ERIA

Economic Research Institute
for ASEAN and East Asia

2020 Annual Report

April 2020–March 2021

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Message from the President

Prof. Hidetoshi Nishimura
President

In January 2021, ERIA was ranked 9th in the international economic policy think tanks category, and 5th in the Southeast Asia and the Pacific category of the 2020 Global Go To Think Tank Index Report.

In fiscal year (FY) 2020, ERIA expanded the scope of its activities to help chart the future direction of ASEAN and East Asia.

A review of ERIA's deliverables for FY2020 reveals that ERIA widely expanded its field of activities to help clear the path for the economic integration and development of East Asia. The global coronavirus (COVID-19) pandemic has also been on the agenda of our research activities this fiscal year. ERIA published numerous policy briefs on its implications for the economy (trade, investment, and fiscal policy), energy, and the environment (waste management). These policy briefs give recommendations to ASEAN Member States for tackling the negative impact of COVID-19 effects in the region. Their key message of sustaining connectivity and the competitiveness of regional supply chains, and utilising digital technology was highly appreciated by the member states.

As for its research activities, ERIA published the Subregional Development Strategy in ASEAN after COVID-19: Inclusiveness and Sustainability in the Mekong Subregion (Mekong 2030). The subregional approach has proved to be particularly effective for addressing development gaps, enhancing connectivity, and promoting international coordination. ASEAN is encouraged to continue to adopt a multilayered approach to deeper economic integration and to activate other subregional initiatives. The publication was commended by the Chairman's statement of the 37th ASEAN Summit in November 2020 as providing useful insights for ASEAN Community building.

Another important field is energy-related issues. In FY2020, ERIA conducted various studies on energy policy based on the EAS Mid-Term Energy Policy Research Roadmap. ERIA has projects related to the demand and supply potential of Hydrogen Energy in East Asia, energy storage for renewable energy integration, and valuation of CO_2 Emissions Reduction by Mobility Electrification and Alternative Biofuel Introduction in EAS countries. ERIA also conducted projects to develop energy outlooks and master plans in the CLMV countries. ERIA reported the progress of each project to the EAS Energy Ministers Meeting of November 2020. ERIA hosted the 3rd East Asia Energy Forum, together with the Ministry of Industry and Trade of Viet Nam, which discussed 'Carbon Capture Utilisation and Storage (CCUS), and Carbon Recycling in ASEAN.'

The scope of ERIA's activities is continuously expanding and deepening to tackle the key regional issues. During FY2020, ERIA's Healthcare Unit published three books and two research project reports. 'Ageing and Health in Viet Nam' is one of them and it reports the result of the baseline survey of the Longitudinal Study of Ageing and Health in Viet Nam. ERIA co-organised an ASEAN-wide workshop in Ha Noi in November 2020 to discuss population ageing in the region and to launch this book, together with the Ministry of Health of Viet Nam, the World Health Organization, and the United Nations Population Fund. Another memorable event handled by the Healthcare Unit was the announcement event of the winners of the first Healthy Ageing Prize for Asian Innovation Award, which was co-organised with Japan Center for International Exchange. Three winners were selected from more than 130 applicants from twelve countries by the international advisory committee, which is made up of leading experts on population ageing throughout the region. The Unit has been focused on the activities related population ageing in the region, but welcomed a new expert on clinical trials and health development in October 2020. In the area of the environment, ERIA conducted several studies on waste management as well as the issue of marine plastic debris in the region. Since October 2019, ERIA has been setting up a Regional Knowledge Centre on Marine Plastic Debris (RKC–MPD) as part of the ASEAN Plus Three framework. The Knowledge Centre launched a website for sharing best practices of member states. RKC–MPD also launched a private sector platform which highlights the cutting-edge technologies on marine plastic debris. Regarding agriculture, ERIA conducts projects on realisation of higher value added of agricultural products in ASEAN countries through the development of effective cold chains, and enhancing food supply chain resilience and food security in ASEAN through digital technologies. The key messages were reported at the 20th ASEAN Ministerial Meeting on Agriculture and Forestry Plus Three meeting held in October 2020.

ERIA has also kept good relations with several external partners such as the ASEAN Inter - Parliamentary Assembly (AIPA) with which ERIA is now cooperating. AIPA and ERIA renewed their Memorandum of Understanding on January 2020 and conducted the 'Online Joint Dialogue on Waste Management in the Context of COVID-19 Pandemic' on June 2020 to discuss municipal and medical waste management during the pandemic. ERIA attended the 41st AIPA General Assembly on September 2020. The AIPA General Assembly adopted a new resolution on 'Expanding Cooperation between AIPA and ERIA', which

includes the extension of their Memorandum of Understanding to develop AIPA's capacity on matters concerning ASEAN Economic Community and ASEAN Economic Integration. 'The Ministers encouraged ERIA to undertake policy-based research to improve trade and investment including making value chains resilient to shocks of EAS economies, effectively address the impending recession, promote new technologies and develop a framework for the EAS regional economic integration and development after overcoming the COVID-19 pandemic' in the Joint Media Statement of the 8th EAS Economic Ministers Meeting.

In 2020, ERIA's efforts and activities continued to expand and received unabated recognition from regional leaders. Leaders 'encouraged ERIA to continue providing support to the Chair of the ASEAN Summit and the East Asia Summit by undertaking high-quality policy based research, especially those that will help the EAS region respond well to the after-effects of COVID-19 pandemic', in the Chairman's statement of the 15th East Asia Summit on November 2020. 'The Ministers commended efforts by ERIA as a regional think-tank in conducting quality research work to facilitate ASEAN's regional integration process' in the Chairman's Press Statement of The ASEAN Coordinating Council.

In January 2021, ERIA was ranked 9th in the international economic policy think tanks category, and 5th in the Southeast Asia and the Pacific category of the 2020 Global Go To Think Tank Index Report. ERIA was also ranked 43rd globally in the category of 'Top Energy and Resources Policy Think Tanks.' In short, ERIA's research seems to have been highly valued globally.

We are proud of our achievements in 2020, but we will not be complacent. ERIA will be more vigilant in helping to address the challenges of deeper economic integration and development in ASEAN and East Asia in the years to come.

Prof Hidetoshi Nishimura
President

Event Highlights

ERIA Participates in the Second OECD Digital 4 SME Roundtable

04 February 2021

ERIA participated in the second D4SME (Digital for SMEs) Roundtable, the flagship event of the OECD Digital 4 SME Initiative, led by the OECD Center for Entrepreneurship, SMEs, Regions and Cities to discuss challenges and opportunities for SMEs to go digital.

Mr Koji Hachiyama intervened in Session I on *'SMEs Moving Online: The Digital Presence, e-Commerce, and Digital Security Risks'*. He discussed ongoing ERIA research on the assessment of cybersecurity risks in ASEAN countries using indicators such as open services, e-mail infrastructure, and routing infrastructure. The research shows that a majority of ASEAN SMEs are not equipped to face cybersecurity risks and these risks are increasing given the fast growth of the digital economy and e-commerce across ASEAN. Countermeasures to limit these risks are key to safeguarding the online expansion of SMEs. Public–private partnerships to develop guidance and support in the area of cybersecurity with a focus on MSMEs need to be strengthened across ASEAN. The session was chaired by a New Zealand minister who expressed interest in cybersecurity developments across ASEAN and in Japan.

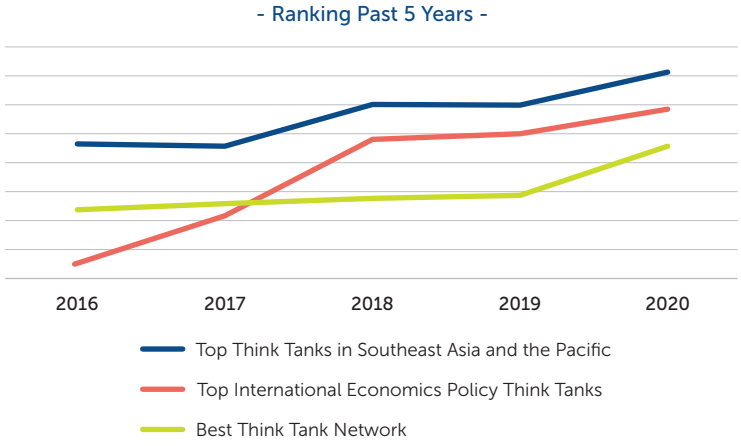
ERIA Ranks in the Top Ten of International Economic Policy Think Tanks

29 January 2021

The Economic Research Institute for ASEAN and East Asia (ERIA) was ranked ninth out of 85 top International Economic Policy Think Tanks in the Global Go To Think Tank Index Report (GGTTI) conducted by the Think Tanks and Civil Societies Program (TTSCSP) at the University of Pennsylvania.

According to the GGTI, the 'Top International Economic Policy Think Tanks' category is dedicated to the leading international economic policy institutions within the global community. ERIA also ranked fifth in the category of Top Think Tanks in Southeast Asia and the Pacific along with many members of ERIA's Research Institute Network (RIN) including the Brunei Darussalam Institute of Policy and Strategic Studies,

the Cambodian Institute for Cooperation and Peace, the Institute of Strategic and International Studies (Malaysia), the Centre for Strategic and International Studies (Indonesia), the Philippine Institute for Development Studies, the Singapore Institute for International Affairs, and the Thailand Development Research Institute.



In the coming years, the think tank community will have an increasingly vital role in an era of political and digital disruptions as well as economic and social instability. As the emerging market status of ASEAN Member States must adapt to the fast-changing global conditions, the work of ASEAN think tanks are integral to minimising potential risks and optimising the opportunities. By rising up through the ranks, ERIA has proven its commitment to quality research and policy recommendations.

IGES and ERIA Sign MoU to Strengthen Policy Research for Circular Economy and Prevention of Marine Plastic Pollution in ASEAN+3 Countries

07 January 2021

The Institute for Global Environmental Strategies (IGES) and ERIA signed a Memorandum of Understanding to promote data-driven policymaking and knowledge dissemination over the next 5 years. Though the MoU covers comprehensive collaboration between the two institutions, the initial focus is on the promotion of a circular economy, such as the prevention of marine plastic pollution. The first collaborative project, 'Data-Driven Policy Research Programme on Marine Plastic Debris', will be implemented jointly through ERIA's Regional Knowledge Centre for Marine Plastic Debris (RKC–MPD).

IGES has longstanding expertise in the areas of circular economy and resource efficiency, and experience in many international efforts including policy advisory activities for Southeast Asian countries on marine debris, along with its technical contributions to the G20 process. ERIA has contributed to conducting research and policy analyses to facilitate the building of the ASEAN Economic Community, promoting wide economic integration and sustainable development in East Asia, and narrowing development gaps in the region.

IGES President Kazuhiko Takeuchi stated, 'IGES is eager to collaborate with ERIA to jointly address the pressing regional problem of marine plastic litter in the region. Through this collaboration, my hope is for IGES to contribute, more broadly, to the promotion of a more circular economy and sustainable policymaking.'

'We have identified IGES as our valuable partner given the rich expertise they have in policy recommendations towards more sustainable consumption and production patterns in Asia. I hope that this MoU will be the beginning of a fruitful institutional collaboration towards the development of ASEAN and the East Asia region' said Hidetoshi Nishimura, President of ERIA.

ERIA President Attends 7th IEF–IGU Ministerial Gas Forum

03 December 2020

The ASEAN energy mix will continue to have a large percentage of fossil fuel, but the share of natural gas is projected to be higher than coal in the next decades. ERIA's President Prof Hidetoshi Nishimura offered some policy recommendations in his remarks for the 7th International Energy Forum – International Gas Union Ministerial Gas Forum.

'Competitiveness of various fuels in power generation differs across the regions. In the ASEAN region, coal is the most competitive fuel due to its abundant domestic supply. In order to further promote the role of natural gas in the region, cost competitiveness of natural gas needs to be further enhanced by such actions as accelerating removal of destination restriction, developing a reliable LNG price benchmark, and regional gas pipeline interconnection,' said Prof Nishimura.

The 7th IEF–IGU Ministerial Gas Forum was held virtually and hosted by the Government of Malaysia. Prof Nishimura was part of the Panel Session 1 on Asia–Europe, the Middle East, and Africa – Opportunities in Growing Gas Markets: Producer-Consumer Perspectives on New Realities. Energy Ministers from Russia, India, Qatar, Nigeria, Brunei Darussalam, and Azerbaijan were also part of the panel, alongside industry leaders and heads of international organisations.

AmCham Indonesia and ERIA Launch Survey Results on the Impact of COVID-19 on Foreign Firms in ASEAN

30 November 2020

AmCham and ERIA conducted a rapid survey in April 2020 to understand the evolving needs of US companies in Indonesia. Five months later, the two institutions joined forces again to implement a similar survey providing a more in-depth investigation of how foreign companies in ASEAN have been responding to COVID-19 and what plans they have moving forward. Twenty-four chambers and business organisations representing foreign companies were involved in the implementation of this survey. As many as 264 firms with operations in

ASEAN responded to 26 questions about the impact of COVID-19 on their business operations.

The event was opened by Mr Lin Neumann, the Managing Director of AmCham Indonesia. After welcoming the panellists and participants, he thanked ERIA for the strong collaboration. He also thanked the 24 businesses organisations and chambers representing many nationalities who helped to distribute the survey to their members. In his Opening Remarks, Mr Koji Hachiyama, the COO of ERIA, thanked everyone who helped implement the survey and said 'This survey will serve as the voice of businesses across ASEAN regarding the impact of the pandemic on their operations and how they plan to manage operations and investment now and into the near future.' After showing a short video that summarised the results, Ms Lydia Ruddy, Director of Communications for ERIA who lead the survey, presented some of the results in more detail. This was followed by a panel discussion with Mr Sunit Dhoka, Country Representative, Cargill Indonesia; Ms Siobhan Das, CEO, American Malaysian Chamber of Commerce; and Mr Dionisius Narjoko, Senior Economist, ERIA.

ERIA Attends the Virtual 14th EAS Energy Ministerial Meeting

20 November 2020

The 14th East Asia Summit (EAS) Energy Ministers Meeting (EMM), hosted virtually by the Ministry of Industry and Trade of Viet Nam, raised issues of clean and sustainable energy transition with affordable prices within the ASEAN region as well as regional and international cooperation to support the agenda.

The summit highlighted that energy demand in the region is forecast to increase by more than 50% from 2014 to 2040, especially in the transport and industry sectors. The increase in energy demand will affect carbon emissions every year. Mobilising low-carbon financing in the energy sector is thus becoming crucial. In this regard, strengthening partnerships and research innovation for sustainable energy transformation amongst member countries is necessary.

Deputy Secretary-General of the ASEAN Secretariat, Dr Aladdin D. Rillo, presented key outcomes of the 15th EAS and other relevant developments. During the summit, the leaders agreed to accelerate regional partnership on common interests through the EAS Plan of Actions, particularly the need to accelerate regional economic growth and recovery within several areas, such as energy, environment, economic cooperation, trade, and connectivity.

In the last session, international organisations including ASEC, IRENA (International Renewable Energy Agency), ACE (ASEAN Center for Energy), ERIA, and IEA (International Energy Agency), delivered their experiences and opportunities for sustainable energy development of each ASEAN members. They showed their commitment to support ASEAN countries to accelerate low-carbon and renewable energy development to diversify energy supplies, which will help to fulfil climate change mitigation and achieve carbon emission targets. See Annex F for ERIA being mentioned in the Joint Ministerial Statement of the 14th EAS EMM.

ERIA Holds the 3rd East Asia Energy Forum Virtually

17 November 2020

The 3rd East Asia Energy Forum (EAEF) was organised as a virtual event by ERIA, the Energy Research Institute Network (ERIN), and the ministry of Industry, Viet Nam. The Forum was titled 'Carbon Capture Utilisation and Storage (CCUS), and Carbon Recycling in ASEAN'.

EAEF3 was a great success with insightful presentations by the Institute of Energy Economics Japan (IEEJ), the New Energy and Industrial Technology Development Organization (NEDO), the Ministry of Economy, Trade, and Industry (METI), the Global Carbon Capture Storage Institute (GCCSI), the Mitsubishi Research Institute (MRI), the Japan Petroleum Exploration Co., Ltd. (JAPEX), the Environmental Consulting Department, Japan Nus Co., Ltd., the National University of Singapore (NUS), Pertamina, Indonesia, the Asian Development Bank (ADB), Mitsubishi UFJ Bank, and the Clean Energy Ministerial CCUS, and with active participation by the audience.

ERIA's President Encourages ABIS to Foster Digital Connectivity to Overcome Challenges Brought About by COVID-19

13 November 2020

The COVID-19 pandemic has disrupted the movement of goods and services within the supply chains of the ASEAN Member States (AMS). ERIA's President, Prof Hidetoshi Nishimura, stated in his remarks delivered at the ASEAN Business and Investment Summit (ABIS) 2020 that to address these challenges, AMS need to foster greater digital connectivity in the region. Recovering ASEAN's supply chains is critical for the recovery of the region because of its strong international production linkages under the framework of a single market and production base. Digital connectivity is key to this recovery. 'Investment in digital infrastructure and addressing the digital divide in ASEAN will be necessary to ensure equitable distribution of dividend from digitalisation. Capturing this opportunity requires actions beyond building internet infrastructure. with adequate investment in upgrading the education system, and upskilling and reskilling of the workforce,' said Prof Nishimura during the Panel Discussion on ASEAN's Economic Outlook.

In the Q&A session, Prof Nishimura reiterated the importance of productivity growth of MSMEs, which form the backbone of ASEAN economies, through the adoption of new technologies to improve productivity and stay competitive. Furthermore, he stated that even though information and communication technology (ICT) is important, its concentration can also displace people.

President of ERIA Takes Part in the 22nd GECF Ministerial Meeting

12 November 2020

Based on ERIA's book *Energy Outlook and Energy Saving Potential 2019* ASEAN's natural gas demand is projected to grow by 3.5 times in the next 3 decades, making it a viable alternative for reaching a low-carbon future. However, natural gas needs to be more cost-competitive to play a bigger role in the region's energy mix, said Prof Hidetoshi Nishimura, President of ERIA, in his remarks at the 22nd Gas Exporting Countries Forum Ministerial Meeting chaired by H.E. Mr Abdelmadjid Attar, Minister of Energy of the People's Democratic Republic of Algeria.

'Natural gas is clearly promising for a low-carbon future. Its operational flexibility is a good combination with a growing share of variable renewable. Hydrogen could also be produced,' stated Prof Nishimura. He also underscored the importance of Carbon Capture Usage and Storage (CCUS) for the ASEAN region, since the region will still depend on fossil fuel in the coming decades. 'Increasing numbers of countries, including Japan and China, are announcing carbon neutrality goals. For achieving carbon neutrality, all the solutions including efficiency, electronic vehicles, hydrogen, renewables, and CCUS/carbon recycling need to be mobilised,' he said, adding that 'If natural gas is to be a 'destination fuel', more than a bridging fuel, a combination of hydrogen and CCUS/carbon recycling is indispensable.'

ERIA Hosts the 9th ERIA Editors' Roundtable online

05 November 2020

For the first time, ERIA hosted its annual Editors Roundtable (ERT) online and it was, therefore, open to many more attendees than usual. Moreover, the ERT did not follow Chatham House Rules, allowing journalists to report on comments and information presented during the event.

The first session opened with Prof Hidetoshi Nishimura, President of ERIA, offering welcome remarks. He said, next week ASEAN would be launching the ASEAN Comprehensive Recovery Framework and

Implementation Plan. 'This recovery plan is very important and each of you should follow it closely. I must stress that ASEAN and the Dialogue Partners are working closely and diligently together to mitigate the virus and pave the way for a better future in the post-COVID-19 world', he said.

Mr Vu Ho, Director General of ASEAN Department, Ministry of Foreign Affairs of Vietnam, delivered the Keynote Speech, outlining key deliverables of Viet Nam's Chairmanship. ASEAN activities included the Leaders Statement on COVID-19 in February. For the first time ever, ASEAN hosted three summits due to the extra summit held to address issues related to the pandemic. The leaders have agreed to five initiatives to address COVID-19: (1) a COVID-19 ASEAN Response Fund proposed by Viet Nam and Thailand which has already secured $10 million; (2) a Regional Reserve of Medical Supplies; (3) Regional Standard Operating Procedures to cope with future pandemics; (4) an ASEAN Comprehensive Recovery Framework and Implementation Plan which will be announced at the ASEAN Summit later in November; (5) and an ASEAN Center for Public Health with funding from Japan. He also mentioned efforts to create ASEAN travel corridors.

DISG Kick-off Webinar: Acceleration of Digital Innovation in ASEAN and Japan's Contribution

28 October 2020

ERIA participated in the 'Kick-off Webinar: Acceleration of Digital Innovation in ASEAN and Japan's Contribution'. The event was the first in a series of webinars on 'Dialogue for Innovative and Sustainable Growth (DISG)', a new dialogue framework between ASEAN and Japan. More than 400 participants from the Asia-Pacific region joined the webinar.

In the opening remarks, Mr. Hirose Naoshi, Director-General of Trade Policy Bureau of Ministry of Economy, Trade and Industry of Japan, emphasised the importance of strengthening the close relationship between ASEAN and Japan by keeping businesses running and maintaining the flows of trade and investment to mitigate the negative

impact of COVID-19. He also mentioned that DISG could bring knowledge cooperation amongst the experts from various sectors to create solutions for the current crisis which can evolve into greater social and economic achievement.

During the panel discussion session, moderated by Mr. Kobayashi Hirokazu, Executive Director of JETRO Singapore, the four speakers discussed and provided insights on Japanese companies' selling points and ideal ways of economic cooperation. They pointed out the following: (1) Japan has its strength in technology especially in the combination of manufacturing and digitalisation; (2) Japanese companies should mentor and engage with MSMEs and include them in their value chains; (3) Japanese companies can link up with ASEAN digital start-ups through investing or giving them access to the larger market; and (4) we must remember that digitalisation could have a negative impact on people who are not ready for digitalisation.

ERIA Presents to ASEAN Plus Three Agriculture and Forestry Ministers

21 October 2020

The 42nd ASEAN Ministerial Meeting on Agriculture and Forestry (AMAF) and associated meetings were held virtually on 21 October due to the Covid-19 pandemic. Prof Hidetoshi Nishimura, President of the Economic Research Institute for ASEAN and East Asia (ERIA), presented ERIA's research on food value chains at the 20th AMAF Plus Three Meeting.

Prof Nishimura outlined and explained the progress of ongoing projects: 1) Realisation of higher value-added of agricultural products in ASEAN countries through the development of effective cold chains, and 2) Enhancing food supply chain resilience and food security in ASEAN through digital technologies. These projects are conducted in collaboration with researchers in ASEAN countries and with the support of the Government of Japan.

Prof Nishimura also outlined the structure of ERIA's research on the utilisation of digital technologies, which has three components: 1)

COVID-19 impact analysis on food value chains in ASEAN by macrodata scenario analysis, 2) assessment of digital technology adaptation and related policy in ASEAN and other countries, and 3) in close collaboration with the ASEAN Secretariat, formulation of regional guidelines for the application of digital technologies in ASEAN food value chains.

Prof Nishimura concluded by saying that ERIA will continue these research activities to produce pragmatic policy recommendations for the improvement of food value chains in ASEAN countries in spite of uncertainties due to the pandemic and asked the ministers to support the projects. ERIA was honoured that the Joint Press Statement of the 20th AMAF Plus Three Meeting appreciated the progress of ERIA's projects as set out in Annex F.

ERIA Participates in the Asia Pacific Think Tank Summit 2020

09 October 2020

The annual Asia Pacific Think Tank Summit was organised and hosted virtually by the Think Tanks and Civil Society Program at the University of Pennsylvania with the theme 'A World Disrupted and Transformed.' Ms Lydia Ruddy, ERIA's Director of Communications served on the Planning Committee for the event.

Mr Adrian S. Cristobal, Jr, Chair of ERIA's Governing Board, chaired the opening session. During his remarks, Mr Cristobal highlighted ERIA's ongoing research on COVID-19 and the recent event organised by ERIA that provided perspectives on the impact of the pandemic from four countries in ASEAN: Philippines, Viet Nam, Singapore, and Indonesia.

The summit focused on the strategic and operational challenges facing think tanks in Asia and the Pacific as a result of the pandemic. Think tanks must face the reality that there will be no new normal, only a series of extraordinary events that create a world where disruptions and the abnormal will be the norm.The issues discussed at the Summit will be summarised and presented at the Global Think Tank Summit on 13 November 2020 which will also be held virtually.

President of ERIA participated in the 29th Clean Coal Day in Japan 2020 International Symposium

02 October 2020

Professor Hidetoshi Nishimura delivered a keynote speech titled 'The Role of CCT in the ASEAN Region' the at the 29th Clean Coal Day in Japan 2020 International Symposium 'Role of Coal/CCT in the Era of the Energy Transition'. Assessing the impact of COVID-19 on the energy sector, Prof Nishimura stated that the massive reduction of CO_2 emissions as well as SOX and NOX emissions are likely to be temporary, rebounding in accordance with economic recovery and energy demand. He emphasised the importance of high-efficiency, low-emission thermal technologies combined with Carbon Capture and Storage (CCS) technologies as a pragmatic solution of mitigating CO_2 emission in the EAS region.

Prof Jun Arima, Senior Policy Fellow on Energy and Environmental Affairs, also participated in the symposium on Day 2, Session 2 on 'Investment for Coal in the Era of Energy Transition' as the moderator. On Day 3, he reported the outcome of Session 2 and participated in the panel discussion on 'The Role of Coal/CCT in the Era of Energy Transition', highlighting the need to deliver clear a message on the Asian energy reality in international climate fora including COP26.

AESCON 2020 Reveals How Improved Connectivity is the Way Forward for Asia–Europe Relations

25 September 2020

ERIA co-hosted this year's Asia-Europe Sustainable Connectivity Scientific Conference (AESCON) in partnership with the Joint Research Centre, European Commission, the Asia–Europe Foundation, and the Centre for China and Globalization (CCG). The event brought together researchers and policy analysts specialising in the fields of international connectivity, globalisation, and sustainable development with a particular focus on the regions of Asia and Europe. AESCON aimed to serve as an academic forum to discuss the global challenges affecting

today's world such as transport infrastructure, energy transition, climate change, digital economy, trade and investment flows, security, and social mobility.

The Chief Operating Officer of ERIA, Mr Koji Hachiyama, delivered opening remarks, emphasising the importance for Asia and Europe to be ready to meet the challenges of tomorrow and the fourth industrial revolution.

During the conference, ERIA's Energy Economist Dr Alloysius Joko Purwanto and ERIA's Research Associate Ms Ellen Putri Edita delivered their respective presentations based on the abstracts selected by the organisers.

Dr Purwanto collaborated with the European Commission's Joint Research Centre for their research on 'Air Transport Connectivity between Asia and Europe' offering recommendations on the future of flights between the two regions post-pandemic. Ms Edita spoke on the topic of Aerotropolis based on her analysis of the social and environmental impact of the New Yogyakarta International Airport (NYIA) project in Indonesia. Based on the field research conducted by Ms Edita, it was revealed that the equal benefits that connectivity strives to bring had not been applied to Indonesia's NYIA project.

ERIA's Director of Policy Relations, Ms Anita Prakash, coordinated ERIA's partnership with the co-hosts of AESCON from Europe and Asia. She also presented her paper and spoke in the session on political connectivity. The main message of her presentation on 'Asia Europe Connectivity: Converging the Regulatory Standards and Sustainable Financing' was that connectivity plans must create trust amongst countries given that multilateral cooperation is needed for standards and regulations in connectivity plans.

ERIA and AustCham Co-hosted Webinar on 'The Impact of Covid-19 on Australian Businesses Across ASEAN'

21 September 2020

ERIA and AustCham ASEAN co-hosted the webinar *The Impact of Covid-19 on Australian Businesses Across ASEAN* to present and discuss the result of the latest AustCham ASEAN business survey. The event was jointly organised by AustCham ASEAN and ERIA, through its Strategy and Partnership programme, funded by Australia. The webinar attracted more than 100 participants.

In his welcoming remarks, Mr Koji Hachiyama highlighted the importance of building resilient supply chains across ASEAN and East Asia. He also mentioned how the AustCham survey complements and brings additional points of view to two surveys ERIA is currently conducting: one with the American Chamber of Commerce in Indonesia to survey foreign firms across ASEAN and the other survey focussed on Japanese firms in ASEAN.

The survey found that COVID-19 will have a negative impact on business in the next 6 months, but that sentiment has improved since April. At the same time, almost half of the respondents do not anticipate that the economic slow-down caused by the pandemic would be bad for their business. Interestingly, 71% of respondents agreed that business opportunities have emerged from COVID-19.

Dr Intan Ramli gave a presentation on the importance of good regulatory practices in mitigating the impacts of the pandemic in ASEAN. She highlighted the need to promote sharing of information and best practices in handling the pandemic, business consultation support, and public-private sector collaboration efforts; the importance of enhancing partnerships/collaborations between the government and the private sector; and of building on existing trade facilitating platforms in ASEAN. She also mentioned how the use and adoption of science, technology and innovation, and digital economy provide an opportunity and need to be encouraged, for instance by continuing the implementation of the ASEAN Work Program on Electronic-Commerce.

AIPA 41 General Assembly Strengthens Ties with ERIA

10 September 2020

Prof Hidetoshi Nishimura attended the 41st General Assembly of ASEAN Inter-Parliamentary Assembly (AIPA) which was held online. A delegation from ERIA accompanied Prof Nishimura and attended the opening ceremony, the second plenary session and closing ceremony of the conference.

ERIA and AIPA work together to deal with the challenges of regional economic matters. On January of this year, ERIA and AIPA renewed their Memorandum of Understanding (MoU) on 'Develop AIPA's Capacity on Matters Concerning ASEAN Economic Community and ASEAN Economic Integration in Various Areas.'

On June 2020, both parties held an on online 'Joint Dialogue on Waste Management in the Context of COVID-19 Pandemic' based on the Resolution on Establishing AIPA-ERIA Joint Dialogue to Support the Waste Management for Sustainable Development adopted at the 40th general assembly of AIPA.

AIPA 41 adopted a new resolution on 'Expanding Cooperation between AIPA and ERIA,' which includes the extension of their MOU to develop AIPA's capacity on matters concerning ASEAN Economic Community and ASEAN Economic Integration.

ERIA Presents to ASEAN Foreign Ministers

09 September 2020

Prof Hidetoshi Nishimura made a presentation to the ASEAN Foreign Ministers at the ASEAN Coordinating Council's Special Session on Sub-Regional Development. Prof Nishimura presented ERIA's work on sub-regional development and the importance of maintaining ASEAN Centrality.

Opened by Dato Lim Jock Hoi, Secretary-General of the ASEAN Secretariat the session included a presentation by Mr Masatsugu Asakawa, President, Asian Development Bank.

The Chairman's Press Statement of the Special Session commended ERIA's research that facilitates ASEAN's regional integration:

> *The Ministers were briefed by the Secretary-General of ASEAN, President of the Asian Development Bank (ADB), and the President of the Economic Research Institute for ASEAN and East Asia (ERIA) on their perspectives regarding ASEAN's role in narrowing the development gap and enhancing ASEAN's competitiveness as a region, promoting sustainable and equitable development in the region, and presenting the prospective role of sub-regional cooperation frameworks in regional integration efforts. The Ministers appreciated ADB's long partnership with ASEAN in promoting sub-regional and regional development as well as its timely support for the COVID-19 pandemic response. The Ministers commended efforts by ERIA as a regional think-tank in conducting quality research work to facilitate ASEAN's regional integration process.*

ERIA Supports the 11th ASEAN Connectivity Symposium

31 August 2020

ERIA, the Ministry of Foreign Affairs of Viet Nam, and the ASEAN Secretariat jointly organised the virtual 11th ASEAN Connectivity Symposium with the theme 'Enhancing ASEAN Cohesiveness, Responsiveness through Resilient Connectivity and Human Capital Development'. The virtual symposium which attracted over 150 participants from the ASEAN Member States and ASEAN Dialogue Partners, Sectoral Dialogue Partners, and Development Partners, as well as international organisations, the private sector, and other key stakeholders.

Against the backdrop of the COVID-19 pandemic, the symposium delved into three topics crucial for the region's recovery efforts: strategic investments in sustainable infrastructure and smart solutions; leveraging digital technologies to strengthen supply chain connectivity; and designing education and training for a future-ready workforce. Panelists from various backgrounds, experiences, and expertise joined the discussion.

The Permanent Representative of Viet Nam to ASEAN and Chair of the ASEAN Connectivity Coordinating Committee Tran Duc Binh underlined that since the adoption of the first Master Plan on ASEAN Connectivity (MPAC) in 2010 and the successor MPAC 2025, ASEAN Connectivity has an increasingly important role to support the region in rebuilding and recovering together.

In his opening remarks, Professor Hidetoshi Nishimura, President of ERIA, highlighted the importance of enhancing the digital economy and digital connectivity in the ASEAN and East Asia region, to build resilience against various risks to infrastructure and connectivity, including the spread of the coronavirus. He said that 'Digital connectivity enhancement and trade-and-investment liberalisation, improving the institutional connectivity are crucial policies to improve the attractiveness of the ASEAN region as an investment destination.' Professor Nishimura also mentioned the importance of Data Free Flow with Trust and human resource development for digital skills as a prerequisite of the digital connectivity development. ERIA's new research project, Comprehensive Asia Development Plan (CADP) 3.0, also features the significance of ICT development for further ASEAN economic integration and ASEAN Connectivity.

Participants exchanged views on the way forward to mitigate the impact of COVID-19 and develop recovery strategies towards a seamlessly integrated ASEAN. The ASEAN Connectivity Symposium is a flagship annual event that brings together key stakeholders to identify areas of collaboration to enhance the implementation of MPAC 2025.

ERIA Participates in the 52nd ASEAN Economic Ministers' and Related Meetings

29 August 2020

The 52nd ASEAN Economic Ministers (AEM) Meeting, the 8th East Asia Summit (EAS) Economic Ministers' Meeting and other related meetings were conducted virtually due to the Covid-19 pandemic from 24–29 August 2020. Prof Hidetoshi Nishimura, the President of ERIA, presented ERIA's framework for COVID-19 recovery to the East Asia Summit ministers.

The Joint Media Statement of the 52nd ASEAN Economic Ministers Meeting thanked ERIA for its continued support and contribution to regional integration and AEC-building efforts.

Prof Nishimura presented ERIA's research on 'Economic Growth, Market Stability, and Resilience of the EAS Region Post COVID-19.' In his opening remarks, he thanked the ASEAN Member States for the 20% increase in contributions over the next 5 years – a strong indication of ASEAN's trust in ERIA, for which ERIA is deeply honoured. He outlined ERIA's proposed model for EAS economic recovery post-COVID-19, which is based on three key policy areas: macroeconomic, trade and investment, and new technology.

Future Development of Mekong Sub-region Key to ASEAN's Long-Term Growth

05 August 2020

The continued progress of the Mekong Sub-region (MSR) and the implications for the ASEAN Community was the main agenda of the ASEAN Forum on Sub-Regional Development held on 14 July 2020. Specifically, the online event covered 'Converging Mekong Sub-regional Cooperation with ASEAN Goals'. MSR has developed to become a model sub-regional initiative helping to boost economic growth and rapid poverty alleviation in the countries situated in the area. The event aimed to increase understanding of the benefits of sub-regional initiatives for addressing development gaps, enhancing connectivity, and promoting international coordination. Through synergies, improved

coordination and integration, as well as in-depth discussions, ASEAN is looking to advance development in the MSR.

The Minister of Trade and Industry of Viet Nam, His Excellency Tran Tuan Anh, delivered the opening remark of the event. In his speech, H.E. Tran Tuan Anh highlighted ASEAN's successful economic integration over the past 25 years during which time the regional body 'has become one of the most vibrant and dynamic economies in the world.' The minister highlighted the successful development of the MSR and how it has facilitated ASEAN's connectivity regionally and with other countries.

ERIA's Prof Fukunari Kimura followed with his presentation on 'Sub-Regional Development Strategy in ASEAN after COVID-19: Inclusiveness and Sustainability in the MSR.' Prof Kimura acknowledged the advantages of the MSR initiative in terms of economic growth and poverty reduction, but he also pointed out how the existing huge development gaps require a strategic approach if the whole region wants to reach upper-middle-income status.

In the context of the ongoing coronavirus pandemic, Prof Kimura stated that MSR countries have so far successfully mitigated the virus transmission though health policies that consider each respective country's medical care capacity. He also predicted the acceleration of information and communications technologies in addition to a possible reshuffling of international production networks. A serious economic downturn resulting from a massive demand shock is expected to occur as well.

ERIA and AIPA Host Dialogue on the Issue of Waste Management During COVID-19

13 July 2020

ERIA held the 'Online Joint Dialogue on Waste Management in the Context of COVID-19 Pandemic' with the ASEAN Inter-Parliamentary Assembly (AIPA), the second activity with AIPA under the MoU between ERIA and AIPA signed in December 2016 and renewed in January 2020 (ERIA renews MoU with ASEAN inter-parliamentary assembly). While the Joint Dialogue was originally based on the *Resolution on Establishing AIPA–ERIA Joint Dialogue to Support the Waste Management* for Sustainable Development adopted at the 40th General Assembly of the AIPA in August 2020 in Bangkok (Resolution on The 40th AIPA General Assembly) the Dialogue actually consisted of two sessions on municipal solid waste management and medical waste management based on the contents of the Policy Brief on 'Strengthening Waste Management Policies to Mitigate the COVID-19 Pandemic' (Strengthening waste management policies to mitigate the COVID-19 pandemic), considering the situation created by the COVID-19 pandemic.

In closing, Prof Hidetoshi Nishimura, President of ERIA, expressed his appreciation of all participants and the AIPA Secretariat's efforts and confirmed ERIA's continuous intellectual contribution to support the MPs' political commitments and implementations for better waste management in a 'new normal' society.

Office of the President

In Fiscal Year (FY) 2020, the office of the president of ERIA deepened its policy relations activities through extensive research and cooperation for policy development conducted by the policy relations unit for member countries of ASEAN and East Asia, the Dialogue Partners of ASEAN, and for inter-regional government platforms. The research and policy development engagements were aimed at deepening the economic integration amongst members of East Asia, and for extending the economic and social linkages to partners in the European Union (EU), post Brexit United Kingdom (UK), Africa, Canada, and the US.

The activities in the policy relations unit in 2020 were marked by three important features. First, the onset of COVID-19 pandemic and its continued prevalence and adverse effects on economic linkages around the world created a demand from governments for evaluation of the resiliency of and likely rebuilding strategies for production and distribution (supply-chains) links, and for investments and international cooperation plans . Second, the Dialogue Partners of ASEAN displayed a serious need for developing the economic architecture in the Indo–Pacific region, with ASEAN at the center. Third, the cooperation and communication amongst the multilateral organisations to support the governments in dealing with the economic, social, and institutional capacities increased to become both facilitative and timely. The three features of the work in policy relations unit were maximised through research and policy writings, and through the interactive features of internet which facilitated exchange of works and ideas with governments and international organisations.

The demand for work came mainly from Trade and Foreign Affairs Ministries for facilitating their trade and economic policies with ASEAN and East Asia. Other important partners were the multilateral and Intergovernmental Organisations (G20, ASEM, OECD, AIIB, ADB, ADBI, AMRO, ERIA Research Network) who sought collaboration for research and policy pathways on trade and economic cooperation with ASEAN during the current economic and health crisis, new frontiers of global value chains such as digital economy, skilled demography, supply-chain integration, south–south cooperation, multilateralisation of infrastructure development etc.), and for international cooperation for rebuilding and recovery in the post-COVID phase. Work on concrete plans for greater connectivity of Asia with Africa and Europe, and within the Indo–Pacific region was continued in 2020.

The outcomes of the 2020 activities resulted in one book, four research studies, two reports, two peer-reviewed policy briefs, and policy inputs into regional action plans and intergovernmental dialogues.

A. Research and Policy Support for EAS Members and Dialogue Partners

The policy relations office completed three studies for East Asia Summit (EAS) member countries and the Dialogue Partners of EAS.

Greater connectivity between **India and ASEAN** is both an economic and strategic objective for the ASEAN–India partnership. The ASEAN–India Meeting mandated India to commission ERIA to conduct

a study on developing an economic corridor along the Trilateral Highway and the feasibility of its extension to Cambodia, Lao PDR, and Viet Nam. With contributions from economists from Japan, India, Myanmar, Thailand, Lao PDR, and Viet Nam, the study 'Trilateral Highway and its Possible Extension to Cambodia, Lao PDR, and Viet Nam' was edited and finalised in 2020. The study was presented to the Senior Economic Official's meeting and to the ASEAN–India ministerial meeting. The study is being used for developing the plans for new supply-chain linkages in other regional and inter-regional architecture such as the Australia–Japan–India and the Asia–Africa Growth Corridor.

The book '**Asia–Africa Growth Corridor**: Development Cooperation in Indo–Pacific' was published by Routledge in October 2020. This book is the second major policy research and publication on the Asia–Africa Growth Corridor (AAGC) since the AAGC Vision Document was prepared by ERIA and RIS, India and presented at the Africa Development Bank Meeting in 2017. The President of ERIA has written the forward to the book. It is an important contribution to **India and Japan's** joint vision of economic linkages between Asia and Africa, and contributes to the new economic architecture for the Indo–Pacific.

The plenary study for the **13th Asia Europe Meeting** (ASEM) Summit in Cambodia has been developed and edited on the theme of 'multilateral cooperation for a resilient, sustainable, and rules-based future for ASEM'. The study has contributions from academics and practitioners from Asia and Europe. The Deputy Prime Minister of Cambodia has acknowledged and approved the book. At his request, the book is being translated into Khmer language, and both versions will be presented at the ASEM Summit in Cambodia in the fourth quarter of 2021. The study is in continuation of ERIA's long term contribution to the Asia–Europe relations and to the ASEM Summit process since 2016.

The UK has applied to ASEAN for Dialogue Partner status. The first **UK–ASEAN Economic Ministers meeting** was held in 2020. The meeting noted the Hanoi Plan of Action on Strengthening ASEAN Economic Cooperation and Supply Chain Connectivity in Response to the COVID-19 Pandemic. The action plan includes cooperation on enabling trade of important goods (food, medicines, medical equipment, and other related products), as well as assisting with production of and improving access to COVID-19 medicines and vaccines through the strengthening of supply chain connectivity and policy convergence/agreements.

Following the joint UK–ASEAN statement and the Hanoi Action Plan as an existing template to enhance the trade and economic cooperation mechanisms within ASEAN and between ASEAN and UK, the UK has requested the policy relations unit for a **UK–ASEAN supply chain research** titled 'UK–ASEAN Trade: Strengthening the Supply-Chain Linkages.' The study analyses current UK–ASEAN supply chains (both UK–ASEAN and UK firms operating intra-ASEAN) and trade flows, and supply chain resiliency during the COVID period, looking for areas and sectors of strength and areas for potential improvement. The study will especially utilise ERIA's survey of ASEAN and UK firms and their business activities during the pandemic. The study will be presented to the ASEAN–UK Economic Ministers meeting in 2021.

The policy relations unit is also conducting a study on 'Dynamics of GVCs in Asia' which looks into the issues of patterns of investments in **GVCs in Asia**, particularly East, Southeast, and South Asia and finds evidence for vertical integration, offshoring/re-shoring, etc. of GVCs. The study will also explore Asia's current preparedness for and participation in the GVCs of the digital economy. The policy recommendations will be presented to the ASEAN, and other dialogue partners through the research network.

The policy relations unit is participating in the writing of the **Comprehensive Asia Development Plan 3.0** where it is contributing to the theme of connectivity. The multiple connectivity plans in Asia and their governance and investment facilitation issues are the important inputs under this theme.

B. Support for EAS Countries in Economic Architecture in the Indo–Pacific

The policy relations office contributed towards the works of the Policy Analysis and Development Agency of the Ministry of Foreign Affairs of Indonesia in developing the 'ASEAN Outlook on Indo–Pacific' which was acknowledged by the East Asia Summit. In 2020, the work was continued through policy briefs and seminars bringing important partners such as Australia, India, Japan, and ASEAN in the framework development of Indo Pacific, with special emphasis on supply chains, trade and investment, and international cooperation. The policy writings were published under the theme of **'Emerging Architecture in Indo–Pacific.'**

C. Support for the G20

The policy relations office has contributed to policy works for the T20/G20 since 2016. In 2020, a policy brief contribution to Saudi Arabia's Task Force 3 on Infrastructure Investment and Financing was made through a peer reviewed report titled 'Multilateral Cooperation for Investment Facilitation can Mobilise Infrastructure Funds and Link Needs of Investors, Governments, and People.' The Italy chair of the G20 has taken over from Saudi Arabia, and the policy relations office is working in collaboration with the ISPI, Milan to facilitate the works of the T20 Task Forces. Supporting the Italy chair in establishing linkages with the East Asia research network, especially with Indonesia, the next chair of G20 has been done until the time of reporting. Other activities for supporting the Indonesia chair in 2022 and India chair in 2023 have been initiated with respective governments and Ministerial tracks. A G20 Study Forum for continuing the priorities of the Indonesia and India chairs, and for carrying out the developmental priorities of the G20, is being established in 2021.

Joint work between India, OECD, and ERIA for the G20 chair in Italy, Indonesia, and India has been planned, starting in May 2021.

D. Collaboration with Multilateral Organisations

Organisation for Economic Co-operation and Development (OECD)

The policy relations office of the president of ERIA has supported the Organisation for Economic Co-operation and Development (OECD) in its preparatory works for the G20 in Trade and

Agriculture matters, through its collaboration with and participation in the meetings of the Trade and Agriculture Directorate. It helped the Global Relations Secretariat (GRS) of OECD to develop the theme and the concept paper of the 6th annual meeting of the OECD Southeast Asia Regional Programme (SEARP) held on 6 October 2020 on the theme of 'Southeast Asia Regional Programme: Ensuring Sustainable Recovery through Resilient and Effective Infrastructure.' ERIA's presentation on 'Investment in Infrastructure and ASEAN's participation in GVCs of Digital Economy' was central to the theme of the meeting. The steering committee statement recognised and encouraged the OECD's SEARP secretariat to strengthen cooperation with ERIA and other regional organisations. On this occasion, the ERIA–OECD Development Center's joint work on the OECD Economic Outlook on Southeast Asia, China, and India was also presented. The policy relations office of the President also contributed to the OECD reports through findings from ASEAN and East Asia, and ERIA's research and policy support activities.

In 2020, ERIA's work with OECD Development Center was further strengthened through multiple policy engagements and activities related to the theme of reconstruction and rebuilding the development agenda in the post-COVID period, especially from the perspective of international cooperation. The DevTalk (Development Talk) series was an important platform for cooperation of ideas where ERIA presented on the theme of opportunities and constraints for regional integration in East Asia. The policy relations office represented the President of ERIA in the 6th High Level Meeting (HLM) of the Development Centre's Governing Board and spoke on the theme of regional cooperation and development in Southeast Asia.

The policy relations office organised an ERIA–OECD webinar for presenting the OECD's 'Economic Outlook for Southeast Asia: Coping with COVID-19 in ASEAN – Challenges of digitalization' in Jakarta. Besides OECD, Dr Alladin Rillo, DSG, ASEAN, and Pak Iman Pambagyo, Director General, International Trade, Indonesia were the two speakers in the webinar.

The policy relations office of the president organised the 8th OECD–ERIA–ADB–ADBI–AMRO roundtable in Tokyo on 13–14 February 2020. In 2020, the ERIA–OECD MOU for joint works and activity in the next 5 years has been renewed by the president's office. The joint signing however has been postponed until COVID-19 travel restrictions are no longer in place.

UN @75

The policy relations office led ERIA in the United Nations 75th Anniversary Initiative (UN75) and participated in the dialogue on the current and future state of global cooperation launched by the UN Secretary-General by providing research and surveys from Southeast and East Asia. A presentation was made in the ISA–UN75 Dialogue on the contribution of the Global South to the future of multilateralism. The Dialogue proceedings will be published in 2021.

Asian Infrastructure Investment Bank (AIIB)

The policy relations office of the President of ERIA continued supporting the annual meeting of the Asian Infrastructure Investment Bank (AIIB), held online in 2020. ERIA also participated in the

second Asian Infrastructure with the aim of working closely with the AIIB on multilateral cooperation for development finance (MCDF). The framework will also be helpful in developing the institutional mechanisms for financing the connectivity plans in the Indo–Pacific.

E. Connectivity

The policy relations office of the President has been working on physical and institutional aspects of connectivity in ASEAN and East Asia, as well as between Asia and Africa, and Asia and Europe. In 2020, ERIA was requested by Cambodia, the current chair of Asia Europe Meeting (ASEM), to prepare a plenary study for the 13th ASEM Summit in November 2020 where the President of ERIA will present the study to the ASEM leaders in the fourth quarter of 2021. The ASEM study is being conducted by several authors from Asia and Europe on diverse elements of physical and economic connectivity; trade and value chains; trade facilitation and NTMs; e-commerce, digital economy and taxation; energy cooperation and climate change; movement of people, gender, and youth roles in a future-ready economy; and institutional cooperation.

ERIA and the Joint Research Centre (JRC) of the European Commission jointly organised the Asia Europe Sustainable Connectivity Scientific Conference (AESCON), bringing together researchers and policy analysts working in the fields of international connectivity and globalisation and their impacts on sustainable development, with a particular focus on Asia–Europe connections. The conference was held online over a period of 3 days from 22–25 September, and attended by over 70 scholars. AESCON provided an academic forum to discuss global challenges on transport infrastructure, energy transition, climate change, digital economy, trade and investment flows, security, people mobility, and cultural exchanges as tools of sustainable connectivity. The conference was held in continuation of the results of ASEM Sustainable Connectivity Monitor 2018, which was launched at the 12th ASEM Summit. High-level officials from Asia and Europe addressed the conference. The policy relations office facilitated the organisation of the conference and also presented a paper in the political connectivity session.

The policy relations office has been actively engaged with promoting EU–ASEAN connectivity over the years. In 2020, it participated and presented in the ASEAN–EU Connectivity Seminar on 'Connecting our Connectivities: EU and ASEAN approaches to connectivity and possible synergies.' ERIA is a principal stakeholder in EU's newly established EU–Asia Knowledge Hub through its writings and publications on EU–Asia connectivity. The knowledge hub is part of the EU's International Cooperation Plan with Development Partners.

After drafting the vision document of the Asia Africa Growth Corridor (AAGC) in 2017, the president's office has been continuously engaged with the development of the AAGC with other members in ASEAN, Asia, and Africa. In 2020, Director of Policy Relations co-authored the book 'Asia Africa Growth Corridor: Development Cooperation in Indo Pacific' with RIS, Delhi, which was published in October 2020.

F. South–South Cooperation

ERIA's network organisation in India, Research and Information System for Developing Countries (RIS), organises the Delhi Process on South–South Cooperation to further the goals of Buenos Aires Plan of Action. ERIA participated in Delhi Process VI, held in New Delhi on 16 February 2021. The conference was themed 'UN @75 and South–South Cooperation: Evolving Roles and Responsibilities' to assess and identify the future challenges and their implications for South–South Cooperation and Triangular Cooperation, and develop a roadmap in tune with the consensus arrived at BAPA+40 in Buenos Aires. The president's office will continue to share its work and findings in the next initiatives of South–South and Triangular cooperation in the coming years.

G. Support to Stakeholders

The policy relations office is committed to bringing the countries of EAS and the dialogue partners together through greater economic and social interlinkages. In furtherance of this objective, it participated in several workshops and symposiums across Asia and the Pacific, and in Europe to bring the stakeholders in, and bring partners of ASEAN and East Asia closer, through dissemination of East Asian economic cooperation experience and through demonstrating the values of free trade and economic cooperation. It has written extensively in several regional newspapers and online platforms on the issues of multilateral governance, connectivity, and sustainable financing and development issues faced by East Asia. In 2020, the focus of its activities have been on international cooperation for rebuilding and recovery from the economic and health crisis of COVID-19. It is expected that such advocacy and research dissemination activities will support the policymaking on trade and economic cooperation amongst the members of EAS, and the important Dialogue Partners in Africa, Europe, and North America.

Research

COVID-19 Related Projects

1. 10+3 Cooperation for Improvement of Supply Chain connectivity (SCC)

The 21st ASEAN Economic Ministers Plus Three Consultations reached a consensus to carry out a Joint Study on '10+3 Cooperation for Improvement of Supply Chain Connectivity (SCC).' On the sidelines of the 21st ASEAN Plus Three (APT) Summit in November 2018, the parties involved announced the launch of the Joint Study and appointed their research institutions to conduct it. The institutions are Chinese Academy of International Trade and Economic Cooperation (CAITEC), Economic Research Institute for ASEAN and East Asia (ERIA), Japanese External Trade Organization (JETRO), and Korea Institute for Foreign Economic Policy (KIEP).

ASEAN has been taking its own initiatives to improve the trade facilitation environment amongst its member states through reducing trade transaction costs by 10% in the region by 2020 as agreed by the ASEAN Economic Ministers (AEM) at the 23rd AEM Retreat held in March 2017. In this regard, the ASEAN Seamless Trade Facilitation Indicators (ASTFI) and Trade Transaction Costs (TTC) projects, conducted in cooperation with the ASEAN Trade Facilitation Joint Consultative Committee (ATF–JCC), Coordinating Committee on Customs (CCC) and the ASEAN Secretariat (ASEC), are studying the trade environment in ASEAN by conducting surveys of the government agencies and measuring trade costs through conducting a Time Release Study and dwell time data. Simultaneously, the recently

updated ERIA–UNCTAD Non-Tariff Measures (NTMs) database which was shared by ERIA to ASEAN Member States (AMS) to populate their respective national trade repositories (NTRs) will contribute towards increased transparency. In addition, managing NTMs in ASEAN project will help provide the necessary approaches to streamline NTMs. Further, ASEAN has also adopted the Guidelines for the Implementation of ASEAN Commitments on Nontariff Measures on Goods to address and manage future NTMs.

The proposed Joint Study on '10+3 Cooperation for Improvement of Supply Chain Connectivity (SCC)' would, therefore, complement the ongoing trade facilitation initiatives in ASEAN, help improve trade amongst ASEAN Member States, and enhance supply chain connectivity between ASEAN and CJK countries. The APT members, geographically from Northeast Asia to Southeast Asia, comprise developed countries and developing countries, whose population accounts for 57%, GDP for 88%, and trade volume exceeds 50% of Asia's total. Extension of the scope of SCC research to the APT countries will not only boost the region's economic development and increase the scale of trade between these countries, but will also be of great significance for SCC building in Asia or even worldwide.

On 14 April 2020, the Special ASEAN Plus Three Summit on COVID-19 was held via video conference. In the Joint Statement 1, the Leaders reaffirmed their commitment to APT cooperation and mutual support. The Leaders agreed that APT countries need to enhance macroeconomic policy coordination, ensure the smooth functioning of the industrial and supply chains, and gradually restore social and economic order. Facing the unprecedented challenges of COVID-19, APT countries need to work together to overcome the pandemic and restore economic vitality as soon as possible by taking effective measures to strengthen SCC cooperation in the region.

Policy Implications:

- An overview of the general situation of SCC in APT countries.
- Constraints and risks encountered by enterprises in the APT countries, through desk research and interviews, in relation to physical infrastructure, logistics, trade facilitation environment regulations, amongst others, including how they have been affected by the current pandemic.
- Policy recommendations to improve SCC in the APT countries.

2. Survey of the Impact of COVID-19 on Business Activities and Supply Chains in East Asia and the ASEAN Region

COVID-19 has seriously affected the economies of East Asia and Southeast Asia through disruptions in the movement of goods and services in the global value chains of the region and a fall in demand resulting from social distancing and lockdown measures. Moreover, the uncertainty of when the pandemic will end puts pressure on economic activities. The economic shock caused by the COVID-19 crisis is likely to more significantly impact the real economy than the recent financial crisis. In particular, in East Asia and Southeast Asia, which have established themselves as the 'factory of the world', concerns about the impact of the pandemic

on their corporate activities and production networks are prevalent.

In November 2020–February 2021, the Economic Research Institute for ASEAN and East Asia (ERIA) surveyed local and foreign companies in ASEAN and India to understand the impact of COVID-19 on business activities and supply chains.

Key findings of the survey include the following:

1. The COVID-19 impact promotes changes in the supply chain, whose effects are larger than the trade frictions between China and the United States (US).
2. Many of the respondents have already implemented changes on the customer side of supply chains. Changes on the supplier side and in production locations are still being considered.
3. About 40% of the manufacturing respondents have already implemented changes to or planned to change the production location in response to the COVID-19 pandemic.
4. Many respondents have resorted to cost reduction and optimisation as supply chain measures in response to COVID-19, but not many have adopted digitisation.

Deepening Economic Integration

1. Dynamics of Global Value Chains in Asia

The COVID-19 pandemic has tested the endurance of global value chains (GVCs) in Asia and other parts of the world. In many places, the production crisis and the health crisis became conflated. Putting the saving of lives over economic output has become the policy choice, resulting in severe shocks to production and demand.

The shocks and disruptions in GVCs have led businesses to consider diversification of investments and restructuring of supply chains. In the medium- and longer-terms, investments in manufacturing, and even research and technical cooperation, will encounter structural and geographical changes, in which new centres of production and consolidation and integration of supply chains in Asia, Africa, and Europe are likely to emerge. Geographically and industry-wise, change in investment patterns and GVCs has started to emerge in the past few years as shown by declining GVC integration since the global financial crisis, vertical integration in China resulting in companies in Asia moving supply chains to Southeast Asia, an overall decline of value chain participation of Asian countries with China, and a plateauing of China's trade with the US, etc.

The study will discuss the importance of investment linkages in the context of GVCs, links between relationship-specific investments by lead firms, and the resilience to shocks of a GVC. The study will plot recent trends in foreign direct investment (FDI) in Asia, using data from United Nations Conference on Trade and Development and Organisation for Economic Co-operation and Development. The study will discuss the role of micro, small, and medium-sized enterprises as second- or third-tier suppliers in GVCs, issues of domestic linkages, and the ability of firms to make local supplier linkages. The study will examine the impact of the COVID-19 pandemic on FDI and GVC development, underlining the initial tensions in key GVC sectors such as medical products, pharmaceuticals, and, potentially, food products. The study will also analyse subsequent supply responses, and investment patterns in manufacturing activities in selected economies highlighting the vertical integration in the value chains in Southeast Asia, South Asia, and China. Policy areas framing investment flows in major partner economies, particularly the EU, the US, and Japan, will be highlighted. Trade policy response to the COVID-19 pandemic will be reviewed using data from the Global Trade Alert. In digital economy value chains, the study will demonstrate if service GVCs or manufacturing GVCs with strong service components can promote growth in the same way as traditional manufacturing GVCs.

2. Handbook of Asian Economic Integration

ERIA has been working together with Edward Elgar Publishing to produce a handbook on regional economic integration in Asia. The volume will provide an opportunity for the wide range of ERIA's publications relevant to this topic to be compiled and placed in the context of related research in this field. This highlights ERIA's significant contribution to the field and assists in identifying priorities for future work.

Elgar Handbooks are works designed to provide a broad overview of research in a given field at the same time as creating a forum for more challenging, critical examination of complex and often under-explored issues within that field. Often widely cited, individual chapters present expert scholarly analysis and offer a vital reference point for advanced research. Taken as a whole they achieve a wide-ranging picture of the state-of-the-art. The Handbook will be made up of original, specially commissioned chapters.

In addition, the publisher will establish a companion website for the book, which will include all data presented in all chapters (tables and charts) and materials recorded by authors to assist with using the Handbook for teaching and lecturing purposes.

3. Cities, Urban Amenities, and the Global Production Value Chain: New Developments in Trade and Services Liberalisation in East Asia and ASEAN

The regional and global supply chain activities in Asia and ASEAN are growing and deepening as more mature economies are moving to the second stage of production fragmentation and newly emerging ASEAN countries are already building up the industrial base for the first stage of production fragmentation. However, we are also observing certain challenges emerging in the Asian region. The level of liberalisation and in particular services and investment liberalisation is losing momentum. Asian cities are plagued by high population densities, which decreases the returns to urbanisation (pollution and congestion) and limits their productive contribution to regional growth.

The level of trade and investment liberalisation in the multilateral agreements, such as the Regional Comprehensive Economic Partnership (RCEP), is becoming weaker and tends to be of a very low denomination for further regional integration. There are several policy issues that have to be addressed as East Asian and ASEAN economies are at different stages of growth in the global production value chain. Most of the developed ASEAN countries of Indonesia, Philippines, Thailand, and Viet Nam are in the middle stage of the second unbundling; Malaysia is in the later stage of the second unbundling; and the ASEAN LDCs of Cambodia and Lao PDR are now in the beginning stage of the second unbundling. Singapore is already in the beginning stage of the third unbundling. The current study focuses on the role of cities in creating urban networks and urban amenities, attracting and developing skills and human capital, as well as driving creativity. This in turn supports the development and liberalisation of the services sectors and the operation of the global production value chain in the Asian region. In particular, the study focuses on:

1. The regional competitiveness and productivity of cities and what drives creativity in urban areas, leading to innovation and more extensive entrepreneurial activities;
2. An industrial policy that balances 'agglomerative' effects with 'dispersion' effects will be critical for the next stage. In fact, industrial and social policies to create sustainable as well as inclusive growth will be critical for the next stage of growth for the East Asian and ASEAN countries;
3. Human capital development will be critical and labour market implications of task-based activities will have direct impact on education and human capital development (training) policies in East Asia;

4. Skills development and the preparation for workers to move from skill-based activities to task-based activities will be critical and the relevance of their human capital for future skills will be critical. The study will focus on the labour market implications of task-based activities;
5. There is a need to understand services liberalisation and policies needed to manage the services liberalisation in the third stage unbundling;
6. There is a need to understand the transition (linear or nonlinear effects) and market structure from the second stage unbundling to the third stage unbundling as there might be significant structural adjustments in the domestic economy. There are likely to be economic as well as social cost due to the structural adjustments in the domestic economy; and
7. The third stage unbundling will highlight the importance of digital economy and services sector development in the region. 'New Age' free trade agreements will have to be developed to manage information flow ('oil' for the new economy) and issues such as localisation versus globalisation, e-commerce, virtual-migration, virtual-SMEs, and artificial intelligence (AI) and robotics will be important. The project is expected to contribute to key policy discussions on the development of services liberalisation and development of services supply chain in the region.

Policy Implications:

1. The research is expected to contribute to the understanding of the relationship of urbanisation to creativity and innovation, including entrepreneurial activity and various dimensions of city performance;
2. It will draw out the implications for supply-chain activities and the implications of their development, with these drivers, for regional multilateral trade agreements such as RCEP that is currently under negotiation in Asia;
3. Services liberalisation will be crucial for regional integration and for a well-developed supply chain (in goods and in services) which will allow countries in the region at various stages of development to participate effectively;
4. The study intends to map the fundamental factors such as contribution of cities in Asia, urban amenities, institutional reforms, soft and hard infrastructure for various stages of the services supply-chain activities in the region; and
5. Because of the nature of international business in services, it is expected that the project will include treatment of investment and the movement of people, in the cases where these factor flows are linked to transactions in other modes.

4. Non-Tariff Measures in Australia, China, India, Japan, Republic of Korea, and New Zealand

Non-Tariff Measures (NTMs) are the new frontier for regional integration and market access, as tariffs have been continuously decreasing. NTMs are at the border and behind-the-border requirements. It is not new that these are relevant, probably more so than tariffs, in determining trade patterns, and flow magnitude and direction. Still, they often go unseen and do not receive appropriate attention. Negotiations amongst countries for deep integration through trade agreements often include NTMs as a key area, and often negotiations in this area are amongst the hardest. This shows the crucial

importance of NTMs, including all the policy areas that fall within this definition.

This report (published on 5 October 2020) highlights the results of the first-time data collection work in RCEP negotiating countries: Australia, China, India, Japan, New Zealand, and the Republic of Korea, apart from the Association of Southeast Asian Nations (ASEAN), which has been presented in other reports (ERIA and UNCTAD, 2016 and 2019).

These data contribute to a global NTM database that opens for the public as a form of transparency on the information for researchers, businesses, and policymakers. Data collection was done with consistent methodology across all countries. This work was possible through the joint work of Economic Research Institute for the Association of Southeast Asian Nations and East Asia (ERIA) and United Nations Conference on Trade and Development (UNCTAD) in the area of NTMs.

Narrowing Economic Gaps

1. The India–Myanmar–Thailand Trilateral Highway and its Possible Extension to Cambodia, Lao PDR, and Viet Nam: Challenges and Opportunities

The Trilateral Highway (TLH) exemplifies the letter and spirit of connectivity between India and the Association of Southeast Asian Nations (ASEAN). It connects India, Myanmar, and Thailand, and is

linked with ASEAN's connectivity plans. Still a project under construction, its potential contribution to the economic growth and development of the region is indubitable. This study examines the maximising of these objectives through a proposed extension of TLH to the Lao Lao PDR, Cambodia, and Viet Nam.

Based on a mandate from the ASEAN–India Summit Meeting of 2018 and commissioned by the Government of India, the Economic Research Institute for ASEAN and East Asia (ERIA) has studied the feasibility of establishing a seamless, efficient, and end-to-end transportation corridor along the existing TLH and its extension towards Cambodia, Lao PDR, and Viet Nam. This study offers physical, institutional, and economic pathways, along with policy recommendations for the development of TLH and its eastwards extension. The need for seamless physical connectivity and resilient supply-chains has been especially underlined in the COVID-19 crisis. The study on the TLH and its eastward extension fulfils this current need, and also lays down pathways for medium- and longer-term integrated connectivity solutions between India and ASEAN. The study was presented to the Senior Economic Official's meeting and to the ASEAN–India ministerial meeting. The study is being used to develop for developing the plans for new supply-chain linkages between India and ASEAN, and in other regional and inter-regional architecture such as the Asia–Africa Growth Corridor, Australia–Japan–India, and the Indo–Pacific.

The report of this project was published under ERIA Research Project with two volumes – an integrative report and background papers – on 15 June 2020.

2. Outcomes of Long-term Care Insurance Services in Japan: Evidence from National Long-Term Care Insurance Claim Data

The goal of this study is to clarify the structural and procedural factors associated with the sustainment or improvement of residents' care needs in long-term care facilities. Residents in long-term care facilities, day-service users and day-care users will be included in this research. We will carry out statistical analyses by combining national long-term care insurance claim data, vital statistics data, and a survey of institutions and establishments giving long-term care. The period to be studied is September 2015 to March 2017. We will focus on incentives designed to boost the quality of care, and will clarify their effect on the outcomes of residents. A multilevel logistic regression will be used to clarify facility effects after adjusting for the different characteristics of residents. To ensure the continuous improvement of long-term care, and to explain how Japanese long-term care services contribute to maintaining and improving the health of long-term care service users, it is necessary to clarify the structures and processes that contribute to the improvement of outcomes.

The report was published as an ERIA Research Report on 28 October 2020. Japan has the oldest population structure in the world, with a share of 28.1% of people aged 65 years or above in 2018, and this rate is still increasing. In 2000, Japan introduced a compulsory public long-term care insurance (LTCI) programme to meet the challenges of its rapid population ageing and ensure equitable access to long-term care services. All citizens and foreign residents aged 65 years or above are eligible to receive LTCI services if they are certified to be the

beneficiaries of LTCI based on the care-need level assessment. The method of assessment is specified by the national government and Japan retains all information on beneficiaries' long-term care insurance claims, making it easier to observe their functional changes over time. This study aims to investigate the predictors of care-need level change by focusing on the users of long-term care facility services, adult day service users, and day care users by applying national-level long-term care claims data.

3. Preparation for Ageing Society in Thailand

Thailand is heading towards rapid population ageing. The Centre of Excellence for Ageing Business and Care Development (ABCD) of Thammasat University was established to provide policy recommendations related to population ageing, and guidelines for both government and the private sector. The ABCD also works on research collaborations on ageing societies. This project consists of the following four parts.

Policy Recommendations:

1. To provide strategic recommendations on government and private sector management of population ageing, including guidelines on cooperation on healthcare and long-term care for older people between the government, private sector, NGOs, international organisations, the medical sector, and researchers;
2. To provide data on existing care business start-ups, and market and innovation trends related to older people, and contribute to the development of effective cooperation between the public and private sectors. These are necessary to create active ageing societies;
3. To propose policies and policy modifications that encourage older people to make smarter financial choices;
4. To provide the government and membership-based organisations with the appropriate policy measures to prepare for the ageing of informal workers; and
5. To serve as a platform for a broader study on informal workers

4. Human Capital in ASEAN

Rapid technological advancements and shifting patterns of specialisation and trade have required Asian economies to accelerate accumulation of human capital. While much has been written about the state of human capital at the aggregate level, understanding the factors affecting human capital formation at the level of individuals and households, particularly in developing and emerging countries, is limited. Empirical research grounded in economic theories of human capital investment can provide insights for policymakers.

Various strands of economic literature can contribute to a better understanding of the process of human capital development. A multi-dimensional conceptualisation of human capital, involving cognitive and non-cognitive characteristics as well as health, is widely accepted. Each component of human capital undergoes a formative process. In one important strand, researchers conduct structural estimation of the human capital production function to uncover the contribution of various factors to overall human capital. The

estimates from these models can identify where policy interventions can be most effective.

Most observers of Southeast Asian economies concur that the region faces a risk of skills shortage. Amongst the wealthiest ASEAN economies, Thailand and Malaysia face an ageing population, Indonesia and the Philippines have poor education infrastructure, and Singapore has a small workforce. The World Bank's Human Capital Index gauges the amount of human capital children born today can expect to achieve when they are 18 years old, relative to the ideal scenario of full education and health. For Southeast Asia, the index ranges from 0.45 for Lao PDR to 0.88 for Singapore. This means that, given the current provision of health and education, the productivity of a child born today in Lao PDR will be 45% of the ideal condition. ASEAN Member States are keenly interested in expanding their human capital base to sustain their economic growth and modernise their economies. Expansion of education and training has been highlighted as a policy imperative.

The objective of this project is to expand the perspective on human capital development by analysing factors that impact each component of human capital. The project will bring together researchers to conduct empirical research. Each researcher will develop an original research proposal and conduct rigorous empirical research. During FY2020, this project produced nine Discussion Papers from project members.

5. The Current Status and The Future Prospect of xEV in ASEAN

This project seeks to clarify the impacts of electric vehicles (xEV) on the automobile industry and our society by explaining the current xEV status and the future global automobile production network in the ASEAN region. Highly sophisticated cross-border production networks characterise the automotive and electronic industries in the ASEAN region, i.e. specific production factors are highly fragmented across countries. Although still limited to a few cases, automotive suppliers have started to locate certain xEV production processes in ASEAN countries. The automotive component industry is a representative example because it already operates a complex division of labour in ASEAN and has been designated as a key industry of the ASEAN Economic Community. Studying the workforce and the actual content of work in the xEV production network is important to understanding similarities and differences amongst production sites in the Cambodia–Lao PDR– Myanmar–Viet Nam region and older ASEAN member countries. The project also seeks to understand the research and development activities of automotive industries, particularly those related to the development of xEV in the ASEAN region, where developing countries have different levels of production complexities. The project aims to conduct research through firm surveys and case studies that could analyse factories producing identical or at least similar xEV components.

POLICY IMPLICATIONS: From the results of the project's objectives, recommendations regarding xEV strategies of automotive and electronic firms in ASEAN could be formulated. The proposed research could help small and medium-sized enterprises in ASEAN and transnational enterprises identify xEV strategies they could adopt. Regarding the gaps between local capabilities and the xEV technology that transnational enterprises demand, the research could formulate policy recommendations for ASEAN countries. But as xEV progress in ASEAN countries depends on the social infrastructure in each member country and the xEV progress in China, recommendations would focus on formulating an xEV development strategy for these particular countries.

Sustainable Development

1. Financing Infrastructure for Climate-Change Adaptation

Threats from climate change are real and cannot be ignored. Scientists are increasingly recording rising sea levels, sea and air temperatures, weather anomalies, etc. The frequency and magnitude of climate-related disasters have been increasing globally. The Food and Agriculture Organization estimated, in 2015, that the world suffered economic cost up to US$1.5 trillion from 2003 to 2013 because of climate-related disasters,

apart from their impacts on human health. The International Panel on Climate Change estimated, in 2018, that the world would need $1.6 trillion–$3.8 trillion of investment in energy system to maintain the rising temperature within 1.5 degrees C. The major events pushing global awareness on climate change risks are (i) the Paris Agreement within the United Nations Framework Convention on Climate Change, dealing with greenhouse gas emissions mitigation, adaptation, and finance signed in 2016; (ii) the 2030 Agenda for Sustainable Development, widely cited as Sustainable Development Goals (SDGs); and (iii) the Sendai Framework for Disaster Risk Reduction in 2015. The awareness and commitment to reduce the effect of climate change have been supported by a majority of countries. To date, 75% of country commitments, represented by nationally determined contributions, have adaptation targets, although many are difficult to measure (only 18% of adaptation goals are quantified). Commitment to the SDGs also partially contains elements of supporting resilient infrastructure finance.

Governments can be better fiscally prepared for climate change if they (i) include climate change as part of their long-term objectives in public budget and expenditure framework, (ii) improve financial tracking and performance accountability at the spending units, and (iii) strengthen public financial management systems to tap external climate finance.

This study aims to review the implementation of infrastructure financing for climate change adaptation in selected East Asia developing economies. It will look at regulatory aspects, budgeting, institutional frameworks, and implementation. The study will also present several case studies from selected economies. The study reviews government strategies and actions for climate change adaptation, especially in the infrastructure sector. The study suggests ways to fill the gaps in data availability and quality and to maximise resource mobilisation, including access to climate funds and green financing. The study briefly discusses infrastructure policy responses to COVID-19.

2. Applying Extended Producer Responsibility Towards Plastic Waste in Asian Developing Countries to Reduce Marine Plastic Debris

The extended producer responsibility (EPR) mechanism is adopted in many countries to give producers responsibility for managing their products up to the post-consumer stage. In developing countries, EPR is mostly implemented for electronic waste. However, with the rising concern about marine plastic, developing countries, including those in Asia, have started to apply EPR for package and container waste. In practice, developing countries significantly differ in their implementation of EPR compared with developed ones due to contrasting social, economic, technology, and other factors.

This paper aims to explore the challenges of developing countries in applying EPR and to determine possible measures to overcome the challenges. Results show that applying EPR for plastic waste in developing countries faces many challenges, such as the existence of a market-based collection system of recyclables, high transport cost, lack of waste collection services in rural areas, limited number of facilities to manage certain types

of plastic waste, insufficient pollution control, and free riding and orphan products. The challenges can be minimised by differentiating the responsibility of producers, focusing on rural and remote areas, involving informal sectors, creating joint facilities in recycling parks, expanding waste management collection services, increasing the use of EPR, and minimising free riding. Aside from optimising the implementation of EPR, other related measures ensure the circularity of plastic waste in Asian developing countries. For instance, governments or private companies facilitate investment to reduce transport cost of collected recyclables, enhance recycling design, develop industrial standards for recycled products, and stimulate green public procurement. The study presents typical challenges in EPR implementation and possible measures to address them. They can have valuable lessons for other Asian developing countries that are considering or even preparing related policy to implement EPR. Most Asian developing countries can benefit from other countries' experience, not only in adopting EPR but also in enhancing the circular economy model in dealing with marine plastic debris.

3. Technology and Jobs in East Asia

The world today is witnessing an unprecedented pace of technological progress. The fourth industrial revolution, a concept encompassing the application of smart technology to economic activities, is predicted to exert a profound impact on the global economy by enhancing productivity and efficiency, as well as encouraging the exchange of ideas and improving life's conveniences. Despite such benefits, there has been growing concern about the disappearance of some occupations and jobs. Displacement of workers increases income disparity and threatens social stability, thus posing a challenge for inclusive growth. The question then is how to take advantage of this new wave of development and at the same time to prepare workers for unfavourable changes, if any, in the labour market. Theoretically, technological progress can either complement or substitute workers and skills. In addition, production expansion as a result of technological improvements could lead to rising labour demand. The net effect of technology on employment is thus not clear-cut with the answer remaining an empirical matter. Against this backdrop, this project aims to deepen the understanding about the relationship between technology and jobs by providing further empirical evidence in the case of East Asian countries.

Policy Implications:

- Policies to support workers to adjust to the changing landscape, for example through education and training, financial aid, job seek support.
- Policies to encourage the development of labour-intensive technology.
- Policies related to the informal sector, which can absorb laid-off workers from formal sectors.
- Policies to accommodate the development of new industries and new jobs.

The report of this project resulted in the publication of five ERIA Discussion Papers in FY2020.

4. Assessing the Readiness of Industry 4.0 for Circular Economy

Industry plays a central role in the economies of the East Asia Summit (EAS) countries. It serves as a key driver of research, innovation, productivity, job creation, and exports. Looking at its effect on services alone, industry can be considered a social and economic engine of Asia. But industry in the EAS countries is fundamentally diverse – while many countries' emerging industrial sectors are gaining productivity and market share, some advanced economies like Japan, Republic of Korea, and Singapore have been losing ground in the past 2 decades. Most of the traditional industrialised countries in Europe have also been experiencing a decline in manufacturing competitiveness and resource efficiency due to several factors. Imitating the successful industrial models of Europe, Japan, or the US may not be a viable solution for developing countries of Asia. A successful approach to reindustrialisation needs to be much more than simply rebuilding structures of old-fashioned manufacturing. The concepts of Industry 4.0 and a circular economy have recently gained traction in EAS policymaking as a positive, solution-based perspective for achieving resource-efficient industrial development using the next generation of technologies. Current academic, industrial, and policy debates set out a large number of initiatives to be included under the action plan to maximise the use of resources available within the economy. They also indicate that the transition to Industry 4.0 and a circular economy requires fundamental changes in many different areas of the economic system. Although it is a difficult and complex process, several crucial areas of change can be identified in the technology, engineering, economic, and social domains. This study addresses the interface between Industry 4.0 and a circular economy, and whether the integration of both would unleash new gains in productivity and efficiency. It also looks at whether the experiences gained in other parts of the world could be transferred to the ASEAN region, providing respective recommendations and conclusions. The main objective is to prepare a manual consisting of a fairly robust framework for measuring the readiness of EAS economies for Industry 4.0 and a circular economy.

Policy Implications:

1. The ERIA Assessment Framework for Industry 4.0 Readiness shall be applied at macro (national), meso (sector), and micro (local) levels and utilised to recognise the driving factors and enabling environments;
2. As with all transitions, the benefits of Industry 4.0 are not going be evenly distributed. Some industries, businesses, regions and worker groups are likely to be disadvantaged, while other sectors will benefit; and
3. Efforts to realise the benefits of Industry 4.0 and a circular economy will also depend on the quality and speed at which adequate education and skills training are developed and rolled out.

The report of this project was published as an ERIA book titled: Assessing the Readiness of Industry 4.0 and the Circular Economy on 26 November 2020.

5. Innovations and Experiences in Financing Disaster Risk Reduction

The Association of Southeast Asian Nations (ASEAN) and East Asian Region is more vulnerable to natural disasters than any other part of the world. Recent disasters such as the Great East Japan Earthquake or the Thailand floods have made us understand our vulnerabilities to the forces of natural disasters and their wider consequences for energy security, which stretch far beyond the directly affected areas. The Fukushima disaster, in particular, showed how the impact of natural disasters can be hugely amplified by technological hazards such as nuclear power plant shutdowns. This report reviews the key disaster management strategies and energy security actions being adopted in Japan, Europe, and the US from the perspective of nuclear power plant operations. Based on a barrier analysis of ASEAN countries, this study proposes an integrated policy framework that could enhance appropriation of resources – technology, finance, and decision-making capacity – for improved resilience of future nuclear infrastructure investments.

Policy Implications:

- It is appropriate to build a country-specific model for each country based on the activities and histories of the advanced countries and incorporate applicable lessons based on their own predictions of the future.
- Enhancing nuclear resilience by preparing an academic field to conduct discussions about nuclear resilience amongst advanced countries and ASEAN countries is strongly recommended for all countries that are considering the introduction of nuclear power or where experimental nuclear facilities are already in operation.

6. Study on Potential for promotion of CCUS in ASEAN

Carbon Capture Utilisation and Storage (CCUS) surely contributes to reducing CO_2 emissions from thermal power plants and energy intensive factories such as iron and steel. Thus CCUS will be indispensable to accomplish decarbonisation. As part of this project the 3rd East Asia Energy Forum was organised to discuss CCUS from the angles of technology, business model, regulation, F/S and financing. In addition, the importance of the CCUS network to realise a CO_2 value chain, which consists of capture, transport, and storage, is highlighted. Policy Implications: Initiate establishment of an Asia CCUS Network.

The report of the study 'Study on the Potential for the Promotion of Carbon Dioxide Capture, Utilisation, and Storage in ASEAN' was published on 19 March 2021. It uses a multi-aspect survey approach and includes findings on recent trends in policies, technologies, and business development from countries with experience of Carbon Dioxide Capture, Utilisation, and Storage (CCUS). It also looks into the potential for CCUS development in the Association of Southeast Asian Nations (ASEAN) and the East Asia Region. Based on discussions held at the 3rd East Asia Energy Forum, the report reiterates the important role CCUS can play in the region to achieve both energy transition and decarbonisation objectives. It also explores the potential and benefits of a regional collaborative approach, which is proposed as the Asia CCUS Network to create an enabling environment for business cases of CCUS.

Energy Related Project

1. Evaluation of CO_2 Emission Reduction by Alternative Biofuel Introduction in East Asia Summit Countries

The East Asia Summit (EAS) region's fleet of light-duty vehicles is set to increase massively from about 850 million passenger cars in 2015 to over 1.5 billion by 2050. To meet the expanding energy demand in transportation, energy resources should shift from imported fossil fuels to renewable ones produced in East Asian countries. This study assesses production, trade, supply, and utilisation of transportation energy from biofuels according to (i) a potential study of diversified transportation energy mix, (ii) research on next-generation biofuels, and (iii) bio-methanol as an energy carrier. The study discusses strategies of transport fuel, which makes up 23% of energy-related emissions. A combination of in-depth scenario analysis and country-level feasibility studies on next-generation fuels was carried out in India, Indonesia, and Thailand. An integrated report was prepared and submitted to the Energy Ministerial Meeting.

Policy Implications:

- A combination of electrical vehicle introduction and biofuel utilisation is the most effective in reducing oil consumption and CO_2 emission. Electric vehicle penetration has a positive effect on promoting the use of biofuel in supporting agriculture.

- Whilst electrical vehicle promotion will contribute mainly to gasoline reduction, the imbalance between gasoline and diesel fuel consumption remains an issue in Thailand since diesel fuel consumption is much higher than gasoline consumption. Hence, reducing diesel fuel consumption should be prioritised through an appropriate blend of biodiesel.
- Effects of biofuel introduction on oil consumption and/or CO_2 emission reduction are limited to new vehicles.

The report was published on 11 November 2020.

2. Nuclear Safety and Effective Use

This study is a qualitative policy analysis of challenges to safety culture and security culture in advanced economies of Europe and the United States (US) and major economies in Asia, aimed at strengthening both cultures. The study analyses lessons, including strengths and limitations, that can be derived from advanced countries, given the long history of nuclear energy in the United Kingdom (UK), France, the US, India, the Republic of Korea, China, and Japan. The study will identify and examine the best practices in boosting nuclear security culture and their relevance for Southeast Asia. It is designed to accentuate the important role of the state as the regulator in adopting policy and regulatory frameworks and in institutionalising nuclear education and training programmes to deepen safety and security cultures. Policy Implications: It is important to develop, through international cooperation, the scientific, technological, and legal bases required for a safe, environmentally friendly, and economical use of nuclear energy.

Authoritative assessments must be provided, and common understanding forged on key safety issues as input for government decisions on nuclear energy policy and for broader integrated industry analyses in areas such as energy and sustainable development.

Best practices in and challenges to developing a nuclear safety culture and security culture are being examined using three frameworks of analysis: (i) a comprehensive nuclear safety policy framework, (ii) a proactive and independent regulatory body, and (iii) holistic nuclear education and training programmes. The study is based on the hypothesis that states interested in harnessing nuclear energy must develop a comprehensive policy framework on developing safety and security cultures, a proactive regulatory body, and holistic nuclear training programmes that cover both technical and human factors. Such measures are crucial in mitigating human errors that may lead to radiological accidents and nuclear security crises. Key lessons from overseas as best practices and challenges can inform policy recommendations for Southeast Asia in enhancing safety and security cultures.

The report published in September 2020 stated that no industry is immune from accidents. In relation to nuclear power, safe use focuses on unintended conditions or events leading to radiological releases from authorised activities. A fundamental principle of nuclear power plant operation worldwide is that the operator is responsible for basic safety. This is facilitated first by the national regulator who is

responsible for ensuring the plants are operated safely by the operator. The second important safety principle is that safety regulations are meant to protect people and the environment, and regulations are made on sound technical grounds, taking into consideration the operation costs and benefits. Third, there are international standards for designing nuclear power plants and certification of its reactors with several sets of codes and standards related to safety. In this context, this report investigates the design and operational concepts of nuclear power plants to minimise the likelihood of accidents, or their consequences. The international analysis show that an optimum tolerable level of safety is feasible by applying an integrated deterministic method that incorporates the concept of probabilistic risk assessment. It concludes that safety is to be judged based on whether residual risks are within the tolerable range, which could also be regarded as the safety goal to be set by the regulators.

3. Energy Outlooks and Energy Saving Potential in East Asia Region

This project uses the national energy balance tables of 17 East Asia Summit (EAS) countries to estimate energy demand formulas. Using the newly estimated formulas, the EAS energy outlook and saving potentials are updated from 2017 to 2050. Based on the business-as-usual scenario and the alternative policy scenario, energy saving potentials are updated, and the scenario of large penetration of hydrogen is added. Policy Implications: Energy efficiency and renewable energy policies are aimed to improve energy intensity in the EAS region but are not designed to address CO_2 emission until 2050. Hydrogen is an option to reduce CO_2 emission and affordable hydrogen will be crucial in the future. Energy efficiency and renewable energy policies are aimed to improve energy intensity in the EAS region but are not designed to address CO_2 emission until 2050. Hydrogen is an option to reduce CO_2 emission and affordable hydrogen will be crucial in the future.

ERIA published this project as a book on 29 January 2021, continuing the series of books on this project since 2016. This year the ERIA–EAS Energy Outlook was updated in 2019–2020 based on a revision of macro assumptions, such as economic and population growth as well as lower crude oil prices. The latest outlook also incorporates more recent information on the EAS17 member countries' energy-saving goals and action plans, and power development plans such as those regarding renewable electricity. The EAS17 Outlook 2020 includes an estimation of the investment cost required for power generation and the whole energy infrastructure, including liquefied natural gas (LNG) receiving terminals and oil refineries. The outlook again focuses on analysing the additional energy savings that might be achieved by the individual countries above and beyond the Business-as-Usual scenario (BAU) projection. It continues to examine two scenarios – BAU and the Alternative Policy Scenario (APS) – and predicts energy supply, consumption, and CO_2 emissions from 2017 up until 2050. The APS includes not only more ambitious energy-saving targets but also rapid advances in low-carbon energy technologies, especially renewable energy. The outlook also assesses the Intended Nationally Determined Contributions (INDC)/NDC reported by EAS17 countries. Energy supply security has become

a top priority energy issue for the EAS17 region. Implementing Energy Efficiency and Conservation measures and increasing renewable energy shares will certainly contribute to maintaining regional energy security through a reduction of imported fossil fuel consumption and an increase in the use of domestic energy. Regional energy networks, such as the Trans-ASEAN Gas Pipeline and the ASEAN Power Grid, and oil stockpiling are recommended to be set up and their use accelerated to maintain energy supply security. Nuclear power generation always remains one of the energy options for securing the region's energy supply.

4. Seeking for Feasible Solutions on Delivering LNG to Mid-sized and Large Islands in Indonesia

Indonesia has many islands that depend on diesel generators for electricity supply. Although the diesel generator is a well-established technology and is easy to maintain, its relatively high generation cost and high gas emission are a disadvantage. Liquefied natural gas (LNG) costs less and emits less CO_2 than diesel. Until recently, LNG's high cost and extremely low-temperature characteristic kept many countries from using it. However, technological development, particularly floating storage and re-gasification, has largely reduced such obstacles. Indonesia's large islands can enjoy LNG's economic and environmental benefits by adopting such technologies for power generation. The study assesses the opportunities by identifying possible configurations of small-scale LNG supply chains for power generation to contribute to Indonesia's development through stable, affordable, and sustainable supply of electricity. The study is consistent with the strategic theme defined in the ASEAN Economic Community Blueprint 2025 and phase 1 of its subordinate paper, the ASEAN Plan of Action for Energy Cooperation (APAEC) 2016–2025. The study aims to contribute to regional energy policy and planning and the ASEAN Council on Petroleum framework.

The report, published on 29 January 2021, states that Indonesia's electricity demand will increase significantly, by about 4.5 times, from 2015 to 2040, according to the 2018 edition of the ERIA–EAS Energy Outlook under the business-as-usual scenario. This increase will be realised not only by big cities such as Jakarta and Surabaya but also on Indonesia's small and mid-sized islands. As Indonesia is also rich in coal and natural gas, given the global challenges posed by climate change, natural gas will become an increasingly interesting source of power generation for Indonesia. This study focuses on the eastern part of Indonesia, which is made up of Sulawesi and West Papua, and several groups of very diverse smaller islands. The report proposes a strategy for delivering small-scale LNG carrier vessels from LNG production sites to LNG power generation plants in Eastern Indonesia based on a personal computer-based dynamic simulation model. According to projected LNG demand at LNG power plants, forecast based on electricity demand at each demand site in Eastern Indonesia, the model seeks feasible solutions for delivering LNG from the origin to a destination using a computer simulation approach. The major outcomes of the dynamic simulation model are the necessary number of LNG ships, the maximum capacity of LNG receiving tanks and their costs, consisting of capital and operating costs. Several implications regarding LNG polices for Indonesia were presented.

5. Energy Efficiency Indicators for Mongolia

The Mongolian Energy Economics Institute conducted a detailed energy consumption survey on the industry, transport, residential, and commercial sectors in Mongolia to produce energy efficiency indicators. This first-time survey produced improvement points for the next survey. Policy Implications: As Mongolia's energy efficiency indicators are poor compared with that of OECD countries, more aggressive EEC policies are needed, especially in applying standard and labelling systems for appliances and the green building index approach in the residential and commercial sectors.

The report published on 22 January 2021 concluded that energy efficiency indicators (EEIs) are different from energy intensities defined by energy consumption as a share of gross domestic product (GDP). Usually energy intensity is calculated as total primary energy supply (TPES)/GDP or total final energy consumption (TFEC)/GDP; it basically shows the energy performance nationwide and the result of socio-economic activities in a year. The energy intensities never suggest appropriate energy efficiency policies and action plans. Thus, we need EEIs to plan appropriate energy efficiency and conservation (EEC) activities.

All energy is finally consumed by final users – industry, transport, commercial, and residential sectors. The agriculture, forest, and fishery sectors consume energy for their production activities but their energy consumption is very small compared with the four sectors mentioned above. In addition, an electricity-generation sector as a typical transformation sector consumes fossil fuels, such as coal, to generate electricity.

For transport, since the road transport sector is generally dominant in terms of fuel consumption, such as gasoline and diesel oil, we get the overall or national average of fuel economy defined as litre/100 km by each type of vehicle – car (mainly sedan), bus, and truck – as the EEI of the road transport sector. If we increase the number of more efficient cars, such as those with small internal combustion engines and hybrid cars, the EEI of the road sector surely improves.

The EEIs of the residential and commercial sectors are defined as energy consumption (toe or kWh) as a share of floor area (m^2). In addition, what kinds of energy are consumed for what purpose, and how electricity is consumed for what purpose (heating spaces, lighting, refrigerators, etc.) are important feedback from the survey. To get indicative EEIs for each final sector, the Mongolian Energy Economics Institute (MMEI), with support from the Economic Research Institute for ASEAN and East Asia (ERIA), conducted a detailed energy consumption survey in the whole of Mongolia in 2019.

To evaluate the EEIs of Mongolia, we need certain knowledge to analyse the relation between energy consumption, economic growth, industrial transition, and change of lifestyle. In addition, an international comparison of the EEIs is also a good way to evaluate them. But these EEIs are not well produced globally and we can refer only to the indicators of the Organisation for Economic Co-operation and Development. Through this project, the MEEI obtained its first experience and the technical skill for producing and assessing EEIs. The EEIs will change from year to year due to changes in social behaviour, economic growth, lifestyle, and

technology development. In this light, the MEEI should continue to produce EEIs every 3 to 5 years to reflect or improve current EEC 75 policies and action plans with greater effectiveness and that generate more economic benefits. ERIA would like to continuously support the MEEI technically to promote EEC in Mongolia.

6. Development of Energy Outlook Model for Myanmar

Forecasting future energy supply and demand is essential for policymaking on energy affairs. Case studies adding to business-as-usual scenarios as a baseline energy outlook, which include several scenarios such as promotion of energy efficiency and conservation, renewable energy, and reduction of CO_2, provide many energy policy options for the future. As Myanmar does not have a national energy outlook yet, the Ministry of Electricity and Energy has requested the Economic Research Institute for ASEAN and East Asia (ERIA) to help develop a national energy outlook model and sustainable energy development plan.

The project's purpose is to strengthen the capacity of the Ministry of Electricity and Energy and enable it to employ advanced techniques, methodologies, and modelling tools for the development, operation, and analysis of energy outlooks in Myanmar. The project will also enable the Ministry to establish and manage energy outlook modelling. Through this project, Myanmar is expected to establish an energy outlook modelling system that includes data preparation, understanding of an econometric approach and software tools, estimation of energy demand formulas, and simulation modelling for sustainable energy planning.

The report was published on 18 May 2020. To help Myanmar analyse the future energy demand and supply situation, the Economic Research Institute for ASEAN and East Asia (ERIA) has continued to support the Oil and Gas Planning Department (OGPD), Ministry of Electricity and Energy (MOEE) to produce the Myanmar Energy Outlook 2040 based on the Myanmar Energy Statistics 2019. ERIA has provided training on an econometrics approach to OGPD, MOEE staff members.

This approach consists of two parts: (i) estimation of energy demand formulas applying the ordinary least squares method using Myanmar Energy Statistics 2019, and (ii) development of future simulation models that forecast energy balance tables up to 2040 under several macro assumptions such as growth rates of gross domestic product (GDP) and population.

Myanmar's total final energy consumption (TFEC) (by industry, transport, commercial buildings, and residences) is forecast to increase by 3.0% per year on average up until 2040. Oil is projected to increase by 4.9% per year and electricity by 7.0% on average up until 2040.

Total primary energy supply (TPES) is forecast to increase by an average 3.5% per year up until 2040. The main imported fuel is oil, but by 2040 all fossil fuels will depend on imports because domestic production will decline. As a result, current import dependency (14% in 2016) is forecast to increase to 49%. As Myanmar's energy supply security will be vulnerable, the following policies are recommended: (i) prioritisation of an energy efficiency and conservation policy,

especially to mitigate electricity consumption mainly in commercial buildings; (ii) focusing on shifting from natural gas power generation to coal, using domestic coal and applying clean coal technology; (iii) promoting an increase in the use of biomass especially in rural areas with an efficient biomass cooking stove; and (iv), pushing the use of hydropower (especially during the rainy season) and solar/PV power (in the dry season), which can complement each other.

7. Study on the Biomass and Coal Co-Combustion in ASEAN (Phase II)

Biomass utilisation is an important issue for ASEAN Member States (AMS), where agriculture and forest industry remain crucial. Most biomass residues are treated as waste and either incinerated or sent to landfill, practices which may cause environmental degradation if continued. This waste, which varies in type, grade, and characteristic, is sufficient in quantity for co-combustion with coal. Biomass is expected to be one of the most promising renewable fuels for CO_2 emission reduction and for rural electrification, which is crucial for rural development. Phase I of the study highlighted the interest of AMS in biomass utilisation and co-combustion to improve renewable energy development and reduce CO_2 emission. Phase II will identify measures AMS may use to facilitate biomass utilisation focusing on co-combustion.

The report was published on 31 March 2021. The study suggests policy measures for AMS to achieve an appropriate biomass mixing rate with coal for co-combustion in power generation – a strategy that will help to abate emissions.

8. Study on Supply and Demand Potential of Hydrogen: Phase 2

Phase 2 of the study focuses on a review of hydrogen demand of fuel-cell vehicles and power generation up to 2040, the cost of hydrogen production, the cost of long-distance transportation of hydrogen, the application of methylcyclohexane and liquefaction technologies, and the search for breakthrough technologies that will reduce the costs of hydrogen production and transportation. Policy Implications: To reduce the cost of hydrogen, ramping up its production is recommended. Breakthrough technologies to reduce hydrogen production and transportation costs are examined through existing demonstration projects.

Throughout fiscal year 2019–2020 ERIA conducted the phase 2 study on hydrogen demand and supply potential in the East Asia Summit (EAS) region. The report was published on 31 December 2020. The study included: a) a review of future hydrogen demand through interviews with experts on fuel cell electric vehicles and hydrogen power generation; b) an introduction to Japan's hydrogen demonstration project being implemented in the southern part of Australia; c) holding workshops to introduce the outcomes of phase 1 and phase 2 of ERIA's hydrogen study; and d) setting up of a EAS hydrogen working group to discuss national hydrogen policies, setting up Japan's hydrogen demonstration projects being implemented in Australia and Brunei Darussalam, and creating a hydrogen supply chain. The phase 2 study also assessed how to reduce hydrogen supply cost through chemical and liquefaction processes. The hydrogen potential phase 2 study highlighted the following results: 1) Hydrogen demand to be used

for gas power generation (mixing hydrogen and gas) will be essential; 2) The cost of liquid hydrogen is expected to fall as much as liquefied natural gas; 3) Raising demand for hydrogen will be key to reducing hydrogen supply cost; and 4) Common understanding of hydrogen as zero carbon energy in future needs to be increased.

9. Temburong Eco Town Study Phase 4: Energy Efficiency Buildings and Clean Electricity Supply

This study focuses on the preparation of energy efficiency guidelines for new commercial buildings, clean electricity supply, and a clean transport system in Temburong Eco Town in Brunei Darussalam. The study emphasises the basic concepts of the Temburong Eco Town Master Plan: living laboratory, living tourism, and carbon neutrality. Main outcomes: Guidelines to build energy-efficient buildings in Temburong district, and advanced smart-grid technologies that support clean electricity supply and clean transport system.

The report published on 5 February 2021 states that Temburong district is famous for its rich nature and has become more attractive because of easy access from Bandar Seri Begawan since completion of the Temburong Bridge. If it is developed into an ecotown or smart city, Temburong will become one of the best examples of an ecotown or smart city in the ASEAN. The research study of the project conducted in 2019–2020 focused on concrete and applicable aspects to support Temburong's ecotown development – (i) preparation of energy efficiency and conservation guidelines for commercial buildings (both new buildings and retrofitting) in Temburong district; (ii) clean electricity supply to Temburong district through applying smart-grid technology; and (iii) a proposal for a smart transport system. An overall road map for the development of an ecotown in Temburong district was also included. ERIA hopes the Ministry of Energy of Brunei Darussalam will initiate development of an ecotown in Temburong District with the collaboration of the Temburong District Development Authority (AKDT) and makes use of this report.

10. The Influence on Energy and Economy by Electrified Vehicles Penetration in ASEAN

ASEAN countries have policies to promote electric vehicles (xEVs). Such vehicles reduce oil consumption and air pollution but increase demand for electricity. However, depending on its power generation sector, a country might not be ready to achieve energy self-sufficiency or solve its environmental problems. Policy Implications: The results of the study will allow ASEAN governments to set their objectives on adopting electric vehicle technologies and to formulate policies to attain those objectives.

The report published on 4 November 2020 stating study analysed the effects of electric vehicle deployment in Indonesia, Malaysia, Thailand, and Viet Nam especially in terms of energy supply and demand, CO_2 emissions, the macroeconomy, and employment. The study points out that introducing electric vehicles into ASEAN countries would fulfil various policy purposes, but their massive deployment might have negative economic side effects. The study presents four recommendations.

First, it is important to decarbonise the power supply along with the penetration of electric vehicles. Second, it is important to estimate the cost-effectiveness of subsidies with respect to the amount of CO_2 reduction. Third, it is important to pay attention to the ripple effects of electric vehicles. The production of battery electric vehicles with a small number of material parts may reduce employment in the automotive industry compared to producing internal combustion engines and hybrid electric vehicles. Promoting e-motorcycles may stimulate job creation if the savings on fuel expenditure can be diverted into other goods and services. Finally, it is important to consider appropriate country-specific pathways to vehicle electrification.

Healthcare Unit

During fiscal year (FY) 2020, ERIA's Healthcare Unit published three books and two research project reports, one of them 'Ageing and Health in Viet Nam', which reports the result of the baseline survey of the Longitudinal Study of Ageing and Health in Viet Nam or LSAHV. To launch this report, ERIA co-organised an ASEAN-wide workshop in Ha Noi in November 2020 to discuss population ageing in the region, together with the Ministry of Health of Viet Nam, the World Health Organization, and the United Nations Population Fund. The next LSAHV survey is scheduled for late 2021 or early 2022, and

is expected to enable longitudinal analyses to detect the cause and effect relationship associated with health expectancy.

Another memorable event handled by the Healthcare Unit was the online session for the announcement of the winners of the first Healthy Ageing Prize for Asian Innovation Award, which was co-organised with the Japan Center for International Exchange and held in July 2020. Three winners were selected from more than 130 applicants from twelve countries by the international advisory committee of this award programme which consists of leading experts on population ageing throughout the region.

The Unit was also involved in collaborative projects with the Indonesian Ministry of National Development Planning or Bappenas. One such project was a phone survey on the impact of COVID-19 on Indonesian older people. The report was published in February 2021. Several webinars were co-organized with Bappenas, the United Nations Population Fund, etc., focusing on population ageing in Indonesia.

The Unit's activities have been focusing on population ageing and long-term care since its launch in 2017, but in response to the new contribution from the Japanese government to promote clinical trials involving multiple countries, in October 2020 the Unit welcomed a new expert who is now dealing with the new project on clinical trials. This project is expected to improve the capacity of clinical trials in the region and to establish a region-wide network organising well-managed multi-national clinical trials for drugs and medical devices.

Environment Unit

Regional Knowledge Centre for Marine Plastic Debris (RKC–MPD)

In recent years, the Southeast Asia region has been one of the biggest contributors of plastic leakage into the oceans. Without effective action this can eventually lead to the degradation of the marine ecosystem and it poses a threat to marine species. To reduce the leakage, the Association of Southeast Asian Nations (ASEAN) has made a bold effort by setting up several regional initiatives, which include the ASEAN+3 Marine Plastic Debris Cooperation Action Initiative and the ASEAN Framework of Action on Marine Debris.

The Regional Knowledge Centre for Marine Plastic Debris (RKC–MPD) was set up inside ERIA on 1 October 2019 to support ASEAN in tackling marine plastic pollution. The centre serves as an information clearinghouse on marine plastic debris in ASEAN+3 countries. It aims to facilitate networking amongst stakeholders, raise awareness, promote innovative actions in each country, and facilitate national and regional cooperation to solve the marine plastic debris issue. As a knowledge centre, the current activity of the RKC–MPD is developing a website (https://rkcmpd-eria.org/), which contains good practices such as legal frameworks, action plans, and voluntary initiatives that have been performed by countries in the ASEAN+3 region to minimise plastic leakage as

well as other related information, such as scientific knowledge about marine plastic pollution. The website has recently also launched a platform to promote efforts by the private sector (https://rkcmpd-eria.org/story), in which companies can showcase their products, services, and technologies that contribute to the reduction of plastic waste and marine plastic debris.

The RKC–MPD has published research on various topics related to plastic waste and marine plastic debris, such as regional waste management, waste management during the pandemic, and plastic bag bans. In the future, the centre plans to expand its research publications to other topics such as extended producer responsibility, impacts of plastic pollution on the marine ecosystem, and a life cycle assessment of plastic.

Agriculture Unit

ERIA's research activities related to the food and agricultural field had been conducted as needed since ERIA's establishment in 2008. Although the contribution of the agricultural sector to overall economic growth is not necessarily large, its importance in the socio-economics of each country remains unchanged especially in the ASEAN region – the food and agriculture sector is a major

source of employment and income for a large proportion of the population, and ensuring food security and food safety is of critical importance for human beings. Given the importance of the food and agriculture sector, the Agriculture Unit was established in 2016 as one of ERIA's Research Departments to intensively and constantly address various emerging topics in the food and agriculture sector. Since its establishment, emerging issues such as the food value chain, the cold chain, and the digitalisation of agriculture were addressed through research works as well as capacity building activities such as knowledge sharing workshops. As its first priority, the Agricultural Unit aims to contribute to the development of policies for the ASEAN food and agriculture sector. Hence, the Agricultural Unit has provided inputs for ASEAN official meetings such as AMAF plus Three and other AMAF related sectoral working group.

In 2020, the Agriculture Unit initiated two research projects: 1) Realisation of higher value added of agricultural products in ASEAN countries through development of an effective cold chain; and 2) Enhancing Food Supply Chain Resilience and Food Security in ASEAN with Utilisation of Digital Technologies. These projects focus on cold chain development and digitalisation of the food value chain in the ASEAN region and continue in 2021. At the meeting of the ASEAN Ministers of Agriculture and Forestry and the Ministers of Agriculture of China, Japan, and the Republic of Korea in October 2020, the President of ERIA reported the outline and progress of projects to the ministers and ERIA's project received appreciation in the Joint Statement of the meeting. The Agricultural Unit will continue its practical research and related activities to support the region's policy development in this field.

Policy Design Department

The COVID-19 Pandemic in 2020 has impacted the economic growth of many countries in the world, including ASEAN. ASEAN Member States (AMS) responded rapidly, with numerous measures and restrictions, well before the outbreak was declared a global pandemic by the World Health Organization (WHO) on 11 March 2020. We saw COVID-19 measures and protocols implemented, including movement restrictions throughout the world, economies slow down, domestic consumption and investment decline, and global and regional supply chains disrupted.

The Policy Design Department (PDD) managed to rise to those challenges by increasing its efforts to contribute to policy research to support AMS and the ASEAN Secretariat. Numerous engagements were conducted with senior officials and middle-level ministry officials in ASEAN and East Asia on related economic issues and policies, such as trade and investment matters; evaluation of the impact of the ASEAN Economic Community (AEC) and ASEAN Trade in Goods Agreement (ATIGA); the Joint Study on 10+3 Cooperation for Improvement of Supply Chain Connectivity (SCC); involvement in the finalisation of the Regional Comprehensive Economic Partnership by providing advice in the negotiations; supporting the work of the ASEAN Trade Facilitation Joint Consultative Committee (ATFJCC) and the Coordinating Committee on

the Implementation of ATIGA (CCA); providing policy advice to the Government of Viet Nam for its ASEAN Chairmanship and the Government of Malaysia for its Asia–Pacific Economic Council (APEC) Chairmanship; and participating in other ad-hoc meetings and discussions in line with PDD's objectives and goals of ensuring greater regional economic integration of ASEAN. PDD had also actively supported and collaborated with multilateral organisations and other stakeholders, such as the ASEAN Secretariat, Organisation of Economic Cooperation and Development (OECD), APEC, and United Nations Conference on Trade and Development (UNCTAD).

At the end of 2020, PDD was able to shift its policy agenda to meet the demands in dealing with and adjusting to the impacts of the COVID-19 pandemic, by putting greater focus on policy-based research in making trade and global value chains more resilient to future shocks and promoting a greater connectivity, i.e. digital economy in ASEAN.

A. The Government of Viet Nam's chairmanship of ASEAN and related meetings for 2020

PDD, together with the Research Department, provided a set of recommendations to support the Government of Viet Nam to strengthen the AEC 2025 Blueprint in four selected areas: (1) Global Value Chains (GVCs); (2) Trade Facilitation; (3) Services Liberalisation; and (4) Internationalisation of Small and Medium-sized Enterprises (SMEs).

These recommendations were drawn from various studies conducted by ERIA, particularly the Study on Impact of ASEAN Economic Integration as the base document. ERIA also undertook a series of stakeholder consultations, which involved focus group discussions (FGDs) and expert group meetings, to discuss critical issues faced during the AEC process, such as changes in global business practices due to the digital revolution and the increased importance of services, and changes in the global economic environment such as the emergence of US protectionism and the tensions in relations between the US and China.

The set of recommendations was provided to the Government of Viet Nam for consideration in its ASEAN Chairmanship 2020.

B. The Government of Brunei Darussalam's Chairmanship of ASEAN and related meetings for 2021

As part of strengthening ASEAN's economic integration efforts, PDD has commenced discussions for the preparation of Brunei Darussalam's Chairmanship of ASEAN. To date, the Government of Brunei Darussalam, through its Ministry of Finance and Economy, has requested PDD to provide research and support on possible initiatives that Brunei Darussalam has envisioned for its ASEAN Chairmanship in 2021. One of the Priority Economic Deliverables for Brunei's Chairmanship this year is the development of a Framework for ASEAN Circular Economy. This is in line with Brunei's vision i.e. 'We Care, We Prepare, We Prosper.' Another deliverable, also supported by ERIA, is the development of the Non-Tariff Measures Cost-Effectiveness Toolkit for ASEAN. With the growing demand for sustainability by consumers and investors, it becomes imperative for ASEAN

to take account of circular economy initiatives in its AEC work stream and take into consideration discussions and work in the ASCC to avoid overlaps and maximise resources.

The Government of Brunei Darussalam, also through its Ministry of Finance and Economy, has also requested ERIA to undertake a study in developing Strategic Masterplan of the Temburong District since December 2020. PDD immediately commenced discussion with the Temburong District Authority (AKDT) in Brunei Darussalam with regard to preparing the Masterplan. The Strategic Masterplan is to be designed to include identification of compatible industries/sectors that can be globally competitive, while remaining compatible and complementary to existing economic activities in the country. The study on 'urban amenities' will also be included into the Strategic Masterplan to further asses at the 'trickle-down' effect that the development of Temburong will bring to the people and the local economy. Business Feasibility Studies for eco-tourism, education, a research centre, an international biodiversity laboratory, as well as the agriculture and fisheries sectors will be conducted to further strengthen the Masterplan.

C. Regional Comprehensive Economic Partnership (RCEP)

Since 2017, PDD has provided support to the RCEP negotiations through committed policy and research inputs for the Chair of the RCEP Trade Negotiating Committee (TNC Chair), Mr Iman Pambagyo, especially in the areas of trade in goods (tariff modality and tariff differentials) and rules of origin (ROO), as well as some key working groups, to address some of the outstanding key issues in the negotiations.

In 2017–2020, PDD supported several rounds of RCEP negotiations until the conclusion of the text-based negotiations and its signature by the Ministers of the RCEP Participating Countries in November 2020. PDD also participated in RCEP 'Speed-Dating' in January 2021, to share information with interested stakeholders on the potential benefits and possible challenges in the implementation of RCEP. PDD will also contribute to possible publication on the understanding of RCEP with the World Trade Institute, Switzerland, and other relevant institutions. PDD will continue to provide policy and research support for the RCEP.

D. Impact of ASEAN Economic Integration

ERIA conducted a study to assess the impact of ASEAN economic integration, which served as an independent input and complement to the mid-term review (MTR) of AEC 2025 conducted by the ASEAN Secretariat. The study's scope encompassed six areas: (1) Trade in Goods (including tariffs and NTMs, ROO, Production Networks, and FDI); (2) Trade Facilitation; (3) Trade in Services; (4) Impact of Welfare; (5) Impact of Employment; and (6) Impact on SMEs. The initial findings of the study were presented at the 38th High Level Taskforce Meeting in July 2020 for update and consideration. The findings of the study are currently being finalised and will be shared with the ASEAN Secretariat.

PDD also participated in the Focus Group Discussion (FGD) on the ASEAN Economic

Community Blueprint 2025 Mid-Term Review on the topic of FGD Session 2: 'Good Regulatory Practice for the 21st Century and Regulatory Cooperation in ASEAN including on Competition Policy, Intellectual Property (IP), and Consumer Protection' virtually on 15 October 2020 organised by the ASEAN Secretariat.

E. General Review of ASEAN Trade in Goods Agreement (ATIGA)

PDD undertook an assessment of the impact of ATIGA on the region since its entry into force in 2010, part of a component of the General Review of the ATIGA, at the request of the Coordinating Committee on the Implementation of ATIGA (CCA). Throughout 2020, PDD presented the progress of the Study (Inception, Interim and Preliminary Reports) to various CCA Meetings and concluded the year with the presentation of the Draft Final Report of the Study at the 34th CCA Meeting on 15 December 2020, containing the findings and recommendations. The Study was completed in February 2021 and submitted to the CCA intersessionally.

F. Public Version of General Review of ASEAN Trade in Goods Agreement (ATIGA)

PDD is preparing a draft public version of the ATIGA report for publication, with the initial draft to be presented to the 35th CCA Meeting in March 2021 for its consideration. The public version of the ATIGA Report will be important in terms of letting the private sector know about ATIGA's impact on and valuable contribution to ASEAN economic integration.

G. The Government of Malaysia's Chairmanship of the Asia–Pacific Economic Cooperation (APEC) in 2020

PDD actively contributed to APEC Malaysia 2020, particularly in developing a vision document for three priority areas: (1) Priority Area I: Changing the Narrative of Trade and Investment; (2) Priority Area II: Inclusive Economic Participation; and (3) Priority Area III: Harnessing Innovative Sustainability.

PDD also participated in various meetings and dialogues with APEC officials and other APEC-supporting bodies, such as developing the concept note and paper for the 45th APEC Human Resource Development Working Group (HRDWG), joining the Multi-Stakeholder Dialogue on Post-2020 Vision (MSD), and attending a Roundtable Discussion with Institute of Malaysian and International Studies (IKMAS) to support the Malaysian Government to develop its APEC Post 2020 Vision.

PDD has been requested by ERIA's Governing Board Member, Dr Allan Bollard, to support New Zealand's Chairmanship of APEC in 2021. The APEC Secretariat has also requested PDD to begin identifying possible policy research such as on the future-of-work, WTO reforms and circular economy, for APEC 2021, which is to be organised virtually in 2021.

H. The Government of Indonesia's chairmanship of the G20 and chairmanship of ASEAN and related meetings in 2023

PDD together with SPD initiated several talks with the Centre for Strategic and International Studies (CSIS) to develop their joint work to meet the requests of relevant ministries in charge of the Government of Indonesia's chairmanship of the G20. Discussions are at a very preliminary stage at this time.

I. ASTFI Baseline Study (Public Version)

Back in 2017, upon a request from the ATF–JCC, PDD developed an ASEAN-specific trade facilitation indicator called the ASEAN Seamless Trade Facilitation Indicators (ASTFI), which surveyed major government agencies in each ASEAN Member State (AMS) to take stock of the implementation status of regional and global trade facilitation initiatives. The Baseline ASTFI report was submitted to ATF–JCC in July 2018 with recommendations for further improvement in the trading environment and reduction in trade transactions cost in the region.

As a follow up and taking into consideration the interest of the private sector in understanding the trade facilitation initiatives in the AMS, ERIA is tasked by the ATF–JCC to create a public version of ASTFI baseline study report with the objective to inform the public about the key trade facilitation initiatives in ASEAN and monitor the trade facilitation progress as reported in ASTFI Baseline study. The public version of the baseline study will be presented to the 20th ATF–JCC meeting, which will take place in May 2021.

J. ASEAN Trade Facilitation Indicators & Trade Transaction Cost (ASTFI–TTC) II

PDD together with Research Department commenced the conduct of the ASTFI–TTC II, a follow-up study of the baseline study (Baseline ASTFI–TTC), which was conducted in 2018. The primary objective of this second phase of the Study was to understand the trade facilitation environment and trade transactions cost in ASEAN in 2020. This study also included the calculation of the updated TTC to measure the reduction in Trade Transaction Cost in ASEAN between 2018 and 2020. Throughout 2020, technical workshop between ERIA, country researchers and AMS's focal points were held to provide an overview of the ASTFI–TTC II project methodology, activities, and timeline, as well as to discuss the questionnaires and the data collection process. With support of the focal points of the ASEAN Trade Facilitation Joint Consultative Committee (ATF–JCC), ASTFI II survey questionnaires were circulated and filled out by government agencies of AMS as part of this undertaking. Socialisation workshops were likewise conducted to assist the AMS in completing the survey questionnaires and other activities of the ASTFI II.

The results of ASTFI–TTC II, along with the results of the Baseline ASTFI–TTC, will be used to keep track of progress in trade facilitation environment in the ASEAN region and measure the change in trade transactions cost in the region.

PDD is on track to completing the final report of ASTFI–TTC II in early 2021 to be submitted to ATF–JCC Meeting in August 2021.

K. Non-confirming measures list under the ASEAN Trade in Services Agreement (ATISA)

PDD, with the support of the CCS–Japan Co-operation Programme, had continued its assistance in providing support to AMS to build the capacity of related government officials to further strengthen their understanding and knowledge in preparing their list of non-confirming measures for their related services sectors. To date, interested AMS that have requested PDD for this capacity building programme are Lao PDR, Indonesia, Malaysia, and Viet Nam. However, due the COVID-19, this capacity programme (in the form of FGDs) had to be postponed until such a date that AMS is comfortable for virtual training. PDD has also been requested to analyse possible Non-Conforming Measures (NCMs) templates to be considered by ASEAN Member States in developing their own schedules of reservations under the ATISA.

L. Study on 'the Potential Utilisation of MRAs in ASEAN and the Regulatory Barriers'

PDD accepted the request of the Coordinating Committee on Services (CCS) during its 95th CCS Meeting in Ho Chi Minh City, Viet Nam held on 5 March 2020, to undertake research on Enhancing the Utilisation of ASEAN Mutual Recognition Arrangements (MRAs) in Facilitating Mobility of Professionals in ASEAN, which identified existing regulatory barriers to mobility of professionals in AMS.

The study investigated the level and method of utilisation of MRAs, which is an important tool to facilitate cross-border trade in professional services in ASEAN. The selected Professional Services on the MRA for this study are: (1) Engineering; (2) Architecture; (3) Surveying; (4) Accountancy; (5) Nursing; (6) Doctors; and (7) Dentists. Part of this study involved direct consultation with the stakeholders of the related professional associations as well as with regulators to discuss issues surrounding the implementation of the MRAs in AMS.

The Interim Report of this Study was completed for the 96th CCS Meeting, which included a comprehensive discussion of the barriers and issues relating to MRAs in AMS and concluded with seven practical recommendations to enhance the flow of professional services in the ASEAN. To date, there have been some challenges in receiving responses and support for the initiatives from the professional bodies of certain services sectors in AMS due to the COVID-19 pandemic. This study has been completed by the end of March 2021.

M. Study on 'the Impact of Fourth Industrial Revolution (4IR) on Services Supply in ASEAN'

Also a result of the CCS request from the 95ths CCS Meeting to ERIA, PDD conducted a study on the Impact of Fourth Industrial Revolution (4IR) on the Evolving Services Trade Landscape and Mobility of Professionals in ASEAN. Its objective was to investigate the impact of IR4.0 on professional service providers in ASEAN and the potential impact on their mobility. This study also undertook a review of the uptake of the IR4.0 in the seven professional services – (1) Engineering; (2) Architecture; (3) Surveying; (4) Accountancy; (5) Nursing; (6) Doctors; and (7) Dentists – at the international level, such

as in Australia, China, the European Union, and the United States.

PDD submitted the Interim Report for this study for the 96th CCS Report, which included the extensive results of the surveys with professional bodies in AMS on the impact of IR4.0. The Interim Report also provided recommendations on adjustment of policies to respond to the evolving services trade landscape in ASEAN. To date, there have been some challenges in receiving responses and support for the initiatives from the professional bodies of certain services sectors in AMS due to the COVID-19 pandemic. This study was completed at the end of March 2021.

N. Follow-up work on the Development of Regulatory Management System (RMS) in ASEAN Member States

On 15 July 2020, PDD and the ASEAN Secretariat held a 'Virtual Forum on Fostering Regulatory Cooperation Through Implementation of Good Regulatory Practices (GRP) Principles in ASEAN: Sharing of Experiences and Best Practices.' This virtual forum was a follow-up work of the Baseline Study Regulatory Management System (RMS) in ASEAN, which was a joint initiative of ERIA and the ASEAN Secretariat undertaken in 2018–2019 for the High Level Taskforce for Economic Integration (HLTF–EI).

The Virtual Forum on RMS was attended by the Focal Points of the Baseline Study on RMS, officials from the ASEAN Secretariat, and as well as six external experts relating to RMS and GRP. While its primary objective was to further utilise the findings and insights on the implementation of RMS in AMS, the virtual forum was also held to share experiences and best practices in the implementation of RMS of selected countries such as Malaysia, Singapore, and New Zealand, and showcase the use of regulatory tools in the RMS framework, such as the Philippines' experience of reducing of red tape and Viet Nam's with its regulatory guillotine. The Virtual Forum concluded with identifying possible next steps and suggest programme and activities for AMS to improve their regulatory practices and contribute to the development of initiatives to foster ASEAN-wide regulatory cooperation. The findings of this study were presented at the 38th High Level Taskforce Meeting in July 2020 for updating and consideration. PDD will continue to support the ASEAN Secretariat with the work of Good Regulatory Practice.

O. Develop 'the Cost-Effectiveness Toolkit for Non-Tariff Measures', in collaboration with UNCTAD

With the support and cooperation of the United Nations Conference on Trade and Development (UNCTAD), PDD, together with the Research Department, developed a framework to review the cost and effectiveness of existing Non-Tariff Measures (NTMs) in ASEAN, through a NTM Toolkit.

The initial draft of the NTM Tool Kit was presented and submitted to the ATFJCC at the various ATFJCC meetings in 2020 and is currently awaiting comments. In December 2020, together with UNCTAD, ERIA held a focus group discussion with the objective of seeking views, inputs, and comments from experts and individuals who have

worked on NTMs, good regulatory practices, and related issues, to further develop and improve the draft NTM Cost-Effectiveness Toolkit. The participants included experts from ERIA, the ASEAN Secretariat, the ATF–JCC Chair, former government officials, think tank experts, and UNCTAD officials. Inputs and recommendations from the group were taken into account in the completion of the draft final version of the NTM Toolkit.

P. Joint Study on ASEAN+3 Connectivity

Based on the outcome of the 21st ASEAN Economic Ministers Plus Three Consultations, ERIA undertook a joint study on ASEAN+3 Connectivity in collaboration with the Chinese Academy of International Trade and Economic Cooperation (CAITEC), and Japanese External Trade Organization (JETRO), and Korea Institute for Foreign Economic Policy (KIEP). The joint study was intended to complement the ongoing trade facilitation initiatives in ASEAN, help improve trade amongst ASEAN Member States, and enhance supply chain connectivity between ASEAN and CJK countries (China, Japan, and Republic of Korea). The Chairman's Statement of the 23rd ASEAN Plus Three Summit in November 2020 recognised the collaborative work of the four research institutes from APT members that would be beneficial to the region, as well as enhancing the ASEAN-Plus Three economic relations.

Q. Virtual Expert Brainstorming on the Fourth Industrial Revolution in ASEAN

PDD, in collaboration with the ASEAN Secretariat, held a two-session Virtual Expert Brainstorming on the Fourth Industrial Revolution in ASEAN on 18 and 20 May 2020. The Virtual Roundtable Discussion had the primary objective of assisting the ASEAN Secretariat in developing a consolidated strategy on the 4IR for ASEAN. The discussion also encompassed brainstorming sessions on current 4IR-related trends, developments, and global best practices related to the following issues: (1) 4IR in Global and ASEAN Context, (2) Cybersecurity and Governance in the age of the 4IR, (3) the Economy of the 4IR, and (4) 4IR for the Society. It was attended by officials from the ASEAN Secretariat, a select group of international 4IR experts, as well as ERIA economists, policy fellows, and other representatives.

R. Support to Stakeholders

ERIA also participated in several workshops and symposiums across Asia and the Pacific, to bring in the stakeholders such as UNCTAD (on NTMs) and UNESCAP (on Investment Facilitation), and bring the partners of ASEAN and East Asia closer, through dissemination of East Asian economic cooperation experience and through demonstrating the value of free trade and economic cooperation. It is expected that the advocacy and research dissemination activities will support policymaking on trade and economic cooperation amongst the stakeholders.

PDD has also contributed to the Senior Economic Official Meetings – East Asia Summit (SEOM–EAS) Consultations and the 8th East Asia Summit (EAS) Ministerial Meetings held during the Fifty-second ASEAN Economic Ministers' Meeting (52nd AEM) and related meetings from 22 to 29 August 2020. ERIA presented a paper titled *'Accelerating Restoration of Economic Growth, Maintaining Market Stability and Strengthening Resilience of the EAS Region Post COVID-19'* and there were requests and directions from the Ministers for ERIA to undertake policy-based research on improving EPCs trade and investment regimes policies including making value chains resilient to shocks, effectively address the impending recession, promote new technologies and develop a framework for EAS regional economic integration and development after overcoming the COVID-19 pandemic, taking into account existing initiatives.

S. Capacity Building

PDD also contributed to capacity building activities for middle-level trade ministry officials in AMS to enable them to participate more effectively in ASEAN+ FTA negotiations and equip them with a greater understanding of trade and investment matters, e.g. ASEAN Trade in Services, Non-Tariff Measures (NTMs), and Regulatory Management System (RMS). PDD is working closely with the Capacity Building unit in developing the necessary training for government officials.

Conclusion

The PDD accomplished substantively in 2020 and early 2021. PDD continued working on specialised areas such as trade facilitation, NTMs, RMS, and discussions with dialogue partners and multilateral organisations. New issues were also covered, including digital economy, human capital development, and sustainability. Numerous requests for collaborative work from governments, multilateral organisations, partners, and stakeholders are testimony to the PDD's growing visibility and influence within and outside Asia. This growth is likely to continue in 2021. There have been requests for potential collaboration, and to ensure effective delivery PDD has worked together with the Research Department and Outreach Department, including the Capacity Building and Communications units, to meet the demands for providing support to governments and related agencies. Similar cooperation and collaboration will continue and there will be more to come in 2021.

Outreach and Dissemination

Outreach and Dissemination

ERIA disseminates the rich findings of its studies to their target audience through seminars and symposia, publications, media relations, social media, the ERIA website, and other communications events. Highlights of ERIA research projects are presented to concerned government officials and key stakeholders in the East Asia Summit region in seminars and symposia. ERIA also publishes these findings and recommendations in the form of books, research project reports, discussion papers, and policy briefs, and they are made available online for wider dissemination. On many occasions, external publishers or academic journals publish books, articles, or papers of ERIA scholars. At the same time, ERIA closely liaises with international and local media, and while maximising use of social media and other communications events, to ensure its studies and other activities are known to stakeholders in the region.

Communications

ERIA's Communications Department aims to raise ERIA's profile and continuously improve contact with our stakeholders including policymakers, academics, and the broader public. By taking the lead in coordinating outreach to media, research organisations, think tanks, the private sector, and the general public, the work of the Communications Department is spread across all research and policy projects. We also work closely with the Strategy and Partnership Programme, Publications Department, and Capacity Building Programme to ensure that their outputs are disseminated to the appropriate audiences.

Providing New Ways for ERIA to Work Remotely

In FY2020, the Communications Department quickly recognised the need for new ways of working remotely and provided the technology and skills to assist everyone at ERIA. All events moved online through rapid deployment of Zoom for events and Teams for meetings. We set up a training programme for assistants so that they could handle online events on their own. We created a scheduling system for meetings and events since we had limited accounts at Zoom. Physical rooms were set up for online events which required new equipment and expertise. We also created backdrops for ERIA panellists and speakers and new formats for Zoom videos so that they could all be posted online. The results were impressive: with online events we saw a substantial increase in attendance from an average of 25–45 people for in-person events to 200 to 300 hundred for online events. In addition, participants represented countries from across the region and beyond, with many people attending from Europe and the United States.

Global Go-To Think Tank Ranking Top 10

ERIA's Director of Communications supported the Global Go To Think Tank Program by participating as a member of the Planning Committees for both the Global Think Tank Summit and Asia Think Tank Summit, as well as the first Women in Think Tanks Forum. This contributed to raising ERIA's profile with the decision makers who ranked ERIA in the top ten Economic Research Think Tanks globally.

Media Relations and Coverage

Media is one of the core channels through which ERIA disseminates its research findings, policy recommendations, and news about ERIA achievements. Our engagement with the media in 2020 included hosting the annual Editor's Roundtable – but virtually. ERIA is in constant contact with the media across ASEAN and East Asia, fielding questions from journalists on a range of issues and responding to their requests for interviews. An understanding of ERIA's research as well as knowledge about politically sensitive topics guides the responses. The Communications Department works with editors to place ERIA op-eds and to distribute press releases.

Some key numbers from 2020 include:

- Media exposure: 347 articles in 118 news outlets including The Straits Times, China Daily, Nikkei Asia Review, and many others.
- Op-eds: 86 op-eds in 27 newspapers including The Bangkok Post, The South China Morning Post, and The Jakarta Post, and many others.

Communications Publications

Event Reports – this is a new category of publication as of 2020 and was developed as part of the ASEAN on Point Public Forums to summarise key policy recommendations from the forums.
'ERIA Frames', our electronic subscription newsletter, was distributed regularly to around 6,700 people. Summary of 2019–2020 Research Projects: Every year the Communications Department produces a compilation of summaries of every ongoing research project.

Website and Social Media

The Communications Department continued to expand its digital outreach in FY2020 by producing content (93 news articles and 33 videos), expanding and updating the current ERIA website, creating new pages to highlight ERIA research on COVID-19 and Ageing in Asia, and generating various promotional campaigns through social media. We continue to offer all of our publications through Google Scholar. Some of our publications are also featured on the Asia Bank Development Institute website 'Think Asia' and the World Economic Forum 'Strategic Intelligence Platform'.

Videos

Videos have become an increasingly important tool to promote specific projects, explain outcomes, and educate people on specific issues. ERIA uses them in social media, on our website, and at events to provide succinct and engaging content that draws people in to ERIA's research and helps them understand key issues and recommendations. In FY2020 we created 33 videos covering COVID-19 Research, AmCham ERIA Survey, as well as multiple videos of webinars and events. We have seen a significant increase in the number of YouTube views resulting from the higher quality videos that we published on the platform.

Communications Department Events

Events are one of the key modes through which ERIA's research and policy recommendations engage key stakeholders. Increasingly, the Communications Department organises and hosts a wide range of roundtables, discussions, and briefings to highlight the work of our experts. In FY2020 we launched a new series of public forums in partnership with the ASEAN Secretariat called 'ASEAN on Point' to address issues of importance to ASEC by providing a platform for public input and engagement. Each event produces a video of the webinar and an event report that includes policy recommendations.

Knowledge Management

For ERIA's research and expertise to be easily accessed a high level of organisation is required so that publications and information are easy to find. To that end, the Communications Department manages the library of ERIA publications as well as publications from outside ERIA which are reference materials for researchers. We also maintain an archive of ERIA events housed in the Information Centre as well as digitally.

Publications

In FY2020, ERIA produced numerous key reports related to the COVID-19 pandemic: www.eria.org/research/topic/covid-19

ERIA also produced eight books on topics such as healthcare, the ageing society, non-tarif measures, Industry 4.0 and Circular Economy, International Regulatory Cooperation, E-Commerce Connectivity and Mekong Sub Region Development; 22 research project reports; 40 discussion papers; and seven policy briefs. Most of ERIA's publications in FY2010 included updates for developments due to the COVID-19 pandemic. The Institute continues to promote and expand its research by publishing with first-rate global publishers.

In FY2020, ERIA co-published three books with **Routledge**:

1. The Effects of Globalisation on Firm and Labour Performance
2. Financial Inclusion in Asia and Beyond – Measurement, Development Gaps, and Economic Consequences
3. Energy Sustainability and Development in ASEAN and East Asia

ERIA also published two books with **Springer**:

1. Asia–Africa Growth Corridor: Development and Cooperation in Indo–Pacific
2. Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters

And with **UNCTAD** it published: Non-Tariff Measures in Australia, China, India, Japan, New Zealand, and the Republic of Korea: Preliminary Findings

Several of ERIA's publications have been translated into foreign languages:

Japanese	East Asian Integration: Goods, Services and Investment (commercial book)
Vietnamese	Ageing and Health in Viet Nam
Indonesian	Older People and Covid-19 in Indonesia

Planning & Coordination

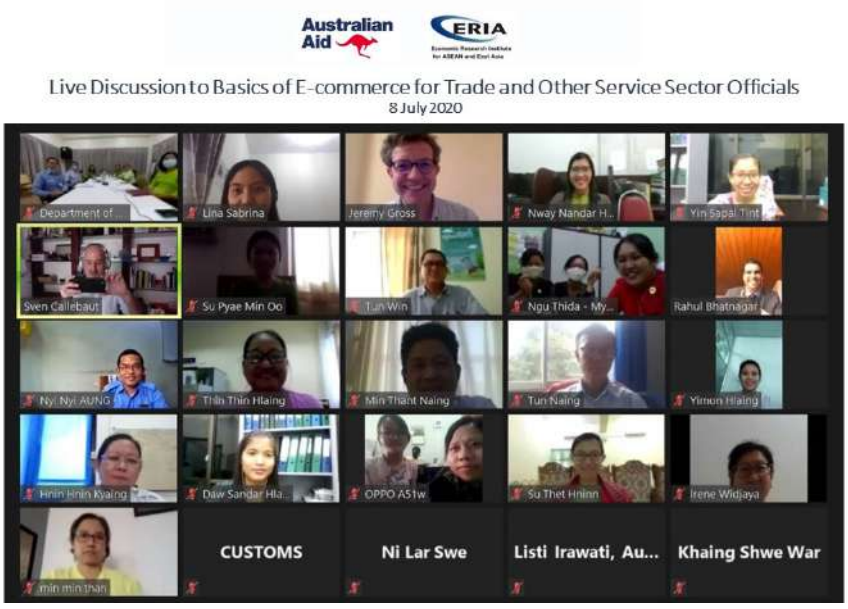
The Planning and Coordination Department's main role is to facilitate ERIA's collaboration with the Governing Board (GB) Members from 16 ERIA Member States, Academic Advisory Council (AAC) Members, and Research Institute Network (RIN) Members, especially in relation to the preparation and implementation of their annual meetings. It is also in charge of organising ERIA's seminars and symposia which aim to (i) contribute to the Chair of ASEAN; (ii) advocate findings for research where ERIA was involved, (iii) seek inputs from academia as requested by senior government officials in the region, and (iv) promote ERIA as an international organisation with a crucial role in East Asian integration.

FY2020 was an unprecedented time where most of the planned outreach events were postponed or cancelled due to the coronavirus outbreak. Facing this situation, significant adjustments were made to the way the Planning and Coordination Department collaborates with ERIA's main stakeholders. This year the department's work focused on ensuring that the communication and collaboration between ERIA and its main stakeholders remain intact.

In previous years, ERIA reports and publications were disseminated to GB members, AAC members, RIN members, and ambassadors of ERIA member states to ASEAN during ERIA's annual events. This year, to keep them updated about ERIA's research and activities, the reports and publications softcopies were distributed via email, while hardcopies were sent via the postal service.

FY2020 marked the first time the Planning and Coordination Department organised the first virtual ERIA GB Meeting, AAC Meeting, and RIN Meeting. Discussion on the impact of COVID-19 on the global economy and ERIA's role amidst the changing situation in the region were held as a part of this year's GB Meeting and AAC Meeting. In the RIN Meeting, the discussion between ERIA and RIN members was focused on ERIA's plan to conduct research on various topics related to COVID-19. The GB, AAC, and RIN meetings were successfully conducted in collaboration with the Communications Department.

Capacity Building Programme



Like every other sector of global society, the Capacity Building Programme (CBP) was hit hard by the onset of the Covid-19 pandemic. At the start of the year, a full schedule of events had been planned, addressing key themes and issues for participating partner countries: Cambodia, Lao PDR, and Myanmar. Activities were again to be organised around three components: 1) ERIA Research; 2) ASEAN Priorities; and 3) Increase Research Capacity, as successfully rolled out in the previous year.

In the preceding year, a key achievement of the CBP was a pivot away from holding joint activities for officials from all three countries to organising workshops and trainings in-country for each country. This allowed us to reach out to a far greater number of officials. However, with the onset of Covid-19, all travel, along with face-to-face workshops, ceased.

Thus, in a short time, the Capacity Building Programme had to rise to two challenges. The first was how to reach out to government officials in a time when travel had ceased; the second was to draw up a new list of activities that were implementable and responsive to emerging needs,

notably, supporting governments to address Covid-19.

As the year progressed, the CBP had to continue to adapt, taking into account additional changes in the regional environment. The first was ASEAN's response to the Covid-19 pandemic – the ASEAN Comprehensive Recovery Framework (ACRF). The second, in November 2020, was the signing of the Regional Comprehensive Economic Partnership (RCEP). Taken together, these entailed making sure the CBP could gear up to the new challenge of being responsive to the ACRF and RCEP for the future, whilst still dealing with the practical problems of moving activities on-line.

By the end of the year, the CBP was pleased to have been able to facilitate a total of seven discrete activities for the three participating countries, resulting in a total of 26 online learning sessions. This allowed the Capacity Building Programme, funded through a grant from the Australian Government, to reach out to 147 government officials, of whom 66 were men and 81 were women.

Component 1: Participation in Research

Due to the Covid-19 pandemic, the schedule for holding technical workshops for ERIA research was much delayed. By the end of the year, only one meeting for each of the ERIA studies had been held. However, ERIA also enabled government officials who had participated in ERIA's 'Advancing Disaster Resilience and Climate Change Adaption' study to observe and contribute to an ASEAN Secretariat organised meeting. One-off webinar workshops were also held in Cambodia and Lao PDR as a spin-off from the 'Cities, Urban Amenities' study.

Although fewer activities took place than originally anticipated, integrating government officials into research studies alongside national and international academics continues to be beneficial for officials, to help them gain a strong understanding of the complexity of issues, exchange data, promote a policy focus to studies, and network with peers from the region and beyond.

1) Cities, Urban Amenities, and Global Production Value Chain: New Developments in Trade and Service Liberalisation in East Asia and ASEAN
   This research looks at the relationship between the growth of cities, trade, and global production value chains – key to understanding how cities can become the focal point for trade, investment, and the services liberalisation required to support it.

2) Services, Economic Liberalisation, and Global Production Value-Chain: Managing the Second and Third Stage Unbundling in East Asia
   Through the CBP, six government officials from Cambodia, Lao PDR, and Myanmar observed the technical workshop for this study before a CB session was held just for the government officials. In the CB session held following the study workshop, key issues concerning the economic effects of unbundling of GVC, and the 2nd and 3rd stage unbundling on competitiveness and its likely effects on the global production value-chain in East Asia and ASEAN, were discussed.

3) Enhancing Food Supply Chain Resilience and Food Security in ASEAN with Utilisation of Digital Technology and Innovations

Long-standing ERIA CB partners were able to observe and participate in the discussions for this workshop, organised by the ASEAN Secretariat. They were particularly pleased to share how the workshop had contributed to their understanding of investment levels for digital agriculture and setting up platforms and mechanisms for new farming technologies, and how to incorporate concepts of digital technology into existing strategic plans.

4) Services, Urban Amenities, and Global Value Chains: New Growth Paths

These webinars, an offshoot of the Cities, Urban Amenities study (above) allowed a large number of government officials from Cambodia and Lao PDR to benefit from initial learnings from this study and focus on key policy and institutional gaps in the structural transformation of their domestic economies to position and maintain competitiveness in the dynamic GVCs.

Component 2: ASEAN Priorities

1) Workshops on E-Commerce

Two on-line courses were held, first for Myanmar and then Cambodia. The courses covered many aspects of e-commerce, from legal and regulatory aspects for domestic trade, cross-border regulations, women in e-commerce, trade logistics, and facilitation and E-commerce in national and regional development plans.

2) Regulatory Stock Take for E-Commerce

As the region prepares to implement comments under RCEP, a regulatory stock take in support of e-commerce provisions got underway in Cambodia and Lao PDR.

Component 3: Increase Research Capacity

All planned face-to-face policy modelling courses had to be postponed due to the difficulty of making multi-day, interactive courses on-line. Instead, the focus was strategies for addressing Covid-19.

1) Pandemic Policy, Trade, and Economic Cooperation

Consisting of two webinars for each of Cambodia, Lao PDR, and Myanmar, the webinars focused on the economic and social effects of the pandemic, such as disruptions in production and the services sector, with discussions held around health and economic policies for better outcomes and the importance of regional cooperation through the ASEAN Pandemic Task Force to oversee and coordinate policy responses across ASEAN.

Strategy and Partnership Programmes

During the Covid-19 pandemic, the Strategy and Partnership Programme (SPP), funded by Australia, redesigned originally planned activities to adapt to the new context. It developed online activities and knowledge products (papers, videos, and op-eds) linked to several areas of work of ERIA. It developed ERIA's first webinar series on ASEAN MSMEs, it launched a new stream of work on the economic empowerment of women and the participation of women in the digital economy in ASEAN, and contributed to developing and strengthening connections and partnerships with relevant regional and global economic development organisations. SPP works closely with colleagues in the Communication team, PDD, Research department, and Capacity Building.

A. Policy Dialogues in collaboration with ASEAN stakeholders

The SPP supported a number of policy dialogues and research initiatives to support ASEAN stakeholders:

- At the request of the ASEAN Secretariat, SPP (with support from PDD colleagues) together with ASEAN Secretariat colleagues organised a virtual expert brainstorming meeting on the Fourth Industrial Revolution in May and June 2020. This virtual brainstorming exercise gathered several stakeholders such as Asian Development Bank, DFAT Australia, the European Commission, OECD, UNESCAP, World Economic Forum, and business sectors representatives.
- In October 2020, at the request of the ASEAN Secretariat, SPP and the ASEAN Secretariat jointly organised the ASEAN–ERIA Dialogue on Digital Trade. This dialogue was organised for AMS officials to advance policy initiatives and measures to promote e-commerce as a way to revitalise the economy during the pandemic crisis, especially after the ASEAN Agreement on E-commerce entered into force at the end of 2020. This policy dialogue was attended by officials from ASEAN Sectoral Bodies including the ASEAN Coordinating Committee on E-commerce under the Chairmanship of Viet Nam, the Digital Trade Standard and Conformity Working Group (DTSCWG) under the ASEAN Coordinating Committee on Standards and Quality (ACCSQ), the ASEAN Coordinating Committee on Micro, Small, and Medium Enterprises (ACCMSME), and the ASEAN Digital Senior Officials' Meeting (ADGSOM).

B. Webinar series: ASEAN MSMEs in a Covid-19 World

The disruptive effect of the Covid-19 pandemic hit MSMEs across ASEAN hard. To provide a platform for discussion on this topic, SPP developed a webinar series titled 'ASEAN MSMEs in a COVID-19 World' which consisted of 10 episodes to discuss the key issues, challenges, and opportunities for ASEAN MSMEs during the pandemic and to build back better during the post-pandemic recovery. The webinar series was conducted from June to December 2020. It discussed several key themes

related to ERIA's research activities including trade and GVCs, e-commerce, the digital economy, financial inclusion, innovation, economic empowerment of women, and sustainable development. Bringing together a diverse group of stakeholders including entrepreneurs, policymakers, academics, and experts from the region, the webinar series attracted more than 1,300 participants across ASEAN and East Asia (and beyond). Speakers included 21 entrepreneurs from all 10 AMS, speakers from regional and international organisations (including the ASEAN Secretariat, OECD, World Economic Forum, ILO, UNDP, UNESCAP, APEC, and CSIRO, Australia), academics, and ERIA economists and experts.

SPP produced two reports and a video summarising the main findings and take-away messages from the series. These reports detail how to develop a more inclusive and sustainable entrepreneurship ecosystem during the post-pandemic economic recovery in ASEAN. The reports and the video recordings of the webinar series have been acknowledged and covered by the ASEAN Secretariat social media accounts and featured in several AMS' local and English language newspapers.

C. The Economic Consequences of Covid-19

SPP contributed to developing and strengthening partnerships and strategic outreach with key stakeholders including ERIA Governing Board Members and senior economic officials. For example, the programme organised economic policy dialogues to discuss efforts and policy initiatives to revitalise national and regional economic development during and after the pandemic. Examples include:

- A webinar with ERIA Governing Board Members including Mr Adrian S. Cristobal, Amb. Barry Desker, and Dr Tran Thi Hong Minh to discuss the Economic Impact of COVID-19 in ASEAN were held in August 2020.
- A webinar jointly organised in September 2020 with the AustCham ASEAN to discuss the findings of a survey they carried out in the region. H.E. Amb. Will Nankervis, the Australian Ambassador to ASEAN, gave the keynote speech at the event.
- A policy dialogue to discuss trade integration and the post-pandemic recovery organised in cooperation with the New Zealand Mission to ASEAN was conducted in October 2020. The dialogue was led by Dr Alan Bollard and opened by His Excellency the Secretary-General of ASEAN, Dato Lim Jock Hoi.

D. Economic empowerment of women and their participation in the digital economy

Narrowing the gender digital divide is crucial to promote more inclusive digital economies and societies. SPP produced data analysis, a policy brief, a discussion paper, two op-eds, and a video on this issue. One of the op-eds and the video were used to mark international women's day 2021 and the policy brief and the discussion paper were featured on the World Economic Forum intelligence platform website and local newspapers across ASEAN.

Additional activities around the theme of economic empowerment of women include:

- Two of the episodes of the MSMEs webinar series were also dedicated to fostering women in entrepreneurship and STEM.
- SPP was invited to give policy advice during a brainstorming session to discuss women entrepreneurs and women in the digital transformation organised by the Mission of Canada to ASEAN.
- Participation in the UNCTAD meeting on women in e-commerce in October 2020.
- SPP engaged with the Capacity Building Programme in one of the e-workshops for government officials in Cambodia and Myanmar in December 2020.

E. Collaboration with other International Organisations

SPP contributes to strengthening ERIA relationships with international organisations such as the Asia–Pacific Economic Co-operation (APEC), the Organisation for Economic Cooperation and Development (OECD), the United Nations Conference on Trade and Development (UNCTAD), the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), and the World Economic Forum (WEF).

Examples include:

- ERIA participated in the OECD Digital 4 SME roundtable, of which it is now a regular participant. The last OECD Roundtable was opened by the OECD Secretary General Mr Angel Gurria and chaired by Minister Hon Stuart Nash of New Zealand, Minister for Economic and Regional Development, Forestry, Small Business and Tourism, and Chair of the OECD Digital for SMEs Initiative.
- In partnership with OECD, SPP organised a policy dialogue to discuss the perspective of urbanisation trends across Asia in November 2020.
- A number of meetings were held with the APEC Secretariat to discuss possible synergies and potential future collaborations.
- The involvement of several UN agencies (UNESCAP, UNDP, and ILO), World Economic Forum, and APEC in the ASEAN MSMES in a COVID-19 World webinar series, which is leading to potential new collaborations during 2021.
- An online dialogue to support ERIA's work on Non-Tariff Measures organised jointly with UNCTAD. SPP has been in contact with UNCTAD regarding work related to economic empowerment of women, as mentioned above.

Annexes

Annex A

Governing Board (as of 20 July 2021)

The Governing Board is the decision-making body of ERIA and consists of the Secretary General of ASEAN and representatives from each of the 16 member countries, all of whom have backgrounds in academia, business, and policymaking.

ASEAN	Dato Paduka Lim Jock Hoi	Secretary-General of ASEAN
Australia	Mr James Baxter	First Assistant Secretary, Office of Trade Negotiations, Department of Foreign Affairs and Trade
Brunei Darussalam	Mrs. Hajah Mariah Haji Yahya	Director General of Department of Economic Planning and Statistics, Ministry of Finance and Economy
Cambodia	H.E. Ros Seilava	Secretary of State, Ministry of Economy and Finance of Cambodia; Member of Supreme National Economic Council (SNEC)
China	Prof Ye Hailin	Vice Dean of National Institute of International Strategy, Chinese Academy of Social Sciences
India	Mr Rohan Shah	Practising Counsel in Supreme Court and Bombay High Court
Indonesia	Dr Yose Rizal Damuri	Head of Department of Economics, Centre for Strategic and International Studies (CSIS)
Japan	Mr Sadayuki Sakakibara	Executive Advisor to the Ministry of Economy, Trade, and Industry; Former Chairman of Nippon Keidanren (Japan Business Federation)
Korea	Mr Tae-Shin Kwon	Vice Chairman and CEO, the Federation of Korean Industries (FKI)

Lao PDR	Dr Leeber Leebouapao	Chairman of the Planning, Finance, and Audit Committee, National Assembly of Lao PDR
Malaysia	Mr Lokman Hakim Bin Ali	Secretary-General of International Trade and Industry of Malaysia
Myanmar	H.E. Mr. Than Aung Kyaw	Deputy Minister for Investment and Foreign Economic Relations Ministry of Investment and Foreign Economic Relations of Myanmar
New Zealand	Dr Alan Bollard	Professor of Practice at the Victoria Business School, Former Executive Director of the APEC Secretariat, Former Governor of the Reserve Bank of New Zealand
Philippines	Dr. Cielito F. Habito	Professor of Economics at the Ateneo de Manila University
Singapore	Ambassador Barry Desker	Distinguished Fellow, S. Rajaratnam School of International Studies, Nanyang Technological University
Thailand	Dr Sansern Samalapa	Vice Minister for Commerce of Thailand
Viet Nam	Dr Tran Thi Hong Minh	President, Central Institute for Economic Management (CIEM)

Annex B

Academic Advisory Council (as of 20 July 2021)

The Academic Advisory Council is composed of internationally renowned East Asia Summit countries' scholars and experts from universities, research institutions, the private sector, international organisations and non-governmental organisations.

The council provides advice and support to the Office of the President on:

- Advice on the annual work program plan;
- Review and evaluation of the research outcome; and
- Review and evaluation of the performance of researchers.

Prof Dr Peter Drysdale	Emeritus Professor Crawford School of Public Policy, Australian National University
Mr Pravin Kumar Agarwal	Director of The Energy and Resource Institute, India
Prof Kyoji Fukao	President of The Institute of Developing Economies (IDE) JETRO, Japan
Dr Shankaran Nambiar	Senior Research Fellow and Head, Policy Studies Division, Malaysian Institute of Economic Research, Malaysia
Dr Hank Lim Giok-Hay (Chairman)	Senior Research Fellow of SIIA, Singapore
Prof Gary Richard Hawke	Emeritus Professor, Victoria University of Wellington, and Senior Fellow, NZ Institute of Economic Research, New Zealand
Prof Zhang Yuyan	Director, Professor, Institute of World Economics & Politics, Chinese Academy of Social Sciences (CASS), China

Annex C

Research Institutes Network

The Research Institutes Network (RIN) consists of research institutes from 16 East Asia Summit countries. ERIA requests the continued cooperation from RIN in the following areas:

- Support ERIA's research activities by providing ERIA with country information and research findings from individual countries, and by giving advice on ERIA's research themes and policy recommendations;
- Encourage the dissemination of ERIA's research outcomes to policymakers and political leaders who implement policies, as well as to opinion leaders in countries;
- Support ERIA's capacity building programs; and
- While ERIA will seek the best available talent for its research activities, it will look especially for participation from among RIN members.

Australia	Australian National University (ANU) anu.edu.au
Brunei Darussalam	Brunei Darussalam Institute of Policy & Strategic Studies (BDIPSS)
Cambodia	Cambodian Institute for Cooperation and Peace (CICP)
China	Chinese Academy of Social Sciences (CASS)
India	Research and Information System for Developing Countries (RIS)
Indonesia	Centre for Strategic and International Studies (CSIS)
Japan	Institute of Developing Economies (IDE-JETRO)
Korea	Korea Institute for International Economic Policy (KIEP)

Lao PDR	National Institute of Economic Research (NIER)
Malaysia	Institute Strategic International Studies (ISIS) Malaysia
Myanmar	Yangon University of Economics (YUE)
New Zealand	New Zealand Institute of Economic Research (NZIER)
Philippines	Philippine Institute for Development Studies (PIDS)
Singapore	Singapore Institute of International Affairs (SIIA)
Thailand	Thailand Development Research Institute (TDRI)
Viet Nam	Central Institute for Economic Management (CIEM)

Annex D

Energy Research Institute Network

The Energy Research Institutes Network (ERIN) consists of research institutes from 16 East Asia Summit countries. ERIA requests the ERIN to:

- Support ERIA's energy research activities by providing country information and research findings from individual countries and giving advice on energy research themes and policy recommendations.
- Encourage the dissemination of ERIA's energy research outcomes to policymakers and political leaders who shall implement policies as well as to opinion leaders in member countries.
- Support ERIA's capacity building programme.
- Participate in ERIA energy research activities.

Brunei Darussalam	Universiti Brunei Darussalam (UBD)
Cambodia	Ministry of Mines and Energy
Indonesia	Indonesian Institute for Energy Economics (IIEE)
Lao PDR	National University of Laos (NUOL)
Malaysia	Universiti Tenaga Nasional (UNITEN)
Myanmar	Ministry of Electricity and Energy
Philippines	University of the Philippines Diliman (UP)

Singapore	Energy Research Institute (ERI), Nanyang Technological University (NTU)
Thailand	Energy Research Institute (ERI), Chulalongkorn University (CU)e
Viet Nam	Institute of Energy (IE), Ministry of Industry and Trade (MOIT)
Australia	Australian National University (ANU)
China	Centre for Energy and Environment Policy Research (CEEP), Beijing Institute of Technology (BIT)
India	The Energy and Resources Institute (TERI)
Japan	The Institute of Energy Economics, Japan (IEEJ)
New Zealand	The University of Auckland (UoA)
Republic of Korea	Seoul National University (SNU)
United States	The National Bureau of Asian Research (NBR)
Mongolia	Energy Economics Institute (MEEI), Ministry of Energy (MOE)

Annex E

ERIA Officials, Researchers, Associates, and Staff

OFFICE OF PRESIDENT

Hidetoshi Nishimura

President

Anita Prakash

Senior Policy Advisor (IEC)

Fusanori Iwasaki

Executive Assistant to the President

EXPERTS

Fukunari Kimura

Chief Economist

Shujiro Urata

Senior Research Advisor to the President of ERIA

Jun Arima

Senior Policy Fellow for Energy and Environment

Shigeru Kimura

Special Advisor on Energy Affairs

EXPERTS

Osuke Komazawa

Special Advisor on Healthcare & Long Term Care Policy

Antonio Fredelindo Dela Resma Villanueva

Senior Advisor for Healthcare Policy

Lili Yan Ing

Lead Advisor (Southeast Asia Region)

Dionisius A. Narjoko

Senior Economist

Fauziah Zen

Senior Economist

Venkatachalam Anbumozhi

Director of Research Strategy and Innovation

Han Phoumin

Senior Energy Economist

Lurong Chen

Senior Economist

Ikumo Isono

Senior Economist

Doan Thi Thanh Ha

Economist

Rashesh Shrestha

Economist

Keita Oikawa

Economist

Alloysius Joko Purwanto

Energy Economist

Kensuke Ueda

Senior Policy Advisor, Energy

Michikazu Kojima

Research Fellow

EXPERTS

Masahito Ambashi

Research Fellow

Takuya Fujita

Senior Policy Advisor, EAIC

Aladdin D. Rillo

Senior Economic Advisor

Masanori Kozono

Policy Fellow, Agriculture

Salvador Buban

Policy Fellow

Intan Murnira Ramli

Policy Fellow

Tran Dong Phuong

Senior Policy Advisor

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Annex F

Summit Statements in FY2020

THE 14th EAST ASIA SUMMIT ENERGY MINISTERS MEETING

20 November, 2020

JOINT MINISTERIAL STATEMENT OF THE 14 th EAST ASIA SUMMIT ENERGY MINISTERS MEETING,

Energy Sector Response to the Pandemic and Contributions to Sustainable Recovery

2. Recognising that the energy sector of the EAS region has been and will continue to be significantly affected by the COVID-19 pandemic, both in the short and medium term, a special session to discuss the energy sector's response to the pandemic and contributions to sustainable recovery was held among the EAS energy ministers and international organisations, including the International Energy Agency (IEA), the International Renewable Energy Agency (IRENA) and the Economic Research Institute for ASEAN and East Asia (ERIA). ▪ ▪ ▪ ▪ ▪ ▪ .

5. In the Energy Efficiency and Conservation (EE&C) Work Stream, the Ministers noted the progress of activities implemented under the initiatives on distributed energy systems (DES), energy savings potential, and roadmap formulation to promote energy efficiency (EE) technologies for EAS participating countries. In particular, the Ministers noted the successful conduct by Japan of the third round of energy audits at Tablas Island, Philippines, which showcased DES as an important policy option to respond to the increasing availability of small power generation and intelligent grid technologies. **The Ministers also noted the release of the EAS Energy Outlook 2019/2020 prepared by the ERIA, which also covers analysis on necessary energy investment up to 2050. ▪ ▪ ▪ ▪ ▪ ▪** .

Promotion of Innovative Technologies and Low Carbon Society

12. On the initiative to promote carbon capture, utilisation and storage (CCUS) and carbon recycling, the Ministers noted the importance of CCUS and carbon recycling in supporting the goals of decarbonisation, recovery and economic growth. **The Ministers welcomed the cooperation initiative led by Japan and ERIA to establish the "Asia CCUS Network", which is expected to realise the partnership that would help implement knowledge and experience sharing and research activities in the EAS region.**

14. The Ministers noted the progress of implementation of the rolling 3-year Roadmap on EAS Mid-Term Energy Policy Research for 2019-2021 and appreciated the contributions of ERIA towards energy policy research activities under the EAS energy cooperation platform. They welcomed the successful convening of the 3rd East Asia Energy Forum (EAEF 3) focusing on CCUS on 17 November 2020 organised by ERIA and Viet Nam and noted the "Reflections from the 3rd East Asia Energy Forum (EAEF3)".

THE 15TH EAST ASIA SUMMIT

20 November, 2020

CHAIRMAN'S STATEMENT OF THE 15TH EAST ASIA SUMMIT

Environment and Energy

9. We welcomed the progress made in EAS energy cooperation, including the successful conduct of distributed energy system audits in select ASEAN Member States led by Japan, the ongoing feasibility study on wind power with energy storage systems in select ASEAN countries led by the Republic of Korea, and the evaluation of carbon emission reduction through mobility electrification and introduction of alternative biofuels led by the Economic Research Institute for ASEAN and East Asia (ERIA). We noted the expanded EAS initiatives on promotion of natural gas, hydrogen and carbon recycling, and carbon capture, utilisation and storage (CCUS) and looked forward to the initiatives contributing to energy transitions in the region. We welcomed the contribution of ERIA to the implementation of the EAS Mid-Term Energy Policy Research Roadmap for the 3 ECTF work streams. We welcomed the successful convening of the 3rd East Asia Energy Forum (EAEF 3) focusing on CCUS on 9 November 2020 organized by ERIA and Vietnam, and the EAS New Energy Forum held on 24th September 2020 organized by China. We encouraged ERIA to continue high quality policy-based research and pragmatic recommendations reflecting the regional energy situation after COVID-19.

ASEAN Connectivity

24. We welcomed the successful convening of the ACCC Consultations with Dialogue Partners and Other External Partners on Connectivity and 11th ASEAN Connectivity Symposium on Enhancing ASEAN Cohesiveness, Responsiveness through Resilient Connectivity and Human Capital Development, with support from the ERIA, on 26 August 2020 and 28 August 2020, respectively.

Economic Cooperation and Trade

27. We commended ERIA for its continued research and analysis on key regional economic issues that support economic integration and the digital economy in the region. We welcomed the report of the 13th ERIA Governing Board Meeting held on 16 October 2020. We encouraged ERIA to continue providing support to the Chair of the ASEAN Summit and the East Asia Summit by undertaking high-quality policy-based research, especially those that will help the EAS region respond well to the after-effects of COVID-19 pandemic. We welcomed and encouraged further efforts to support the ASEAN Smart Cities Network (ASCN) in building a network of smart cities that are resilient, innovative and well-connected, in line with the 2018 EAS Leaders' Statement on ASEAN Smart Cities.

THE 23rd ASEAN PLUS THREE SUMMIT

14 November, 2020

CHAIRMAN'S STATEMENT OF THE 23rd ASEAN PLUS THREE SUMMIT,

Review and Future Direction of APT Cooperation

8. We emphasised the need to strengthen APT collaboration in advancing the region's recovery from the adverse socio-economic effects of the pandemic. In this regard, we welcomed the ASEAN Plus Three Plan of Action (APT POA) on Mitigating the Economic Impact of the COVID-19 Pandemic which was endorsed at the 23rd AEM Plus Three Consultations on 28 August 2020, to implement ASEAN Plus Three Economic Ministers' Joint Statement on Mitigating the Economic Impact of the COVID-19 Pandemic adopted on 4 June 2020). We looked forward to the effective implementation of the APT POA which would bring about collaboration and coordination between ASEAN and the Plus Three countries, as well as prepare the region for future emergency situations, and achieve post pandemic economic recovery. **We recognised the collaborative work of the four research institutes from APT members (CAITEC, JETRO, KIEP and ERIA) in completing the Final Joint Study on "10+3 Cooperation for Improvement of Supply Chain Connectivity" that would benefit the region and enhance ASEAN-Plus Three economic relations. In addition, we adopted the APT Leaders' Statement on Strengthening APT Cooperation for Final Economic and Financial Resilience in the face of Emerging Challenges to realise the commitment of the APT countries to cooperate and collaborate on overcoming the challenges brought about by COVID-19.**

Review and Future Direction of APT Cooperation

21. We noted the successful convening of the ASEAN Connectivity Coordinating Committee (ACCC) Consultations with Dialogue Partners and Other External Partners on Connectivity and the 11th ASEAN Connectivity Symposium on Enhancing ASEAN Cohesiveness, Responsiveness through Resilient Connectivity and Human Capital Development, with support from the Economic Research Institute for ASEAN and East Asia (ERIA), on 26 August 2020 and 28 August 2020, respectively.

THE 23rd ASEAN-JAPAN SUMMIT

12 November, 2020

CHAIRMAN'S STATEMENT OF THE 23rd ASEAN-JAPAN SUMMIT

15. ▪▪▪▪▪▪. We welcomed the support of the Economic Research Institute for ASEAN and East Asia (ERIA) in promoting our close economic partnership and Japan's contribution to the Institute.

17. We welcomed the successful convening of the ASEAN Connectivity Coordinating Committee (ACCC) Consultations with Dialogue Partners and Other External Partners on Connectivity and the 11th ASEAN Connectivity Symposium on Enhancing ASEAN Cohesiveness, Responsiveness through Resilient Connectivity and Human Capital Development, with support from the Economic Research Institute for ASEAN and East Asia (ERIA), on 26 August 2020 and 28 August 2020, respectively.

22. ▪▪▪▪▪▪. We welcomed the progress in the implementation of the ASEAN-Japan Environmental Cooperation Initiative which aims to promote cooperation in various areas of environmental protection including environmental education, sustainable cities, water resources management, chemicals and waste management, biodiversity through the ASEAN Centre for Biodiversity (ACB), and climate change, particularly through the new ASEAN-Japan Climate Change Action Agenda. ASEAN Leaders expressed appreciation for Japan's continued support for an environmentally-sustainable ASEAN through the ASEAN Japan Dialogue on Environmental Cooperation (AJDEC), the first ASEAN-Japan Ministerial Dialogue on Environmental Cooperation (AJMDEC), and for Japan's commitment to strengthening its cooperation with ASEAN in addressing the issue of climate change through Japan's support for the ongoing development of ASEAN State of Climate Change Report, and combating marine plastic debris through the ASEAN Plus Three Marine Plastics Debris Cooperative Action Initiative, which includes the establishment of the Regional Knowledge Centre for Marine Plastic Debris at the ERIA.

THE 17th ASEAN-INDIA SUMMIT
12 November, 2020

CHAIRMAN'S STATEMENT OF THE 17TH ASEAN-INDIA SUMMIT

9. We emphasised the importance of strengthening ASEAN-India connectivity cooperation to advance the implementation of the Master Plan on ASEAN Connectivity (MPAC) 2025 as well as exploring synergies between the MPAC 2025 and India's connectivity strategies under India's Act East Policy through "Connecting the Connectivities" approach. We looked forward to concrete cooperation in sustainable infrastructure, including through capacity building activities and enhancement of investment and business environments. **We noted the completion of the study by the Economic Research Institute for ASEAN and East Asia (ERIA) commissioned by India on "The India–Myanmar–Thailand Trilateral Highway and Its Possible Eastward Extension to Lao PDR, Cambodia, and Viet Nam: Challenges and Opportunities".** We looked forward to timely completion of the India-Thailand-Myanmar Trilateral Highway as well as the commencement of the development of its extension to Lao PDR, Cambodia, and Viet Nam.

THE 37th ASEAN SUMMIT
12 November, 2020

CHAIRMAN'S STATEMENT OF THE 37TH ASEAN SUMMIT

Sub-Regional Development

32. We commended the Economic Research Institute for ASEAN and East Asia (ERIA) for publishing the "Sub-regional development strategy in ASEAN after COVID-19: inclusiveness and sustainability in the Mekong subregion (MEKONG 2030) report" which provides insights with regard to ASEAN's sub regional development and its role in ASEAN Community building.

ASEAN Economic Community

64. We acknowledged the significant contribution of ASEAN's Dialogue and Development Partners in ASEAN's market integration efforts through the technical assistance and capacity-building programs they have established and implemented in ASEAN. **We expressed our appreciation to the Economic Research Institute for ASEAN and East Asia (ERIA) for its support to ASEAN economic integration through studies that aim to contribute to upgrading the ASEAN Trade in Goods Agreement (ATIGA) – which is being undertaken also in collaboration with ARISE PLUS, addressing the non-tariff measures in the region, facilitating trade through the follow-up study on the ASEAN Seamless Trade Facilitation Indicators-Trade**

Transaction Cost (ASTFI-TTC), enhancing the utilisation of the ASEAN Mutual Recognition Agreements (MRAs), addressing issues in facilitating mobility of ASEAN professionals that includes a study on the impact of the 4IR in ASEAN professional services, and promoting good regulatory practice in the region.

THE 20th ASEAN MINISTERS ON AGRICULTURE AND FORESTRY (AMAF) PLUS THREE

21 October, 2020

JOINT PRESS STATEMENT OF THE 20TH OF AMAF PLUS THREE

8. We appreciated the progress of the Research Project on Cold Chain Development and Application of Digital Technologies to FVC, towards Higher Value Added of ASEAN Agriproducts that the Economic Research Institute for ASEAN and East Asia (ERIA) is implementing, and noted the utilisation of digital technology is one of the important cooperation areas for further development of the food value chain in ASEAN.

PROGRESS REPORT ON THE IMPLEMENTATION OF THE MANILA PLAN OF ACTION

9 September, 2020

PROGRESS REPORT ON THE IMPLEMENTATION OF THE MANILA PLAN OF ACTION TO ADVANCE THE PHNOM PENH DECLARATION ON EAS DEVELOPMENT INITIATIVE (2018-2022)

ENVIRONMENT AND ENERGY COOPERATION

2. Progress has been made in energy cooperation through the implementation of the EAS Energy Cooperation Task Force (EAS ECTF) three Work Streams and the EAS Mid-Term Energy Policy Research Roadmap, including the research supported by Economic Research Institute for ASEAN and East Asia (ERIA) for the three EAS ECTF Work Streams and the work conducted in response to particular needs of the EAS participating countries for economic analysis. The work supporting ECTF work streams include (i) energy outlook and savings potential, (ii) evaluation of carbon emissions reduction through mobility electrification, (iii) introduction of alternative biofuels, (iv) hydrogen and liquefied natural gas (LNG) demand potential, and (v) investment in LNG logistics infrastructure. The 13th EAS Energy Ministers' Meeting (EMM) on 5 September 2019 in Bangkok noted the expanded range of fuels and technologies covered in the current regional initiatives and appreciated the ongoing and new initiatives which include energy efficiency technologies, distributed energy systems, next generation biofuels, solar photovoltaics (PVs) and energy storage solutions, wind power technology, promotion of natural gas, mobility decarbonisation, carbon capture, utilization and storage (CCUS), carbon recycling and hydrogen technologies. The progress of the

ECTF's work is expected to be reported at the 14th EAS EMM to be hosted by Viet Nam via videoconference, back-to-back with the 38th ASEAN Ministers on Energy Meeting (AMEM) which will take place on 2-6 November 2020.

COOPERATION ON ASEAN CONNECTIVITY

10. Cooperation and engagement between the ASEAN Connectivity Coordinating Committee (ACCC) and the non-ASEAN EAS participating countries continued to be enhanced to support the implementation of Master Plan on ASEN Connectivity (MPAC) 2025, including through the ACCC+1 mechanisms, such as with China, India, Japan and the ROK, and ACCC Consultations with Dialogue Partners (DPs) and Other External Parties (OEPs) on Connectivity, as well as the convening of annual ASEAN Connectivity Symposiums and related ASEAN Connectivity events/forums. The 10th ASEAN Connectivity Symposium on "Connecting ASEAN through Financing Sustainable Infrastructure" was held on 27 August 2019 in Bangkok, Thailand. The ACCC Consultations with DPs and OEPs on Connectivity and the 11th ASEAN Connectivity Symposium were held on 26 and 28 August 2020 via videoconference. Other activities include the Regional Forum on Infrastructure Productivity held on 30 September-1 October 2019 at the ASEAN Secretariat as well as the ASEAN Sustainable Urbanisation Strategy (ASUS) Socialisation Forum for Cities on 20-21 February in Jakarta, attended by DPs, OEPs, relevant sectoral bodies and other international institutions. **ERIA supported the implementation of the first project under Initiative 4 of MPAC 2025 on "Study of MSMEs Participation in the Digital Economy in ASEAN" and the World Bank provided technical support for the implementation of the first project of Initiative 1 under MPAC 2025: "Developing a Rolling Pipeline of Priority ASEAN Infrastructure Projects".**

ECONOMIC COOPERATION AND TRADE

12. The EAS participating countries continue to strengthen economic cooperation and regional economic engagement to promote trade and investment in the EAS region through the existing EAS mechanisms such as Senior Economic Officials' Meeting-EAS (SEOM-EAS) Consultations and the EAS Economic Ministerial Meeting (EAS-EMM) Consultations. The 7th EAS Economic Ministers' Meeting held on 10 September 2019 in Bangkok discussed, among others, recent economic developments as well as trade and investment performance in the region, and the opportunities of the digital economy that would drive the 4th Industrial Revolution. The Meeting also discussed the need to promote inclusive growth through policies aimed at delivering new opportunities for Micro, Small and Medium Enterprises (MSMEs) and building new skills. The 9th Meeting of the Senior Economic Officials' Meeting-EAS (SEOM-EAS) Consultations was held on 26 July 2020, while the 8th EAS Economic Ministers' Meeting was held on 28 August 2020, both via videoconference hosted by Viet Nam. The Meeting agreed to task ERIA to undertake policy-based research to improve trade and investment including making value chains resilient to shocks of EAS economies, effectively address the impending recession, promote new technologies and develop a framework for the EAS regional economic integration.

THE ASEAN COORDINATING COUNCIL'S SPECIAL SESSION ON SUB-REGIONAL DEVELOPMENT

9 September, 2020

CHAIRMAN'S PRESS STATEMENT OF THE ASEAN COORDINATING COUNCIL'S SPECIAL SESSION ON SUB-REGIONAL DEVELOPMENT

2. The Ministers were briefed by the Secretary-General of ASEAN, President of the Asian Development Bank (ADB) and the President of the Economic Research Institute for ASEAN and East Asia (ERIA) on their perspectives regarding ASEAN's role in narrowing the development gap and enhancing ASEAN's competitiveness as a region, promoting sustainable and equitable development in the region, and presenting the prospective role of sub-regional cooperation frameworks in regional integration efforts. The Ministers appreciated ADB's long partnership with ASEAN in promoting sub-regional and regional development as well as its timely support for COVID-19 pandemic response. The Ministers commended efforts by ERIA as a regional think-tank in conducting quality research work to facilitate ASEAN's regional integration process.

THE 8th EAS ECONOMIC MINISTERS' MEETING (EAS-EMM)

28 August 2020

JOINT MEDIA STATEMENT OF THE EIGHT EAS ECONOMIC MINISTER'S MEETING

7. The Ministers acknowledged the significant contribution of Economic Research Institute for ASEAN and East Asia (ERIA) through activities that support economic integration and digital economy in the region. The Ministers welcomed ERIA's paper on "Accelerating restoration of economic growth, maintaining market stability and strengthening resilience of the EAS region in response to the COVID-19 pandemic". The Ministers encouraged ERIA to undertake policy-based research to improve trade and investment including making value chains resilient to shocks of EAS economies, effectively address the impending recession, promote new technologies and develop a framework for the EAS regional economic integration and development after overcoming the COVID-19 pandemic, taking into account existing initiatives.

THE 52nd ASEAN ECONOMIC MINISTERS' (AEM) MEETING
25 August 2020

JOINT MEDIA STATEMENT OF THE 52ND ASEAN ECONOMIC MINISTERS' (AEM) MEETING

39. The Ministers thanked the ERIA for its continued support and contribution to ASEAN economic integration and AEC-building efforts. The Ministers noted that, in cooperation with UNCTAD, ERIA is developing the Cost Effectiveness Tool Kit for Non-Tariff Measures, which intends to aid ASEAN Member States in reviewing NTMs on imported intermediate inputs for their design, enforcement and compliance, with a view of promoting domestic value addition for creation of regional value chains. Other contribution from ERIA include on-going and future research activities by ERIA, such as: (i) the study on ASEAN Seamless Trade Facilitation Indicators (ASTFI) and Trade Transaction Cost (TTC), that would help determine the reduction by 10% in trade transactions cost in the region by 2020; (ii) an assessment of the impact of the ATIGA on intra-ASEAN trade since the entry into force of ATIGA in 2010, which is a component of the ATIGA General Review; (iii) the completed ASEAN Regulatory Management System (RMS) study, which provides a baseline on the implementation of core principles of Good Regulatory Practices in ASEAN, including recommendations; and (iv) on-going work on the impact study of ASEAN Economic Integration, which will be a valuable input to the mid-term review of the AEC. Further, the Ministers are cognisant of the contribution of ERIA in supporting the RCEP negotiations and the conduct of focus group discussions and capacity building to AMS officials related to services sectors to contribute towards developing their respective Schedules of Non-Conforming Measures under the ATISA.

THE 32nd ASEAN-AUSTRALIA FORUM
22 May 2020

ASEAN AND AUSTRALIA'S RESPONSE TO COVID-19

14. Australia further noted that its development cooperation programs with ASEAN (and several member states) were already pivoting to focus on the impacts of COVID-19. The ASEAN-Australia Development Cooperation Program Phase II (AADCPII) is supporting the development of ASEAN priority logistics routes to sustain and facilitate vital regional supply chains; TRIANGLE in ASEAN is helping thousands of migrant workers who are particularly vulnerable at this uncertain time; the ASEAN-Australia Counter Trafficking Program is mitigating the risk of exploitation and human trafficking for women, children and other vulnerable groups who might be at higher risk due to impacts of COVID-19; the Economic Research Institute for ASEAN and East Asia is providing policy advice on mitigating COVID-19 impacts and promoting ASEAN's economic recovery; and Australia is supporting the ASEAN Secretariat (ASEC) to conduct rapid assessments on the impact of COVID-19 focused on 'second wave crises' such as those relating to livelihoods, social welfare, migrant labour, informal workers and other vulnerable groups. The Forum discussed how ASEAN and Australia could further enhance cooperation on the COVID19 crisis through these and other initiatives.

Annex G-1

List of Outreach Activities of ERIA Researchers

RESEARCHER	PUBLICATIONS
Fukunari KIMURA (Chief Economist)	New Phase of International Trade Policy I: Mega FTAs are Key Strategy. *Japan Foreign Policy Forum*. *Economy* Section. No.63, March 6, 2021
	Start-up/Bidenomics Trends in Preferential Treatment of US Product. Mainichi Shimbun (in Japanese), 26 January 2021.
	Energy Sustainability and Development in ASEAN and East Asia. Edited with Han Phoumin and Farhad Taghizadeh-Hesary, (2020) Routledge book. July 13, 2020.
	Potential Renewable Hydrogen from Curtailed Electricity to Decarbonize ASEAN's Emissions: Policy Implications. with Han Phoumin and Jun Arima , *Sustainability* 2020, 12(24).
	Household-level analysis of the impacts of electricity consumption on welfare and the environment in Cambodia: Empirical evidence and policy implications, with Han Phoumin and Suwin Sandu. *Economic Modelling*, 2020, 89 (p. 476-483).
	Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters, edited with Venkatachalam Anbumozhi, and Shandremugan Thangavelu (eds.) (2020). Springer book.
	Regional Frameworks for Advancing Supply Chain Resilience in *Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters*, with Venkatachalam Anbumozhi. Springer book (2020), pp 281-306.
	Global Supply Chain Resilience; Vulnerability and Shifting Risk Management Strategies, in *Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters*, with Venkatachalam Anbumozhi and Shandremugan Thangavelu, Springer book (2020), pp 3-14.
	Recovery from Corona: How to Rebuild Supply Chains? With Venkatachalam Anbumozhi Schweizer Monat Ausgabe-Oktober (2020),(in German).
	'Pandemic (COVID-19) Policy, Regional Cooperation, and the Emerging Global Production Network', with Shandremugan Thangavelu, Dionisius Narjoko, and Christopher Findlay (2020), *Asian Economic Journal*, 34(1), pp. 3-27.
Shujiro URATA (Senior Research Advisor)	'Japan first? Economic security in a world of uncertainty' with Shiro Armstrong, *Australia-Japan Research Centre Working Papers* 01/2021 March 2021, Australian National University
	'The Growing Role of Japan in Economic Integration in the Asia-Pacific Region as US Involvement Declines', *Discuss Japan, Japan Foreign Policy Forum*, No.63, March 2021
	'Enhancing SME Participation in Global Value Chains', as editor, Asian Development Bank Institute, Tokyo, Japan, March 2021.
	'Introduction and Summary' in Shujiro Urata ed. Enhancing SME Participation in Global Value Chains, Asian Development Bank Institute, Tokyo, pp.1-24

RESEARCHER	PUBLICATIONS
	'The Determinants of Participation in Global Value Chains: A Cross-Country, Firm-Level Analysis' with Youngmin Baek in Shujiro Urata ed. *Enhancing SME Participation in Global Value Chains*, Asian Development Bank Institute, Tokyo, pp.25-86 March 2021.
	'The Economics of Free and Open Indo-Pacific Vision: The Objectives, Challenges and Japan's Role', Policy Perspective, Canadian Global Affairs Institute, March 2021.
	'Can E-Commerce Mitigate the Negative Impact of COVID-19 on International Trade' with Hayakawa Kazunobu and Mukunoki Hiroshi in IDE (Institute of Developing Economies) Discussion Papers, Institute of Developing Economies and Kapan External Trade Organization, Vol. 808, 2 February 2021
	'Economic Reform in ASEAN: Editors' Overview' with Takatoshi Ito, Kazumasa Iwata and Colin McKenzie in *Asian Economic Policy Review*, John Wiley & Sons Australia Ltd., AEPR (2020) 15, 165-184, 28 January 2021
	'Energy and the Environment: Editors' Overview' with Takatoshi Ito, Kazumasa Iwata and Colin McKenzie in *Asian Economic Policy Review*, John Wiley & Sons Australia Ltd., AEPR (2021) 16, 1-21, 28 January 2021
	Achieving Inclusive Growth in the Asia Pacific, edited with Adam Triggs in PAFTAD (Pacific Trade and Development Conference Series), Australian National University Press.
	'The Determinants of Participation in Global Value Chains: A Cross-Country, Firm Level Analysis', with Youngmin Baek in ADBI Working Paper Series, ADBI (Asian Development Bank Institute), No.1116, April 2020
	'Labour Market Impacts of Import Penetration from China and Regional Trade Agreement Partners: The Case of Japan', with Kazunobu Hayakawa and Tadashi Ito in ERIA Discussion Paper Series, ERIA (Economic Research Institute for ASEAN and East Asia), No.329, April 2020
	'Reimagining global value chains after COVID-19' *East Asia Forum*, 2 July 2020.
	'Professor Yasuhiko Torii: An Obituary', with Yutaka Akiyama, Hal Hill, Shin-ichi Ichimura and Akira Kohsaka in *Asian Economic Journal*, John Wiley & Sons Australia Ltd., Vol. 34 No.2, 233-236, 11 August 2020
	'FDI Activities and Integration in ASEAN and East Asia', with Shandre Mugan Thangavelu and Dessie Tarko Ambaw, JCI (Jeffrey Cheah Institute on Southeast Asia), JCI-JSC-WP-2020-02, July 2020
	The Effects of Globalisation on Firm and Labour Performance, edited with Chin Hee Hanh, Dionisius Narjoko and Ha Thi Thanh Doan in Routledge-ERIA Studies in Development Economics, Routledge, 30 November 2020
Venkatachalam ANBUMOZHI	Op Ed: 'Three Narratives for Smart Livable Cities in the Post COVID-19 Era', *Jakarta Post*, 13 Feb 2021
	'Challenges and Opportunities for Renewable Energy Supply in the Mekong', in Renewable Energy and Sustainable development in South East Asia, Asian Vision Institute, Phenom Penh 2021, pp 36-51
	'Driving Innovations Through Smart Cities' with Kumarasamy Murugesan. *Proceeding of the International Symposium on the Serendipity of Smart Cities*, Periyar University, 2021, pp 13-24
	'Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters' edited with Fukunari Kimura, Shandremugan Thangavelu. 2020. Springer book

RESEARCHER	PUBLICATIONS
	'Complexities in Supply Chain Resilience Against Economic Shocks an Forming Public-Private Partnerships: Korean Automotive Case' with Ji Hong Kim, in Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters. Springer book,2020, pp 165-184
	'Stranded Assets and Protecting Value of Food Value Chain from Disasters and Other External Shocks' with Reddy Vangimalla and Mura Jyostna Devi *in Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters*. Springer book, 2020, pp 281-306
	'Regional Frameworks for Advancing Supply Chain Resilience' with Fukunari Kimura in *Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters*. Springer book, 2020, pp 281-306
	'Global Supply Chain Resilience; Vulnerability and Shifting Risk Management Strategies', with Fukunari Kimura and Shandremugan Thangavelu in *Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters*. Springer book pp 281-306 pp 3-14
	'From Covid-19 Containment to Economic Growth: Will India's Self-Reliant Strategy Work for Integration with Global Economy' with Kaliappa Kalirajan, *Journal of Economics and Governance*, Fiscal Policy Institute, 2020, Vol 5, No 2, 36-42.
	'Energy Market Integration in Northeast Region of India: Efficiencies, Vulnerabilities and Strategic Implications for Asia' with Ichiro Kutani and Bhupendra Kumar Singh, *Journal of Asian Economic Integration*, 2020, Volume 2, Issue 1, pp. 82–96.
	'Identifying Countries for Regional Coperation in Low Carbon Growth: A Geo-environmental Impact Index' with Kazi Arif Uz Zaman and Kaliappa Kalijaran, *International Journal of Environmental Research*, 2020, 14, pp.29-41.
	Op Ed: 'ASEAN's strategies to address new normal', *The China Daily*, 28 December 2020
	Op Ed: 'A shot at moulding the future', *The Borneo Bulletin*, 22 December 2020.
	Op Ed: 'ACRF: Potential green recovery, new social contract towards sustainable ASEAN future', *The Manila Times* (15 December 2020) and *The Jakarta Post* (10 December 2020).
	Op Ed: 'Resilient Supply Chain for Post Covid Asia', *The ASEAN Post*. 31 October 2020.
	Op Ed: 'Rebuilding Supply Chain Resilience', *Brunei Times*. 29 October 2020.
	Financing Energy Efficiency of Buildings: Green Instruments and Policy Guidance, with Fatih Yilmaz, Nawaz Peerbocus, Rishikesh Ram Bhandary, Fang Zhang and Kelly Sims Gallagher, *T-20 Policy Brief*. T20/G20 task force on Climate Change and Environment. 5-October 2020.
	'Integrated Policies to Improve the Energy-Water-Food System Nexus to achieve the SDGs, with Calro Andrea Bollino, Suresh Babu, Yamaji Eiji, Marzio Galotti, *T20 Policy Brief, T20 Task Force, Sustainable Energy, Water and Food System*. 2020.
	'Technoeconomic Assessment of Mini-grids in Myanmar', with Masako Numata, Masahiro Sugiyama, Gento Mogi and Wunna Swe, *Journal of the Japan Institute of Energy*, (2020) 99, pp. 67-74

RESEARCHER	PUBLICATIONS
	'Realizing the Low-Carbon Future: What role for the Central Banks and the Monetary Authorities?' *Issue 5, Global Solutions Journal*, 2020, pp. 106-114.
	'Recovery from Corona: How to Rebuild Supply Chains?' with Fukunari Kimura, *Schweizer Monat* Ausgabe-Oktober 2020 (in German)
	Op Ed: 'Can A Self-reliance Strategy Pull India out of Recessions?', *The Brink News*. 19 July 2020.
	Op Ed: 'From containment to recovery: rescuing the ASEAN from crisis', *Vietnam Investment Review, Vietnam Net, The Manila Times, The Jakarta Post*, 2-25 June 2020.
	Op Ed: 'Covid-19's Blueprint For A Sustainable Future', *The ASEAN Post* (25 April 2020) and *The Japan Times* (28 April 2020).
	Op Ed: 'Community engagement is key to check virus', *The Borneo Bulletin*, 25 April 2020.
	Op Ed: 'Indonesia's best hope of a Covid-19 cure is its communities', *The Nation Thailand*, 22 April 2020.
	Op Ed: 'Will COVID-19 Devastate the Indian Economy?' , *The Brink News*, 21 April 2020.
	Op Ed: 'What Covid-19 Outbreaks Means for The Indian Economy?', *Dinalamar*, 15 April 2020.
Lurong CHEN	'Singapore's pursuit of free trade', in Konrad-Adenauer-Stiftung, *The multilateral trade system under stress: Charting Asia's path forward*. Tokyo: KAS Japan, pp. 61-72.
	'Improving Digital Connectivity for E-Commerce in ASEAN', *ASEAN Focus*, 2020, 35(4), December 2020.
	Op Ed: Policy Priorities for a Digital ASEAN, with Lydia Ruddy, *Viet Nam Investment Review*, 27 August 2020.
Doan Thi Thanh HA	Chin Hee Hahn, Shujiro Urata, Dionisius Narjoko, Doan Ha (2020), *The Effects of Globalisation on Firm and Labour Performance*. Routledge book.
	Op Ed: 'Breaking down barriers to recovery. with Salvador Buban, *Vietnam Investment Review*, 27 June 2020.
HAN Phoumin	Cost–Benefit Analysis of HELE and Subcritical Coal-Fired Electricity Generation Technologies in Southeast Asia. With Hassan Ali, Steven Weller and Beny Suryadi. *Sustainability* 2021, 13(3). February 2021.
	Green Technological Development and Deployment in the Association of Southeast Asian Economies (ASEAN)—At Crossroads or Roundabout? With Rabindra Nepal and Abiral Khatri. *Sustainability* 2021, 13 (758), 14 January 2021.
	Op Ed: Reshaping ASEAN's Energy Landscape Post COVID-19, *Mashrae*, 6 January 2021.
	Powering Southeast Asia Meeting the Region's Electricity Needs, with Mikkal E. Herberg, Nikos Tsafos, and Nikos Tsafos, NBR Special Report no.89. 18 December 2020.
	Potential Renewable Hydrogen from Curtailed Electricity to Decarbonize ASEAN's Emissions: Policy Implications. With Fukunari Kimura and Jun Arima. *Sustainability* 2020, 12(24). 17 December 2020.

RESEARCHER	PUBLICATIONS
	Op Ed: ASEAN looks to strengthen power exchanges, trade, *Borneo Bulletin*, 15 November 2020.
	Op Ed: ASEAN's Future Energy Landscape Post COVID-19, *The ASEAN Post* (13 October 2020) and *The Jakarta Post* (15 October 2020).
	Op Ed: Quality infrastructure for ASEAN sustainability, *Borneo Bulletin*, 16 September 2020.
	Op Ed: ASEAN must aim for quality energy, *The Phnom Penh Post*, 15 September 2020.
	Op Ed: For the Sake of Cambodia's Future—Quit Coal, *Cambodianess*, 14 September 2020.
	Op Ed: ASEAN should aim high with quality energy infrastructure, *The Jakarta Post* (11 September 2020) and *Flipboard* (13 September 2020).
	Op Ed: Energy Related Investments need to be Guided, *Belt and Road News*, 9 September 2020.
	Op Ed: Quality Energy Infrastructure For Sustainability, *The ASEAN Post*, 8 September 2020.
	Op Ed: Green energy future starts right now, *The Borneo Bulletin*, 8 September 2020.
	Op Ed: Hydrogen a potential ASEAN green fuel, *The Phnom Penh Post* and *The World News*, 11 August 2020.
	Op Ed: Building Energy Efficiency To Employ ASEAN People, *The ASEAN Post*, 9 August 2020.
	Op Ed: Is Hydrogen missing piece in ASEAN's energy mix, *Press Reader*, 7 August 2020.
	Op Ed: Hydrogen the missing piece of ASEAN green energy, *The Jakarta Post*, 6 August 2020.
	Op Ed: Scaling renewable energy in Asean: Hydrogen as the missing piece, *The Manila Times*, 5 August 2020.
	Op Ed: ASEAN should promote hydrogen use, *The China Daily*, 4 August 2020.
	Op Ed: Going green: Energy efficiency through buildings, *The Borneo Bulletin*, 21 July 2020.
	Op Ed: Navigating ASEAN's post-COVID-19 energy transition, *East Asia Forum*, 20 July 2020.
	Energy Sustainability and Development in ASEAN and East Asia. Edited with Farhad Taghizadeh-Hesary, Fukunari Kimura, Routledge book. 13 July, 2020
	Op Ed: Hydrogen: A game-changer for Asean, *Flipboard, The Bangkok Post, The Borneo Bulletin*, 10-14 July 2020.
	Household-level analysis of the impacts of electricity consumption on welfare and the environment in Cambodia: Empirical evidence and policy implications, with Fukunari Kimura and Suwin Sandu, *Economic Modelling*, 2020, 89 (p. 476-483)

RESEARCHER	PUBLICATIONS
	Op Ed: Ideal time to paint a greener future, *The Borneo Bulletin*, 20 June 2020.
	Op Ed: Embracing renewables and clean technologies to decarbonize emissions, *The Manila Times and The Korea Times*, 19 June 2020.
Lili Yan ING	East Asian Integration: Goods, Services, and Investment, edited with Martin Richardson, and Shujiro Urata. Translators: Shujiro Urata and Hideyuki Miura, Routledge—Keishoshobo. Translated into Japanese, December 2020.
	Non-Tariff Measures in Australia, China, India, Japan, Korea, and New Zealand Preliminary Findings, ERIA—UNCTAD, October 2020.
	Trade Liberalization and Chinese Firm's Exports: Sourcing from Indonesia. With Wei Tian,and Miaojie Yu, *The World Economy* 2020, Vol.43 No.11, Wiley.
	US—China Trade Tensions on Indonesia's Trade and Investment with Yessi Vadila, *Asian Economic Papers* 2020, Vol.18 No.3, MIT Press
	Op Ed: '21 not a better year – Indonesia, *The Manila Times*, 6 January 2021.
	Op Ed: Economic outlook 2021: Beware of prolonged recession, *The Jakarta Post*, 5 January 2021.
	Op Ed: Reskill Today Or Lose Your Job Tomorrow?, *The ASEAN Post*, 12 November 2020.
	Op Ed: Urgent need to tackle unemployment, *The Borneo Bulletin*, 19 October 2020.
	Op Ed: Improving ASEAN COVID-19 Management, *The ASEAN Post*, 16 October 2020.
	Op Ed: How COVID-19 impacts Indonesia's trade, *The Jakarta Post*, 2 July 2020.
	Op Ed: Implementing Indonesia's COVID-19 stimulus, *East Asia Forum Quarterly*, 12 June 2020.
Michikazu KOJIMA	Op Ed: 'Marine Lives Matter' with Ellen Putri Edita, Hendro Putra Johannes, Fusanori Iwasaki *The ASEAN Post*, 14 August 2020.
	Op Ed: Tackling marine plastic pollution together" with Fusanori Iwasaki, *Jakarta Post*, 12 August 2020.
	Op Ed: 'Marine Lives Matter: Plastic Bag Ban and Further Actions to Reduce Marine Plastics' with Ellen Putri Edita, Hendro Putra Johannes, Fusanori Iwasaki *The Manila Times*, 11 August, 2020.

RESEARCHER	PUBLICATIONS
Dionisius NARJOKO	'Pandemic (COVID-19) Policy, Regional Cooperation, and the Emerging Global Production Network', with Fukunari Kimura, Shandremugan Thangavelu, and Christopher Findlay, *Asian Economic Journal*, 2020, 34(1), pp. 3-27.
	'Firm Adjustment to Trade Policy Changes in East Asia', with Shujiro Urata in M. Baccheta and M. Helble (eds.), *Trade Adjustment in Asia: Past Experiences and Lessons Learned*. Tokyo: Asian Development Bank Institute, 2020. pp.179-206.
	'Human Capital and Participation in Global Value Chains: Evidence from Small and Medium-Sized Enterprises in Indonesia' with Shandremugan Thangavelu and Hing Vutha, ADBI Working Paper, No. 1142, May 2020. Tokyo: ADBI.
	The Effects of Globalisation on Firm and Labour Performance. Edited with Shujiro Urata and Doan Thi Than Ha. 2020. Routledge book.
Anita PRAKASH	"Asia Africa Growth Corridor: Development and Cooperation in Indo-Pacific." Jointly edited with RIS; published by Springer Nature, October 2020.
	"Multilateral Cooperation for Investment Facilitation can Mobilise Infrastructure Funds and Link Needs of Investors, Governments, and People", Task Force 3 on Infrastructure Investment and Financing. *T-20 Policy Brief*.
	"Emerging Economic Architecture in Indo-Pacific: Whither India" Analysis Brief no.6, Perth USAsia center, 2 June 2020.
	Op-Ed: Modi's repackaging of old industrial policy won't salvage India. East Asia Forum. 9 June 2020.
Alloysius Joko PURWANTO	Megersa Abate, Panayotis Christidis, Alloysius Joko Purwanto (2020), 'Government support to airlines in the aftermath of the COVID-19 pandemic', *Journal of Air Transport Management* 89, 101931.
	Op-Ed: Revisiting Indonesia's bioethanol transport fuel policy. *The Jakarta Post*. 16 November 2020.
	Op-Ed: Synchronizing Indonesia's diesel fuel policy. *The Jakarta Post*. 25 January 2021.
	Op-Ed: EU deal key to recovery of ASEAN airlines. *Eleven and The Jakarta Post*. 20-23 May 2020
Rashesh SHRESHTA	Financial Inclusion in Asia and Beyond. Edited with Tony Cavoli, Routledge, March 2021.
	The Nature and Landscape of Financial Inclusion in Asia, with Tony Cavoli In *Financial Inclusion in Asia and Beyond*. Routledge, March 2021.
	Financial inclusion and household outcomes in Indonesia, with Samuel Nursamsu In *Financial Inclusion in Asia and Beyond*. Routledge, March 2021.
	Op Ed: Post-pandemic Asean recovery, *China Daily*, 25 February, 2021
	Op Ed: Post-pandemic Asean recovery, *The Inquirer*. 30 January 2021.
	Op Ed: Development strategy a must for recovery, growth, *The Borneo Bulletin*. 20 January 2021.
	Op Ed: Key issues in post-pandemic ASEAN economic recovery, *The Jakarta Post*, January 19, 2021

RESEARCHER	PUBLICATIONS
	Op Ed: Recovery requires coordinated development. *The Bangkok Post*. 15 January 2021
	Multigenerational Effect of Education Reform: Mother's Education and Children's Human Capital in Nepal, with Vinish Shrestha. *The World Bank Economic Review*, 2020, 34(3), pp. 698–729.
	Op Ed: To thrive in e-commerce, SMEs need the right skills and govt help, *The Nation Thailand* (July 18, 2020), *The Jakarta Post* (July 20, 2020), *Phnom Penh Post* (July 20, 2020).
	Op Ed: SMEs need right skills to shine in e-commerce, *The Jakarta Post*, 4 August 2020
	Op Ed: Surviving in the digital world, *The Borneo Bulletin*, 4 August 2020
Fauziah ZEN	Op-ed: Why the Covid vaccines should be mandatory in *The Jakarta Post, Vientiane Times, Bangkok Post, Manila Times, and The ASEAN times*. 9 October 2020
	Chapter 7: Policy for Infrastructure Development Acceleration" in Soelistyaningsih L., Panennungi M.A., and Surjadi (Eds.), *New Innovations for Economic Slowdown: Sri Mulyani Indrawati et al.*". 2020. PT Elex Media Komputindo. Jakarta. Indonesia

Annex G-2

List of Outreach Activities of ERIA Researchers

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
Fukunari KIMURA (Chief Economist)	Guest Speaker, CDES Webinar Series: COVID-19 and Beyond, "Economics and Politics of the Regional Comprehensive Economic Partnership (RCEP)" organized by Monash University, 25 March 2021.
	Panelist, 'Session II: Rules-based Connectivity Cooperation.' at Seminar on Connectivity Cooperation for a Free, Open, and Inclusive Indo-Pacific organized by RIS (Research and Information System for Developing Countries), 18 March 2021.
	Presenter, "Evaluation of RCEP Agreement Signing and Prospects for Regional Comprehensive Economic Integration in Asia" at Post-Corona Study on Asian Economic and Social Structure Dynamics by JICA Sadako Ogata Institute for Peace Development, Tokyo 17 March 2021.
	Presenter, 'Sustainable Development in the Greater Mekong Subregion: Context, Progress, and Prospects' at the CIEM-GraSPP-TIFO Viet Nam-Japan Policy Research Forum "Enhancing Viet-Nam Japan Cooperation for the Sustainable Energy Future in the Greater Mekong Subregion beyond the Pandemic organized by CIEM (Central Institute for Economic Management), GraSPP (Graduate School of Public Policy, The University of Tokyo), and TIFO (Toshiba International Foundation), 15 March 2021.
	Presenter and Panelist, 'Future Landscape of Supply Chain Resilience in the Region'at JETRO Supply Chain Resilience Forum: for Manufacturing and Services Industries in the Time of Uncertainty organized by JETRO (Japan External Trade Organization), 11-12 March 2021.
	Panelist, 'Trade in Digital Services in ASEAN' at the ADB Virtual Inception Workshop on Digital Services Trade, organized by Asian Development Bank (ADB), 1-3 March 2021.
	Presenter, ' Evaluation of the Signing of the RCEP Agreement and Prospect for Regional Economic Integration in Asia.'at the CSIS-GRIPS-RSIS Webinar, 5 February 2021.
	Panelist, Policy Dialogue on 'Galvanizing South and South-East Asia Connectivity post-COVID19' organized by UNESCAP-SSWA jointly with Indian Council for Research on International Economic Relations (ICRIER), 22 January 2021.
	Panelist, 'Green and Digital Technology for ASEAN to Connect Connectivities' at the Seminar on Connecting the Connectivities: Synergy through Enhanced Partnership organized by Ministry of Foreign Affairs Thailand, the World Bank Group and the ASEAN Secretariat, 22 January 2021.
	Presenter, "East Asia International Division of Labor and International Trade Order: 2021 Challenges" at Lunch meeting by Policy Research Institute, 15 January 2021
	Moderator, "Part II Discussion by 3 Reporters" at New Year Symposium Covid-19 and Regional/World Economy: Propagation of Impact through Economic Transactions by Japan Society for International Economics Kanto Brach, Tokyo, 9 January 2021.
	Presenter, "International Trade after Corona" at International Trade Order after Corona and Japan's Path Symposium by Asian Community Research Center (ACRC), Osaka, 19 December 2020.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Panelist, Session II: "Restoring the momentum for regional economic integration and sustainable growth in East Asia." At the 18th East Asia Forum (EAF), organized by Ministry of Foreign Affairs of Vietnam, 10 December 2020.
	Presenter, 'The Future of Free Trade in 2021: Japanese Leadership and the Response of the New US Administration.'at FPCJ Online Press Briefing organized by FPCJ (Foreign Press Center Japan), 8 December 2020
	Panelist, the APAC Beyond: A Digital-Led Economic Recovery, organized by Google Asia Pacific, 3 December 2020
	Source person, Policy Advocacy of International Economics at Online Roundtable by JETRO, 1 December 2020.
	Presenter, 'The Impact of COVID-19 and the US-China Confrontation on International Production Networks in East Asia'and Panelist 'Session 3: Post-Corona, Rapid Change of World Economic Leadership.'at TV Chosum Global Leaders Forum 2020 "Coronomics, Anchoring to a New World" organized by TV Chosun, 16-17 November 2020
	Presenter, "Reorganization of COVID-19 and East Asian Production Network" at 2nd Current Status and Issues of East Asia GVC (Global Value Chain) at Japan-Korea Economic Forum by Embassy of Korea in Japan, Ministry of Economic Affairs, Tokyo, 10 July 2020.
	Chair, 1st Latest Trends and Prospects of US-China Economic Friction: Focusing on Impact on Trade Structure, at Japan-Korea Economic Forum by Embassy of Korea in Japan, Ministry of Economic Affairs, Tokyo, 5 July 2020.
	Presenter and Panelist, Business Environment in East Asia after COVID-19: How will the World Trade Order Change" at Economic Dynamism and Globalization Perspectives in Asia: The Rise of East Asian Protectionism and the Mega FTAs by Asia Pacific Research Institute (APIR), Osaka, 29 October 2020.
	Presenter, 'Report on ERIA's Research Projects in FY2020' at ERIA – RIN (Research Institute Network) Meeting in Fiscal Year 2020 organized by ERIA, 27 October 2020
	Panelist, Webinar on WTO @ 25 Series, organized by RIS (Research and Information System for Developing Countries), 22 October 2020.
	Panelist, 'Japan and East Asia Still Believe in Globalization' at Bruegel-Kobe University Online Symposium 2020 organized by Kober University in collaboration with Belgium-based Think-Tank Bruegel, 22 October 2020.
	Presenter, ERIA Studies on COVID-19 at the 13th Governing Board Meeting, organized by ERIA , 16 October 2020]
	Keynote Speaker, Virtual Workshop Impact of ASEAN Economic Integration, organized by ERIA, 13 and 20 October 2020
	Presenter, 'Promoting Regional Recovery' at the East Asia Summit Expert's Meeting on COVID-19 organized by Ministry of Foreign Affairs Vietnam (Viet Nam's 2020 ASEAN Chairmanship, 14 October 2020]
	Keynote Speech Presenter, 'Session 2: Trade in Digital, "Three Ways to Utilize Digital Technology in East Asian Economic Development.'at the KIEP 30th Anniversary Conference "Global Economy and the Asian Economy" organized by KIEP (Korea Institute for International Economic Policy, 5 October 2020.
	Presenter, 'Exit Strategies for ASEAN and East Asia: A Huge Demand Shock Will Come.'at 2020 RIN Online Workshop Series on COVID-19: Workshop I organized by ERIA, 25 September 2020.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Presenter, 'Research Activities (Economics) of ERIA in FY2019 and Research Programme (Economics) for FY2020' at the 12th Academic Advisory Council (AAC) Meeting, organized by ERIA, 18 September 2020.
	Presenter, 'Possible Methods of Measuring Policy Effects: Some Experience in ASEAN' at the Virtual Public-Private Dialogue (PPD) on Emerging Opportunities and Challenges in Implementing the APEC Connectivity Blueprint 2025, organized by Ministry of International Trade and Industry (MITI) Malaysia, 15 September 2020.
	Keynote Speaker, The 1st Working Group Meeting - Energy Sustainability and Climate Change in ASEAN, organized by ERIA, 14 September 2020]
	Presenter, ASEAN COVID-19 Exit Strategy and Japan, at Asia under the US-China New Cold War Study group by Santory Culture Foundation, Osaka, 11 September 2020
	Panelist, 'Session 1: Regional Impact of COVID-19 Pandemic on Sustainable Infrastructure.'at the 11th ASEAN Connectiviy Symposium "Enhancing ASEAN Cohesiveness, Responsiveness through Resilient Connectivity and Human Capital Development" organized by ASEAN, 28 August 2020.
	Panelist, 'Session IV: ASEAN Outlook on Indo-Pacific (AOIP) and Indo-Pacific Oceans Initiative (IPOI): Complementarities and Cooperation' at the 6th Roundtable of the ASEAN-India Network of Think-Tanks (AINTT): Strengthening Partnership in the Post-Covid Era, organized by RIS (Research and Information System for Developing Countries) and Ministry of External Affairs India, 20-21 August 2020.
	Panelist, "Moving into the New Normal in ASEAN" at the ASEAN-Japan Centre, the 53rd ASEAN Anniversary Symposium "Beyond COVID-19: Moving into the New Normal" organized by ASEAN, 20 August 2020.
	Panelist, "Session 2: Viet Nam and ASEAN: The Way Forward" and presented "ASEAN's Regional Economic Integration: Prospects and Challenges." at the International Symposium on "Viet Nam-ASEAN: 25-year Journey and the Way Forward" organized by Ministry of Foreign Affairs Vietnam , 19 August 2020
	Panelist,'The Economic Outlook for Trade'at The Economist, Asia Trade Insight Hours, Virtual Event Series 2020-2021, Reviving Trade: The Way Forward. EP2 organized by The Economist, 12 August 2020
	Discussant, RIETI BBL Seminar "Effect of COVID-19 on Global Value Chains and Future Prospects" organized by RIETI, 6 August 2020
	Discussant, High-Level Dialogue on ASEAN Post-Pandemic Recovery organized by ASEAN, 30 July 2020
	Discussant, RIETI BBL Seminar "Macroeconomic Prospects and Policy Coordination in Asia to Overcome the Challenge of COVID-19" organized by RIETI, 22 July 2020
	Panelist, 'Keep Production Networks Alive Despite the Impending Demand Shock at the USAID/Asia Bureau Webinar "COVID-19's Impact on Trade and Supply Chains in the Asia-Pacific organized by USAID/Asia Bureau, 14 July 2020
	Presenter, 'Sub-regional Development Strategy in ASEAN after COVID-19: Inclusiveness and Sustainability in the Mekong Subregion.'at the ASEAN Forum on Sub-regional Development "Converging Mekong Subregional Cooperation with ASEAN Goals" organized by ASEAN, 14 July 2020
	Presenter, "Post-Corona ASEAN Exit Strategy" at 5th Indo-Pacific Cooperation Study Group by National Graduate Institute, Tokyo, 3 July 2020

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Source Person, Independent Research Project Online Forum "Economic Dynamism and Globalization Outlook in Asia: From the Impact of the Corona wreck on Global Value" by Asia Pacific Research Institute (APIR), Osaka, 26 June 2020.
	Source Person, A Virtual Experts Discussion "Strengthening AEC Blueprint 2025", by ERIA [19 June 2020]
	Discussant, 'Exit Strategies for ASEAN Member States: Keep Production Networks Alive Despite the Impending Demand Shock' at the High Level Policy Dialogue: Building a Resilient ASEAN Economic Community in the Aftermath of COVID-19 organized by ASEAN-ESCAP [19 May 2020]
Shujiro URATA (Senior Research Advisor)	Speakers, 5th Webminar The Background, significance, implications and future prospects of the RCEP from the viewpoint of evolving regional economic architecture, by AMEICC, METI, JETRO, ERIA and ASEAN, 24 March 2021.
	Keynote Speaker, Impact of ASEAN Economic Integration organized by ERIA, 13 & 20 October 2020
	Keynote Speaker, Proposal Selection for ERIA Microdata Project FY2020' organized by ERIA, 30 September 2020
	The 12th Academic Advisory Council (AAC) Meeting, organized by ERIA, 18 September 2020.
	Panelist, Web Seminar Non-Tariff Measures in Australia, China, India, Japan, New Zealand and the Republic of Korea: Preliminary Findings organized by UNCTAD jointly with ERIA, 18 September 2020
Venkatachalam ANBUMOZHI	Speaker, Global and Regional Outlook on the Production of Vegetable Oil and its Sustainability Webinar on Sustainability Perspectives in Vegetable Oil Sector: Perspectives of ASEAN, by the Ministry of Foreign Affairs, Indonesia 31 March 2021
	Moderator and Speaker, Virtual Workshop on Energy Market Integration in NER -India: International Economic Linkages and Strategic Choices for Sub-Regional Cooperation, by the Confederation of Indian Industries, 26 March 2021.
	Speaker, WebinarRenewable Energy and Sustainable Development in South East Asia, by Asia Vision Institute and Konard-Adndeauer-Stifting, 26 March 2021
	Panelist, Clean Energy Transition as an Engine for Green Recovery, South East Asia Development Symposium by Asian Development Bank, 22 March 2021.
	Panelist: Achieving sustainability – what role can Indian trade play?, GTR India 2021 Virtual Conference, by Global Trade View, 11 March, 2021.
	Lecture, Challenges and Opportunities for Accelerated Climate Actions in Post Covid-Era, Periyar University, 9 March 2021.
	Keynote Speaker and Panellist, 18th Economix Symposium The Planet in Climate Crisis: A Repercussion of Ignorance, organised by the University of Indonesia, 2 march, 2021.
	Speaker, Roundtable Consultation on Covid-19 Recovery in South East Asia, by Asian Development Bank , 10 February, 2021.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Speaker, Routable Dilague on Developing country Perspectives on Climate Border Adjustment Mechanism (CBAM) Konard-Adndeauer-Stifting-Beligium, 9-13 November, 2020.
	Speaker, Workshop on Strengthening Emerging Asia's Power Sector: Needs Requirements and Potential Roles, by National Bureau of Research (NBR), 22 January, 2021.
	Panelist, Symposium on ASEAN Sociocultural Community Blue-Print 2025 by Asian Institute of Management, 10 December 2020.
	Panelist, Webinar on Urban Trends Across Asia by ERIA and OECD, 27 November 2020.
	Keynote Speaker, Realizing Smart Cities, Indonesia – Indonesia Digital Summit, by Pusat Inovasi Kota Dan Lomunitas Cerdas (PIKKC), 18 November, 2020.
	Discussant, Online Workshop on Reforming Asian Utilities: Institutional Reforms for Boosting Private Investment, by Asian Development Bank Institute, 18-19 November, 2020.
	Speaker, Coupling Industrial Growth and Economic and Social and Environmental Sustainability, High Level Dialogue on ASEAN-Italy Economic Relations, by European House 10 November 2020.
	Paper Presenter, ASEAN Power Grid Interconnectivity: Cross Border Electricity Trade and Its Influence in Carbon Emissions, Virtual Smart Energy Technology Asia (SETA) Conference,14 October, 2020.
	Paper Presenter, Strengthening Regional Energy Security During the New Normal, Virtual Smart Energy Technology Asia (SETA) Conference, 13 October, 2020.
	Paper presenter: International Conference on Rural Electrification: International Experiences and Development in Thailand, by Ministry of Energy and Giz, 25 September, 2020.
	Speaker, Webinar on Sustainability Practices for MSMEs in a COVID-19 World and Beyond, by ERIA MSME Webminar Talk #5, 24 September 2020.
	Moderator and Discussant, International Conference on Climate and Energy Finance, by the University of Otogo. 7-8 September, 2020.
	Paper Presenter: Financing Low Carob Future: The Imperatives and Readiness of Asian Banking System, Virtual Conference on Low-Carbon Finance and the Sustainable Development Goals by Asian Development Bank Institute, 12-14 August, 2020.
	Speaker, Will Covid 19 Accelerate the digital revolution in agriculture and the bio-economy? By International Consortium on Applied Bioeconomy Research, 31 July, 2020.
	Speaker, Challenges and Prospects for Energy Connectivity in the Covid-19 era, by ASEAN-India Center at RIS, Confederation of Indian Industry, NUS, Energy Study Institute, 24 July 2020.
	Discussant, Regional Consultative Workshop on Building Resilience to Drought in ASEAN Region, by UNESCAP, 23 July, 2020.
	Speaker: Online Policy Dialogue on Policy Dialogue on Development of Climate-Resilient Agriculture, by Pir Mehr Ali Shah Arid Agriculture University Rawalpindi (PMAS -AAUR) Rawalpindi, Pakistan, 21 July 2020.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Panelist: T20 conference on Managing Energy Transitions in Developing Countries, by Kingh Abuddula Petroleum Studies and Research (KAPSARC) 14 July, 2020.
	Moderator, Economic and Social Survey of Asia and the Pacific 2020 Towards Sustainable Economies in ERIA – UNESCAP Joint Virtual Policy Dialogue on 'The Economic and Social Survey of Asia and the Pacific 2020', 10 June 2020.
	Main Speaker, Webinar Dialogue on Realizing Smart Cities by the Smart Cities Network, 18 May 2020.
Lurong CHEN	Speaker, 2nd Outlook Consultation Group (OCG) Meeting on 2021 edition of the Economic Outlook for Southeast Asia, China and India, by OECD, 10 December 2020.
	Discussant, Conference on 'Digitalization and Sustainable Economic Development', by ADBI, 9 December 2020.
	Speaker, Conference on Economic Security and Industrial Values Chains in The (Post) COVID Era, by Institut français des relations internationals (IFRI), 8 December 2020.
	Moderator, THE ASEAN – ERIA Dialogue on Digital Trade, by ERIA, 28 October 2020.
	Consultancy, Pan-ASEAN Data Policy, by World Economic Forum (WEF), 9 October 2020.
	Keynote speaker, China-ASEAN Workshop on Industrial Internet, Alliance of Industrial Internet, 31 August 2020.
	Panelist, Roundtable on Digital Divide in Southeast Asia and the Dutch Perspective, by Netherlands Embassy in Singapore, 26 August 2020.
	Speaker, 1st Outlook Consultation Group (OCG) Meeting on 2021 edition of the Economic Outlook for Southeast Asia, China and India, by OECD, 20 July 2020.
	Speaker, The Second Module on E-Commerce for Capacity Building Programme, by ERIA, 15 July 2020.
Doan Thi Thanh HA	Speaker, 'The 4th Roundtable on High Level Dialogue on ASEAN Italy Economic Relations', organised by The European House – Ambrosetti, 21 January 2021.
	Speaker, 'Workshop on Vietnamese Automotive Industry Policy: Towards the New Era of Automotive Industry', organised by Viet Nam Industry Agency, Ministry of Industry and Trade, Socialist Republic of Viet Nam in collaboration with Central Institute of Economic Management (CIEM) Viet Nam, and ERIA, 29 December 2020.
	Speaker, 'Greater Mekong Subregion (GMS) Program Development Partners' Meeting on Prospective Development Partner Engagement for COVID-19 Initiatives and GMS 2030', organised by Asian Development Bank (ADB), 20 October 2020.
	Speaker, 'Public Private Dialog (PPD) on Understanding Non-Tariff Measures on Agriculture, Forestry and Fisheries Sectors to Enhance Trade to Improve Rural Development and Poverty Alleviation in the Asia Pacific Region', organised by The Indonesian Ministry of Trade and APEC Secretariat, 1-2 October 2020.
	Panellist, 'China Plus One: Convergence or Divergence in ASEAN Integration?', organised by IDEAS (Institute for Democracy and Economic Affairs), 28 August 2020.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Moderator, 'The ASEAN Secretariat Virtual Expert Brainstorming on the Fourth Industrial Revolution in ASEAN', organised by ASEAN Secretariat, 02 June 2020.
	Presenter, ERIA and UNCTAD Discuss Joint Work on NTMs in ASEAN and East Asia, 8 December 2020.
	Speaker, Agility and Resilience of Micro-Businesses Amidst and After the Pandemic, by ERIA, 22 October 2020.
	Speaker, Overcoming GVC Disruptions for MSMEs by ERIA, 30 July 2020.
HAN Phoumin	Speaker, An Overview of Distributed Energy Resources & Opportunities in Asia by Low Emission Development Strategies Global Partnership (LEDS-GP). 5 February 2021.
	Speaker "The impact of Digital Technology on Energy Sector and Human Resource Development in ASEAN".at Conference on Electricity Market Reform in Southeast Asia by National Bureau of Asia Research (NBR) and ERIA, 20 January 2021.
	Speaker "Situation of Natural Gas Market in ASEAN"at Workshop on the Global Future of Natural Gas in a Low Carbon World -Southeast Asia Round- by IEEJ. 15 January 2021.
	Speaker "Green bond development in Southeast Asia: Opportunities and Challenges". at Conference on How to advance green bond markets by providing support for cross-border flows, by Green Bond Initiatives. 7 December 2020.
	Speaker "ASEAN Energy Security: Policy Development" at Conference on Model ASEAN Meeting by University of Pertamina. 10 November 2020.
	Master Ceremony (MC) at 3rd East Asia Energy Forum, 2 November 2020.
	Speaker of "Energy Security and Resiliency in Mainland Southeast Asia"at Conference on Sustainable Development and the Future Mekong by The Cambodia Institute for Cooperation and Peace (CICP), 27 October 2020.
	Speaker of "Electricity Market Reform" in ASEAN at Conference on Reforming Energy Markets During Times of Uncertainty by National Bureau of Asia Research (NBR), 10 September 2020.
	Presenter of "Electricity Market Reform in ASEAN"at Conference on Reshaping Visions for Energy Security in the Indo-Pacific by National Bureau of Asia Research (NBR), 27 August 2020.
	Speaker "ASEAN's Distributed Energy System: Opportunity and Challenges" at Conference on An Overview of Distributed Energy Resources and Opportunities in Asia by NREL, the Asia LEDS Partnership (ALP) and the LEDS Global Partnership (LEDS GP) under the ALP Grid Renewable Energy (GRE) Community of Practice.
Lili Yan ING	Discussant, ERIA and UNCTAD Discuss Joint Work on NTMs in ASEAN and East Asia, 8 December 2020.
	RCEP Ratification, In Preparation for Indonesia's Parliament Approval on the RCEP by Ministry of Trade, 8 December 2020.
	Emerging Trends in Global Trade, 7th Annual Indonesia Economic Forum by Indonesia Economic Forum, 25 November 2020

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Speaker, Covid-Robust Economies Regional Impacts of COVID-19, and Options for Recovery Webinar on COVID-19 Robust Economies – Regional Impacts of COVID-19 and Options for Recovery by ERIA and New Zealand Mission to ASEAN, 27 October 2020.
	Speaker, Southeast Asia Economy Riding the New Normal: What Research Show? Webinar on Shaping the Right Policies for Southeast Asia's Economic Recovery in the New Normal by Elsevier and Faculty of Economics, University Indonesia, 18 September 2020.
	Addressing a World Economy in the Aftermath of a Pandemic: ASEAN economy, Selangor ASEAN Business Conference 2020 by Invest Selangor, 15 September 2020.
	Speaker, How to Address NTB.NTM in ASEAN Regional Context, National Annual Meeting of KADIN, by Indonesia Chamber of Commerce, 10 September 2020.
	Speaker, Webinar on Economic Impact of COVID-19 in ASEAN: Perspectives from Four Countries by ERIA, 18 August 2020.
	Taiwan in Asia, Taiwanese Businesses in Indonesia by Taiwan Asia Exchange Program , 11 August 2020.
Shigeru KIMURA	Speaker, GECF Monthly Lecture Series on 'EAS Energy Outlook' by Gas Exporting Countries Forum (GECF), 20 October 2020.
	Speaker, Japan-Asia CCUS Forum 2020 by GCCSI, JCCS, HEDO and METI-Japan, 6 October 2020.
	Remarks, The Energy Situation in ASEAN Post COVID-19: ERIA-IEEJ Joint Workshop by ERIA and IEEJ, 10 September 2020.
	Speaker, The Role of Natural Gas Toward Greening Society in ASEAN and East Asia: GECF-ERIA Joint Workshop by ERIA and GECF, 16 July 2020.
	Speaker, Online workshop on New Approaches to Measuring and Assessing Regional Cooperation and Integration by ADB, 16-17 April 2020.
Michikazu KOJIMA	Presenter, 'Status of National Data Availability on Marine Plastics Pollution for Policy Making and Monitoring in ASEAN Countries' at the 3RINCs 2021 Special Session/Webinar organized by Institute for Global Environmental Strategies (IGES), IGES Centre Collaborating with UNEP on Environmental Technologies (CCET), and ERIA, 16 March 2021.
	Presenter, 'Fields of Sciences Related to Marine Plastic Debris' at the Online Workshop 'Strengthening Capacity for Marine Debris Reduction and Waste Management in ASEAN Region through Knowledge Sharing on Marine Litter' organized by Coordinating Ministry for Maritime and Investment Affairs, Indonesia and the Ministry of the Environment, Japan, 25 February 2021.
	Presenter, 'Regional Knowledge Centre for Marine Plastic Debris (RKC-MPD)' at Asia-Pacific Network for Global Change Research Meeting, organized by Asia-Pacific Network (APN), 9 February 2021.
	Presenter, 'Strengthening Partnership between Public and Private on Marine Plastic Litter and Waste Management' at the Indonesia-Japan Environmental Week, organized by Ministry of Environment and Forestry, Indonesia and Ministry of Environment, Japan, 15 January 2021.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Presenter, 'Plastic Waste Management in Asia and the Pacific- Issues, Solutions and Case Studies' at the 10th Regional 3R and Circular Economy Forum in Asia and the Pacific, organized by Ministry of the Environment, Japan (MOEJ) and United Nations Centre for Regional Development (UNCRD), 8 December 2020.
	Presenter, 'How to Expand Waste Management Service to Rural Area? Regional Waste Management in Asian Countries' at the Side Event of SEA of Solutions 2020, organized by United Nations Environment Programme (UNEP), 24 November 2020.
	Presenter, 'Regional Knowledge Centre for Marine Plastic Debris (RKC-MPD)' at the 21st Meeting of the ASEAN Working Group on Coastal and Marine Environment (AWGCME), organized by AWGCME, 10 November 2020.
	Presenter, 'COVID-19 Pandemic and the Efforts of Reducing Marine Plastic Pollution' at the Regional Webinar on Reducing Marine Plastic Pollution during the COVID-19 Pandemic in ASEAN Countries, organized by Center for Southeast Asian Studies (CSEAS) and the Norwegian Institute for Water Research (NIVA), 18 August 2020.
	Presenter, 'ERIA: Regional Knowledge Centre for Marine Plastic Debris' at the 5th Meeting of the ASEAN Working Group on Chemicals and Waste (AWGCW), organized by AWGCW, 6 August 2020.
	Moderator, 'Municipal Solid Waste Management and Its Current or Potential Issue due to COVID 19' at the Online Joint Dialogue on Waste Management in the Context of COVID-19, organized by Economic Research Institute for ASEAN and East Asia (ERIA) and ASEAN Inter-Parliamentary Assembly (AIPA), 13 July 2020.
Osuke KOMAZAWA	Closing remarks, Webinar on Building Dementia-Friendly Community in Asia Pacific by ERIA, Japan Center for International Exchange and Health and Global Policy Institute, online, 25 March 2021.
	Speaker, 'Long-Term Care System of Japan', Benchmark Japan for Long-Term Care of Older Adults by Universiti Kebangsaan Malaysia, online, 26 January 2021.
	Moderator, 2nd Researchers Roundtable of AHWIN-Related ERIA Studies – Research Findings and a Discussion of the Impact of COVID-19 on the Cross-Border Movement of Care Workers by ERIA and Japan Center for International Exchange, online, 24 November 2020.
	Speaker, 'Findings of Longitudinal Study of Ageing and Health in Viet Nam (LSAHV)', International Workshop on Strengthening Stakeholders Cooperation in Promoting Active Ageing and Mental Health in ASEAN by ERIA, WHO, UNFPA, and the General Office for Population and Family Planning (GOPFP), the Ministry of Health (MOH) of Viet Nam, hybrid conference (online and Ha Noi, Viet Nam), 18 November 2020.
	Lecture, 'Population Ageing in Asia and Japan', Lecture series of 'Global Health' for undergraduate students by Tsuda University, online, 12 October 2020 (in Japanese).
	Opening remarks, Webinar on Responding to the Needs of Older People During COVID-19 Pandemic – Sharing Lessons Learned by ERIA and Japan Center for International Exchange, 29 May 2020.
Dionisius NARJOKO	Discussant, Dampak Pandemi Covid19, Tantangan dan Prospek Petrumbuhan Industri, Arah Kebijakan dan Strategi pada Struktur Industri Pengolahan Indonesia, Diskusi Kebijakan Industri Nasional by Ministry of National Planning Republic of Indonesia/Bappenas, 13 January 2021.
	Guest Speaker, Sustainable Economic Growth in the Post-Corona World during the Opening Ceremony of Ateneo Project for Asian and International Relations, Ateneo Model ASEAN Meeting (AMAM) 2020 by APAIR (Ateneo Project for Asian and International Relations), 11 December 2020.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Panelist, The Impact of Covid-19 on Foreign Businesses across ASEAN, Survey Launch by AnCham Indonesia & ERIA, 30 November 2020.
	Speaker, Global Supply Chain dan Peluang Ekspor Produk Industri Nasional, Pengembangan Sistem Infomasi Ketahanan Industri (SIKI) by Ministry of Industry Republic of Indonesia, 24 November 2020.
	Panelist, 9th ERIA Editors' Roundtable by ERIA, 5 November 2020.
	Speaker, Short Report on ERIA's call for proposal related to Covid-19 by Research Institute Network, Research Institute Network (RIN) Meeting in FY2020 by RIN, 27 October 2020
	Guest Lecture/Speaker, Emerging Issues in ASEAN Integration, International Lecture Week 2020: Fostering and Empowering an Entrepreneurial Environment through Digital Management by BINUS International, BINUS University, 21 October 2020
	Informant, Mid-Term Review (MTR) of the ASEAN Economic Community (AEC) Blueprint 2025, FGD with Research Institute by ASEAN Secretariat, 15 October 2020.
	Speaker, "RCEP and the World Trading System: Opportunities and Prospects", The 10th Asian Research Forum by CASS (Chinese Academy of Social Sciences, 14 October 2020.
	Participant, ASEAN Centrality: Towards Regional Collective Leadership and a Global Voice, ASEAN Infrastructure and Connectivity Virtual Roundtable by SIIA, ABER & ERIA, 30 September 2020.
	Speaker, Pembahasan Kerangka Konseptual Urgensi Revisi RIPIN 2015 – 2035, FGD RIPIN 2015 – 2035 by Minister of Industry Republic of Indonesia, 10 September 2020.
	Moderator, Supply Chain Connectivity for COVID-19 Response and Recovery, 11th ASEAN Connectivity Symposium by ASEAN Secretariat, 28 August 2020.
	Speaker, ASEAN MSMEs in a COVID-19 World by ERIA, 18 June 2020.
	Speaker, ASEAN and ASEAN+3 regional cooperation: potential and limitation to support regional recoveries, Focus Group Discussion by Ministry of Finance Republic of Indonesia, 9 June 2020.
	Speaker, Prioritas Isu Strategis dalam Keketuaan Indonesia pada ASEAN tahun 2023, Focus Group Discussion by Bank Indonesia, 20 Mei 2020.
	Discussant, Trade, Global Value Chains and Small and Medium-Sized Enterprises, Workshop by ADBI, 7 February 2020.
Anita PRAKASH	JEF-NZIIA Asia-Africa Forum by Japan Economic Foundation, 3-4 December 2020.
	Speaker, ISA-UN75 Dialogue - the contribution of the Global South to the future of multilateralism, by ISANET, 24 November 2020.
	Speaker, 2020 Western Australian-ASEAN Trade and Investment Dialogue, Unlocking Investment Opportunity by Perth USAsia center. 19 November 2020.
	Speaker, DevTalks series: Road to regional integration: what are the drivers and constraints? by OECD. 6 November 2020.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
	Moderator, Economic Outlook for Southeast Asia: Coping with COVID-19 in ASEAN--Challenges of Digitalisation by ERIA and OECD. 23 October 2020.
	UN LDC5 Conference (Session 1), by OECD Development Center, 21 October 2020.
	Speaker, 6th HLM of the Development Centre's Governing Board, by OECD Development Center, 6 October 2020.
	Presenter, Southeast Asia Regional Programme: Ensuring Sustainable Recovery through Resilient and Effective Infrastructure, by OECD, 6 October 2020.
	1stTERI-KAS Asia Pacific Workshop on "Opportunities and Challenges for a Blue Economy in Asia-Pacific region in COVID 19 world by The Energy and Resources Institute, 6-7 October 2020.
	T20 Summit Season Webinar (Task Force Webinar 3: Infrastructure Investment and Financing, by Secretariat T20 Saudi Arabia, 29 September 2020.
	Speaker and Organiser, AESCON 2020 Reveals How Improved Connectivity is the Way Forward for Asia-Europe Relations by AESCON. 22-25 September 2020.
	ERIA – UK Ambassador Lambe intro and UK-ASEAN Partnership: Economic and Technical Cooperation in Indo-Pacific, by ERIA and UK Government, 21 September 2020.
	India-Myanmar Convergence – International Webinar on Connect to Reconnect Chapter I, by MEA, Government of India and Inter-State Council Secretariat (ISCS), India, 1 August 2020.
	Speaker, ASEAN-EU Connectivity Seminar: Connecting our Connectivities: EU and ASEAN approaches to connectivity and possible synergies, by ASEAN, 1 July 2020.
Alloysius Joko PURWANTO	Speaker, Air Transport Connectivity between Asia and Europe by ESCON's Scientific Session 5, 25 September 2020.
Rashesh SHRESHTA	Speaker, "Reimagining the post-COVID ASEAN Economy," by The Habibie Center, 18 November 2020.
	Panelist, "The Future of Informal Economies," University of New South Wales ASEAN Conference, Australia, 17 October 2020.
	Panelist, "How COVID-19 accelerate digitalization and its impact on future of work," at APEC Webinar on the Impact of Covid-19 Pandemic on Future of Work, Malaysia, 9 October 2020.
	Panelist, "ERIA MSMEs Webinar Talk #6 - Upskilling to Succeed- ASEAN MSMEs in the Digital Economy" by ERIA, 8 October 2020.
	Moderator, "Fostering Regulatory Cooperation through Implementation of Good Regulatory Practices Principles in ASEAN: Sharing of Experiences and Best Practices," by ERIA, 15 July 2020.
	Panelist, "ERIA MSMEs Webinar Talk #2: Riding on the E-Commerce Bandwagon: Now or Never?" by ERIA, 9 July 2020.

RESEARCHER	ONLINE INTERNATIONAL WORKSHOPS/CONFERENCE/LECTURES
Kensuke UEDA	Presenter, 'Capacity Building Training on Economic Assessment of Long-Term Energy Projects', For Ministry of Mines and Energy in Cambodia by ERIA, 9 December 2020.
Fauziah ZEN	Speaker, FGD Road to G20 Bali 2022: Ekonomi Hijau Untuk Pemulihan Ekonomi. Indonesia Ministry of Finance, 10 March 2021.
	Policy Dialogue on Infrastructure, Technology, and Finance for Sustainable and Inclusive Development in Asia Beyond the Pandemic, by ADBInstitute, LPEM FEB UI, GraSPP, Toshiba, 19 February 2021
	Reconnecting East Asia. The 8th ASEAN Connectivity Forum, ASEAN-Korea Centre, ASEAN Secretariat, 19 January 2021, Seoul and Virtual Webinar.
	Overview of the economic situation and outlook in ASEAN Member States in "Safe re-opening of economies and communities in the 'new normal' era" Webinar. ASEAN Secretariat and GIZ. 19 January 2021.
	Fourteenth session of the UNECE Committee on Innovation, Competitiveness and Public-Private Partnerships, Geneva on 23-25 May 2020 (Room XVI, Palais des Nations), Virtual Meeting.
	Workshop of the Infrastructure Financing and Public-Private Partnership Network of Asia and the Pacific Resilient PPP Infrastructure Development for Recovery, UN ESCAP Bangkok, Virtual Meeting, 15 December 2020.
	Fourth session of the UNECE Working Party on Public-Private Partnerships, Geneva on 1-2 December 2020 (Salle Tempus 2, Palais des Nations), Virtual Meeting.
	Seminar on Maritime Highway Policy in Indonesia, 27 October 2020, National Development Agency, Republic of Indonesia.
	Academic Fourth Meeting of the Infrastructure Financing and Public-Private Partnership Network of Asia and the Pacific, UN ESCAP, Bangkok, Virtual Meeting, 15 October 2020

Annex H

Media Exposure

- 2021 -				
NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
1	Thailand fights poverty with lessons from China	China Daily	Mr Kavi Changkottavorn was quoted	31 March
2	Thais gain insights for battle against poverty	China Daily	Mr Kavi Changkottavorn was quoted	30 March
3	Russia's gamble in post-coup Myanmar	The Bangkok Post	Mr Kavi Chongkittavorn's op-ed was published	30 March
4	Southeast Asia Trapped Amid US-China Friction	The Irawaddy	Mr Kavi Chongkittavorn's op-ed was published	24 March
5	US must aim for SE Asia middle ground	The Bangkok Post	Mr Kavi Chongkittavorn's op-ed was published	23 March
6	Filipino rice scientist appointed UN Food Systems Champion	Business Mirror	ERIA's research's was mentioned	21 March
7	An ASEAN way to resolve the Myanmar crisis	East Asia Forum	Mr Kavi Chongkittavorn's op-ed was published	21 March
8	Webinar dissects how entrepreneurship, innovation will evolve post-pandemic	Borneo Bulletin	ERIA E-S-1 Webinar Series episode 1 : Futurecasting: E-S-I in ASEAN and East Asia - 2021 and Beyond was featured	20 March
9	Sustainability In Entrepreneurship Through Innovation Post Pandemic In ASEAN And East Asia	Brunei MOE	ERIA E-S-1 Webinar Series episode 1 : Futurecasting: E-S-I in ASEAN and East Asia - 2021 and Beyond was featured	18 March
10	Tiga Persiapan untuk Beralih ke Bensin Rendah Emisi Euro IV	Katadata	Dr Joko's op-ed was published	17 March
11	Can US, China cooperate on Myanmar?	The Bangkok Post	Mr Kavi Chongkittavorn's op-ed was published	16 March
12	Video talks set stage for crucial EAEU FTA meet	The Phnom Penh Post	Eria was mentioned	15 March

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
13	ASEAN's continued prosperity depends on integration	The China Daily	Dr Rashesh Shrestha's op-ed was published	25 February
14	India trade tumbles 26% in 2020	The Phnom Penh Post	ERIA's research was mentioned	25 February
15	Fewer PH families caring for elderly women – ADB	The Inquirer	ERIA's research was mentioned	14 February
16	Once bitten, twice shy over Myanmar	The Bangkok Post	Mr Kavi's op-ed was published	9 February
17	American First has morphed into First America	The Bangkok Post	Mr Kavi's op-ed was published	2 February
18	Thai, Myanmar people protest in Bangkok	NHK World	Mr Kavi was quoted	1 February
19	East Asian study on strategies for CO2 Emissions Reduction and Energy Reality and Emissions in ASEAN	Advanced Motor Fuels News Newsletter Issue No.3/2020	Two ERIA's research project report and discussion paper was mentioned	1 February
20	Post-pandemic Asean recovery	The Inquirer	Dr Rashesh Shrestha's op-ed was published	30 January
21	Antisipasi Dampak Cuaca Ekstrem dalam Pembangunan Infrastruktur	Kompas	Dr Joko was quoted	28 January
22	Thailand: In the eye of the coming storm	The Bangkok Post	Mr Kavi's op-ed was published	26 January
23	Rappler Talk: Kavi Chongkittavorn on Thailand's coronavirus vaccine strategy	Rappler	Mr Kavi was quoted	25 January
24	Synchronizing Indonesia's diesel fuel policy	The Jakarta Post	Dr Joko's op-ed was published	25 January
25	Bloc urged to focus on digitalisation	The Bangkok Post	Prof Kimura was quoted	25 January
26	Powering up on coal but at what cost?	The Phnom Penh Post	Dr Phoumin was quoted	21 January
27	Vietnam highlights ASEAN's need for task force against fake news	Vietnam Net, Viet Reader, Vietnam Times and VCCI	'ASEAN on Point' Public Forum Fake News: Tackling Disinformation in ASEAN which was held on 20 January 2021 was featured	21 January

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
28	Le Vietnam souligne la nécessité de former des équipes anti-fausses informations	Le Courrier VietNam	'ASEAN on Point' Public Forum Fake News: Tackling Disinformation in ASEAN which was held on 20 January 2021 was featured	21 January
29	Lawan Hoaks, Vietnam Usulkan ASEAN Bentuk Satgas	Liputan 6	'ASEAN on Point' Public Forum Fake News: Tackling Disinformation in ASEAN which was held on 20 January 2021 was featured	21 January
30	'Vaccine' needed to fight fake news: Panellists	The Straits Times	'ASEAN on Point' Public Forum Fake News: Tackling Disinformation in ASEAN which was held on 20 January 2021 was featured	21 January
31	Development strategy a must for recovery, growth	The Borneo Bulletin	Dr Rashesh Shrestha's op-ed was published	20 January
32	Vietnam highlights ASEAN's need for task force against fake news	VN Explorer	'ASEAN on Point' Public Forum Fake News: Tackling Disinformation in ASEAN which was held on 20 January 2021 was featured	20 January
33	Education, laws and private-public partnerships necessary to counter fake news in Asean: Experts	The Straits Times	'ASEAN on Point' Public Forum Fake News: Tackling Disinformation in ASEAN which was held on 20 January 2021 was featured	20 January
34	Vietnam highlights ASEAN's need for task force against fake news	The Vietnam Law Magazine, Vietnam Net, VN Explorer, Viet Rearder, Vietnam Times, VCCI	'ASEAN on Point' Public Forum Fake News: Tackling Disinformation in ASEAN which was held on 20 January 2021 was featured	20-21 January
35	RCEP pact can be lucrative but requires support	The Khmer Times	ERIA was mentioned	20 January
36	Brunei takes chair for year of recovery	The Scoop and The Bangkok Post	Mr Kavi's op-ed was published	19 January

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
37	'Key issues in post-pandemic ASEAN economic recovery' by	The Jakarta Post	Dr Rashesh Shrestha's op-ed was published	19 January
38	Japan plays guardian and gatekeeper of the CPTPP	The Straits Times	Prof Kimura was quoted	18 January
39	Malaysia promotes free data flow within ASEAN	The Vietnam Plus	Dr Lurong Chen was quoted	16 January
40	ASEAN perlu wujud dasar aliran data bebas	Harakah Daily	Dr Lurong Chen was quoted	15 January
41	The time is right for Thailand to join the CPTPP	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	16 January
42	Thailand's dilemma in Myanmar crisis	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	2 March
43	Thai-Aussie ties are on cloud nine	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	23 February
44	Thailand's three Myanmar strategies	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	9 March
45	FOCUS: Japan in balancing act with U.S. over sanctions on Myanmar	Kyodo News	Mr Kavi Chongkittavorn was quoted	11 February
46	Asean Must Tighten Screw on Myanmar Military: Thai Observer	The Irawaddy	Mr Kavi Chongkittavorn was quoted	22 February
47	Myanmar coup: Week from Feb. 20 to March 18, UN team urges whistleblowers to report illegal orders	Nikkei Asia	Mr Kavi Chongkittavorn was quoted	22 February
48	'Myanmar military intent on ruling from behind the scene'	Dhaka Tribune	Mr Kavi Chongkittavorn was quoted	24 February
49	Myanmar's crisis is ASEAN's crisis	Nikkei Asia	Mr Kavi Chongkittavorn was quoted	26 February
50	FOCUS: Side with citizens, not military, Myanmar expat tells Japan, ASEAN	Kyodo News	Mr Kavi Chongkittavorn was quoted	1 March
51	Pengamat Politik Internasional: Krisis Myanmar Ujian Keberanian ASEAN	Pikiran Rakyat	Mr Kavi Chongkittavorn was quoted	2 March
52	Constructive role stressed for Myanmar	ECNS	Mr Kavi Chongkittavorn was quoted	4 March
53	Escalating violence raises pressure for Myanmar sanctions	Kiro7	Mr Kavi Chongkittavorn was quoted	7 March

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
54	High palm oil price delays Indonesia's B40 biodiesel plan	The Jakarta Post	Dr Joko was quoted	22 February
55	Mendorong Kerja Sama Pembiayaan Infrastruktur di Asean	Investor Daily	Dr Fauziah was quoted	7 March
56	Tech Start-ups Deliver COVID-19 Relief	International Finance Corporation blog post	Dr Anbu was quoted	12 February
57	The role of smart cities in pandemic response	The Borneo Bulletin	Dr Anbu was quoted	16 February
58	Tech start-ups deliver COVID-19 relief	Daily FT	Dr Anbu was quoted	4 March
59	Startups Take Digital Leap To Convey COVID-19 Relief	Entrepreneur Asia Pacific	Dr Anbu was quoted	5 March
60	Real access Is key to women's participation in digital economy	The Jakarta Post, The Borneo Bulleting, The Manila Times, The Bangkok Post The ASEAN Post and The Star	Dr Giulia Ajmone Marsan's op-ed was published	1,2,5,7 March
61	Overcoming The Infodemic In ASEAN	The ASEAN Post, The Manila Times, The Bangkok Post, The Borneo Bulletin	Ms Lydia Ruddy's op-ed was published	10-11 March
62	Sarawak: Towards sustainable mobility	The Borneo Post	Prof Hidetoshi Nishimura was quoted	28 February
63	Recovery requires coordinated development	The Bangkok Post	Dr Rashesh Shrestha's op-ed was published	15 January
64	ASEAN forum to focus on sustainable infrastructure, digital innovation	The Korea Times	ERIA was mentioned	15 January
65	Lessons from the American insurrection	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	12 January
66	Can US, China cooperate on Myanmar?	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	16 March
67	US must aim for SE Asia middle ground	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	23 March
68	Russia's gamble in post-coup Myanmar	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	30 March
69	An ASEAN way to resolve the Myanmar crisis	East Asia Forum	Mr Kavi Chongkittavorn's oped was published	21 March

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
70	Southeast Asia Trapped Amid US-China Friction	The Irawaddy	Mr Kavi Chongkittavorn's oped was published	24 March
71	Thais gain insights for battle against poverty	China Daily	Mr Kavi Chongkittavorn was quoted	30 March
72	Thailand fights poverty with lessons from China	China Daily	Mr Kavi Chongkittavorn was quoted	31 March
73	Asean firms eye rebound in Q2	The Tribune Philippines	AmCham – ERIA Survey Launch 'The Impact of COVID-19 on Foreign Firms in ASEAN' was featured	10 January
74	Asean companies expect business to stabilize in Q2	Sunstar	AmCham – ERIA Survey Launch 'The Impact of COVID-19 on Foreign Firms in ASEAN' was featured	10 January
75	'21 not a better year – Indonesia	The Manila Times	Dr Lili Yan Ing's op-ed was published	6 January
76	'Reshaping ASEAN's Energy Landscape Post COVID-19'	Mashrae	Dr Phoumin's op-ed has been published	6 January
77	Thailand's 'make or break' jobs in 2021	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	5 January
78	Economic outlook 2021: Beware of prolonged recession	The Jakarta Post	Dr Lili Yan Ing's op-ed was published	5 January
79	Cambodia's debut as oil player hailed	The China Daily	Dr Phoumin was quoted	5 January
80	Cambodia's milestone in kicking off oil production improves prospects for regional energy security'	The China Daily	Dr Phoumin was quoted	4 January

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
1	Don't leave migrant workers behind	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	29 December
2	ASEAN's strategies to address new normal	The China Daily	Dr Anbu's op-ed was published	28 December
3	Report highlights MSMEs trends after Covid	The Manila Times	ERIA's MSMEs Webinar Report was featured	28 December
4	Transitioning MSME to post-Covid pandemic	The Tribune Philippines	ERIA's MSMEs Webinar Report was featured	27 December
5	A shot at moulding the future	The Borneo Bulletin	Dr Anbu's op-ed was published	22 December
6	Migrant workers need better welfare	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	22 December
7	Bangladesh PM Urges India To Sign Teesta Water-Sharing Deal	Benar News	ERIA's research was cited	18 December
8	Vetting China's diplomacy: A Thai view	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	10 December
9	ACRF: Potential green recovery, new social contract towards sustainable ASEAN future	The Jakarta Post	Dr Anbu's op-ed was published	10 December
10	South Korea President Moon Jae-in shows interest in joining CPTPP mega trade deal	The Strait Times	Prof Fukunari Kimura was quoted	8 December
11	Profesor Fukunari Kimura: Saat Ini Kesempatan Emas Indonesia Menarik Investor Jepang	Tribun News	Prof Fukunari Kimura was quoted	8 December
12	'Thai geostrategic value to woo Biden'	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	8 December
13	Sanctions have not prevented Russia from being Ukraine's top trading partner. Why?	112 Ukraine	ERIA was mentioned	7 December
14	Committed to tackling climate change	The Star	ERIA's participation in ASEAN Energy Business Forum 2020 was reported	7 December
15	Manfaat yang bisa didapatkan Indonesia dari kesepakatan RCEP	Kontan	ERIA's research was cited	3 December
16	RCEP signing hoped to boost Cambodia's economic upturn	Vietnam Plus	ERIA's research was cited	3 December

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
17	Cambodia signs world's largest free trade pact	The Phnom Penh Post	ERIA's research was cited	1 December
18	Modi calls for early review of free trade agreement	The Hindu Business Online	ERIA's research was cited	1 December
19	PM Modi underlines centrality of Asean in India's Act East policy	Indianapidnews	ERIA's research was cited	1 December
20	Modi calls for early review of free trade agreement	Shahi News	ERIA's research was cited	1 December
21	International workshop promoting active ageing, mental health in ASEAN underway	Vietnam Plus	ERIA's research was cited	1 December
22	Foreign firms eye $50-B FDI over 10 years	The Business World	AmCham – ERIA Survey Launch 'The Impact of COVID-19 on Foreign Firms in ASEAN' was featured	1 December
23	Some PHL-based foreign companies plan to reduce operations, survey shows	The Business World	AmCham – ERIA Survey Launch 'The Impact of COVID-19 on Foreign Firms in ASEAN' was featured	1 December
24	Dampak Pandemi, Kegiatan Bisnis di ASEAN Diproyeksi Mulai Pulih Kuartal II-2021	Kompas	AmCham – ERIA Survey Launch 'The Impact of COVID-19 on Foreign Firms in ASEAN' was featured	30 November
25	Chairman's Statement of the 37th ASEAN Summit: Cohesive and Responsive	Vietnam Plus	ERIA was mentioned in the Chairman's Statement of the 37th ASEAN Summit, statement 32	20 November
26	ASEAN committed to improve food security	The Borneo Bulletin	ERIA's participation in the 20th Meeting of the ASEAN Ministers on Agriculture and Forestry Plus Three was reported	19 November
27	Secretary General Ensures ASEAN Travel Corridor Will Realize Soon	Voi News	The 9th ERIA Editors' Roundtable was featured	18 November
28	Sekjen PBB Pastikan 'Travel Corridor' ASEAN Segera Terwujud	Cirebon Raya	The 9th ERIA Editors' Roundtable was featured	18 November

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
29	Sekjen pastikan "travel corridor" ASEAN segera terwujud	Antara News	The 9th ERIA Editors' Roundtable was featured	18 November
30	Sekjen PBB di ASEAN Pastikan Ada Kebijakan Perjalanan Khusus	Republika	The 9th ERIA Editors' Roundtable was featured	18 November
31	ASEAN's Digital Economy Not Growing Fast Enough	The ASEAN Post and The World News	ERIA's research was cited	17 November
32	Corporate learning platform Codemi secures seed funding from Bukalapak founder's Init 6	Tech in Asia	ERIA's research was cited	16 November
33	Supporting an evolving ecommerce ecosystem in Myanmar	Trade for Development News EIF	ERIA was mentioned	16 November
34	Should We Forget about the Asia-Africa Growth Corridor?	IFRI	ERIA was mentioned	16 November
35	ASEAN 2020: sub-regional development on table on AMM-53 first working day	Vietnam Plus	ERIA's participation in the 53rd ASEAN Foreign Ministers' Meeting was featured	5 November
36	ASEAN vows to enhance sub-regional cooperation	The Korea Times	ERIA's participation in the 53rd ASEAN Foreign Ministers' Meeting was featured	5 November
37	Preparation for Cambodia-Mongolia Free Trade negotiations kick-started	Khmer Times	ERIA was mentioned	5 November
38	FTA with Mongolia under study	The Phnom Penh Post	ERIA was mentioned	3 November
39	Addressing Older Persons' Vulnerability during the COVID-19 Pandemic	Relief Web	ERIA was mentioned	2 November
40	Older People, Got A Pandemic Problem? A Club To Help You Figure It Out — Yourself	Wamu, Cap Radio, and NPR	ERIA's HAPI Prize was mentioned	27,29,31 October
41	'11th ASEAN Connectivity Forum kicks off talks on regional recovery efforts'	Viet Reader	ERIA's participation in the 11th ASEAN Connectivity Symposium	23 September
42	Vietnam hosts 11th ASEAN Connectivity symposium	The Vietnam Plus	ERIA's participation in the 11th ASEAN Connectivity Symposium	23 September

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NO	TITLE OF NEWS ITEM OR ARTICLE	MEDIA WHERE IT APPEARED	EVENT/DETAILS	DATE
43	ASEAN Connectivity Holds Symposium On Comprehensive And Cohesive Recovery	Public Now	ERIA's participation in the 11th ASEAN Connectivity Symposium	23 September
44	ASEAN 2020: Vietnam hosts 11th ASEAN Connectivity symposium	Vietnam News Agency	ERIA's participation in the 11th ASEAN Connectivity Symposium	22 September
45	ASEAN, partners agree to promote post-COVID-19 economic cooperation	Vietnam Plus	ERIA's participation in EAS-EMM was featured	22 September
46	ASEAN perlu investasi "smart farming" untuk dukung ketahanan pangan	Antara News	'ASEAN on Point' Public Forum was covered	17 September
47	Ahli berikan empat rekomendasi terkait ketahanan pangan di ASEAN	Antara News	'ASEAN on Point' Public Forum was covered	17 September
48	Quality infrastructure for ASEAN sustainability	The Borneo Bulletin	Dr Han Phoumin's op-ed was published	16 September
49	ASEAN must aim for quality energy	The Phnom Penh Post	Dr Han Phoumin's op-ed was published	15 September
50	For the Sake of Cambodia's Future—Quit Coal	Cambodianess	Dr Han Phoumin's op-ed was published	14 September
51	ASEAN should aim high with quality energy infrastructure	The Jakarta Post and Flipboard	Dr Han Phoumin's op-ed was published	11 and 13 September
52	Energy Related Investments need to be Guided	Belt and Road News	Dr Han Phoumin's op-ed was published	9 September
53	Quality Energy Infrastructure For Sustainability	The ASEAN Post	Dr Han Phoumin's op-ed was published	8 September
54	Green energy future starts right now	The Borneo Bulletin	Dr Han Phoumin's op-ed was published	8 September
55	Pesan kuat HUT ke-53 ASEAN: normal baru, era baru	Antara News	Prof Fukunari Kimura was quoted by several media	3 September
56	ASEAN 'crisis like no other' shifts focus from COVID to economy	Nikkei Asia	Prof Fukunari Kimura was quoted by several media	3 September
57	'The New Normal Brings in a New Era but We Can Navigate Through the Path: a Strong Message Given at the ASEAN 53rd Anniversary Online Symposium Organized by AJC'	Baytown Sun	Prof Fukunari Kimura was quoted by several media	1 September

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
58	Strong message delivered at AJC-organised ASEAN 53rd Anniversary Symposium	Bernama	Prof Fukunari Kimura was quoted by several media	1 September
59	Spur global digital economy for next lap of growth: Chan Chun Sing	The Strait Times	Prof Fukunari Kimura was quoted by several media	31 August
60	Nations must develop digital economy, avoid setting up digital firewalls for next lap of growth, says Chan Chun Sing	The Strait Times	Prof Fukunari Kimura was quoted by several media	29 August
61	Nation expected to play leading role in regional, global recovery	China Daily	Dr Dionisius Narjoko was quoted	28 August
62	Signs of better days ahead	China Daily	Dr Dionisius Narjoko was quoted	28 August
63	Cambodia needs technocratic leaders to stay relevant in Industry 4.0	ASEAN Today	ERIA's publication 'Innovation Policy in ASEAN' was mentioned	28 August
64	Policy priorities for a digital ASEAN	Vietnam Investment Review	An op-ed by Dr Lurong Chen and Ms Lydia Ruddy was published	27 August
65	Commerce Journal	Commerce Journal	ERIA was mentioned	27 August
66	UK affirms support for ASEAN's economic ambitions, resilience against COVID-19	The Malaysian Reserve	ERIA was mentioned	26 August
67	EU business council touts waste reduction as potential investment draw	Business World	ERIA was mentioned	26 August
68	Marine lives matter: Plastic bag ban and further actions to reduce marine plastics	The Manila Times	Mr Michikazu Kojima, Ms Ellen Putri Edita, Mr Hendro Putra Johannes, and Mr Fusanori Iwasaki's op-ed was published	25 August
69	Marine Lives Matter	The ASEAN Post	Mr Michikazu Kojima, Ms Ellen Putri Edita, Mr Hendro Putra Johannes, and Mr Fusanori Iwasaki's op-ed was published	24 August
70	What's the deal with Cambodia and China's FTA?	The Phnom Penh Post	Dr Lili Yan Ing was quoted	24 August

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
71	'Technoeconomic Assessment of Mini-grids in Myanmar	Journal of Japan Institute of Energy	Dr Venkatachalam Anbumozhi is acknowledged as the contributing author	24 August
72	New dynamics of Asean's external ties	The Bangkok Post	Mr Kavi Chongkittavorn's op-eds was published	22 August
73	Thailand is not ready for the CPTPP	The Bangkok Post	Mr Kavi Chongkittavorn's op-eds was published	22 August
74	Sustaining diplomacy post-Covid	The Bangkok Post	Mr Kavi Chongkittavorn's op-eds was published	21 August
75	Thailand must rethink its quarantine	The Bangkok Post	Mr Kavi Chongkittavorn's op-eds was published	21 August
76	Australia walks a political tightrope	The Bangkok Post	Mr Kavi Chongkittavorn's op-eds was published	21 August
77	Self-Helping Intergenerational Club model in Vietnam became 2020 HAPI Grand Prize Winner	Vietnam Times	The Healthy Aging Prize for Asian Innovation (HAPI) Prize Winner was mentioned	18 August
78	HelpAge International in Viet Nam wins the first HAPI's grand prize	Biz Hub Vietnam, Viet Nam News, and Vietnam Investment Review	The Healthy Aging Prize for Asian Innovation (HAPI) Prize Winner was mentioned	14 and 16 August
79	How digital transformation on all levels will support the Post COVID-19 world	Romania Insider	ERIA was mentioned	13 August
80	Tackling marine plastic pollution together	The Jakarta Post and Myanmar Times	Mr Michikazu Kojima and Mr Fusanori Iwasaki's op-ed was published	12 and 13 August
81	Hydrogen a potential ASEAN green fuel	The Phnom Penh Post and The World News	Dr Han Phoumin's op-ed was published	11 August
82	Building Energy Efficiency To Employ ASEAN People	The ASEAN Post	Dr Han Phoumin's op-ed was published	9 August
83	Is Hydrogen missing piece in ASEAN's energy mix?	Press Reader	Dr Han Phoumin's op-ed was published	7 August
84	Hydrogen the missing piece of ASEAN green energy	The Jakarta Post	Dr Han Phoumin's op-ed was published	6 August

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
85	Scaling renewable energy in Asean: Hydrogen as the missing piece	The Manila Times	Dr Han Phoumin's op-ed was published	5 August
86	ASEAN should promote hydrogen use	China Daily	Dr Han Phoumin's op-ed was published	4 August
87	Surviving in the digital world	The Borneo Bulletin	Dr Rashesh Shrestha's op-ed was published	4 August
88	SMEs need right skills to shine in e-commerce	The Jakarta Post	Dr Rashesh Shrestha's op-ed was published	4 August
89	Natural gas boasts the potential to drive greening of Asean region	The Peninsula Qatar	GECF-ERIA Joint Workshop on LNG was mentioned	4 August
90	GECF organises joint online workshop with ERIA on natural gas role in Asean, East Asia	Gulf Times and Mena FM	GECF-ERIA Joint Workshop on LNG was mentioned	3 August
91	Can a Self-Reliance Strategy Pull India Out of Recession?	The Brink News	Dr Venkatachalam Anbumozhi's op-ed was published	2 August
92	Mekong sub-regional co-operation must converge with ASEAN goals: official	Viet Nam News	Prof Fukunari Kimura was mentioned	2 August
93	AIPA – ERIA (ECONOMIC RESEARCH INSTITUTE FOR ASEAN AND EAST ASIA) ONLINE JOINT DIALOGUE TO SUPPORT ON WASTE MANAGEMENT IN THE CONTEXT OF COVID-19 PANDEMIC	AIPA	'Waste Management in the Context of Covid-19 Pandemic' was feature	1 August
94	Asean can go beyond U.S.-China dynamic	The New Strait Times	Mr Kavi Chongkittavorn was quoted	1 August
95	Australia walks a political tightrope	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	31 July
96	China seeks stronger Asean ties	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	30 July
97	RCEP the key to East Asia's recovery	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	28 July
98	Crisis puts healthcare gender gap in spotlight	The China Daily	Ms Lydia Ruddy's op-ed was published	28 July
99	Assisting female COVID-19 heroes	The Borneo Bulletin	Ms Lydia Ruddy's op-ed was published	27 July

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NO	TITLE OF NEWS ITEM OR ARTICLE	MEDIA WHERE IT APPEARED	EVENT/DETAILS	DATE
100	'Menteri ESDM Paparkan Program Pengembangan Gas Nasional di Forum GECF-ERIA	Kontan	GECF-ERIA Joint Workshop on LNG was mentioned	27 July
101	Indonesia and Philippines are smart to make nuclear power plans	Nikkei Asia	Prof Jun Arima's op-ed title	27 July
102	ASEAN forum on sub-regional development opens	The Vietnam Plus	ERIA's report on the Mekong sub-region's development was mentioned	27 July
103	Limbah Padat Harus Dikendalikan	DPR - RI	ERIA-AIPA virtual dialogue on 'Waste Management in the Context of Covid-19 Pandemic' was featured	24 July
104	Tiểu vùng Mê Kông thịnh vượng giúp củng cố vị thế của ASEAN trong cấu trúc khu vực	Hanoimoi	Prof Fukunari Kimura was mentioned	21 July
105	Thai-US alliance comes with new twists	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	21 July
106	Going green: Energy efficiency through buildings	The Borneo Bulletin	Dr Han Phoumin's op-ed was published	21 July
107	Navigating ASEAN's post-COVID-19 energy transition	East Asia Forum	Dr Han Phoumin's op-ed was published	20 July
108	Heroes: Women and the cost of informal care	The Bangkok Post	Ms Lydia Ruddy's op-ed was published	20 July
109	Frontline Heroes: Women Health Care Workers	The ASEAN Post	Ms Lydia Ruddy's op-ed was published	20 July
110	Covid-19 highlights gender gap in aging care in Asean	The Manila Times	Ms Lydia Ruddy's op-ed was published	19 July
111	Engagement key to Sino-Thai ties	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	17 July
112	SI FA PRESTO A DIRE ASEAN	Limes	Dr Giulia Ajmone Marsan's op-ed was published	16 July
113	Il Sudest asiatico: al confine dell'epicentro	Aspenia online	Dr Giulia Ajmone Marsan's article was published	14 July
114	Reimagining global value chains after COVID-19	East Asia Forum	Prof Shujiro Urata's op-ed was published	14 July

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
115	Hydrogen: A game-changer for Asean	Flipboard, The Bangkok Post, and The Borneo Bulletin	Dr Han Phoumin's op-ed was published	10,13-14 July
116	Cambodia's Energy Strategy Condemned as Short-Sighted	The Cambodianess	Dr Han Phoumin was quoted	9 July
117	'Govt to slash diesel subsidy 50%, generate trillions in 2021 savings'	The Jakarta Post	Dr Alloysius Joko Purwanto was quoted	8 July
118	Xuất khẩu vào thị trường ASEAN: Doanh nghiệp Việt cần tập trung khai thác	Bao Binh Duong	Prof Fukunari Kimura was mentioned	7 July
119	Xuất khẩu vào ASEAN: Gắn với xu hướng tiêu dùng	Vinanet	Prof Fukunari Kimura was mentioned	7 July
120	How COVID-19 impacts Indonesia's trade	The Jakarta Post	Dr Lili Yan Ing's op-ed was published	2 July
121	Asean unity in the age of coronavirus	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	1 July
122	Sejumlah Upaya Hadapi Perubahan Perilaku Konsumen di Masa Transisi New Normal	Industry	Dr Dionisius Narjoko was quoted	1 July
123	Perubahan Perilaku Konsumen di Masa Transisi New Normal, Bagaimana Pemilik Usaha Menghadapinya?	Bengkulu Today	Dr Dionisius Narjoko was quoted	1 July
124	ASEAN leaders urge cooperation to rebuild economies	The China Daily	Dr Venkatachalam Anbumozhi was quoted	1 July
125	Post COVID-19: Reviving the Asean economy with digital transformation	Hellenic Shipping News and The Edge Markets	ERIA's recently published brief was mentioned	30 June
126	Breaking down barriers to recovery	Tienphong News, Vietnam Investment Review, VN Explorer and Vietnam Net	Mr Salvador Buban and Dr Doan Thi Thanh Ha's op-ed titled 'Breaking Down Barriers to Recovery' was published	27-30 June
127	7 secrets of Thai Covid-19 success	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	26 June
128	From COVID-19 containment to economic cure: An ASEAN action agenda	The Jakarta Post	Dr Venkatachalam Anbumozhi's op-ed was published	25 June

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
129	European Union Funding to Help Cambodia Build Clean Energy Capacity	Cambodianess	Dr Han Phoumin was quoted	25 June
130	From Covid-19 containment to economic cure: An action agenda for Asean	The Manila Times	Dr Venkatachalam Anbumozhi's op-ed was published	24 June
131	Implementing Indonesia's COVID-19 stimulus	East Asia Forum	Dr Lili Yan Ing's op-ed written together with Ms Yessi Vadila was published	23 June
132	Vietnam leads Asean into post-virus era	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	23 June
133	Sector's development poised to open more doors for Asian financial centers	China Daily	Dr Lurong Chen was quoted	22 June
134	Ideal time to paint a greener future	The Borneo Bulletin	Dr Han Phoumin's op-ed was published	20 June
135	Embracing renewables, clean technologies to decarbonize emissions in ASEAN post-COVID-19	The Korea Times	Dr Han Phoumin's op-ed was published	19 June
136	Post-virus shift can boost renewables	The Bangkok Post	Dr Han Phoumin's op-ed was published	19 June
137	Embracing renewables and clean technologies to decarbonize emissions in Asean for post Covid-19	The Manila Times	Dr Han Phoumin's op-ed was published	19 June
138	Rebooting connectivity after Covid-19	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	18 June
139	Coronavirus sheds light on gender divide	The Borneo Bulletin	Dr Giulia Ajmone Marsan and Ms Lydia Ruddy's op-ed was published	17 June
140	Post-pandemic ASEAN must bridge digital gender divide	The Jakarta Post and The Star	Dr Giulia Ajmone Marsan and Ms Lydia Ruddy's op-ed was published	15 and 16 June
141	EMI's COVID-19 Response	Insead	Dr Fauziah's commentary on EMI's COVID-19 Response Special Feature has been posted	13 June
142	Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters	Springer	Dr Venkatachalam Anbumozhi and Prof Fukunari Kimura's book was published	13 June

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
143	'Implementing Indonesia's COVID-19 stimulus'	East Asia Forum Quarterly	Dr Lili Yan Ing's op-ed written together with Ms Yessi Vadila was published	12 June
144	Modi's repackaging of old industrial policy won't salvage India	East Asia Forum	Ms Anita Prakash's op-ed was published	9 June
145	Re-energising Thai-US relations	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	9 June
146	Virtual Jakarta Forum on ASEAN-China Relations 2020 – ASEAN-China Cooperation in Dealing with the COVID-19 Pandemic	Metro TV	Ms Lydia Ruddy's participation on 'Virtual Jakarta Forum on ASEAN-China Relations 2020' was featured	7 June
147	From containment to recovery: rescuing the ASEAN from crisis	Vietnam Investment Review and Vietnam Net	Dr Venkatachalam Anbumozhi's op-ed was published	2 June
148	Asean told to ease trade and boost connectivity amid Covid-19 pandemic	Business Mirror	ERIA's newly released policy brief was mentioned	1 June
149	Indonesia's clean energy program faces setback, ETI ranking plunges	The Jakarta Post	Dr Alloysius Joko Purwanto was quoted	29 May
150	RCEP talks shouldn't leave India out	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	28 May
151	Low Carbon Future	Global Solutions Journal	ERIA's research: Low Carbon Future by Dr Anbu– What role for Central banks and Monterey Authorities? Was published	18 May
152	Repatriation of Thais needs ramping up	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	17 May
153	Bankruptcy fears loom large over most airlines	The Borneo Bulletin	Dr Alloysius Joko Purwanto was quoted	16 May
154	Time to turn virus crisis into opportunity	The Borneo Bulletin	Dr Venkatachalam Anbumozhi was quoted	15 May

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
155	Cabaraban: How vulnerable is Northern Mindanao from Covid-19? (2nd of 2 parts)	Sunstar	ERIA's research: Longitudinal Study of Aging and Health in the Philippines was discussed	15 May
156	Post-pandemic Asean must bridge the digital gender divide	The Manila Times and The Nation Thailand	Dr Giulia Ajmone Marsan and Ms Lydia Ruddy's oped was published	12 and 13 May
157	'Digital gender divide' is getting wider	The Bangkok Post	Dr Giulia Ajmone Marsan and Ms Lydia Ruddy's oped was published	12 May
158	Market Design for Multilateral Trade of Electricity in ASEAN: A Survey of the Key Components and Feasibility	Asian Economic Papers	Dr Yanfei Li is acknowledged as the contributing author	11 May
159	Cabaraban: How vulnerable is Northern Mindanao from Covid-19? (First of 2 parts)	Sunstar	ERIA's research: Longitudinal Study of Aging and Health in the Philippines was mentioned	10 May
160	Free-trade talks continue despite the pandemic	Khmer Times	ERIA's research about the FTA between Cambodia and the EAU was mentioned	8 May
161	Watershed Thai media moment?	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	30 April
162	Saving Southeast Asia from another economic crisis	East Asia Forum	Dr Giulia Ajmone Marsan's oped which was written together with Andrea Goldstein was published	28 April
163	Asean urged to ramp up migrant screening	The Bangkok Post	ERIA's newly published policy brief about COVID-19 was mentioned	28 April
164	Blueprint For A Sustainable Future	The ASEAN Post and The Japan Times	Dr Venkatachalam Anbumozhi's oped was published	25 and 28 April
165	Community engagement is key to check virus	The Borneo Bulletin	Dr Venkatachalam Anbumozhi was quoted	25 April

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NO	**TITLE OF NEWS ITEM OR ARTICLE**	**MEDIA WHERE IT APPEARED**	**EVENT/DETAILS**	**DATE**
166	Covid-19 in Southeast Asia – challenges ahead	Aspenia online	Dr Giulia Ajmone Marsan's oped which was written together with Andrea Goldstein was published	25 April
167	Kudos to Thai Covid-19 fighters	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	24 April
168	Indonesia's best hope of a Covid-19 cure is its communities	The Nation Thailand	Dr Venkatachalam Anbumozhi's oped was published	22 April
169	Will COVID-19 Devastate the Indian Economy?	The Brink News	Dr Venkatachalam Anbumozhi's oped was published	21 April
170	'What Covid-19 Outbreaks Means for The Indian Economy?'	Dinalamar	Dr Venkatachalam Anbumozhi's oped was published	15 April
171	'Covid Catch-22: Saving lives or rights?'	The Bangkok Post	Mr Kavi Chongkittavorn's oped was published	14 April
172	'COVID-19 and the 'zoom' to new global value chains'	East Asia Forum	Prof Fukunari Kimura's op-ed which was written together with Christopher Findlay and Shandre Thangavelu was published	13 April
173	Covid Catch-22: Saving Lives or Rights?	Bangkok Post	Mr Kavi Chongkittavorn's oped was published	7 April

Annex I
Publications

Books

NO	TITLE	EDITOR(S)	ISBN
1	Ageing and Health in Viet Nam	Nguyen Cong Vu, Mai Thi Tran, Linh Thuy Dang, Choy-Lye Chei, Yasuhiko Saito	978-602-54602-7-2
2	Assessing the Readiness of Industry 4.0 and the Circular Economy	Venkatachalam Anbumozhi, Krishnamurthy Ramanathan, Heinrich Wyes	978-6-025460-28-9
3	E-commerce Connectivity in ASEAN	Lurong Chen and Fukunari Kimura	978-602-5460-24-1
4	Energy Outlook and Energy Saving Potential East Asia 2020	Shigeru Kimura and Han Phoumin	978-602-5460-32-6
5	Human Resources for the Health and Long-term Care of Older Persons in Asia	Yuko Tsujita and Osuke Komazawa	978-602-5460-29-6
6	Interconnected Government: International Regulatory Cooperation in ASEAN	Derek Gill	978-602-5460-25-8
7	Older People and COVID 19 in Indonesia	Osuke Komazawa, Ni Wayan Suriastini, Ika Yulia Wijayanti, Maliki, Dinar Dana Kharisma	978-602-5460-31-9
8	Subregional-Development-Strategy-in-ASEAN-after-COVID-19	Fukunari Kimura	978-602-5460-30-2

Research Project Reports

NO	TITLE	EDITOR(S)/AUTHOR(S)	NUMBER
1	Biomass and Coal Co combustion ASEAN Phase 2	Edited by Murakami Kazuyuki, Yamada Fumiko and Han Phoumin	RPR-FY2020-22
2	Brunei Darussalam Shifting to Hydrogen Society	Prepared by Economic Research Institute for ASEAN and East Asia and Brunei National Energy Research InstituteChiyoda Corporation	RPR-FY2020-04

NO	TITLE	EDITOR(S)/AUTHOR(S)	NUMBER
3	Brunei Darussalam Energy Consumption Survey Residential and Commercial and Public Sectors	Prepared by Economic Research Institute for ASEAN and East Asia and Brunei National Energy Research Institute	RPR-FY2020-03
4	Demand and Supply Potential of Hydrogen Energy in East Asia-Phase-2	Edited by Shigeru Kimura, Ichiro Kutani, Osamu Ikeda and Ryo Chihiro	RPR-FY2020-16
5	Energy Efficiency and Conservation Master Plan of Cambodia	Edited by Shigeru Kimura, Han Phoumin, and Leong Siew Meng	RPR-FY2020-07
6	Energy Storage for RE Integration Prospects of Hydrogen	By Yanfei Li and Farhad Taghizadeh-Hesary	RPR-FY2020-09
7	Energy Supply Security Study for Myanmar	Prepared by Oil and Gas Planning Department, Ministry of Electricity and Energy of the Republic of the Union of Myanmar	RPR-FY2020-11
8	Evaluation of CO_2 Emissions Reduction EAS	Edited by Makoto Toba, Shinichi Goto, Shoichi Ichikawa, Nuwong Chollacoop and Venkatachalam Anbumozhi	RPR-FY2020-15
9	Feasible Solutions to Deliver LNG Indonesia	Edited by Shigeru Kimura, Setsuo Miyakoshi, Alloysius Joko Purwanto, I Gusti Suarnaya Sidemen, Cecilya MalikSuharyati, and Dian Lutfiana	RPR-FY2020-18
10	Improving Nuclear Safety Use An International Analysis	Edited by Tomoko Murakami and Venkatachalam Anbumozhi	RPR-FY2020-10
11	India Myanmar Thailand Trilateral Highway and Its Possible Extension Integrative Report	Prepared by ERIA team	RPR-FY2020-02A
12	India Myanmar Thailand Trilateral Highway ant Its Possible Extension Background Papers	Prepared by ERIA team	RPR-FY2020-02B
13	Joint Study on 10+3 Cooperation for Improvement of Supply Chain Connectivity	Prepared by Economic Research Institute for ASEAN and East Asia	RPR-FY2020-20
14	Mongolia's Energy Efficiency Indicators-2019	Study conducted by Mongolian Energy Economics Institute	RPR-FY2020-17
15	Myanmar Energy Outlook 2020	Study conducted by Oil and Gas Planning Department, Ministry of Electricity and Energy of the Union of Myanmar	RPR-FY2020-01
16	Outcome of Long-term Care Insurance Service in Japan	Edited By Xueying Jin, Kazuaki Uda, and Osuke Komazawa	RPR-FY2020-13

NO	TITLE	EDITOR(S)/AUTHOR(S)	NUMBER
17	Pioneering an Integrated Rehabilitation System and Human Resource Development.pdf	Edited by Chika Hamasaki, Masaki Nishio, Mihoko Nakayama and Osuke Komazawa	RPR-FY2020-05
18	Public Perception Acceptance Nuclear Power Stakeholder Issues Community Solutions	Edited by Tomoko Murakami and Venkatachalam Anbumozhi	RPR-FY2020-08
19	Regional Waste Management Inter municipal Cooperation and PPP	Edited By Michikazu Kojima	RPR-FY2020-12
20	Securing the Resilience of Nuclear Infrastructure against Natural Disasters	Edited by Tomoko Murakami Venkatachalam Anbumozhi	RPR-FY2020-06
21	Study on the Potential for the Promotion of Carbon Dioxide	Edited by Shigeru Kimura, Kikuko Shinchi, Shunsuke Kawagishi and Ulysses Coulmas	RPR-FY2020-21
22	Temburong Ecotown Development---Phase-4	Edited by Shigeru Kimura, Alloysius Joko Purwanto, Keisuke Ueda, Leong Siew Meng, and Kazuhisa Fujioka	RPR-FY2020-19
23	The Influence on Energy and the Economy of Electrified Vehicle Penetration in ASEAN	Edited by Shigeru Suehiro and Alloysius Joko Purwanto	RPR-FY2020-14

Discussion Papers

NO	TITLE	AUTHOR(S)	NUMBER
1	A Quantitative Analysis of Disaster Risk Reduction Investment Effects for Sustainable Development	Hiroaki Ishiwata, Hiroyuki Wada, Koji Suzuki, Makoto Ikeda and Naoto Tada	334
2	Analysis of Global Value Chain Participation and the Labour Market in Thailand	Upalat Korwatanasakul, Youngmin Baek, Adam Majoe	331
3	Assessment of Industrial Cluster Policies in Viet Nam The Role of Special Economic Zones in Attracting Foreign Direct Investment	Dao Ngoc Tien and Nguyen Quynh Huong	333
4	Birth Order, Sibling Sex Composition, and Quantity–Quality Trade offs India	Ilke Onur and Malathi Velamuri	362
5	Child Education Rethinking Microcredit in Cambodia	Kimty Seng	357
6	Demand and Supply Shocks of COVID-19 and International Production Networks Evidence from Japan's Machinery Trade	Mitsuyo Ando	366
7	Determinants of School Enrolment Minimum Wage and Human Capital	Dyah Pritadrajati	356

NO	TITLE	AUTHOR(S)	NUMBER
8	Does Change in Intellectual Property Rights Induce Demand for Skilled Workers Evidence from India	Pavel Chakraborty and Prachi Gupta	347
9	Economic Damage from Natural Hazards and Local Disaster Management Plans	Makoto Ikeda and Thawatchai Palakhamarn	346
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23	Potential Renewable Hydrogen Curtailed Electricity ASEAN Clean Energy	Han Phoumin, Fukunari Kimura and Jun Arima	352
24	Robotics Technology and Firm-level Employment Adjustment in Japan	Bin Ni and Ayako Obashi	348
25	Sustainable Water Resource Development Water Diplomacy in the Lower Mekong Basin	Han Phoumin, To Minh Thu, and Thim Ly	339

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28	The Composition of Financial Inclusion in ASEAN and East Asia	Rajabrata Banerjee and Ronald Donato	341
29	The COVID-19 Pandemic and the World Trade Network	Kozo Kiyota	365
30	The Effects of Financial Inclusion on Development Outcomes: New Insights from ASEAN and East Asian Countries	Rajabrata Banerjee, Ronald Donato, and Admasu Afsaw Maruta	342
31	The Effects of Prenatal Exposure to Plentiful Rainfall on Cognitive Development in Viet Nam	Nobuaki Yamashita and Trong-Anh Trinh	352
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33	The Link Between Global Value Chain Activity and Local Human Capital_Indonesia	Rashesh Shrestha and Deborah Winkler	360
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35	The Poverty-Reducing Effects of Financial Inclusion	Kimty Seng	343
36	The Role of Innovation in Skill Development: Evidence from SMEs in Viet Nam	Duc Anh Dang and Vuong Anh Dang	355
37	The Value Added Tax Reform and Labour Market Outcomes: Firm Level Evidence from China	Yuxiang Yang and Hongyong Zhang	337
38	The Economic Impact of Globalisation in Indonesia	Kiki Verico and Mari Elka Pangestu	338
39	Trade Reform and the Evolution of Agglomeration in Vietnamese Manufacturing	Ha Thi Thanh Doan and Huong Quynh Nguyen	330
40	Understanding Quality Energy-Related Infrastructure Development in the Mekong Subregion_Key Drivers and Policy Implications	Han Phoumin, Sopheak Meas and Hatda Pich An	363

Policy Brief

NO	TITLE	AUTHOR(S)	POLICY BRIEF NUMBER
1	ASEAN Development and Innovation Strategy in the Era of New Industrialisation	Masahito Ambashi	2020-06
2	COVID-19 and Southeast and East Asian Economic Integration	Hidetoshi Nishimura and Dionisius Narjoko	2020-01

NO	TITLE	AUTHOR(S)	POLICY BRIEF NUMBER
3	Exit Strategy for ASEAN Member States Keeping Production Networks	Fukunari Kimura	2020-03
4	Implications of the COVID-19 Crisis for the Energy Sector and Climate Change	Hidetoshi Nishimura and Jun Arima	2020-02
5	Improving Digital Connectivity Policy Priority for ASEAN Digital	Lurong Chen and Lydia Ruddy	2020-07
6	Maintaining Fiscal Sustainability during the Pandemic Crisis	Fauziah Zen and Fukunari Kimura	2020-04
7	Strengthening Waste Management Policies to Mitigate the COVID-19 Pandemic	Hidetoshi Nishimura, Michikazu Kojima, Fusanori Iwasaki, Hendro Putra Johannes and Ellen Putri Edita	2020-05
8	Under the Radar IRC ASEAN New Zealand	Derek Gill and Edo Setyadi	2020-08
9	Women's Participation in the Digital Economy ASEAN	Giulia Ajmone Marsan and Araba Sey	2020-09

Co-Publications

NO	TITLE	EDITOR(S)	PUBLISHER	ISBN
1	Asia-Africa Growth Corridor: Development and Cooperation in Indo-Pacific	Anita Prakash	Springer	978-981-1555-49-7
2	Energy Sustainability and Development in ASEAN and East Asia	Phoumin Han, Farhad Taghizadeh-Hesary, Fukunari Kimura	Routledge	978-036-7459-12-3
3	Financial Inclusion in Asia and Beyond Measurement, Development Gaps, and Economic Consequences	Tony Cavoli and Rashesh Shrestha	Routledge	978-036-7476-88-5
4	Non-Tariff Measures in Australia, China, India, Japan, New Zealand, and the Republic of Korea: Preliminary Findings	Denise Penello Rial, Muhammad Rizqy Anandhika	UNCTAD	-
5	Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters	Anbumozhi, Venkatachalam, Kimura, Fukunari, Thangavelu, Shandremugan	Springer	978-981-15-2870-5
6	The Effects of Globalisation on Firm and Labour Performance	Shujiro Urata, Dionisius Narjoko, Doan Ha	Routledge	978-036-7507-09-1

Annex J

Capacity Building and Strategy & Partnership Event List

Capacity Building

DATE	EVENT	PLACE	ORGANISER	SUPPORTER
29 March 2021	Review of gap assessment results by stakeholders	Cambodia	ERIA CB Ministry of Commerce	Australian Government
22 March 2021	Services, Urban Amenities, Global Value Chain: New Growth Paths	Lao PDR	ERIA CB, Ministry of Industry and Commerce	Australian Government
22 February 2021	Enhancing Food Supply Chain Resilience and Food Security in ASEAN with Utilization of Digital Technologies	Lao PDR Viet Nam	ASEAN	
15 February 2021 - ongoing	Regulatory Stock Take to Support Implementation of the RCEP Agreement Provisions on E-Commerce	Lao PDR	ERIA CB Ministry of Industry and Commerce	Australian Government
3-15 February 2021	Regulatory Stock Take to Support Implementation of the RCEP Agreement Provisions on E-Commerce	Cambodia	ERIA CB Ministry of Commerce	Australian Government
29-30 January 2021	Study on Services, Economic Liberalization and Global Production Value-Chain: Managing the Second and Third Stage Unbundling in East Asia	Cambodia Lao PDR Myanmar	ERIA Research ERIA CB	
2 December 2020	Module 9: E-commerce and Women	Cambodia	ERIA CB Ministry of Commerce	Australian Government
25 November 2020	Module 8: E-Commerce Negotiations at the WTO	Cambodia	ERIA CB Ministry of Commerce	Australian Government
18 November 2020	Module 7: Supporting MSMEs to Buy/Sell Online	Cambodia	ERIA CB Ministry of Commerce	Australian Government
11 November 2020	Module 6: Trade Logistics and Trade Facilitation for E-Commerce	Cambodia	ERIA CB Ministry of Commerce	Australian Government

DATE	EVENT	PLACE	ORGANISER	SUPPORTER
4 November 2020	Module 5: Legal and Regulatory Aspects of E-Commerce: Cross-Border Regulations	Cambodia	ERIA CB Ministry of Commerce	Australian Government
29-30 October	Study on Cities, Urban Amenities and Global Production Value Chain: New Developments in Trade and Services Liberalization in East Asia and ASEAN	Cambodia Lao PDR Myanmar Viet Nam	ERIA Research ERIA CB	
28 October 2020	Module 4: Legal and Regulatory Aspects of E-Commerce: Domestic Regulations	Cambodia	ERIA CB Ministry of Commerce	Australian Government
21 October 2020	Module 3: E-Commerce in ASEAN and RCEP	Cambodia	ERIA CB Ministry of Commerce	Australian Government
14 October 2020	Module 2: E-Commerce in RGC Policies and in Donors' Strategy	Cambodia	ERIA CB Ministry of Commerce	Australian Government
7 October 2020	Module 1: Basics of E-Commerce for Trade and Other Services Sector Officials	Cambodia	ERIA CB Ministry of Commerce	Australian Government
5 October 2020	Introductory Session	Cambodia	ERIA CB Ministry of Commerce	Australian Government
19 August 2020	Module 7: Trade Logistics and Trade Facilitation for E-Commerce	Myanmar	ERIA CB Ministry of Commerce	Australian Government
13-14 August 2020	Webinar: Pandemic Policy, Growth and Economic Cooperation	Cambodia	ERIA CB Ministry of Commerce	Australian Government
12 August 2020	Module 6: Aid for e-Trade	Myanmar	ERIA CB Ministry of Commerce	Australian Government
11-12 August 2020	Webinar: Pandemic Policy, Growth and Economic Cooperation	Lao PDR	ERIA CB Ministry of Planning and Investment	Australian Government
5 August 2020	Module 5: E-Commerce Negotiations at the WTO	Myanmar	ERIA CB Ministry of Commerce	Australian Government

DATE	EVENT	PLACE	ORGANISER	SUPPORTER
29 July 2020	Module 4: Legal and Regulatory Aspects of E-Commerce: Cross-Border Regulations	Myanmar	ERIA CB Ministry of Commerce	Australian Government
22 July 2020	Module 3: Legal and Regulatory Aspects of E-Commerce: Domestic Regulations	Myanmar	ERIA CB Ministry of Commerce	Australian Government
15 July 2020	Module 2: Supporting MSMEs to Buy/Sell Online	Myanmar	ERIA CB Ministry of Commerce	Australian Government
8 July 2020	Module 1: Basics of E-Commerce for Trade and other Services Sector Officials	Myanmar	ERIA CB Ministry of Commerce	Australian Government
27-28 May 2020	First Webinar: Pandemic Policy, Trade and Economic Cooperation	Myanmar	ERIA CB Ministry of Foreign Economic Relations	Australian Government
7 April 2020	Needs Analysis Survey to Promoting Greater Understanding of E-Commerce	Cambodia, Lao PDR, Myanmar	ERIA CB	Australian Government
1 April – 15 May 2020	Analysis of Draft Decree on E-commerce	Lao PDR	ERIA CB	Australian Government

Strategy and Partnership Event List

DATE	EVENT	ORGANISER	SUPPORTER
4 March 2021	ERIA Entrepreneur, Start-Up and Innovation (E-S-I) Webinar Series Episode 1: Futurecasting E-S-I in ASEAN and East Asia 2021 and beyond	ERIA SPP	Australian Government
8 December 2020	Webinar on Non-Tariff Measures in ASEAN and East Asia	ERIA SPP UNCTAD	Australian Government
3 December 2020	ERIA MSMEs Webinar Talk #10 on ASEAN MSMEs in a COVID-19 World: Innovation Eco-systems and the Roles of ASEAN Start-ups and MSMEs	ERIA SPP	Australian Government
27 November 2020	Webinar on Cities in the World: A New Perspective on Urbanisation	ERIA OECD	Australian Government

DATE	EVENT	ORGANISER	SUPPORTER
19 November 2020	ERIA MSMEs Webinar Talk #9 on ASEAN MSMEs in a COVID-19 World: The Rise of Fintech and Digital Payments- Pandemic and Beyond	ERIA SPP	Australian Government
8 November 2020	ERIA MSMEs Webinar Talk #8 on ASEAN MSMEs in a COVID-19 World: Women in STEM and the Digital Economy- ASEAN Perspective	ERIA SPP	Australian Government
28 October 2020	The ASEAN-ERIA Dialogue on Digital Trade	ERIA SPP ASEAN Secretariat	Australian Government
27 October 2020	Webinar on Robust Economies Regional Impacts of COVID-19 and Options for Recovery	ERIA SPP New Zealand Mission to ASEAN	Australian Government
22 October 2020	ERIA MSMEs Webinar Talk #7 on ASEAN MSMEs in a COVID-19 World: Agility and Resilience of Micro Businesses Now and Post Pandemic	ERIA SPP	Australian Government
8 October 2020	ERIA MSMEs Webinar Talk #6 on ASEAN MSMEs in a COVID-19 World: Upskilling to Succeed ASEAN MSMEs in the Digital Economy	ERIA SPP	Australian Government
24 September 2020	ERIA MSMEs Webinar Talk #5 on ASEAN MSMEs in a COVID-19 World: Sustainability Practices for MSMEs in a COVID-19 World and Beyond	ERIA SPP	Australian Government
21 September 2020	Webinar Talk on The Impact of COVID-19 on Australian Businesses Across ASEAN	ERIA SPP Australian Chamber (AustCham)	Australian Government
3 September 2020	ERIA MSMEs Webinar Talk #4 on ASEAN MSMEs in a COVID-19 World: Women Entrepreneurs Amidst COVID-19	ERIA SPP	Australian Government
30 July 2020	ERIA MSMEs Webinar Talk #3 on ASEAN MSMEs in a COVID-19 World: Overcoming GVC Disruptions – Thinking Out of the Box	ERIA SPP	Australian Government
9 July 2020	ERIA MSMEs Webinar Talk #2 on ASEAN MSMEs in a COVID-19 World: Riding on The E-Commerce Bandwagon: Now or Never? – Perspectives From ASEAN MSMEs	ERIA SPP	Australian Government
12 August 2020	Webinar with ERIA Governing Board Members on Economic Impact of COVID-19 in ASEAN: Perspectives from Four Countries	ERIA SPP	Australian Government
18 June 2020	ERIA MSMEs Webinar Talk #1 on ASEAN MSMEs in a COVID-19 World: Overcoming Challenges to Succeed in the New Normal	ERIA SPP	Australian Government

DATE	EVENT	ORGANISER	SUPPORTER
9 June 2020	The ASEAN Secretariat Virtual Expert Brainstorming on The Fourth Industrial Revolution in ASEAN:4IR for the Society	ERIA SPP and PDD ASEAN Secretariat	Australian Government
5 June 2020	The ASEAN Secretariat Virtual Expert Brainstorming on The Fourth Industrial Revolution in ASEAN:Special Session	ERIA SPP and PDD ASEAN Secretariat	Australian Government
2 June 2020	The ASEAN Secretariat Virtual Expert Brainstorming on The Fourth Industrial Revolution in ASEAN:The Economy of 4IR	ERIA SPP and PDD ASEAN Secretariat	Australian Government
20 May 2020	The ASEAN Secretariat Virtual Expert Brainstorming on The Fourth Industrial Revolution in ASEAN: Cybersecurity and Governance in the Era of 4IR	ERIA SPP and PDD ASEAN Secretariat	Australian Government
18 May 2020	The ASEAN Secretariat Virtual Expert Brainstorming on The Fourth Industrial Revolution in ASEAN:4IR Globally in the Region	ERIA SPP and PDD ASEAN Secretariat	Australian Government

Knowledge products (publications and videos)

DATE	EVENT	ORGANISER	SUPPORTER
November 2020	Event report: ASEAN MSMEs in a COVID-19 World: Lessons from MSMEs Talks 1-5	ERIA SPP & Publication	Australian Government
January 2021	Event report: ASEAN MSMEs in a COVID-19 World. Innovation and Skills for the Post-pandemic Recovery Lessons from MSMEs Talks 6-10.	ERIA SPP & Publication	Australian Government
February 2021	Discussion paper: Gender Digital Equality Across ASEAN	ERIA SPP & Publication	Australian Government
February 2021	Policy brief: Women's Participation in the Digital Economy: Improving Access to Skills, Entrepreneurship, and Leadership across ASEAN	ERIA SPP & Publication	Australian Government
July 2020	Video: The Future of Work in ASEAN – New Opportunities, New Skills	ERIA SPP & Communication	Australian Government
December 2020	Video: ASEAN MSMEs in a COVID-19 World	ERIA SPP & Communication	Australian Government
March 2021	Video: Women and the Digital Economy	ERIA SPP & Communication	Australian Government

About ERIA

The Economic Research Institute for ASEAN and East Asia (ERIA) is an international organisation providing research and policy support to ASEAN and the broader East Asia region and the ASEAN and East Asia summit processes. ERIA's policy research focuses on three pillars: deepening economic integration, narrowing developing gaps, and achieving sustainable development in the region.

ERIA's establishment was formally agreed amongst 16 heads of government at the Third East Asia Summit in Singapore on 21 November 2007. It works closely with the ASEAN Secretariat, researchers, and research institutes from East Asia.

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