

# Promoting Unique Management **Reform at Kyoto University**

**Developing and Expanding the Designated National University Corporation Initiatives** 

January 20, 2022

Designated National University Corporation Committee Hearing

### Overview of KU's Proposal for Designated National University Corporation Status

KU's Mission Statement

Tackling multifaceted issues, maintaining and developing academic freedom, and contributing to harmonious coexistence within the human and ecological community on this planet.



Generate new knowledge, foster innovation, and guide the development of future society.

#### I. A flexible and dynamic approach to knowledge creation

- Global leader of advanced research in diverse fields Explore new interdisciplinary research fields and develop international collaboration in fields of strength
- 1. Promote world-leading cutting-edge research 1) Regenerative medicine and advanced medical research
  - · Contribute to human health and wellbeing, and to the future of nedicine and health care in the context of a rapidly aging society
- 2) Fusing sciences: chemistry and biology
- 3) Kyoto University Institute for Advanced Study
- (KUIAS) An internation nal hub distilling the knowledge and skills of leading
- 2. On-site Laboratories

Strengthen governance



#### II. Generating a high-level and diverse flow of talent

- Enhance the internationalization of education
- Develop diverse human resources/acquire talented human resources

- 1. Kyoto University International Undergraduate
- I undergraduate program for domestic and
- 2. Fostering doctoral-level human resources (knowledge professionals) through MEXT's Superior Graduate Programs
- 3. Graduate Student Training (GST) Center Provides training programs to cultivate graduate students with superior teaching and research capabilities
- 4. International Student Recruitment Office
- 5. Extensive support for graduate and international students

#### itiatives focusing on young res

- 1. The Hakubi Project
- Employ outstanding young researchers regardless of field of study
- 2. Increase the number of young faculty members Increase the percentage of regularly-employed young faculty members to 30% within the fourth round of medium-term go

#### IV. KU's world-class management style

#### III. Exploring new forms of social engagement

- Establish a structure to promote industry-government-
- academia collaboration
- Utilize academic outcomes in seeking solutions to contemporary global issues

#### Industry-government-academia collaboration

#### 1. A new "KU Model"

- Establish and operate three companies with the following functions, which will receive capital investment from the university
- ① Consulting (consulting and think-tank services)
- 2 Technology transfer 3 Venture support
- · Establish a holding company
- 2. Beyond the current framework of industrygovernment-academia collaboration
- Implement a scheme for organization-to-organization

- 1. Enhancing Japan-ASEAN cooperation
  - Contribute to sustainable development through comprehensive science and technology collaboration
- 2. Disseminating new approaches in the social sciences and humanities
  - Promote internationalization and develop new academic fields combining the humanities and sciences

- Formulate strategic plans through practical coordination between top-down policy and bottom-up ideas
- Secure stable financial resources that the university can strategically use for its own initiatives
  - 1. Kyoto University's Provost and the Planning and Coordination Council Evidence-based management of the university from an international perspective (International Strategy Office, Institutional Research Office, University Research Administrators)
- Formulate strategic plans in coordination with the university's departments and faculty consorts
- Strengthen the university's
  - Establish profit-making enterprises
- Increase self-generated income: 1) Donations, 2) Learning programs for adults, 3) Effective use of assets

### I. A Flexible and Dynamic Approach to Knowledge Creation ①

- Global leader of advanced research in diverse fields.
- Explore new interdisciplinary research fields, develop international collaboration in fields of strength, and showcase the university's distinctive research internationally.

#### Medical Innovation

### **KU Innovation Center for Next Generation Clinical Trials and iPS Cell** Therapy (Ki-CONNECT) (2020)

- ·Clinical application of iPS technology for various intractable diseases.
- ·Hospital wards and facilities dedicated to clinical trials.
- Clinical biobank linked to clinical information.

Benchmark: UCSD

### **Center for Cancer immunotherapy** and Immunobiology (2020)



- International center for basic cancer Research.
- Next generation researchers in cancer and immunity fields.
- ·Collaborative clinical studies with industries for improved efficacy of cancer therapy.

### **International Hub for Frontier Fusion Studies**

#### **KU Institute for Advanced Study**

- ·World-leading distinguished scholars.
- ·Hub for international exchange of students and researchers for fusion research (international collaborative labs).



#### **WPI** centers

### Institute for Integrated Cell-Material Sciences (iCeMS)

- •Fusion of nanotechnology and life science
- ·Advanced technology lab (Zeiss).



Benchmark: Harvard

#### Institute for the Advanced Study of Human Biology (ASHBi)

- ·Fusion of human life and genome science/mathematics.
- Forefront genome informatics and primate research facilities.

## I. A Flexible and Dynamic Approach to Knowledge Creation 2





#### UC San Diego (UCSD)

Efforts at UCSD (Benchmark Target)

Implementation of advanced research activities in medical fields and close collaboration with numerous local pharmaceutical companies and bio-ventures on the basis of medical center hospitals.

#### Efforts at KU

Established a KU Liaison Office and on-site laboratory on the UCSD campus to promote research collaboration with UCSD and local partners.

Annual showcase at which university startups present their research "seeds" to local investors and pharmacompanies held since 2019.



#### Wyss Institute at Harvard U

Efforts at the Wyss Institute (Benchmark Target)

The Wyss Institute is a world-leading frontier Institute that is exploring a new scientific field focusing on mesoscopic interaction between molecules and living organisms.

#### Efforts at KU

iCeMS promotes research to develop new interdisciplinary fields focusing on the fusion of materials science and bioscience. It now has five on-site laboratories and one international collaborative laboratory (France), and its scientific achievements are becoming comparable to those of the Wyss Institute.

#### KPI (Progress Status)

KPI 1: Number of papers published in the world's top 5% journals By the 4th Period of the Medium-Term Goals: 900 (3rd Period: 800).

AY 2018	AY 2019	AY 2020	AY 2021
869	854	863	795 (tentative)

KPI 2: Number of international full-time researchers By the end of AY 2027: 600 (end of AY 2021: 500).

AY 2018	AY 2019	AY 2020	AY 2021
434	420	391	428

\*As of the end of November 2021

KPI ③: Number of researchers going abroad/from abroad (mediumto long-term) (excluding students).

By the end of 2027: Going abroad: 400 (360 as of the end of 2021) From abroad: 600 (549 as of the end of 2021)

	AY 2018	AY 2019	AY 2020	AY 2021
Going abroad	205	189	24	_
From abroad	607	578	297	150

\*As of the end of

<sup>\*</sup>Figures for KPI ③ are calculated in the following year (Going abroad: November /

<sup>\*</sup>Figures decreased after 2020 due to the COVID-19 pandemic.

## I. A Flexible and Dynamic Approach to Knowledge Creation ③



#### Strengthening research capability and internationalization

#### **On-site Laboratories**

- Locally-managed laboratories established in cooperation with overseas partner research institutions, etc.
- Promoting world-leading cutting-edge research by proactively implementing research exchange.
- Recruiting talented international students and strengthening collaboration with industrial partners.

#### **On-site Laboratories**

- 1 Kyoto University Research Center San Diego (San Diego, USA)
- 2 IFOM-KU Joint Research Laboratory (Kyoto, Japan)
- Syoto University-Tsinghua University Cooperative Research and Education Center for Environmental Technology (Shenzhen, China)
- 5 Smart Materials Research Center (Rayong, Thailand)
- 6 Kyoto University Shanghai Lab (Shanghai, China)
- 7 Center for Advanced Genomic Field Science (Kampala, Uganda)
- 3 iPS Cell Research Center at Gladstone Institutes (San Francisco, USA)
- Center for Integrated Biosystems (Taipei, Taiwan)
- (Myoto, Japan) Quantum Nano Medicine Research Center (Kyoto, Japan)
- ① Laboratory for Green Porous Materials (Singapore)
- Center for Integrated Data-Material Sciences (Wellington, New Zealand)

#### Overseas Centers (ASEAN, European, and North American Centers)

- ✓ Supporting education and research activities.
- Promoting internationalization of students, faculty, and staff members.
- Strengthening networks with local alumni associations and research institutions, etc.



#### **KPI (Progress Status)**

KPI 4: Cumulative number of on-site laboratories established By the end of AY 2027: 5 in total

AY 2018	AY 2019	AY 2020	AY 2021
5	11	12	13

Outbound type: 10, Inbound type: 2, Cross-bound type: 1

A total of 13 on-site laboratories have now been established → Goal significantly exceeded.

#### 5 Smart Materials Research Center

- Twelve published papers produced through international research collaboration. Partner institution VISTEC was ranked first in the Nature Index ranking in Thailand.
- ✓ Conducts international student recruitment activities, including holding study-abroad explanatory sessions at top universities in Thailand, including VISTEC.

### ① Kyoto University Research Center San Diego

- Expanding the university's industryacademia research collaboration network by holding an annual showcase to present medical research "seeds" and technologies.
- ✓ Has co-hosted 12 online seminar series on medical research with UCSD so far. A total of over 1600 researchers have participated in the seminars.

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### II. Generating a High-Level and Diverse Flow of Talent ①



- Enhance the internationalization of undergraduate and graduate education.
- Develop diverse human resources at all levels—from students to faculty members—and recruit talented human capital in Japan and from overseas.

#### **Kyoto iUP KU International Undergraduate Program** Continuous Japanese language and culture education Graduate school 6 months prior education (master's 1<sup>st</sup> and 2<sup>nd</sup> years 3<sup>rd</sup> and 4<sup>th</sup> years program, etc.) Preparatory Liberal arts and sciences courses Specialized courses **Japanese** (in English) (in Japanese) language Basic courses (in Japanese/English) course Japanese companies seeking global human iUP students study together with domestic resources Japanese students (in Japanese/English) Aim to enroll a maximum of 80 talented international undergraduate students in each grade (total program enrollment of approx. 320 students). Number of Kyoto iUP applicants 600 520 482 366 228 25 33 2016 2017 2018 2019 2021

### II. Generating a High-Level and Diverse Flow of Talent 2



### Establishment of the Graduate School Education Support Organization (2021)

- Integrated planning and implementation of graduate school liberal arts education and career development support.
- Support for the enhancement of graduate school functions for the development of researchers and highly specialized professionals.

Expanded support for graduate students' living expenses.

Recruiting talented international students.

Providing educational opportunities to promote career development and industry-academia collaboration.

#### **GSESO**

### **General Graduate Education**

Management of general and cross-departmental education

Informatics, Data Science English, Japanese/Japanese Culture Entrepreneurship

Research Integrity

### Global Collaboration and Career Development Support

Living support (Scholarships, GST) Global recruitment and administration

**Industry-Academia Career Development Promotion Office** 

**Academic Development and Career Support Office** 

Benchmark: UC Berkley

**Global Development Office** 

Benchmark: Imperial College London

### **Interdisciplinary Graduate Program Promotion**

Support and quality assurance of Interdisciplinary Doctoral **Programs** 

Leading Programs WISE Programs

Innovation of Advanced

Photonic and Electronic Devices

Medical Innovation

School of Platforms

### II. Generating a High-Level and Diverse Flow of Talent ③





#### UC Berkeley

Efforts at UC Berkeley (Benchmark Target)

Despites the low number of faculty members per student (ST Ratio), the Teaching Assistant (TA) system is effectively utilized to provide graduate students with comprehensive educational support, enabling many to engage in advanced and diverse work as instructors with salary.

#### Efforts at KU

Established the GST Promotion Office in 2020 to plan and implement training to improve graduate students' teaching and research skills, and develop basic training for TA quality assurance.

Established the Graduate School Education Support Organization in October 2021 to assume the functions of the GST Promotion Office to improve courses for the development of graduate students' teaching skills.

#### Imperial College London

Efforts at Imperial College London (Benchmark Target)

Among the world's top universities, the ratio of international students is particularly high at 54.2%, and Imperial College London has been implementing strategic recruitment of talented international students from around the world.

#### Efforts at KU

Established the International Admissions Assistance Office (IAAO) in April 2019 to provide support for the recruitment of talented international students. Researched and analyzed the university education systems of different countries around the world, and engaged in recruitment activities through the development of short-term exchange programs.

Established the Graduate School Education Support Organization in October 2021 to assume the functions of the IAAO and further improve efforts, including strategic recruitment of highly talented international students to graduate schools.

#### **KPI (Progress Status)**

KPI 1: Number of students from abroad AY 2027: 4,000 (Approximately 17% of all students) (End of AY 2021: 3,300 (Approximately 14% of all students)

AY 2018	AY 2019	AY 2020	AY 2021
3,558	3,902	3,302	3,216

\*As of the end of October 2021

KPI ②: Number of students going abroad (excluding students traveling overseas to attend academic conferences) AY 2027: 2,000 (Approximately 9% of all students)

(End of AY 2021: 1,600 (Approximately 7% of all students)

AY 2018	AY 2019	AY 2020	AY 2021
1,544	1,332	24	83

\*As of the end of November 2021

KPI 3: Cumulative number of joint and double degree programs End of AY 2027: 20 in total (End of AY 2021: 14)

AY 2018	AY 2019	AY 2020	AY 2021
21	24	25	26

\*As of the end of November 2021

KPI @: Number of multi-nationally authored papers produced by students End of AY 2027: 1,000 (End of AY 2021: 820)

AY 2018	AY 2019	AY 2020	AY 2021
681	600	668	_

### II. Generating a High-Level and Diverse Flow of Talent 4



#### The Hakubi Project

- Hakubi
- Recruiting young researchers tackling challenging research subjects based on open-minded and creative thinking.
- 90% of researchers who completed the Hakubi Project in 2020 have attained tenured or tenure-track positions at a university or research institution in Japan or overseas.
- Contributes to the increase of early-career faculty members, the enhancement of research capacity, and the cultivation of talented young researchers at the university.

#### Toward the fourth period

Plans to develop and implement efforts to retain researchers who have completed the Hakubi Project at the university, and efforts to increase the number of female researchers employed through the project.

# Recruiting and fostering excellent early-career faculty members

- Increase the number of positions for early-career faculty members through the Strategic Project to Secure Positions for Young Faculty Members.
- Advance efforts to increase the number of early-career faculty members by raising awareness of the importance of achieving an appropriate age balance among the members of each of the university's faculty consorts.

#### rack for aculty

#### Toward the fourth period

- ✓ Establish a functional enhancement system.(\*)
- ✓ Establish a system to enable the adjustment of employment quotas to employ young and female faculty members, and a system that enables employment quota transfer to increase the number of female professors.

\*Personnel system to promote the flexible and effective reorganization of education and research organizations to recruit diverse and excellent researchers, including young and female researchers.

#### **KPI (Progress Status)**

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AY 2027: 325 (End of 2021: 215)

	AY 2018	AY 2019	AY 2020	AY 2021
ĺ	154	167	181	193

KPI ⑥: Percentage of regularly-employed young faculty members (under 40 years old)

AY 2027: 30.0%

AY 2018	AY 2019	AY 2020	AY 2021
17.7%	18.9%	19.4%	19.0%

\*As of the end of November 2021

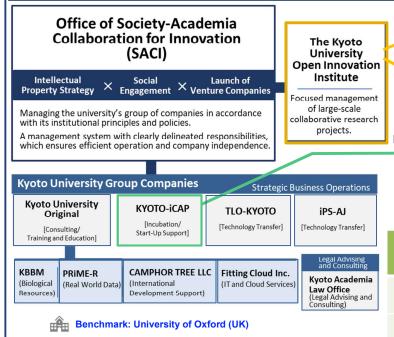
\*As of the end of October 2021

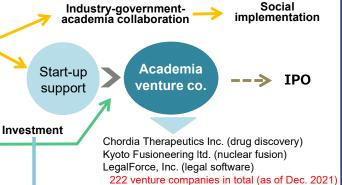
### III. Exploring New Forms of Social Engagement ①



- Establish the "Kyoto University model" for industry-government-academia collaboration to operate businesses with diverse functions, and create an industry-academia collaboration "value chain."
- Strengthen the dissemination of Kyoto University's new approaches to the humanities and social sciences.

### The "Kyoto University Model" for industry-academia collaboration





Funds managed by KU-iCAP

Classification	Establishment (Period)	Total Cost	Number of compani es invested
First Fund	January 2016 (15 years)	16 billion yen (Including private investment:1 billion yen)	42
Second Fund	January 2021 (12 years)	18.1 billion yen (Including private investment:4 billion yen)	4

### III. Exploring New Forms of Social Engagement 2





#### University of Oxford

Efforts at the University of Oxford (Benchmark Target)

Implementation of international industry-government-academia collaboration and technology transfer activities based on advanced academic research.

Established the wholly university-owned subsidiary Oxford University Innovation (OUI) in 1987, which comprises three business sections: patent management and technology transfer, consulting services, survey and human resource development services for companies. The scale of OUI's operations, including its income from technology transfer, was approximately ten times as large as that of KU (as of 2015).

#### Efforts at KU

Established four subsidiary companies to engage in practical operations to promote the use of research results and practical application of the university's research seeds: TLO-KYOTO Co., Ltd. and iPS Academia Japan, Inc. (technology transfer), Kyoto University Original Co., Ltd. (consulting, training, and education service), and KYOTO-iCAP (venture support). The establishment of the "Kyoto University Model," in which subsidiary companies work together effectively, has led to a steady increase and expansion of the scale of industry-academia collaboration projects.

#### KPI (Progress Status)

KPI ①: Sales and income from the subsidiary companies The 4th period of the Medium-Term Goals: 1,500 million yen (3rd period: become profitable)

(Yen) AY 2019 AY 2020 AY 2021 AY 2018 660 million 750 million 790 million 620 million

Revenue from iPS Academia Japan, Inc. is not included \*As of the end of November 202

KPI 3: Revenue from intellectual property

The 4th period of the Medium-Term Goals: 500 million yen per year

(End of AY 2021: 433 million yen) (Yen) AY 2018 AY 2019 AY 2020 AY 2021 720 million 720 million 850 million 620 million

\*As of the end of November 2021

KPI 2: Amount of funding for collaborative research

The 4th period of the Medium-Term Goals: 8 billion yen per year

(Ellu ol AT 2021.	0.273 billion yen)		(Tell)	
AY 2018	AY 2019	AY 2020	AY 2021	
5.11 billion	5.83 billion	6.34 billion	4.31 billion	

\*As of the end of November 2021

KPI 4: Number of venture companies established

The 4th period of the Medium-Term Goals: 40 (The 3rd period: 40)

AY 2018	AY 2019	AY 2020	AY 2021
35	51	66	75

\*As of the end of November 2021

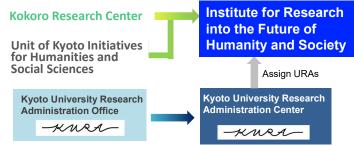
### III. Exploring New Forms of Social Engagement 3



#### Dissemination of the university's new approaches to the humanities and social sciences

- Enhancing internationalization and dissemination of research in the humanities and social sciences, and fostering a fusion of the humanities and sciences to develop new academic disciplines.
- Established the Unit of Kyoto initiatives for the Humanities and Social Sciences as a multidisciplinary organization of faculty members from diverse relevant departments. Held a series of online public lectures to enhance collaboration with industry and society.

Planned establishment of the Institute for Research into the Future of Humanity and Society as a hub organization to provide systematic support to the humanities and social sciences, and to contribute to the natural sciences for the creation of new academic fields and comprehensive knowledge.



- Building on the achievements to date, strengthen research capability and information dissemination in the humanities and social sciences, and promote interdisciplinary research and the development of new academic fields.
- Form connections between academic fields and researchers to promote knowledge exchange and collaboration between the humanities/social sciences and the natural sciences.

### Center for Interdisciplinary Studies of Law and Policy (CISLP)

Addressing advanced legal and policy issues beyond the conventional frameworks of law and politics to broadly target social changes brought about by the development of new science and technology such as AI, and play a leading role in establishing international rules and standards with the aim of putting legal systems into practice.

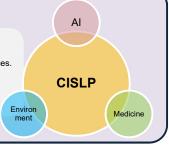
(Established in April 2021)

Main activities

1 Interdisciplinary education and research, including fusion of the humanities and sciences

2 International research collaboration and information dissemination.

3 Collaborative research and education by researchers and practitioners.



### IV. KU's World-Class Management Style ①



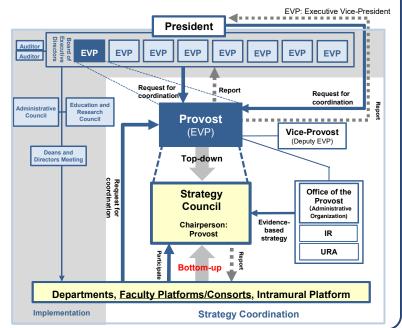
- Practical coordination between top-down policy and bottom-up ideas to formulate strategic plans to address comprehensive issues, including the future vision of the university.
- Secure stable financial resources to fund the university's DNU initiatives.

### Appointment of the KU Provost to enhance the university governance system

Steady implementation of various initiatives through the enhancement of the university governance system.

As Kyoto University comprises 10 faculties, 18 graduate schools, 20 research institutes and centers, and a hospital, it is important to coordinate operations between the central administration and those departments.

- → The Provost system enables the sharing of a future vision and close communication between the university's central administration and its various departments.
- Established the "Strategy Council" in which faculty members from different departments, who will be responsible for university management in the future, can discuss issues quickly to ensure the implementation of initiatives from a perspective beyond the interests of individual departments.
- Coordination of top-down policy from the central administration with bottom-up ideas from departments to ensure strong governance and the quick implementation of measures, while respecting the independence of diverse departments.



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### IV. KU's World-Class Management Style 2



#### Main efforts of the Strategy Council

Formulation of strategies to address university-wide and cross-departmental issues, including organizational reforms and the university's mid- and long-term visions.

#### **Swift implementation of initiatives**

- Increasing the number of positions for young faculty members
- On-site Laboratories
- Establishment of the Institute for Research into the Future of Humanity and Society
- Exploring methods of international student recruitment, etc.

#### Implementation of new initiatives

- Measures to promote gender equality
- Measures to promote the recruitment of graduate students and early-career researchers
- Measures to reduce the administrative burden on faculty members
- Exploring approaches to faculty member performance evaluation and personnel matters
- Visualization of education and research information and reallocation of university resources with a view to strengthening the management framework

#### Initiatives under consideration for the 4th period

- Restructuring of the research support system
- Fundamental orientation of information infrastructure development
- Administrative reform and improvement of the personnel and salary systems for administrative staff

# Evidence-based university management from an international perspective (IR/URA)

 Enhancement of IR functions to facilitate the formulation of evidence-based strategies.

Cooperation between the Office of the Provost and KURA to enhance the IR section to assist the executive board in making timely and appropriate decisions by identifying and analyzing university resources and international trends.

- Providing information that can be used for decisionmaking in university management through the utilization of BI tools, analysis reports, etc.
- Consolidating basic university data, and developing a system for the effective use of data.
- Efforts by KURA to strengthen research capability.

Aiming to become a university that can produce and circulate knowledge and human capital across academic boundaries by creating new academic fields, deepening international collaboration, developing and securing diverse human resources, accelerating industry-government-academia collaboration, and enhancing the research environment.

- ✓ Establishing a career path and personnel system for URAs, including personnel exchange with the university's subsidiary companies, ministries and agencies, and other organizations.
- Secure a financial base to expand the permanent employment of URAs.

## IV. KU's World-Class Management Style 3



#### Establishment of a donation system

- Expanding and enhancing the functions of the Kyoto University Fund Office by employing fund-raising specialists with sales experience at financial institutions, etc.
- Seek donations to the Kyoto University Fund by proactively fund-raising among major companies, alumni entrepreneurs and corporate executives, and alumni associations in Japan and abroad.
- Cumulative amount of donations received as of December 10, 2021: 56.3 billion yen
- Using donations to support talented students and education and research activities, in addition to receiving donations for research into the novel coronavirus.
  - Promoting fund-raising activities through centralized management of alumni information.
  - Accepting bequests, securities, and other valuable assets donated by individuals.

#### Achievements of the enhanced donation system

#### Fund establishment

Foundation of the ONO Pharmaceutical and Dr. Honjo Honorary Research Fund (23 billion yen)

#### Purpose:

Enhance research capability by strengthening the research environment for young researchers in the natural sciences, particularly in life sciences.



#### **Research Grants**

Donation by President Tadashi Yanai to aid research activities (President and CEO of Fast Retailing Co., Ltd.)

search grant for PD-1 inhibitor cancer immunotherapy 5 billion yen in total

Research grant for iPS cell research Research fund: 500 million yen



#### Student Support: Create the Future Project (CF Project)

A two billion yen fund to provide financial support for motivated students facing financial difficulties. Established using donations from companies and individuals, including architect Tadao Ando and Nitori Holdings Co.

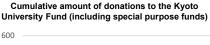
#### **KPI (Progress Status)**

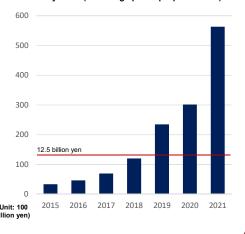
KPI 1: Cumulative amount of donations to the Kyoto University Fund (including special purpose funds)

End of AY 2027: 15.5 billion yen (End of AY 2021: 12.5 billion yen)

AY 2018	AT 2019	AY 2020	AY 2021
12.1	23.4	30.1	56.3
billion	billion	billion	billion

\*As of December 10, 2021





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## **Continuing the Evolution of Kyoto University**



## Further development as a world-class research university

Decisive reform of the university's organizations and systems to restructure the education and research support system, secure diverse human capital, strengthen the financial base, and achieve radical transformation as a research university

#### Education and student support

- Enhance student welfare and support services to facilitate the enrollment and education of diverse students.
- Improve education contents and systems in accordance with the wishes of students and the needs of the current era.

#### Support for Research Activities by Faculty Members

- Secure diverse and outstanding researchers, including young and female scholars, from Japan and overseas.
- Create an environment in which faculty members can fully devote themselves to their education and research activities.

#### Improvement of Operational Management System

- Radically improve the university's administrative organizations and employment systems.
- Enhance the policy-making skills of administrative staff members.
- Comprehensively reduce inefficient expenditure.

#### Enhancing governance and strengthening the financial base

- Fully utilize the Provost system to provide specific recommendations on measures key to the achievement of future plans, etc., and to strengthen presidential leadership.
- Strengthen the financial base by increasing the amount of donations to the university, and allocate internal funds strategically.