in Japan nation-wide by hosting the Experience Japan Exhibition (EJE) and setting up a portal site that aggregates information on studying abroad in Japan

The Experience Japan Exhibition, an education fair that promotes studying abroad in Japan, was held in London (Royal Society) from 2011 to 2019. Due to the COVID-19 pandemic and the resulting travel restrictions imposed, it was held in an online format from 2020 to 2022. In 2023, the EJE symposium was held on Keio University's Mita Campus. In cooperation with 26 universities and seven institutions across Japan, a portal site was launched to aggregate information on studying abroad in Japan for overseas students who aspire to study at Japanese universities. Not limited to Keio University, the EJE promotes the attractiveness of studying in universities across Japan, leading to greater recognition and improved reputation of Japanese universities in the UK and Europe.



### Strategic collaboration and elevated international presence through international university consortiums, etc.

President Itoh has been a member of the APRU Steering Committee since AY 2023, and is also a member of the U7+ Alliance of World Universities Presidential Steering Committee, playing a central role in the management of such international consortiums.

The U7+ Alliance Presidential Summit was held at Keio University in March 2023, prior to Japan hosting the G7 Hiroshima Summit as chair in July 2023. Presidents of more than 40 research universities from G7 and non-G7 countries, including from the Global South, attended the summit. The U7+ Alliance is deeply concerned that conflicts around the world are depriving young people of educational opportunities, academic freedom, and freedom of speech. As such, the U7+ Alliance compiled the Tokyo Statement to call on G7 leaders to invest in education to ensure peace and security. The statement was presented to then Prime Minister Fumio Kishida, chair of the G7 Hiroshima Summit, together with President Itoh, host of the U7+ Alliance Presidential Summit, at the Prime Minister's Official Residence.



As the international liaison of the RU11, Keio is participating in the Global Research-Intensive Universities Network (GRIUN) where it attends meetings in the US, Europe, the UK, Australia, etc., along with other top universities. As such, Keio is able to promptly grasp the situation of each country and the direction of their universities, and disseminate this information to other RU11 member universities in Japan. Furthermore, Keio joined the Japan-UK Research and Education Network for Knowledge Economy Initiative (RENKEI) in AY 2023 and will host a Health Workshop at Tsuruoka Town Campus of Keio (Tsuruoka City, Yamagata Prefecture) in December 2024. At the workshop, Keio will be introducing research related to "longevity," "security," and "creativity" developed under the Top Global University Project. Among these topics, research on aging, which forms the main focus of the Institute for Advanced Biosciences at Tsuruoka Town Campus of Keio, will be discussed in detail. Going forward, Keio will continue to form strategic collaborations through such university consortiums and share project outcomes not only with Japanese universities but also overseas universities.



### Raising Keio's profile through pre-Games Preparation Camp for Team GB at the Tokyo 2020 Olympic and Paralympic Games

Together with Yokohama City and Kawasaki City, Keio University hosted the pre-Games preparation camps of the British Olympic and Paralympic teams for Tokyo 2020. This was a long-term and large-scale international project (from 2015 to 2021) that helped improve the skills and abilities of many departments at Keio in coordinating and corresponding with international partners. It contributed to international exchange activities in the region and also raised the profiles of both cities and Keio University in the UK. In recognition of this achievement and his contribution to the enduring ties in education, culture, and business between the two countries, Akira Haseyama, Keio University's executive advisor for academic affairs (president of Keio University from May 2017 to May 2021) was awarded an Honorary MBE (the Member of the Most Excellent Order of the British Empire).



### Self-driven financial base: 9 billion yen in funds incorporated

→Secured 180 million yen annually through the effective management of the Global Engagement Fund

As a self-driven financial base after financial support from the Top Global University Project has concluded, the Board of Directors made an institutional decision in March 2015 to establish a new fund (Basic Fund No. 3). In order to secure investment income equivalent to the amount of subsidies for AY 2024 and onward, and to further expand and stabilize projects, the Board of Directors decided in March 2018 to extend the incorporation of the fund to 2023 and to increase the total amount of incorporated funds. The total amount of incorporated funds reached 9 billion yen by AY 2023, the year when subsidies from the Top Global University Project will cease. With the establishment of this new Global Engagement Fund, 180 million yen can be used each year starting from AY 2024 to continue implementing projects related to globalization. The Guest Professor (Global) program which formed the core of the Top Global University Project at Keio has been further developed by expanding the scope of host faculty members and continues as the Global Faculty Program, to be operated under the same fund.

