

# Overview of the AAA activities

**Oct. 30, 2019**

**Masanori Matsuoka**

**Secretary General, Advance Accelerator Association  
promoting science & technology**



**Advanced Accelerator Association Promoting Science & Technology**

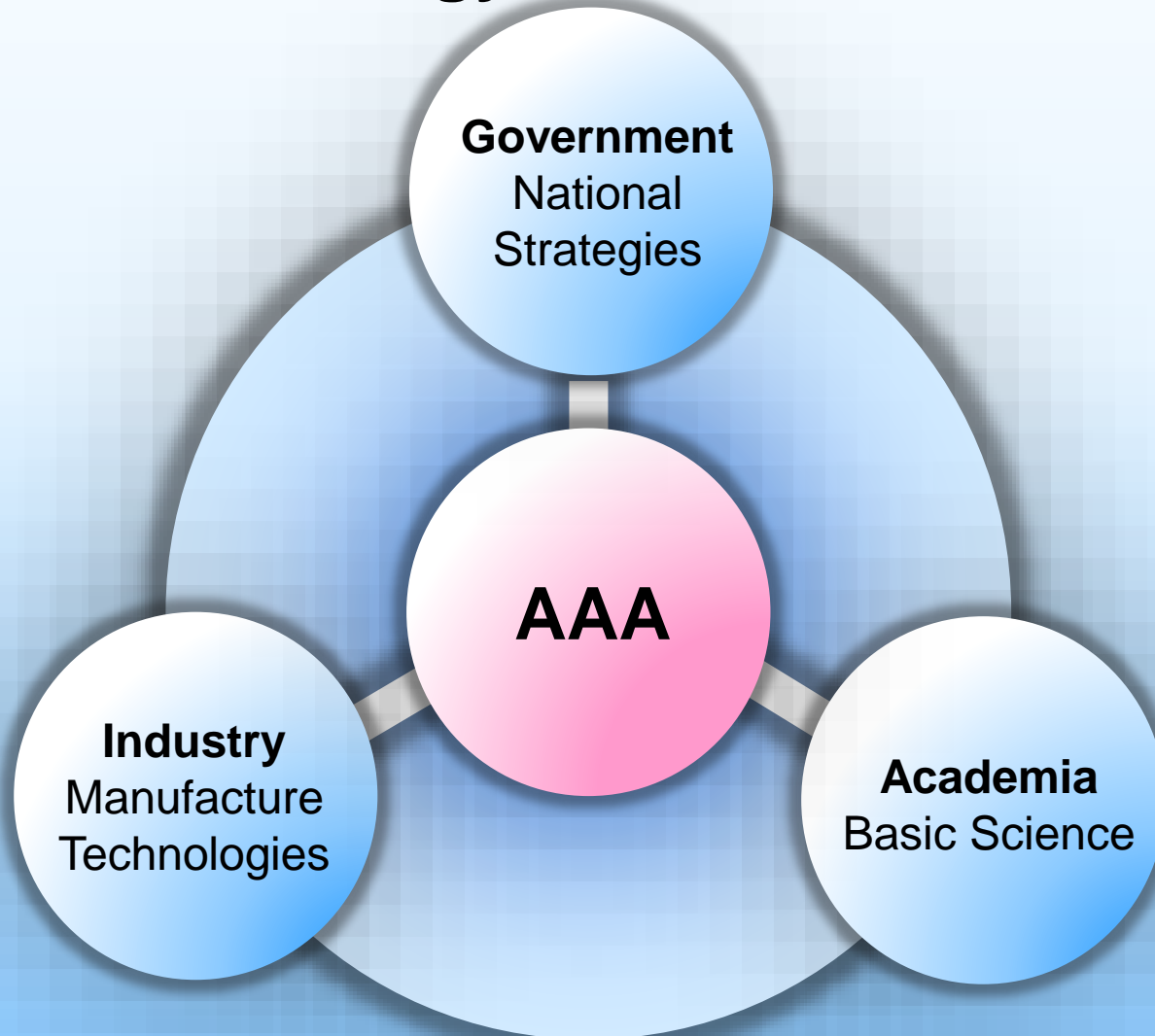


- Introduction
- Recent activities
- Conclusion

# Our vision



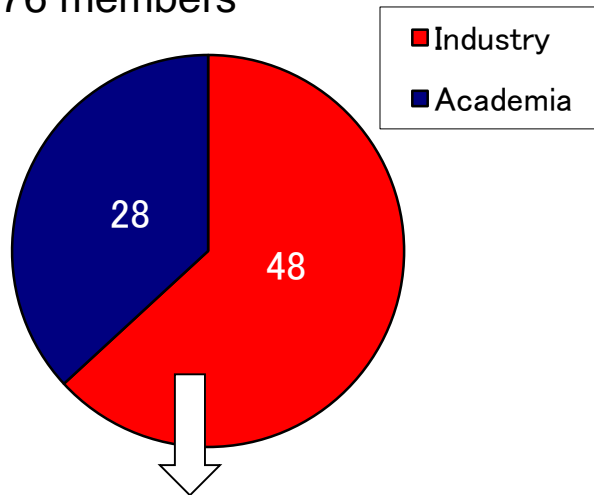
## Affluent Future with Advanced Accelerator Science & Technology



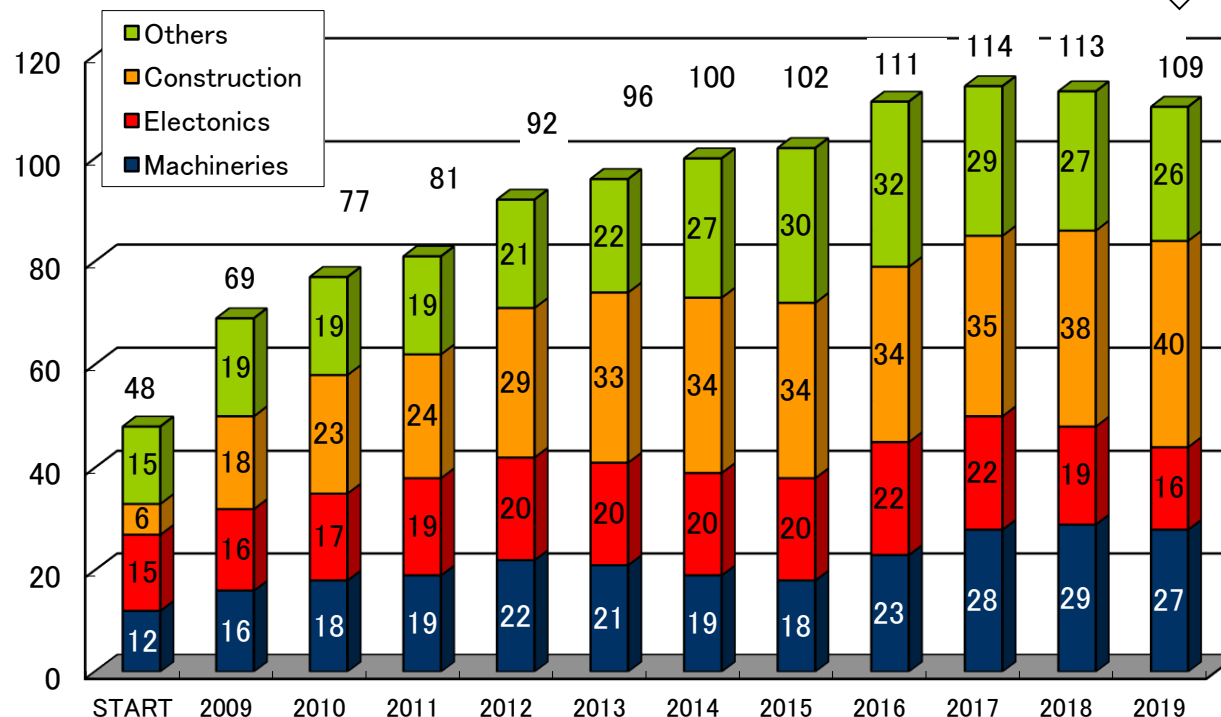
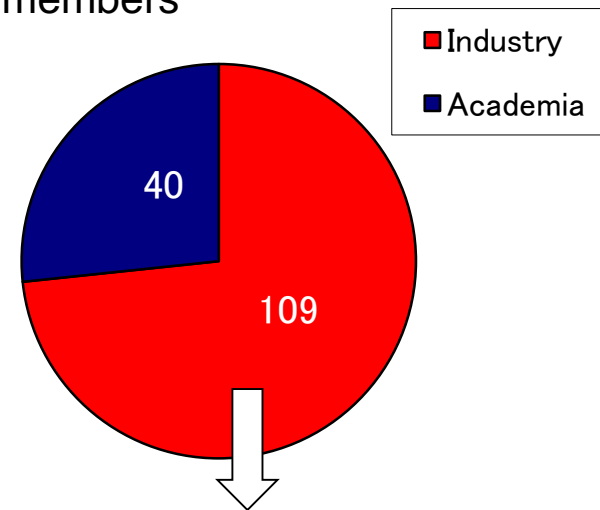
# Member of AAA



76 members



150 members



**Members have increased double since establishment and their business area become to diversify.**

**We need more members to promote the ILC project with getting the public understanding.**

# AAA Members from Industry

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Akita Fine Blanking Corporation  
Applied Metal R&D Co.  
**ASIA AIR SURVEY CO., LTD.**  
ATOX Co., Ltd.  
Azbil Corporation  
AZUSA SEKKEI CO., LTD.  
**Canon Electron Tubes & Devices Co., Ltd.**  
Carbon dioxide Reduction Institute Inc.  
CITIZEN WATCH CO., LTD.  
COSMOTEC Corporation  
DIA CONSULTANTS CO., Ltd.  
Electric Power Development Co., Ltd.  
Fujikura Ltd.  
FUJITA Corporation TOHOKU  
Fujitsu Limited  
Fukken Co., Ltd.  
Fukken Gijyutsu Consultants Co., Ltd.  
Fukuyama Consultants Co., LTD.  
GIGA  
HAZAMA ANDO CORPORATION  
**Higashi-Nihon Kidenkaiatsu Co., Ltd.**  
Hitachi Technologies and Services, Ltd.  
Hitachi Transport System, Ltd.  
Hitachi Zosen Corporation  
**Hitachi, Ltd.**  
JFE Steel Corporation  
KABUKI CONSTRUCTION CO., LTD.  
**KAJIMA CORPORATION**  
KANDENKO CO., LTD.  
Kawasaki Geological Engineering Co., Ltd.  
KDC Engineering Co., Ltd.  
Kinden Corporation  
Kumagai Gumi Co., Ltd.  
KURARAY CO., LTD.  
KUROKI COMPOSITES CORPORATION  
K-VAC Co., Ltd.  
**Kyocera Corporation**

KYUSHU ELECTRIC POWER CO., INC.  
**Maeda Corporation**  
**MARUI GALVANIZING CO., LTD.**  
**MAYEKAWA MFG. CO., LTD.**  
Meidensha Corporation  
**Metal Technology Co. Ltd.**  
**MIRAPRO Co., Ltd.**  
**Mitsubishi Electric Corporation**  
**Mitsubishi Electric System & Service Co., Ltd.**  
**Mitsubishi Heavy Industries Machinery Systems, Ltd.**  
**Mitsubishi Heavy Industries, Ltd.**  
Mitsubishi Materials Corporation  
Mitsui Consultants Co., Ltd.  
Mitsui E&S Engineering Co., Ltd.  
NEC Corporation  
Net One Systems Co., Ltd.  
**NICHICON CORPORATION**  
Nihon Axis Co., Ltd.  
Nihon Koshuha Co., Ltd.  
Nikken Sekkei Ltd.  
Nippon Advanced Technology Co., Ltd.  
Nippon Civic Consulting Engineers Co., LTD.  
NIPPON STEEL CORPORATION  
**Nishimatsu Construction Co., Ltd.**  
Nomura Plating Co., LTD  
**NTT FACILITIES, INC.**  
**OBAYASHI CORPORATION**  
OHBA & CO.  
OKUMURA CORPORATION  
Oriental Consultants Co., Ltd.  
**OYO CORPORATION**  
PACIFIC CONSULTANTS CO., LTD.  
PASCO Corporation  
Penguin System Co., Ltd.  
Penta-Ocean Construction Co., Ltd.  
**R&K Company Limited**  
Rigaku Corporation

SAN-AI PLANT CO., LTD.  
Seibu Polymer Corporation  
Shimadzu Corporation  
**SHIMIZU CORPORATION**  
SHINOHARA PRESS SERVICE CO., LTD.  
**SOHGO SECURITY SERVICES CO., LTD.**  
Sumitomo Heavy Industries, Ltd.  
**Sumitomo Mitsui Construction Co., Ltd.**  
**TAISEI CORPORATION**  
**TAIYO NIPPON SANSO Corporation**  
TAIYO, NAKAJIMA & KATO  
**Takasago Thermal Engineering Co., Ltd.**  
Takenaka Civil Engineering & Construction Co., Ltd.  
**Takenaka Corporation**  
TECHNOFLEX COORPORATION  
TEKKEN CORPORATION  
THALES JAPAN  
TOA CORPORATION  
**TOBISHIMA CORPORATION**  
**TODA CORPORATION**  
Tohoku Electric Power Co., Ltd.  
**TOKIN Corporation**  
**Tokyo Denkai Co., Ltd.**  
Tokyo Electric Power Services Co., Ltd.  
Tokyu Construction Co., Ltd.  
Toshiba Energy Systems & Solutions Corporation  
TOYAMA Co., Ltd.  
**UBER CO., LTD.**  
Ultra Finish Technology Co., Ltd.  
ULVAC TECHNO. Ltd.  
ULVAC, Inc.  
Urban Planning and Design Institute Co., Ltd.  
**WING Co., Ltd.**  
Yachiyo Engineering Co., Ltd.  
YAMASHITA SEKKEI INC.  
(Total of 109 corporate organizations )

**33 companies of AAA** exhibited at LCWS2019.

# Organization

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**Eternity Supreme Advisor**  
The late Kaoru Yosano

**Honorary Chair**  
Masatoshi Koshiba

**Representative Director**  
Takashi Nishioka

**Supreme Advisor**  
Takeo Kawamura  
**Special Advisor**  
Hiroya Masuda  
Hiroaki Takahashi  
**Senior Advisor**  
Yoichi Tao  
Junichi Nishiyama  
Masao Ninomiya  
Toshiyuki Sakamoto

**Chair**  
Takashi Nishioka  
**Vice Chair**  
Atsuto Suzuki

**Director**  
Atsuto Suzuki  
Masanori Yamauchi  
Yuzo Onishi  
Masahiro Inagaki  
Mamoru Hatazawa  
Hiroyuki Uozumi  
Koichi Orito  
Kunihisa Yamura  
**Auditor**  
Sachio Komamiya

**General Meeting**  
Corporate Organizations  
and Institutional Organizations

**Secretariat Secretary General**  
Masanori Matsuoka

**Technology Study Gr.**  
**Leader:** Hitoshi Hayano

The group aims to improve public awareness of the latest basic science and to explore novel technologies and industrial application

**Outreach Gr.**  
**Leader:** Hiroyuki Yoshizumi

This group broadly disseminates potential and industrial applications of advanced accelerators and enhances the domestic public understanding toward the realization of the ILC.

**Project Promotion Study Gr.**  
**Leader:** Satoru Yamashita

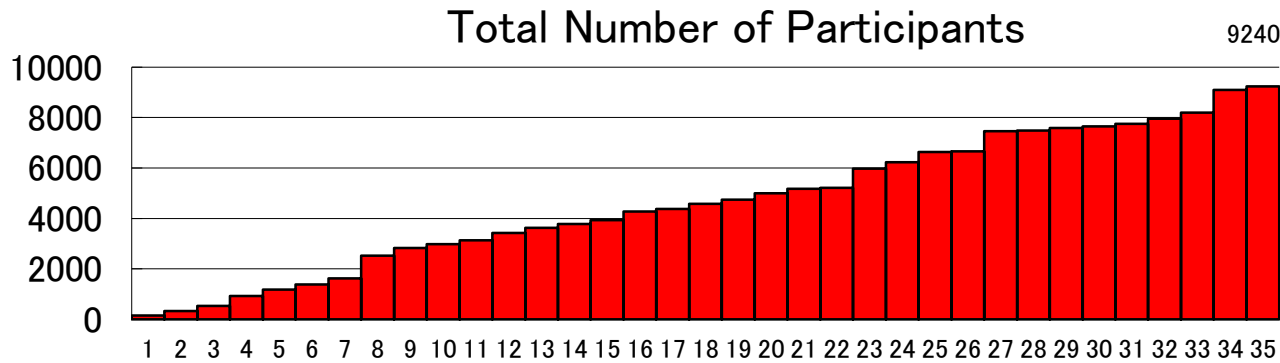
This group studies actual cases of large projects, existing site-related challenges on the ILC construction, and the social benefits from the ILC. It also promotes cooperation with the Diet members.



- Introduction
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# Symposiums at the various cities in Japan

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No.17 Washington, D.C.  
 No.22 Washington, D.C.  
 No.26 Washington, D.C.  
 No.28 Washington, D.C.  
 No.30 Spain

No.11 Sapporo

No.4 Fukuoka  
 No.9 Fukuoka  
 No.13 Fukuoka

No.6 Kyoto  
 No.3 Hiroshima

No.18 Niigata  
 No.15 Matsumoto

No.8 Oushu  
 No.23 Oushu  
 No.27 Oushu  
 No.33 Oushu

No.2 Sendai  
 No.16 Sendai

No.21 Tsukuba

No.20 Tokyo

No.24 Tokyo

No.25 Tokyo

No.29 Tokyo

No.31 Tokyo

No.32 Tokyo

No.34 Tokyo

No.35 Tokyo

No.1 Tokyo

No.5 Tokyo

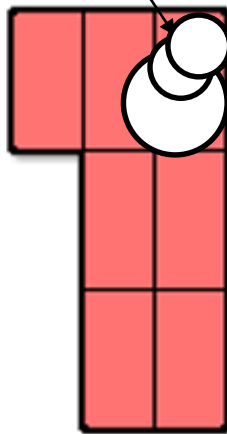
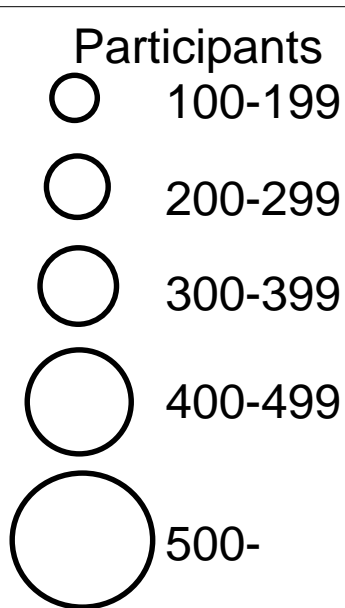
No.10 Tokyo

No.12 Tokyo

No.14 Tokyo

No.19 Tokyo

No.7 NAGOYA





# ILC Supporters & ILC 100 Committee

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15, Oct 2019 : ILC Supporters event (Re-start)



29, Jun 2018 : Establishment Ceremony of ILC 100 Committee

In order to get public understanding,  
ILC Supporters is planning to promote new activities  
linked to SNS in collaboration with ILC100 Committee.



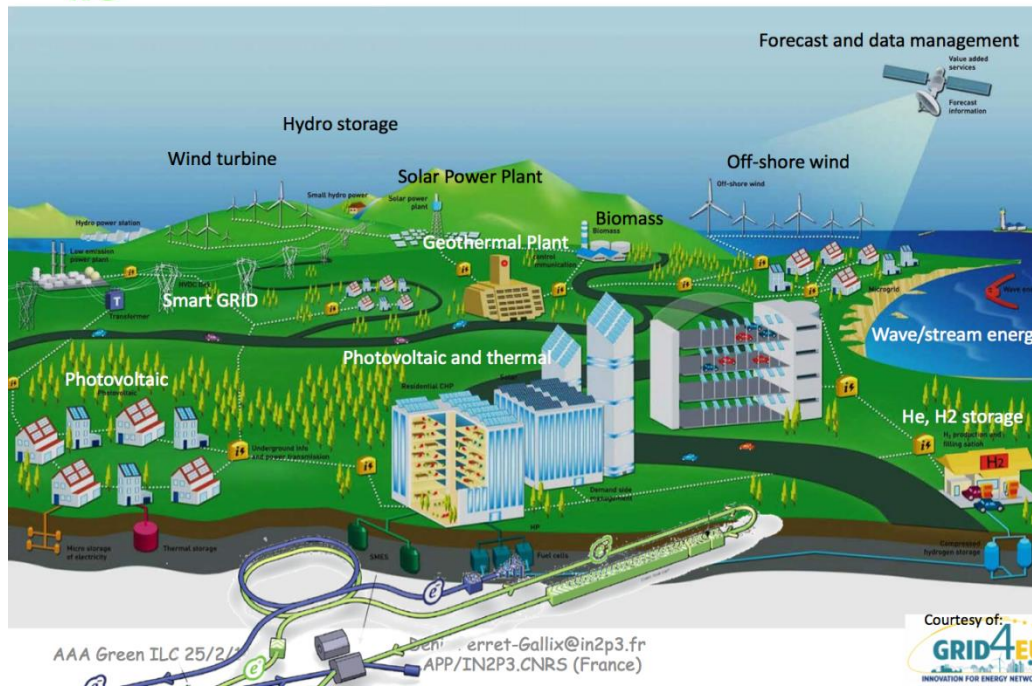


- (1) Technical Seminar (4~5/year)
  - Cost-down technology in Accelerator
  - Ultra-High-Speed switching device
  - Current status of Ion Accelerator
  - Advanced Electron Accelerator Technology
  - ILC Nb-cavity Surface Technology and KEK site-tour
  - Application of electron accelerator and its radiations
- (2) Green-ILC working group (~2/year)
  - Energy saving technologies and Status of local green industries
- (3) Accelerator Technology Symposium (~1/year)
  - Development of ILC cost-saving technology with industries presentations





## ILC center futuristic view



The 16<sup>th</sup> AAA Green-ILC WG meeting was held on 17<sup>th</sup> October 2019 at Manseibashi / Tokyo in Japan.

3 proposals were presented and discussed in the meeting.

- 1) "Green-ILC activities at Tohoku area." by M. Yoshioka (Tohoku Univ., Iwate Univ. Iwate Prefectural Univ.)
- 2) "The road towards electric power derived from 100% renewable energy (RE100)." by T. Fujinawa (RIKEN Nishina Center)
- 3) "Achievements and Prospects of Solid-State RF Power Amplifier towards Green Accelerator." by S. Hihara (R&K Company Limited)

D. Perret-Gallix, T. Saeki, and H. Hayano opened the interactive home page for Green-ILC activities.

Please visit <http://green-ilc.in2p3.fr/> and <http://green-ilc.in2p3.fr/documents/>.



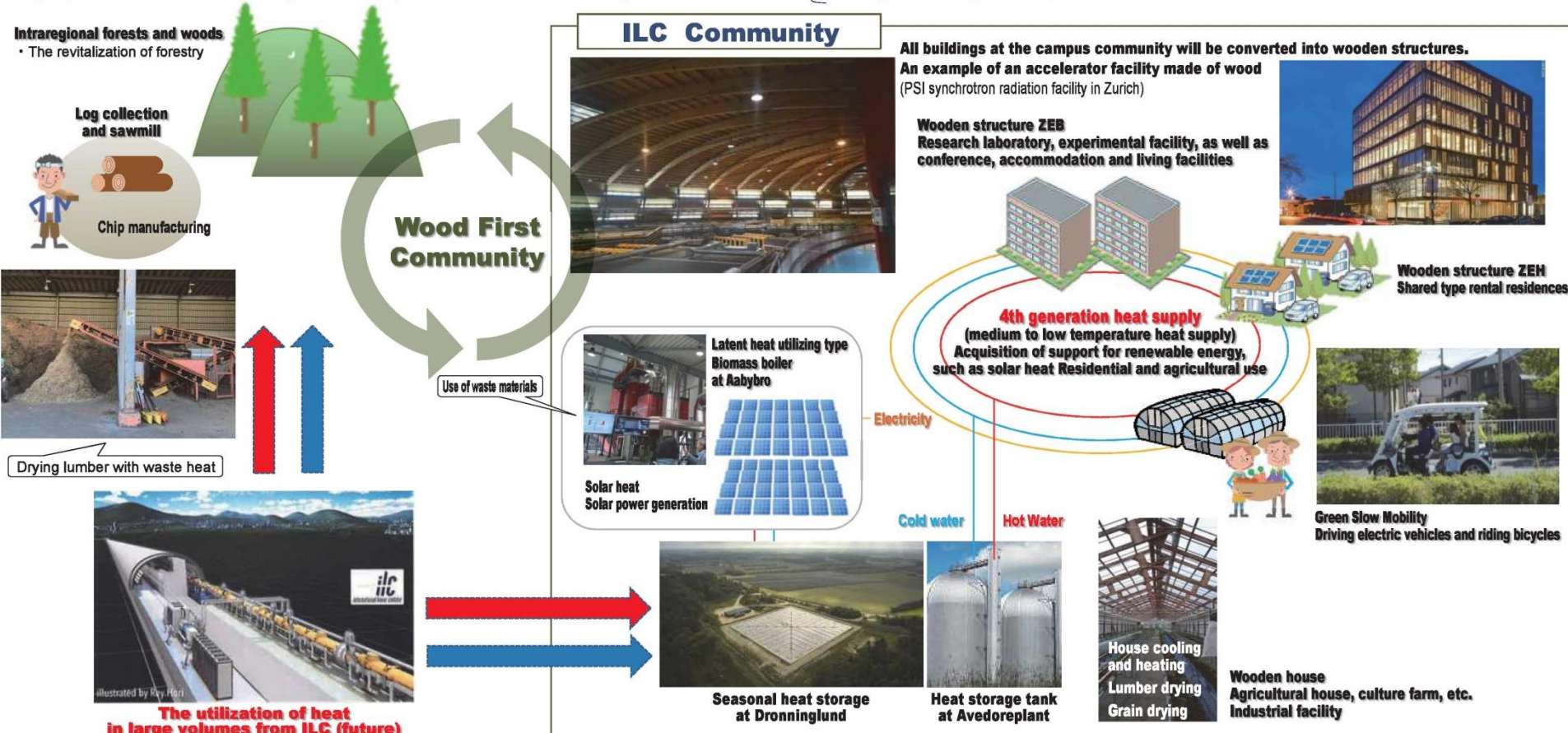
# Forest and heat link the ILC with the region

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- The recycling society of forest and heat activates regional industries
- The establishment of the ILC is considered as an opportunity to resolve various issues of the region, with the creation of a next-generation city that evolves and leads to regional revitalization

- Wood First: Erecting buildings entirely with wood and utilizing waste material biomass
- Zero Emissions: Maximizing renewable energy in the community
- Society 5.0: Energy, mobility, information and health care



Regional Revitalization and Community Development Work Group,  
Project Promotion Study Group of AAA.

# International events(USA)



**US-Japan Advanced Science and Technology Symposium in Washington DC in 2013**



**The US-Japan Public and Private Partnership in Science and Technology, in Washington DC in 2017**



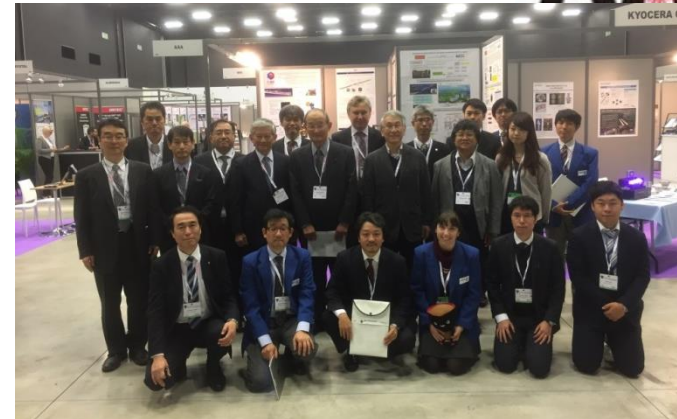
**The Honorable Paul M. Dabber Under Secretary for Science, had a meeting with Japanese Diet members in Tokyo in 2018**



# International events(EU)



**Collaboration Opportunities on Fusion and Accelerator Technologies and Projects, between Spanish and Japanese Organizations in 2015**



**2016 IEEE NSS/MICRTSD in Strasbourg**

**Meeting in Paris**



**Meeting in Berlin**



**Meeting between Hon. Becht, a member of French National Assembly and Mr. Nishioka in Tokyo in May, 2018**

**Diet Members visited France and Germany to have meetings with Parliament members in July, 2019**



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# To Gain Public Support

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**Through our activity, we continue to inform the public of not only great scientific significance of ILC but also the other benefits.**

## Local economical Impact

Economical effect from International academic city

## Technology Improvement

technology improvement by tackling the cutting edge manufacturing

## Human Resource

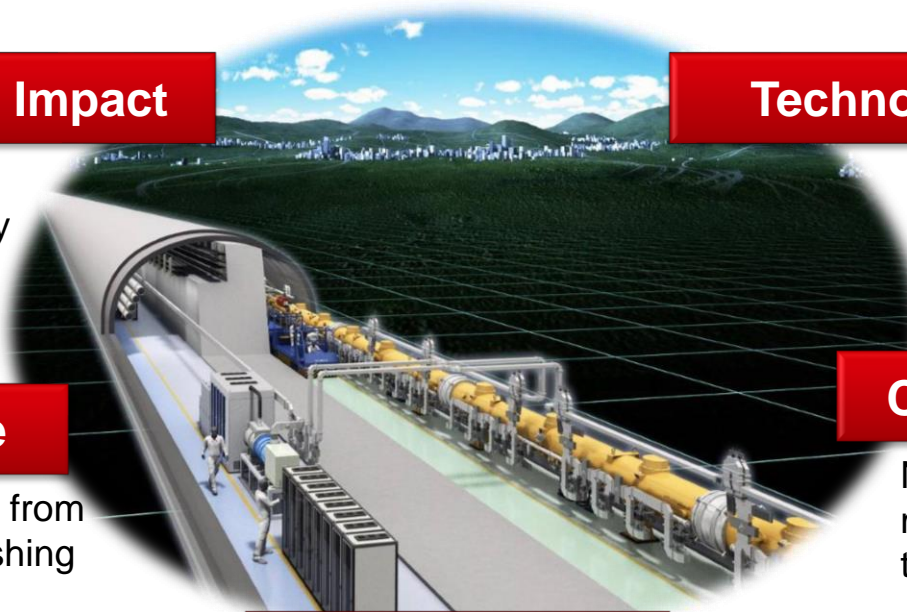
Gathering superior people from all over the world and pushing up our educational level, especially science field

## Creating New Market

New products and new market created from ILC technology

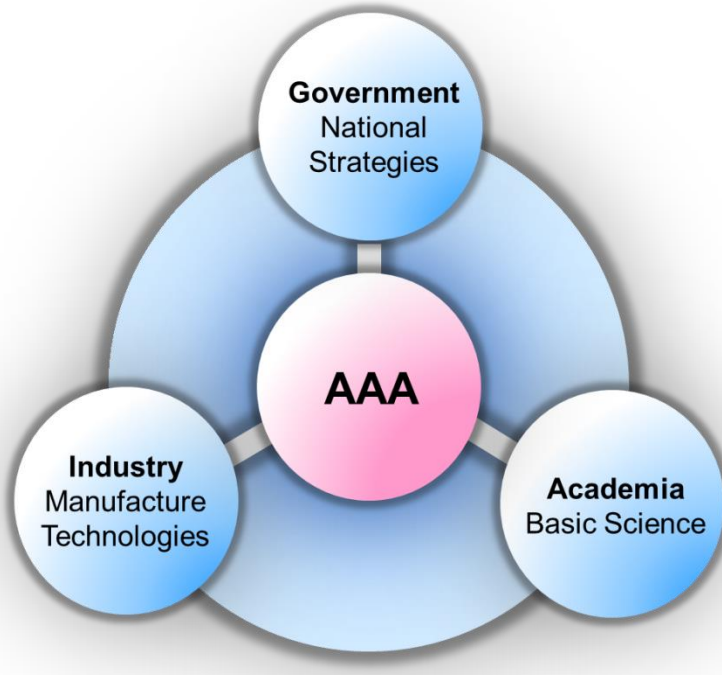
## Innovation

The new idea from ILC leading to innovation beyond our imagination





- AAA general meeting resolved to promote the ILC in collaboration with the local organization more closely.
- We should increase members to move the ILC forward steadily.



Diet Members and AAA directors at the general meeting of AAA. Mr. Yamura who is the chair of the Iwate prefecture ILC promotion counsel was appointed to be a director of AAA.



**Thank you for visiting our booth and getting the ILC items !**