Japan ASEAN High-level Roundtable on Science, Technology and Innovation

Date and Time: 9:00-13:30, April 22, 2024, followed by networking lunch (13:30-14:30)
Venue: Room CC2, OECD Conference Centre, 2 rue André-Pascal, 75016 Paris
(The lunch will be served at Room Roger Ockrent in Chateau)

Organizers:
Ministry of Education, Culture, Sports, Science and Technology (MEXT),
ASEAN Secretariat, and Japan Science and Technology Agency (JST)
Co-Organizer:
Cabinet Office of Japan

Objective:

To gather influential STI figures from Japan and ASEAN member states where delegates are anticipated to present interventions concerning policies and programs that could advance the progression of STI within the region.

Participants:

<Japan> ***last name alphabetical order***

HASHIMOTO, Kazuhito	Science and Technology Advisor to the Cabinet, and President of Japan Science and Technology Agency (Japan)
KOYASU, Shigeo	Science and Technology Advisor to the Minister of Education, Culture, Sports, Science and Technology, and President of the National Institutes for Quantum Science and Technology (Japan)
UEYAMA, Takahiro	Chief Executive Member, Council for Science, Technology and Innovation (CSTI), Cabinet Office of Japan (Japan)

< ASEAN Secretariat>

SINGH, Satvinder	Deputy Secretary-General of ASEAN

<ASEAN Member States> ***alphabetical order of countries***

ABDUL LAMIT, Datin Rakiah	Ambassador, Brunei Darussalam Embassy in Paris (Brunei Darussalam)
HUL, Seingheng	ASEAN COSTI Chair, Ministry of Industry, Science, Technology & Innovation (MISTI) (Cambodia)
ONTOWIRJO, Boediastoeti	Deputy Chairman for Research and Innovation Policy, National Research and Innovation Agency (Indonesia)
KHITCHADETH, Kham-Inh	Ambassador Extraordinary and Plenipotentiary in France, Permanent Delegate. (LaoPDR)
NALLAMUTHU, Balamurugan	Undersecretary (International Division), Ministry of Science, Technology and Innovation (MOSTI) (Malaysia)
ZEYA, Kyaw	Ambassador and Permanent Delegate, Permanent Delegation of Myanmar to UNESCO (Myanmar)
SOLIDUM, Jr. Umali Renato	Secretary (Minister), DOST (Philippines)
CALZADO, Jr. Jayme Rodolfo	Assistant Secretary (Director General) (Philippines)
HOR, Andy Tzi sum	Deputy Chief Executive (Research), Agency for Science Technology and Research (A*STAR) (Singapore)

ISARABHAKDI, Supamas	Minister of Higher Education Science Research and Innovation (Thailand)
SMANSIN, Luksmon	Director of International Affairs Division, Ministry of Higher Education, Science, Research and Innovation (Thailand)
TRAN, Manh Hung	Director, Vietnam Office for Science and Technology in France, Ministry of Science and Technology of Vietnam and Embassy of Vietnam in France (Vietnam)

<OECD>

SHEEHAN, Jerry	Director, Directorate for Science, Technology and Innovation, OECD

Agenda:

9:00-9:15	Opening Remarks Dr. Shigeo, Koyasu, Advisor to the Minister of MEXT H.E. Satvinder Singh, the Deputy Secretary-General for ASEAN Economic Community Dr. Jerry Sheehan, Director, Directorate for Science, Technology and Innovation, OECD
9:15-10:30	Session I: Discussion on policy layers (Chair: Dr. Ueyama)
10:40-11:55	Session II: Discussion on program layers (Chair: Dr. Hashimoto)
12:05-13:20	Session III: Presentation ASEAN-wide science and technology policies (Chair: H.E. Dr. Hul)
13:20-13:30	Summary and Closing Remarks Dr. Shigeo, Koyasu, Advisor to the Minister of MEXT H.E. Satvinder Singh, the Deputy Secretary-General for ASEAN Economic Community
13:30-14:30	Networking Lunch (Room Roger Ockrent in Chateau)

Discussion points and session structure：

9:15-10:30 Session I: Discussion on policy layers led by Dr. Ueyama, Chief Executive Member, Council for Science, Technology and Innovation (CSTI), Cabinet Office, Japan

<Discusstion Point>

The member states of ASEAN, and Japan are brimming with vitality as a global growth center, so the timing is right for science and technology cooperation to sublimate in the perspective and form of “innovation creation through co-creation” and move to the next stage of accelerating growth, even in a global society in transition.

ASEAN and Japan are actively discussing science, technology, innovation policies, and the direction of cooperation as an association in the ASEAN-Japan Cooperation Committee on Science and Technology (AJCCST). As we face complex and compounding challenges such as climate change, inequality, public health crises, digitalization, and AI governance, it goes without saying that accelerating growth and advancing science, technology, and innovation in each country requires agile policies and strategies based on each country's specific circumstances.

Therefore, in this session, we will first share the latest science, technology, and innovation policies, including visions, plans, areas of priority initiatives, and challenges faced by each country. In depth discussions will then follow from a policy perspective on how synergies can be generated among the policy issues of each country to promote collaboration through harmonious "co-creation" in a mutually complementary manner. Through discussions on common policy issues and the convergence of common issues between Japan and ASEAN member states, we aim to achieve competitive, innovative, and dynamic "innovation creation through co-creation" in the future.

Points of Discussion:

- The latest science, technology, and innovation policies (including collaboration between academia and industry to create an innovation ecosystem)
- Priority initiatives and areas
- Challenges faced by each country in implementing the above

<Structure>

9.15 -9.22 Keynote speech from Dr. Ueyama [about 7 minutes].

9.22-9.55 Intervention from participants [about 33 minutes. 3 min. x 11 participants].

9.55-10.25 Exchange of opinions [about 30 minutes].

10.25-10.30 Summary by Dr. Ueyama [5 minutes]

10:40-11:55 Session II: Discussion on program layers led by Dr. Kazuhito Hashimoto, Science and Technology Advisor to the Cabinet, Japan, President of Japan Science and Technology Agency (JST)

<Discusstion Point>

The role of science and technology is changing in response to the world situation, including the recent pandemic caused by COVID-19, rising geopolitical tensions, and the rapid development of emerging technologies. For example, the OECD report: STI Outlook 2023, published March 2023, points to the securitisation of STI policies. In other words, it is considered that STI topics, such as climate change, clean energy, food and water, global health, which were not previously considered as security issue directly, are now being treated as part of the security agenda. Under such circumstances, it is no longer possible for a single country to address such changes on its own. Therefore, international collaboration with partners who share the same value is more important than ever. In particular, Japan and ASEAN mark the 50th year of friendship and cooperation in 2023 and this is a golden opportunity for us to further fostering "heart-to- heart" relationship of mutual trust, mutual understanding, and mutual respect as trusted partners for the next 50 years.

In terms of STI collaboration, it is the fact that Japan and ASEAN and its member states have a long history to solve social challenges such as disaster prevention, civil engineering, and the environment problems together. While recognizing the above situation, **we try to expand our collaboration in emerging technologies**, for example, AI, Quantum technology, semiconductor, and bio-technology, in addition to our traditional joint research that has contributed to solving the said social challenges. **We hope to further strengthen research partnerships and build a 'complementary and sustainable research ecosystem' as co-creating partners with ASEAN and its member states. We should strategically promote collaboration through various modalities, taking into account the diversity of ASEAN Member States and the specific needs and focus areas among us**. Based on this idea, Japan has allocated a new budget to facilitate collaboration in science, technology, and innovation among us, and launched the new program called **"NEXUS:Networked Exchange, United Strengths for Stronger Partnerships between Japan and ASEAN"**. Aproximately100 million USD will be budgeted for this program to support joint research and human resource exchange, capacity development and establish platforms for cooperation so that we grow together as partners for co-creation. **Especially, human resource development has not kept pace with the rapid technological development, and the shortage of human resources for the emerging technologies has become a common challenges among us. Thus, we could tackle such challenges by training research talent together through research talent mobility and circulation.** The strong and sustainable network of researchers among us is critical to co-create new innovations and sustainable ecosystem for the benefit of both Japan and ASEAN and its member states.

In this roundtable, we would like to discuss ideas for making such efforts successful, as well as challenges that should be overcome through co-working and co-creation among us. Your insights on your country's key policies, growth strategies, especially in talent development, and your expectations for Japan, among other aspects, will be highly appreciated.

<Session Structure>

10.40-10.47 Keynote speech from Dr. Hashimoto [about 7 minutes].

10.47-11.20 Intervention from participants [about 33 minutes. 3 min. x 11 participants].

11.20-11.50 Exchange of opinions [about 30 minutes].

11.50-11.55 Summary by Dr. Hashimoto [5 minutes]

12:05-13:20 Session III: Presentation of ASEAN at the Forefront: Integrative Strategies for STI Leadership in a Dynamic World, led by ASEAN COSTI Chair, H.E. Dr Hul Seingheing (Presented by COSTI Cambodia, H.E. Dr. Try Sophal)

<Discussion Points>

This session will focus on ASEAN's collaborative approach to Science, Technology, and Innovation (STI) leadership amidst evolving global challenges. Following the insights shared in the first two sessions about the policy and program layers and given the changing role of STI in addressing global issues such as climate change, health crises, joint research & development project, Talents in STEM, Innovation infrastructure development, and technological advancements and technology transfer, this session will explore how ASEAN can enhance its regional cooperation to establish a robust, sustainable, and innovative ecosystem.

Delegates will discuss how ASEAN, leveraging its unique strengths and diverse capabilities, can lead in formulating and implementing high-impact STI policies that not only address regional needs but also contribute to global advancements. The discussion will also cover ASEAN's role in fostering a culture of co-creation and shared expertise among member states, enhancing regional capacities in emerging technologies, and aligning these efforts with global STI agendas for maximum impact.

Key topics for discussion will include:

- Strengthening ASEAN's integrative STI policies to enhance regional and global leadership.
- Harnessing collective ASEAN strengths to address specific STI challenges including digital transformation in manufacturing industries, sustainable development, and human capital development in STI sector.
- Building effective partnerships within ASEAN and with external partners to accelerate innovation and technological advancement.

The session aims to identify actionable strategies that ASEAN can adopt to remain at the forefront of STI, ensuring that it not only responds to current trends and challenges but also shapes future STI landscapes globally.

<Session Structure>

12.05-12.12 Keynote speech from Dr. Hul Seingheing [about 7 minutes].

12.12-12.45 Intervention from participants [about 33 minutes. 3 min. x 11 participants].

12.45-13.15 Exchange of opinions [about 30 minutes].

13.15-13.20 Summary by Dr. Hul Seingheing [5 minutes]

Notes:

- This meeting is held under the Chatham House Rule: participants are free to use the information received, but the identity and affiliation of speakers and other participants should not be made public.
- The discussion summary will be published as “Discussion Summary” after confirmation of all participants.
- Photography at today's roundtable and networking lunch will be handled by the Secretariat, so please refrain from taking photos.

Contact:

Osamu KOBAYASHI(Mr.) okobayas@jst.go.jp Tell: +81-90-1883-2194
and Kana ASANO(Ms.) k2asano@jst.go.jp Tell: +81-90-1424-2077
Japan Science and Technology Agency

Biographies

Organizers

KOYASU, Shigeo **Science and Technology Advisor to the Minister of Education, Culture, Sports, Science and Technology, and President of the National Institutes for Quantum Science and Technology (Japan)**

Dr. Shigeo Koyasu was born in Tokyo in 1955 and graduated from the Department of Biophysics and Biochemistry, Faculty of Science, the University of Tokyo in 1978. He was appointed as a research fellow of the Tokyo Metropolitan Institute of Medical Science in 1981. In 1983, he obtained a Doctor of Science degree. After holding the positions of a research fellow, instructor of Pathology, assistant professor of Pathology, and associate professor of Medicine at the Dana-Farber Cancer Institute, Harvard Medical School since 1988, he became a professor of Microbiology and Immunology at the Keio University School of Medicine in 1995. In 2013, he became Group Director of the Laboratory for Immune Cell Systems at the RIKEN Center for Integrative Medical Sciences (IMS) and Director of IMS in 2014. In 2015, he was appointed as Executive Director of RIKEN, in charge of research to oversee a wide range of research activities. He has been in his current position, President of the National Institutes for Quantum Science and Technology (QST) since April 2023. He was appointed as Science and Technology Advisor to the Minister of Education, Culture, Sports, Science and Technology in May 2023.

SINGH, Satvinder, **Deputy Secretary-General for ASEAN Economic Community**

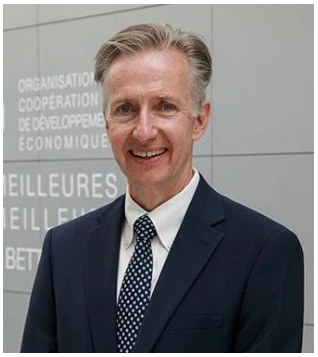
Satvinder Singh is the Deputy Secretary-General for ASEAN Economic Community for 2021-2024. In his capacity as the Deputy Secretary-General, he provides strategic advice to the Secretary-General of ASEAN for advancing ASEAN's economic integration agenda as well as to lead the ASEAN Economic Community (AEC) Department of the ASEAN Secretariat in implementing the AEC Blueprint 2025.

Before assuming this role, he was the Assistant Chief Executive Officer, Trade Connectivity & Business Services at Enterprise Singapore. With over 27 years of experience in holding a variety of local, regional and global management positions across the region, he was instrumental in strengthening Singapore's role as Asia's trading hub as well as driving digitalisation efforts in Singapore amidst the COVID-19 pandemic.

Mr. Singh holds a bachelor's degree in social sciences from the National University of Singapore and attended the Harvard's Business School Advanced Management Programme in 2017.

Distinguished Guest

SHEEHAN, Jerry **Director, Directorate for Science, Technology and Innovation, OECD**



Jerry Sheehan is Director of the Science, Technology, and Innovation Directorate. He joined OECD in 2023 with 30 years of experience in developing and implementing policies for innovation, scientific data, and information technology in the United States. He was previously Deputy Director for Policy and External Affairs at the National Library of Medicine, one of the 27 components of the National Institutes of Health. He led efforts across both institutions and the US Federal government to advance open science and enhance public access to the results of government-funded research, including scholarly publications, preprints, research data, and clinical trial results. Jerry twice served in the White House Office of Science and Technology Policy, leading efforts on open science, scientific integrity, scientific collections, and medical imaging. He served as Co-Chair of the US National Science and Technology Council Subcommittee on Open Science, Chair of the OECD Working Party on Innovation and Technology Policy, and US delegate to the G7 Open Science Working Group. Before joining the National Library of Medicine, Jerry worked as a Senior Economist at the OECD from 2000 to 2006, coordinating preparation of the flagship Science, Technology, and Industry Outlook and performing analytical work on business R&D, patent licensing, technology transfer, and innovation policy. He previously directed expert assessments on computing and internet policy at the U.S. National Academy of Sciences and on science and technology policy at the U.S. Congress Office of Technology Assessment. An American national, Jerry holds a Bachelor's degree in Electrical Engineering and a Master's degree in Technology & Policy, both from the Massachusetts Institute of Technology.

Chairpersons

UEYAMA, Takahiro **Chief Executive Member, Council for Science, Technology and Innovation (CSTI), Cabinet Office of Japan (Japan)**

Dr. Takahiro Ueyama assumed the role of Chief Executive Member (CEM) of the Council for Science, Technology, and Innovation (CSTI) at the Cabinet Office of the Japanese Government in 2016. Since 2018, Dr. Ueyama has been the sole full-time executive member of this office. Born in Osaka in 1958, Dr. Ueyama's academic journey began when he enrolled in the Graduate School of Economics at Osaka University. His pursuit of knowledge took him to Stanford University, where, thanks to a Fulbright Grant, he embarked on a second degree in the field of Policy Studies for Science and Technology. Dr. Ueyama has had a distinguished career in academia. He served as a professor at Sophia University's Faculty of Economics from 1998 to 2013, eventually assuming the role of Dean from 2011 to 2013. Following this, he held the position of Professor at the Faculty of Policy Management at Shonan Fujisawa Campus, Keio University, until 2015. He then took on the role of Vice President at the National Graduate Institute for Policy Studies from 2015 to 2016. With more than two decades of experience, Dr. Ueyama has also been a visiting professor at various universities, including Tohoku University's School of Engineering in Japan, National Cheng-chi University in Taiwan, and Stanford University in the United States. His research journey began in the Silicon Valley, a globally renowned and distinctive hub for science and technology, with a specific focus on the roles of research universities such as Stanford, UC Berkeley, and UC San Francisco in shaping the Silicon Valley landscape. This project was supported by the Abe Fellowship of Japan and the Social Science Research Council of the United States. Dr. Ueyama has authored numerous articles and books in the field of Science, Technology, and Innovation (STI) policy studies, including "*Akademikku kyapitarizumu o koete*" (Beyond Academic Capitalism), which received the Yomiuri-Yoshino Sakuzo Prize in 2010.

HASHIMOTO, Kazuhito **President, Japan Science and Technology Agency**
Science and Technology Advisor to the Cabinet (Japan)

Kazuhito Hashimoto is currently the President of the Japan Science and Technology Agency (JST) and serves as the Science and Technology Advisor to the Cabinet for the Government of Japan. He earned his BS (1978), MS (1980), and Doctor of Science degree (1985) in Chemistry from the University of Tokyo. Previously, he held the position of Professor of Applied Chemistry at the University of Tokyo from 1991 to 2016, followed by his role as President of the National Institute for Materials Science (NIMS) from 2016 to 2022. Hashimoto's research interests lie in the areas of physical chemistry and materials science. He has also been actively involved in science and technology policy as an executive member of the Council for Science, Technology and Innovation Policy (CSTI) from 2013 to 2022. Hashimoto has received numerous awards for his contributions to the field of science, including the Japan Prime Minister Award (2004), the Imperial Award/Japan Invention Award (2006), the Japan Chemical Society Award (2012), the Electrochemical Society Heinz Gerischer Award (2017), and the Medal of Honor with Purple Ribbon (awarded by the Emperor of Japan in 2019).

HUL, Seingheing **ASEAN COSTI Chair, Ministry of Industry, Science, Technology & Innovation**

H.E. Dr. Hul Seingheng currently serves as the Under-Secretary of State at the Ministry of Industry, Science, Technology & Innovation and Chairperson of ASEAN Committee of Science, Technology & Innovation for 2024. Before assuming this role, he held the position of Director General within the same ministry. He also served as the vice president for research and innovation at the Institute of Technology of Cambodia. Dr. Hul earned engineering degree in food science for his BS, chemical engineering for his master degree, and Ph. D in environmental engineering. In addition, he completed a one-year US-ASEAN fellowship focused on Science, Technology, and Innovation Policy Development. With over 15 years of experience in Science, Technology, Innovation, and STEM education, he has contributed to numerous development projects and research initiatives in Cambodia. Dr. Seingheng has published over 20 peer-reviewed journals and has been a speaker at more than a hundred scientific conferences. Lately, Dr. Hul's expertise has been instrumentally contributing to the early development of Science, Technology & Innovation ecosystem in the Kingdom of Cambodia.