

**Prof. Hironori Kasahara, IEEE Fellow, IPSJ Fellow**

**WOI'21 Execution Committee Chair**

**Senior Executive Vice President, Waseda University**

**IEEE Computer Society President 2018**

URL: <http://www.kasahara.cs.waseda.ac.jp/>



**1980 BS, 82 MS, 85 Ph.D. , Dept. EE, Waseda Univ.**

**1985 Visiting Scholar: U. of California, Berkeley, 1986 Assistant Prof, 1988 Associate Prof, Waseda**

**1989-90 Research Scholar: U. of Illinois, Urbana-Champaign, Center for Supercomputing R&D,**

**1997 Prof., 2004 Director, Advanced Multicore Research Institute, Waseda**

**2017member: the Engineering Academy of Japan (2020 Board), Science Council of Japan**

**<Committees in Societies and Government: 263>**

**IEEE Computer Society: President 2018, Executive Committee(2017-2019), BoG(2009-14), Strategic Planning Committee Chair 2018, Multicore STC Chair (2012-), Japan Chair(2005-07),**

**IPSJ Chair: HG for Magazine. & J. Edit, Sig. on ARC.**

**【METI/NEDO】 Project Leaders: Multicore for Consumer Electronics, Advanced Parallelizing Compiler, and Green Computing, Chair: Computer Strategy Committee**

**【Cabinet Office】 CSTP Supercomputer Strategic ICT PT, Japan Prize Selection Committees, etc.**

**【MEXT】 Info. Sci. & Tech. Committee, Supercomputers (Earth Simulator, HPCI Promo., Next Gen.**

**Supercomputer K) Committees, JST Moonshot Project G3 Robot & AI Vice Chair,**

**【COCN】 Board Member in Council of Competitiveness Nippon, etc.**

**<Research Accomplishment>**

**Reviewed Papers: 221, Invited Talks: 190, Granted Patents: 54 (Japan, US, GB, China), Articles in News Papers, Web News, TV etc.: 625**

**<AWARD>**

**1987 IFAC World Congress Young Author Prize**

**1997 IPSJ Sakai Special Research Award,**

**2005 STARC Academia-Industry Research Award,**

**2008 LSI of the Year Second Prize,**

**2008 Intel Asia Academic Forum Best Research Award,**

**2010 IEEE CS Golden Core Member Award**

**2014 Minister of Edu., Sci. & Tech. Research Prize**

**2015 IPSJ Fellow, 2017 IEEE Fellow, Eta Kappa Nu**

**2019 Spirit of IEEE Computer Society Award,**

**2020 IPSJ Contribution Award**

# WOCI'21

WASEDA OPEN INNOVATION FORUM 2021

## Toward Realization of Waseda Open Innovation Ecosystem

International Collaboration

Industry-Academia Collaboration

Venture Startup & Acceleration

Development of Human Resource Understanding Social Needs

Social Sciences, Humanities, Science & Engineering Cooperation

Research Promotion (Including Patents Creation & Licensing)

Matching among people in Industry, Government, Academia, and Waseda



**Hironichi Shinohara**  
Vice Chair of Graduate  
Chairman of the Board, NTT



**Toshio Fukuda**  
IEEE President 2009  
Professor, Waseda University



**Dave West**  
President of ITCI Pacific, Japan  
and Greater China Business, Cisco



**Richard Chen**  
CEO of Regal Holding Corporation



**Louise Richardson**  
Vice-Chancellor,  
University of Oxford



**Phil Wickham**  
Executive Chairman of  
Kauffman Fellows  
& Managing Director of  
Seed Ventures



**Kengo Sakurada**  
Chairman of Retail Doyukai  
CEO of Sompo Holdings



**Shintaro Yamada**  
Founder and CEO of Mercari



**Peter Braam**  
Visiting Professor,  
University of Oxford



**Hironori Kasahara**  
SRIE, Waseda University  
IEEE CS President 2018



**Hayato Yamana**  
V, Waseda University  
IEEE CS SoC



**Jeremy Gibbons**  
Professor of Computing,  
University of Oxford



**Nozomu Togawa**  
Dean, School/Graduate School of  
Fundamental Science and  
Engineering, Waseda University



**Matt Perkins**  
CEO, Oxford University Innovation



**Sir Nigel Shadbolt**  
Principal and  
Professorial Research Fellow  
in Computer Science,  
University of Oxford

# Oxford University, Nov. 12-13, 2019 (Invited Lecture in CS & Research Collaboration)

**Vice Chancellor Prof. Louise Richardson**  
Head of Astrophysics : Prof. Rob Fender  
Dept. of Physics: Prof. Ian Shipsey  
Astrophysics: Prof. H.Falche, et. al.

**Merton College**  
Warden: Prof. Irene Tracy  
Fellow: Dr. Peter Braam  
Sub Warden: Prof. Judy Armitage  
CS: Prof. Jeremy Gibbons



Choral Evensong, 750<sup>th</sup> Anniversary Room

# Univ. of Oxford and Waseda U. Signed MoU for CS, Mathematics & Physics in April 2020

## News

- Latest News
- Inspired Research Newsletter
- Media Wall
- Blogs
- News Archive

## Events

## University of Oxford signs Memorandum of Understanding with Waseda University

Posted: 22nd April 2020

To support exchanges of graduate students and staff and to collaborate on research, a Memorandum of Understanding has been signed between the Departments of Computer Science, Mathematics, and Physics at Oxford and Waseda University in Tokyo. The new Memorandum of Understanding was established following the visit of Professor Hironori Kasahara (senior executive vice president of Waseda) in November to give a lecture on green computing; Professor Jeremy Gibbons (Computer Science) and Professor Peter Braam (Physics) made the return visit to Waseda in January to set up the memorandum. Waseda is one of the top private universities in Japan, with particular strengths in robotics and green computing, and this agreement will provide new opportunities for working together, particularly in machine learning and programming languages.

## Photos



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## オックスフォード大学と大学間協定締結

2020年4月17日付で、早稲田大学とオックスフォード大学は大学間協定を締結しました。この協定により、早稲田大学とオックスフォード大学の“Computer Science”、“Mathematics”、“Physics”分野での研究・教育面の組織的な交流の活性化が実現します。



オックスフォード大学とは、かねてより幅広い分野での研究交流が行われていましたが、個々の教員同士の交流が点在している状態でした。この度、両大学に於いて更なる組織的な研究交流の促進を模索する中、研究交流に特化した大学間協定を締結する運びとなりました。今後は大学間協定の締結を土台として、よりスケールの大きい研究・教育面での交流が可能となります。相互に研究者や大学院生の交換を促進し、研究プロジェクトを推進することになります。



また、この3分野にとどまらず、多方面での研究交流へと幅を広げるべく協議していくことが合意されており、今後、さらなる2大学間の交流の発展を目指していきます。

## ヨーロッパにおける研究交流を加速

本学は2016年にヨーロッパにおける研究拠点として、ベルギーのブリュッセルにオフィスを開設しました。すでにヨーロッパの多くの大学との研究交流が進んでいますが、オックスフォード大学との大学間協定の締結によって、これまで本学が推進してきたヨーロッパにおける研究交流を、さらに加速させることが可能となります。

## Tags

Vision 150, 国際課, 教務部, 教育, 研究活動, 総長室

## Posted

Wed, 22 Apr 2020

ツイート

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メールで送信

Oxford-Waseda in Mathematics ( Tuesday, 1<sup>st</sup> December )

Opening Speech

18:20  
|  
19:00



**Chas Bountra**  
Pro-Vice-Chancellor for  
Innovation  
University of Oxford



**Mike Giles**  
Head of Mathematics  
University of Oxford



**Hironori Kasahara**  
Senior Executive Vice  
President for Research  
Waseda University



**Yoshihiro Shibata**  
Director  
Department of Mathematics  
Waseda University

19:10  
|  
20:00



**Gregory Seregin**  
Mathematical Institute, University of Oxford  
Department of Mathematical Institute of Russian Academy of Science

“Local Regularity of Axisymmetric Solutions to the Navier-Stokes Equations”

20:10  
|  
21:00



**Tohru Ozawa**  
Department of Applied Physics, Waseda University

“On the Poincaré and Related Inequalities”

Oxford-Waseda in Mathematics ( Thursday, 3<sup>rd</sup> December )

18:00  
|  
18:50



**Hiroaki Yoshimura**  
Department of Applied Mechanics and Aerospace Engineering, Waseda University  
“Dirac Structures and Variational Formulations in Nonequilibrium Thermodynamics”

19:00  
|  
19:50



**Jan Kristensen**  
Mathematical Institute, University of Oxford  
“Gårding Inequalities and Their Impact on Regularity and Uniqueness”

20:00  
|  
20:50



**Hideo Kozono**  
Department of Mathematics, Waseda University  
“Asymptotic Properties of Steady Solutions to the 2D Navier-Stokes Equations with the Finite Generalized Dirichlet Integral”

# International Workshop on Multiphase Flows: Analysis, Modelling and Numerics

1-4 December, 2020

Online Workshop (via Zoom and YouTube)

Oxford-Waseda in Mathematics ( Wednesday, 2<sup>nd</sup> December )

18:00  
|  
18:50



**Andre Süli**  
Mathematical Institute University of Oxford

“Navier–Stokes–Fokker–Planck Systems:  
Existence of Large-Data Global Weak Solutions”

19:00  
|  
19:50



**Tadahisa Funaki**  
Department of Mathematics Waseda University

“Quasilinear Stochastic PDE and Its Asymptotics in  
Noise”

20:00  
|  
20:50



**Gui-Qiang G. Chen**  
Mathematical Institute University of Oxford

“Multidimensional Transonic Shock Waves, Free Boundary  
Problems and Nonlinear PDEs of Mixed Type”



**WASEDA**  
University



TOP GLOBAL  
UNIVERSITY  
JAPAN



CRO  
総合研究機構  
Comprehensive  
Research  
Organization



UNIVERSITY OF  
**OXFORD**



USA President  
Bill Clinton

USA Ambassador  
Caroline Kennedy

Chinese President  
Hu Jintao



# 早稲田大学



# WASEDA University

**Tokyo - Attractive Location**  
Shinjuku-ku, Tokyo, Japan

**Takadanobaba**

TOKYO: 7 CAMPUSES | SAITAMA: 2 CAMPUSES

- #1 MICHELIN-STARRED RESTAURANTS (TRIPADVISOR)
- #3 BEST STUDENT CITIES RANKING (QS BEST STUDENT CITIES 2014)
- #1 GLOBAL CITY RANKING (AT KEARNEY 2014)
- #1 HOSPITABLE CITY (TRIPADVISOR 2014)
- #1 PUBLIC TRANSPORTATION, HELPFUL LOCALS, SAFETY, CLEANLINESS (TRIPADVISOR 2014)

## Tokyo, Japan



Microsoft:  
Honorable Dr. Bill Gates



British Prime Minister  
Boris Johnson



**1882** »  
**Okuma Shigenobu founded Tokyo Seimon Gakko (College)**

The founding and opening ceremony of Tokyo Seimon Gakko (College) was held on October 29. At the ceremony, the Principal, Heikemon Okuma, issued a text on the founding of the school, Anan Ono delivered an address, and a declaration was made on the spirit of "Independence of Learning." The departments of political science, law, physical sciences, and English were established, and 80 students were admitted as the first batch of students.



**The "Group of Four" who contributed to the development of Waseda University**

The "Group of Four" refers to the four individuals who participated in the founding and management of Waseda University, and contributed to its development. Genzo Ishida served as the first Principal and third President of the institution, and passed his efforts into raising the institution to the rank of university as well as establishing the school of science and engineering. Tomoyuki Anzawa was the Director of the School of Commerce when it was first opened, and soon became the second Principal of the University. Shogo Tomochika took the foundation for the present-day Department of Literature. Eiichi Ichigawa worked hard to realize the objective independence of the university, and also contributed to the expansion of the library.



**1903** »  
**Start of the Waseda-Keio baseball match (Soketsuden)**

Along with the Cambridge-Dartford foot races and the Harvard-Yale football match, the Waseda-Keio baseball match (Soketsuden) is named among the three major university sporting events in the world. A tradition that can be traced back to 1903, its appeal lies in the baseball team of the two universities battling to pass on the honor of their alma mater, as well as the grand scale of support offered from the stands.



**1922** »  
**Visit by physicist Albert Einstein to Waseda University**

On November 29, 1922, Professor Einstein visited Waseda University during his visit to Japan, and held a meeting with President Masasada Shiozawa who had once studied at Berlin University. At the welcome ceremony held in the central courtyard, more than 10,000 students and faculty welcomed Professor and Mrs. Einstein with enthusiastic applause. When they left, they were met off with a chorus of the university's anthem.

**1928** »  
**Japan's first gold medalist**

At the Amsterdam Olympic, Mitsuo Oda from Waseda University's track and field club became the first Japanese to win a gold medal for the triple jump. The same track and field team started a sports event for international students held in Paris on their way back to Japan from the Olympics, opening the path to participation in the (International later on).



**1940** »  
**"Visas for life" from diplomat Chitane Sugihara**

In 1938, Chitane Sugihara gained admission to the Department of Education at Waseda University's Higher Normal School (the School of Education today). In 1940, Sugihara, who was then working at the Japanese Consulate in Lithuania, issued visas against orders from the Ministry of Foreign Affairs, thus saving about 6,000 Jews. His heroism was highly appreciated by the international community.

**1956** »  
**The beginnings of the Ishibashi Cabinet, first alumnus of Waseda to become Prime Minister**

In December 1956, Imamu Ishibashi, former student of Waseda, was elected as President of the Liberal Democratic Party. In the convention for the head of the government in both the upper and lower houses of the Diet held during the same month, Ishibashi defeated Masuzumi Suzuki, Chairman of the Socialist Party and also alumnus of Waseda, to become the Prime Minister of Japan. These are the origins of our first Prime Minister from Waseda.



**1962** »  
**Robert Kennedy attends student debate**

In the midst of the protest against the Japan-U.S. Security Treaty in 1962, then U.S. Attorney General Robert Kennedy and his wife attended a student debate at the Okuma Auditorium. The couple was touched by the joint singing of the university's anthem by groups that were both for and against the Treaty. When they visited Japan again, they remembered the anthem well and sang it together with the students.



**1974** »  
**Archaeological excavation of the Maitaka site**

In 1972, an archaeological team from Waseda University became the first Japanese people to launch an archaeological excavation mission at an ancient Egyptian site. In 1974, the team became the first in the history of archaeological excavations in Egypt to discover the "faded stele" in Maitaka. The team earned credibility with Egypt's Ministry of Antiquities, and was rated highly in Japan.



**1993** »  
**Visit to Waseda University by then U.S. President Bill Clinton**

In 1993, Bill Clinton, then President of the United States of America, visited Waseda University. Thereafter, the university continued to welcome visits by many distinguished guests from around the world, including Hu Jintao, former President of the People's Republic of China in 2008, and former UN Secretary-General Ban Ki-moon in 2010.

**2007** »  
**125th founding anniversary—Toward the "second establishment" of the university**

Waseda University has continued to move forward toward its three goals of tackling the challenge of intensive academic research, reaching global learning across the institution, and fostering global citizens. At the ceremony held on October 21, 2007 to commemorate its 125th anniversary, 15th President Kazuhiko Shira delivered the "Second Century Declaration of Waseda."



**2012** »  
**Formulation of Waseda Vision 150**

Waseda Vision 150 was formulated in 2012 with a view to the 150th anniversary of the university's founding in 1932. Waseda University has continuously improved the quality of education and research, and will continue to contribute to the world as a leading university of Asia.

# WASEDA UNIVERSITY



Number of International Students

7,942\* from 125 countries and territories  
(Undergraduate and Graduates)

Graduate Employability

#1 in private university of Japan  
(#2 in Japan, #27 in the world)  
 QS Graduate Employability Rankings 2019

**ALUMNI**  
[卒業生]  
 630,000

**PARTNER INSTITUTIONS**  
[協定大学・機関]  
 848 (93 countries)

<b>FACULTY</b> <small>[教員]</small> 5,468	<b>ENROLLMENT</b> <small>[学生数]</small> 49,436	<b>UNDERGRADUATE STUDENTS</b> <small>[学部生]</small> 41,051	<b>GRADUATE STUDENTS</b> <small>[大学院生]</small> 8,385
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**NUMBER OF BOOKS**  
[図書館蔵書]  
 5,800,000

Alumni CEOs in Japan

10,606

8 Prime Ministers

Founder Shigenobu OKUMA



- Prime Ministers**
- 8th Shigenobu Okuma
  - 17th Shigenobu Okuma
  - 55th Tanzan Ishibashi
  - 74th Noboru Takeshita
  - 76th Toshiaki Kaifu
  - 84th Keizo Obuchi
  - 85th Yoshiro Mori
  - 91st Yasuo Fukuda
  - 95th Yoshihiko Noda

- Business Leaders**  
Founders of global companies
- Sony
  - Samsung
  - Casio
  - LOTTE

- Business Leaders**  
CEOs of global companies
- ANA (All Nippon Airways)
  - HONDA
  - Nintendo
  - UNIQLO
  - Shiseido
  - Nomura Securities Co., Ltd.
  - Tokio Marine & Nichido Fire Insurance Co., Ltd.
  - Olympus Corporation

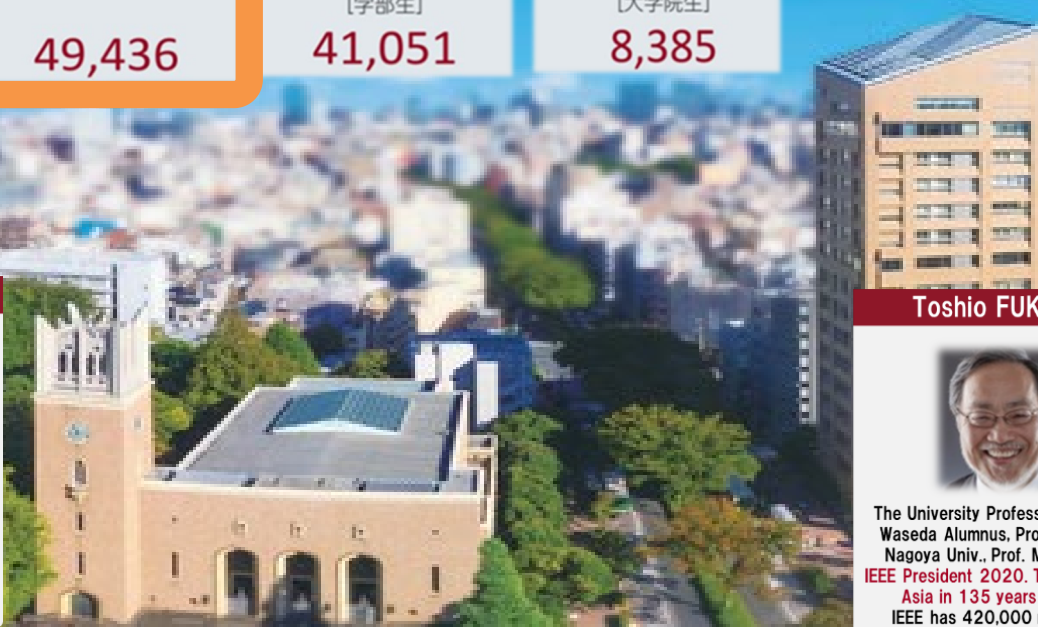


<p><b>Aiji TANAKA</b></p> <p>President International Political Science Association (IPSA) President 2016</p>	<p><b>Hironori KASAHARA</b></p> <p>Senior Executive Vice President IEEE Computer Society President 2018. The first president from outside USA and Canada in 72 years CS history. CS has 84,000 members from 168 countries.</p>
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**Toshio FUKUDA**

The University Professor Waseda, Waseda Alumnus, Prof. Emeritus Nagoya Univ., Prof. Meijo Univ. IEEE President 2020. The first from Asia in 135 years history. IEEE has 420,000 members.

<p><b>Haruki MURAKAMI</b></p>	<p><b>Hirokazu KOREEDA</b></p>	<p><b>Yuzuru HANYU</b></p>	<p><b>Daiya SETO</b></p>
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# Waseda Open Innovation Ecosystem

## Waseda University

### Research revitalization

- Participation of graduate students for Collaboration :
  - Increase PhD students with monetary supports
  - Increase top journal & conference papers & patents solving difficult problems from social needs
  - Motivate Professors and Researchers with incentives: reward, reduced lecture hours, space

### Promote industry-academia cooperation

- **Support collaboration with industry**
  - Build teams for satisfying needs from Industry
- **One-stop support desk**
  - Introduce university seed technologies (PR)
  - Matching of succeeded and new Ventures
  - Meeting of Industry, Ventures, Researchers & students
- **Wol Forum on March 10 every year**

- Contract support with Industry: IP & Budget Estimation
- Student Agreement support (IPs and NDAs)

- **Patent Support**
  - Help **acquire Intellectual Property** through-out patent filing and examining to **minimize researchers' loads**
  - Help utilize intellectual property: **Licensing**
- Research ethics course support

### Venture startup and acceleration

- Introduce **venture funds and teams including management, accounting, legal specialist**
- **University IP licensing by Cash, Stock, etc.**
- **Acceleration/Value-Up support: Customer matching etc.**

## High added-value products and services

### Industry-Academia collaborative research

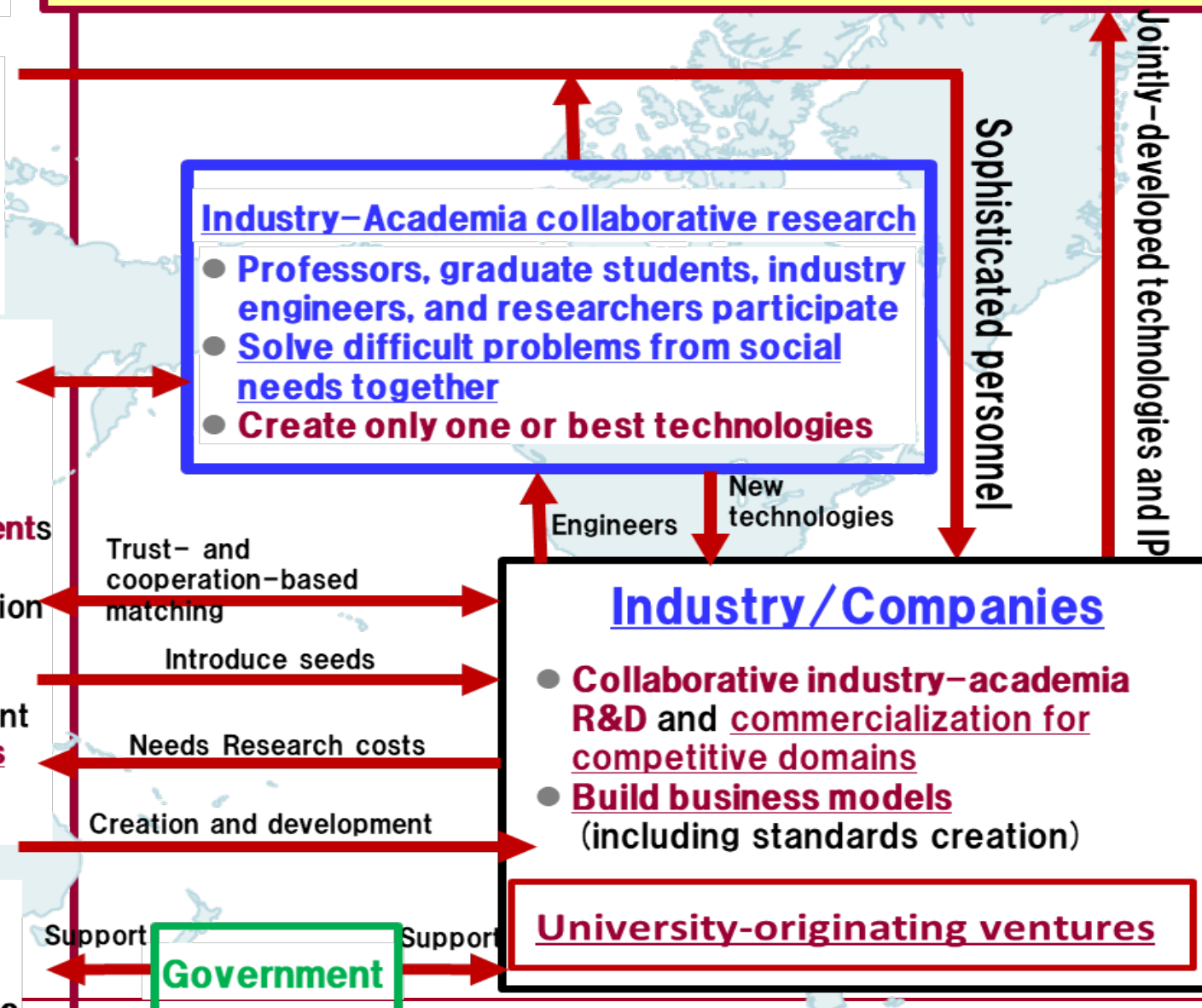
- Professors, graduate students, industry engineers, and researchers participate
- **Solve difficult problems from social needs together**
- **Create only one or best technologies**

## Industry / Companies

- **Collaborative industry-academia R&D and commercialization for competitive domains**
- **Build business models** (including standards creation)

### University-originating ventures

## Government





# Waseda Research Innovation Center Supporting for Ventures, IP, Collaboration

Director  
Hironori Kasahara  
SEVP  
Waseda Univ



Research Innovation Integrated Center  
Building No: 121



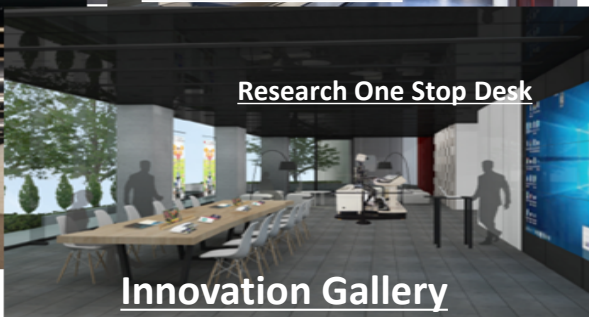
Meeting Rooms



Research Floor



Conference Room



Innovation Gallery

Research One Stop Desk

**Gallery for Ventures: with TULLY'S Coffee Shop**

**Research Innovation Center** (June 2020~)  
Hub of Waseda Open Innovation Ecosystem

**Research Strategy Center**

**Strategy for  
Open Innovation**

**Waseda TLO**

**IP Creation,  
Licensing, Contract**

**Waseda Center for Entrepreneurship**

**Venture  
Startup,  
Acceleration**



**Open Innovation Research Project  
with Industry Supported by MEXT**

Energy

Environment

Recycle

ICT

City Design

etc.

Life

Automotive

**Industry  
Collaboration**

# Waseda Open Innovation Valley Project



**Waseda Main Campus**

- **Research Innovation Center to be completed in March 2020**
- **Industry Academia Collaboration One Stop Desk, Research Support and Strategy, TLO, Contract Support, Venture Start-up Support**

**March 10, 2021 in Waseda Arena**  
**Waseda Open Innovation Forum (WoI) 2021**  
**(Matching among Leading Professors & Researchers, Industry, Ventures, Students)**

**New Research Innovation Center (Open: April 2020)**



**Toyama Campus**

**Waseda Arena with roof garden: Collaboration in Sport Science**



**Supported by METI**

**Green Computing Center for Industry Collaboration**



**Supported by MEXT Open Innovation Project**

**Research One Stop Desk:**  
<https://waseda-research-portal.jp/inquiry/>