



# THE ENGINEERING ACADEMY OF JAPAN

**EAJ**

**June 2024**

# About EAJ



## Voluntarily, Independently, and Internationally

- Established in 1987, Incorporated in 1998
- Elected as a CAETS member in 1990
- Changed to a Public Interest Incorporated Association in 2013
- The Engineering Academy of Japan Inc. (EAJ) is composed of leading experts from academia, industry, and government institutions who possess a wide range of knowledge and have made outstanding contributions in engineering and technological sciences, and closely related fields.

# Basic Policy of EAJ



## **Engineer the Future Society for Human Security and Well-being**

- **Make Policy Recommendations**
- **Exchange Ideas Internationally**
- **Foster Next Generation Leaders**
- **Cultivate Engineering Literacy of People**
- **Get Together and Co-Create**

# Members

As of June 6, 2024

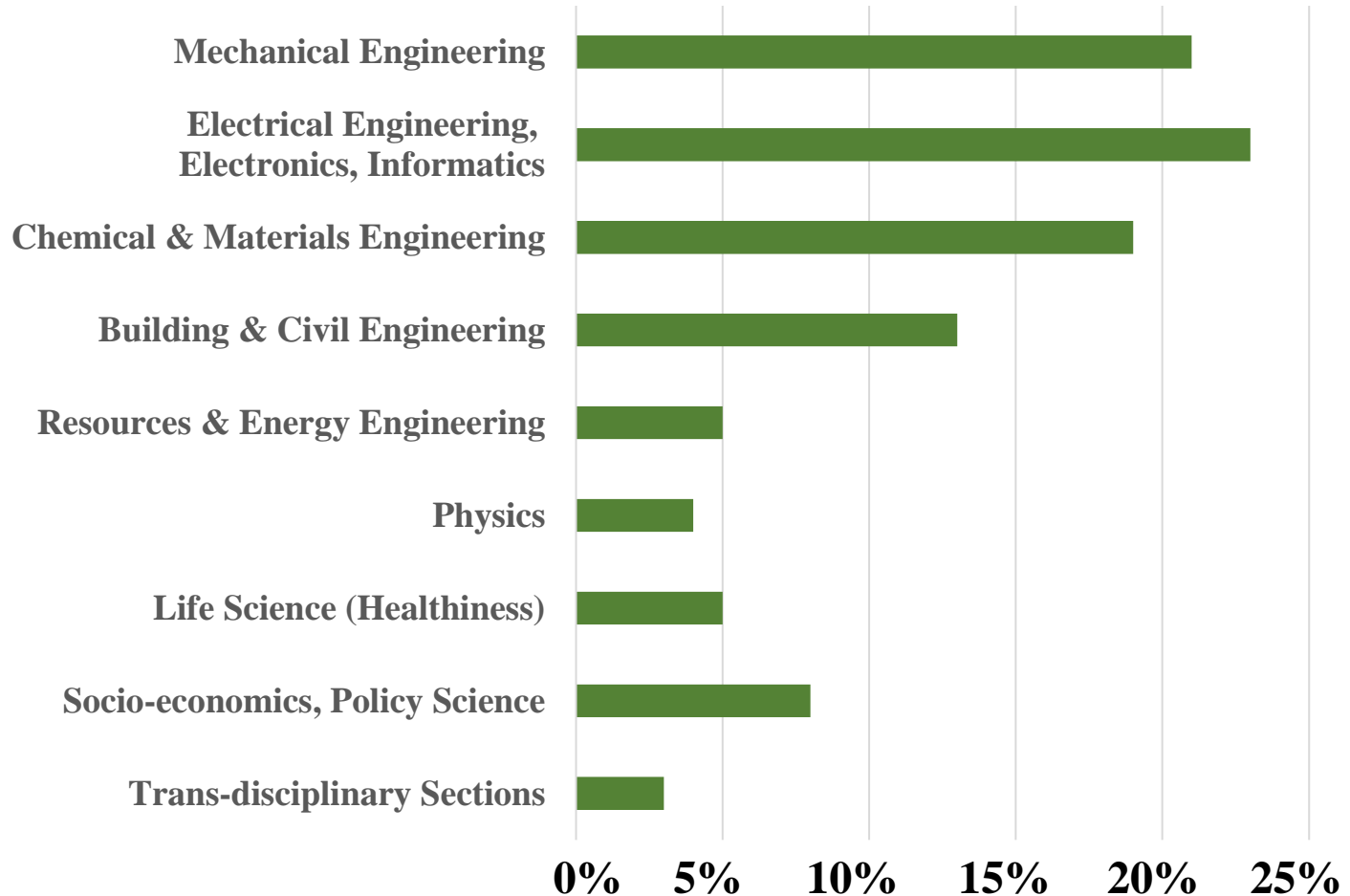


- **Japanese Members: 816**
- **Foreign Associates: 57**
  - Other Academy Members: 17**
  - Non-Japanese Residents: 40**
- **Corporate Members: 49**

# Specialties



As of June 6, 2024



# Board of Directors 2024

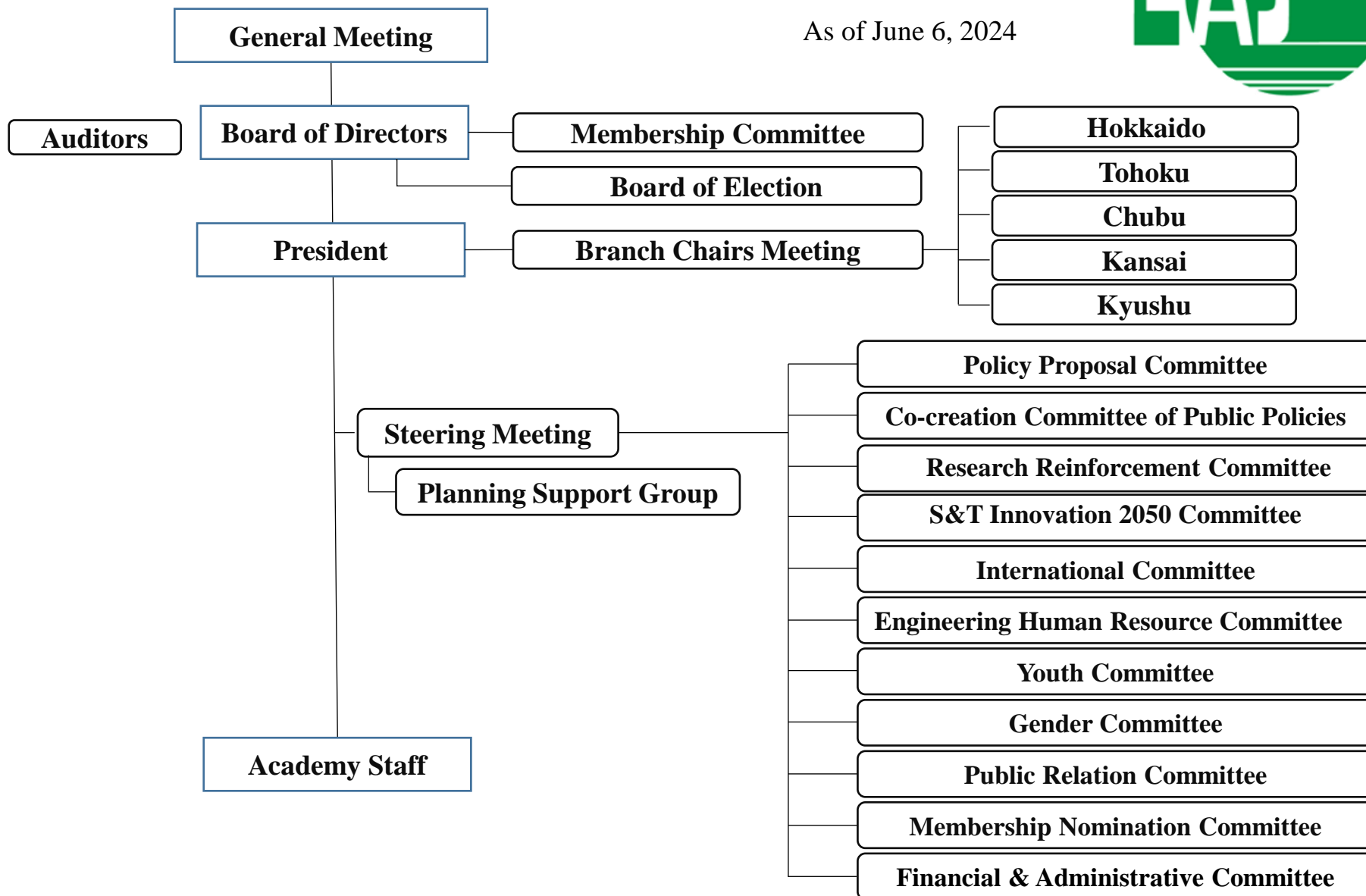


President	Anzai, Yuichiro			
Deputy President	Kishimoto, Kikuo			
Vice President	Igarashi, Jinichi	Kawai, Maki	Oshima, Marie	
Senior Executive Director	Shiroishi, Yoshihiro			
Executive Director	Mutsu, Tetsuya	Tsuboi, Hiroshi		
Director	Asama, Hajime	Hisaeda, Yoshio	Ito, Miho	Iwai, Yoshiro
	Kanzaki, Ryohei	Kawai, Tomoji	Kobayashi, Shinichi	Kusumi Harushige
	Masuda, Takao	Nagasaka, Tetsuya	Nakayama, Tomohiro	Nameki, Yoko
	Oki, Taikan	Omura, Naoto	Sekitani, Tsuyoshi	Setoguchi, Tsuyoshi
	Shiomitsu, Noriko	Taguchi, Yasushi	Tanaka, Mami	Tani, Akito
	Tsukahara, Kenichi	Watanabe, Masayoshi		
Auditor	Hayashi, Hideki	Tsuji, Atsuko		
Supreme Advisor	Yoshikawa, Hiroyuki	Komiyama, Hiroshi	Abé, Hiroyuki	
President Emeritus	Kobayashi, Yoshimitsu			
Advisor	Aoyama, Hiroyuki	Hishida, Koichi	Hori, Yukio	Ikeda, Syunsuke
	Kajiya, Tisato	Kamiyama, Shinichi	Kamon, Masashi	Koizumi, Hideaki
	Kunitake, Toyoki	Kyuma, Kazuo	Matsumoto, Yoichiro	Matsuo, Tomonori
	Misono, Makoto	Mitsui, Tsuneo	Miyagi, Mitsunobu	Nagano, Hiroshi
	Nakamura, Michiharu	Nakanishi, M, Tomoko	Taneichi, Takeshi	Taniguchi, Isao
Advisor/ Distinguished Fellow	Harayama, Yuko			

# Organization



As of June 6, 2024



# Activities



**Engineering  
Experts  
Policy Proposal**

**Global  
Development  
Inter-academy  
Collaboration**

***Engineer the Future  
for human security and well-being***

**Next generation  
Human Resource  
Development**

**Local Development  
Regional Activity**



# *“Engineer the Future”*



## **7<sup>th</sup> EAJ Forum on 2024.06.06 “ The Origin and Growth of the QR code - Learning from the region's first global standard case study- “**

Keynote lectures by Mr. Masahiro Hara, developer of the QR Code, were organized just after EAJ Annual Meeting to discuss the cutting edge of engineering and relationship with society.

## **EAJ Corporate Members Dialogue**

EAJ regularly reviews its activities through exchange of opinions mainly with affiliate companies to strengthen cooperation.

Date	Main Events in Recent Years
2021.11.29/26	Message to Next Innovators - Fascinated by Start-ups and Entrepreneurship
2021.12.17	STI2050 Symposium 2021
2022.05.06	Gender Symposium - Innovation and Diversity
2022.09.16	EAJ Official Side Event at TICAD8 : Let's Work Together Hand-in-Hand with Africa and Japan for Achieving SDGs by Science/Technology/Innovation(STI)
2022.11.10	25th Symposium of East Asia Round Table Meeting (EA-RTM) in Japan "Prevention and Mitigation of Disasters as Climate Change Adaptation"
2023.06.02	6th EAJ Forum "Frontiers of Regenerative Medicine"
2023.07.17~20	16th Japan-America Frontiers of Engineering (JAFOE) Symposium
2023.10.02	The 12th Academy of Engineering President's Meeting (AEPM) at STS Forum 2023 -AI and Human Society-
2023.10.9~10	International Council of Academies of Engineering and Technological Sciences (CAETS) : Croatia
2023.11.2~3	26th Symposium of East Asia Round Table Meeting (EA-RTM) in Seoul "Autonomous Driving for Future Mobility"
2024.03.29	Gender Symposium - Unconscious gender biases and innovation.

# Policy Proposal



As a unique non-governmental engineering academy, EAJ can propose authentic third opinions for all parties concerned.

## Dialogue between Policy Makers and Scientists



2020.12.9 1<sup>st</sup> Meeting  
Science, Technology and Innovation in the  
Post-COVID-19 Era



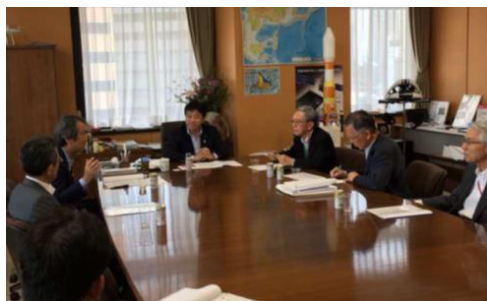
2024.6.5 9th Meeting  
[Materials Science: The State of the Art and  
Future Options](#)

Date	Title
2021.05.13	Mobilizing Science, Technology and Innovation for the Post-COVID Era
2021.05.19	Emergency Recommendation 2021 - Strengthening Support for Graduate Students in the Doctoral Program
2022.02.08	Trends in the Scientific and Technological Development of Human-Machine Symbiosis for a Post-COVID-19 Society” Progress Report
2022.04.11	STI Roadmap to Achieve the Sustainable Development Goals — The Road to 2050
2022.08.25	Promoting STI (Science, Technology and Innovation) for SDGs in Africa - 11 Policy Recommendations from the Engineering Academy of Japan -
2022.11.17	Research on Construction of Inclusive STEM Research Environment
2022.11.20	Research on the Sustainable Development of Biomass Plants toward the Construction of the Carbon-Neutral Society in 2050
2024.03.27	<a href="#">Materials Science: The State of the Art and Future Options</a>

# Major Destination of Policy Proposals



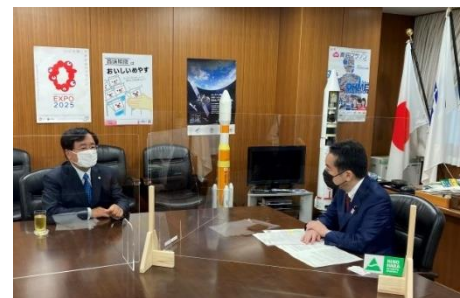
- Policy Proposals are addressed to a variety of relevant organizations in the government, academia and industry.
- We attach great importance to the discussions with the ministers in charge of science, technology and innovation, for implementation of policy proposals.



**Minister TSURUHO**  
in the Cabinet Office  
(center)  
**President ABE** (right)  
(June 2017)



**Minister SHIBAYAMA**  
of MEXT (center)  
**President ABE** (left)  
(May 2019)



**Minister INOUE**  
in the Cabinet Office  
(right)  
**President KOBAYASHI**  
(left)  
(May 2021)



**Minister HAGIUDA**  
of MEXT (center)  
**President KOBAYASHI** (left)  
(May 2021)

# Inter-academy Collaboration



## Inter-academy Meetings

### CAETS

(International Council of Academies of Engineering and Technological Sciences)

2021.09 Buenos Aires “The Future of Energy”

2022.09 Paris “Engineering a better world – Breakthrough Technologies for Healthcare”

2023.10 Zagreb “e2-Mobility”

2024.07 Helsinki “Carbon Neutral Technologies and Society.”

### EA-RTM



(East Asia Round Table Meeting of Academies of Engineering)

25<sup>th</sup> 2022.11 Tokyo “Prevention and Mitigation of Disasters as Climate Change Adaptation”

26<sup>th</sup> 2023.11 Seoul “Autonomous Driving for Future Mobility”

27<sup>th</sup> 2024.11 China “Artificial Intelligence Governance: Ensuring Safe, Reliable, Controllable, and Fair Development of AI Technologies”

### AEPM (Academy of Engineering Presidents’ Meeting)

10<sup>th</sup> 2021.10 Online “Impact of COVID-19 on Science, Technology and Innovation Policy”

11<sup>th</sup> 2022.10 Kyoto “Future-Oriented Engineering Education”

12<sup>th</sup> 2023.10 Kyoto “AI and Human Society”

13<sup>th</sup> 2024.10 Kyoto “AI and Engineering Education”

## Multi-disciplinary Programs for Fostering Young Leaders



### JAFOE

(Japan America Frontiers of Engineering Symposium) by NAE-JST-EAJ

14<sup>th</sup> 2018.06, Tsukuba

15<sup>th</sup> 2021.06, Online

16<sup>th</sup> 2023.07, Tokyo

17<sup>th</sup> 2025.06, San Diego



### ERLEP

(Australia-Japan Emerging Research Leaders Exchange Program)

2009-2017 by ATSE-JSPS-EAJ

## The Joint Symposium of ERLEP Trans-Disciplinary Forum by ATSE-EAJ

1<sup>st</sup> 2017.12, Fukuoka

2<sup>nd</sup> 2018.12, Melbourne

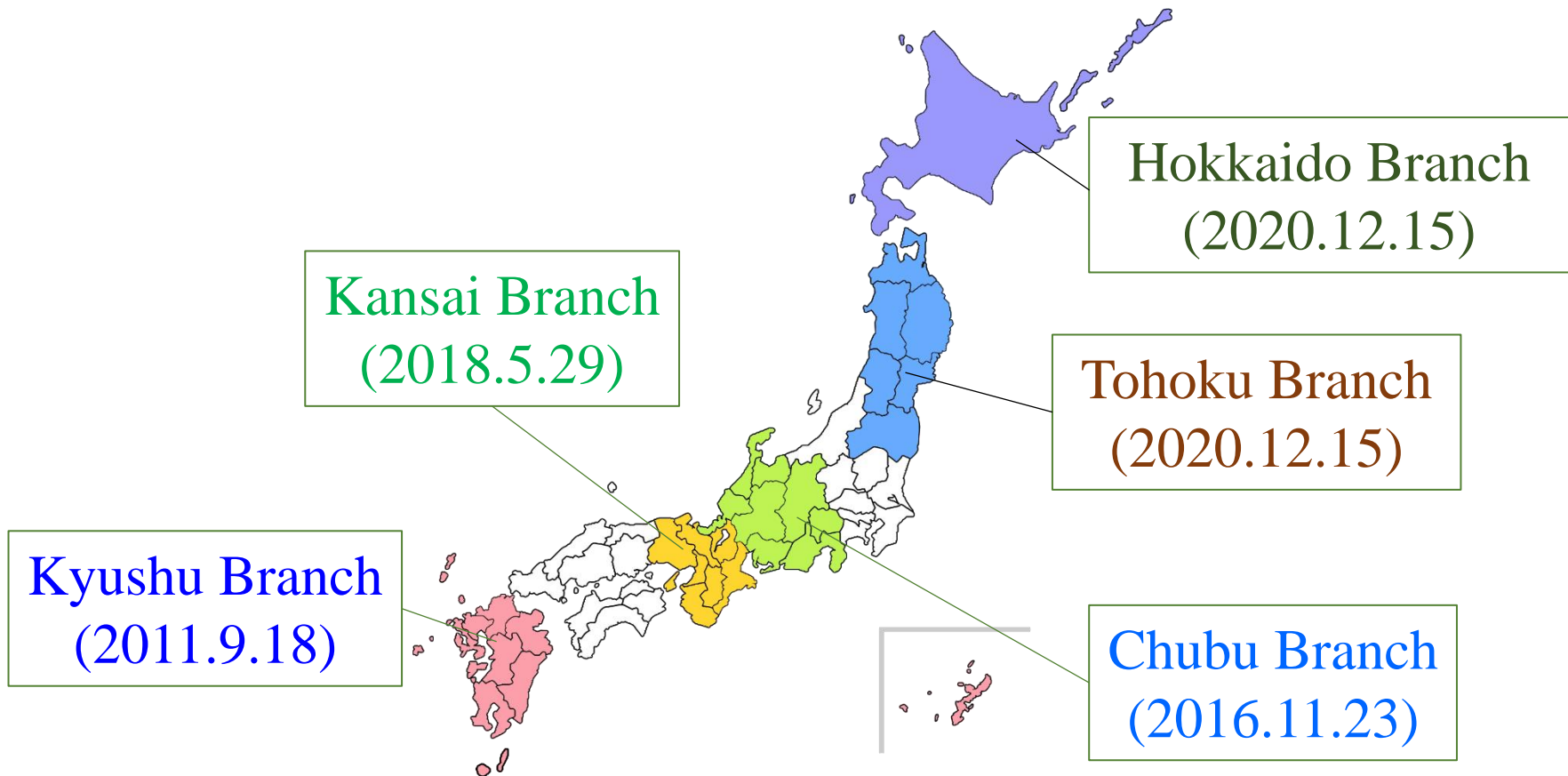
3<sup>rd</sup> 2019.10, Sapporo

4<sup>th</sup> 2024.11, Melbourne

# Regional Activity



- Contribute to regional development
- Local activities for EAJ members
- Nation-wide distribution of EAJ members and activities



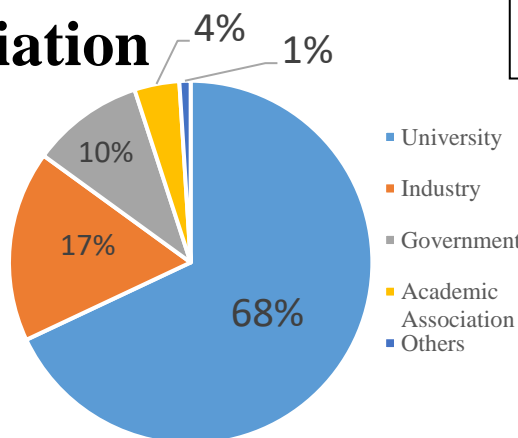
# Challenges for Human Resource Development



## Increase of Industry Ratio

**2017:17%**  
**2022:19%**  
**2024:17%**

## Affiliation



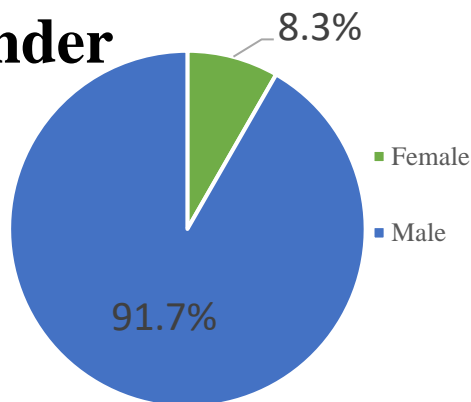
## Young Membership

- More young regular members
- Encourage young generation
- Autonomous management

## More Female Members

**2017:4%**  
**2022:7.5%**  
**2024:8.3%**

## Gender



## Foreign Nationality Member

Invite high-class engineering personnel without Japanese nationality as an EAJ member.