

The 3rd Asian Innovation Forum (AIF)

Towards Better Asia: Seeking New Possibilities of Innovation

Draft Agenda

OVERVIEW

With its vast growth potential, Asia has emerged as a global innovation powerhouse during the past decades. The expanded innovation horizon of the region presents us all with exciting opportunities as well as new challenges. On the one hand, technological breakthroughs and innovative approaches have enabled us to achieve unprecedented levels of productivity and efficiency. However, the innovation process is also accompanied by risks and uncertainties. This uncertainty is expected to become even greater upon the onset of the Fourth Industrial Revolution and its impact on future employment. In order to address increasing uncertainty and the collapse of existing systems, more inclusive and collaborative responses are urgently needed. Enhanced international cooperation and multinational dialogue will be critical to advancing innovations for greater societal impact.

For the last two years, Korea Institute of S&T Evaluation and Planning (KISTEP) has organized the Asian Innovation Forum (AIF) to open up channels of communication between the key actors of Asian innovation. The forum has led the way in bringing together innovative leaders, policymakers, and researchers to address the region's key innovation issues. We hope to continue this momentum and take the next step forward as a platform that drives innovation of the region.

This year, **the 3rd Asian Innovation Forum** will be held on **August 29th** in Seoul, Korea, organized by KISTEP in partnership with the ECO Science Foundation (ECOSF) from Pakistan and S&T Policy Research and Information Center (STPI) from Taiwan. The **AIF** will continue to explore new approaches and solutions to emerging issues on innovation and promote collaboration among participating think tanks. The innovation experiences and development strategies you share will take us a step closer *towards better Asia*.

Organizer



Partners



ECOSF
ECO SCIENCE FOUNDATION



NAR Labs 財團法人國家實驗研究院
科技政策研究與資訊中心
Science & Technology Policy Research and Information Center

The 3rd Asian Innovation Forum Agenda

9:00 – 9:30		Registration			
9:30 – 10:15		Opening Ceremony			
9:30 – 10:15		<ul style="list-style-type: none"> Welcome remark by President Kichul Lim, KISTEP Congratulatory Remarks 			
10:15 – 10:45	Keynote Session I	The Road to Inclusive Innovation in the Era of the 4th Industrial Revolution Myung-Ja Kim (President, The Korean Federation of Science and Technology Societies (KOFST))			
10:45 – 11:30	Keynote Session II	The Role of Asian Innovation in Supporting Global Economic Growth Richard B. Dasher (Director, US-Asia Technology Management Center, School of Engineering, Stanford University)			
11:30 – 13:00		Networking Lunch			
	General Session I	Fostering Creative Talents in the 4 th Industrial Revolution Era	General Session II	Knowledge Translation of Research Findings – Fostering Startup Ecosystem	General Session III
	Chair: Laoucine Kerbache (Chief Innovation Strategist, QF R&D)		Chair: Yuh-Jzer Joung (Director-General, STPI)		Chair: Manzoor Hussain Soomro (President, ECOSF)
13:00 – 15:00	<ul style="list-style-type: none"> Roles of Science Museum in Fostering Creative Talents Aphiya Hathayatham (Vice President, National Science Museum, Thailand) Fostering Students' Creative Talents in the Era of the Fourth Industrial Revolution: Southeast Asian Context R. Indarjani (Deputy Director, Quality Improvement of Teachers and Education Personnel (QITEP) in Science, Indonesia) Policy Formulation Framework for Preparing Youth Entrepreneurs Becoming Innovation Players in Global Market Aini Suzana Hj Ariffin (Senior Lecturer, Perdana School of STI Policy, Universiti Teknologi Malaysia (UTM), Malaysia) The HRST Strategy to Lead the Future in the Fourth Industrial Revolution Era Jinha Kim (Associate Research Fellow, KISTEP) 		<ul style="list-style-type: none"> Bring Foresight to Innovation Stephen Su (General Director, Industrial Economics and Knowledge Center, Industrial Technology Research Institute (ITRI), Taiwan) Growing Korean Startup Ecosystem Jungwook Lim (Managing Director, Startup Alliance, Korea) Taiwan Innovation Ecosystem Ching-Yao Huang (Professor, Department of Electronics Engineering, National Chiao Tung University, Taiwan) From IP to IPO: The Opportunity and Challenge of Encouraging the Startups from Academy in Taiwan Hsiao-Feng Teng (Assistant Researcher, Science & Technology Policy Research and Information Center (STPI), National Applied Research Laboratories (NARLabs), Taiwan) 		<ul style="list-style-type: none"> Government R&D Investment and Strategy for Green Innovation in Korea Ji-Ho Hwang (Director General, Office of National R&D Coordination, KISTEP) Sustainable Energy Growth - Malaysian Experience Azah Ahmad (Director, Renewable Energy Technology, Sustainable Energy Development Authority (SEDA), Malaysia) The Role of Academia in Developing Sustainable Energy Solutions for the Future Muhammad Bilal Khan (Head, Principal Center for Advanced Studies in Energy at National University of Science and Technology (NUST), Pakistan) Seoul Sustainable Energy Action Plan; One Less Nuclear Power Plant Initiative Yeonji Kim (Director, Citizen's Energy Cooperation Division, Climate & Environment Headquarter, Seoul Metropolitan Government, Korea) Mind the Gap- Case for Large Scale Mini-gird Development, Closing the Gap on Energy Poverty Gulshan Vashistha (Green Investment Specialist, Investment and Policy Solutions Division, Global Green Growth Institute)
15:00 – 15:30		Coffee Break			
	Plenary Session	New Paradigms of R&D Systems			
	Chair: Kichul Lim (President, KISTEP)				
15:30 – 17:30	<ul style="list-style-type: none"> New Economic Opportunities: Crossing the Innovation Chasm Hazami Habib (Chief Executive Officer, Academy of Sciences Malaysia (ASM), Malaysia) Evidence-Based Informed Design of Science, Technology and Innovation System Shigeharu Kato (Director General, National Institute of Science and Technology Policy (NISTEP), Japan) Innovation Capacity-building in Enterprises: Policy and Practices in China Rongping Mu (Director General, Chinese Academy of Sciences Center for Innovation and Development (CASCID), China) Fundamental Asymmetries and Incentive Designs for Public R&D Evaluation So Young Kim (Head, Graduate School of Science and Technology Policy, Korea Advanced Institute of Science and Technology (KAIST), Korea) 				
17:30 –		Networking Reception			

The schedule may be subject to change.

General Session I

Fostering Creative Talents in the Era of the Fourth Industrial Revolution

As the fourth industrial revolution emerges, new spectrum of human life will come with development of technology. Automation, digital platforms and other innovations trigger a paradigm shift, and there is growing uncertainty in how types of human labor and demands of human resources will be changed. Recently, new systems and education models have been tried out to promote different learning methods for future talents such as Flipped classroom, Inquiry Based Science Education (IBSE), Massive Open Online Courses (MOOC) and Project-Based Learning. Fostering creative talents with leadership and resilience is essential to prepare for the transformation, and related policy and reform of education system must be discussed to enhance the current systems. How should learning and training be done to overcome the shortening shelf-life of existing skill sets? What policy implementation will nurture people with creativity and intellectual agility? Which direction should standards and practices promote to cultivate innovation leaders? This session will explore ideas and activities that strengthen development of talents, and overview innovation policies for human resources.

General Session II *(Organized by STPI)*

Knowledge Translation of Research Findings – Fostering Startup Ecosystem

In this session, fostering startup ecosystem will be discussed by experts from government, industry and academia in Taiwan and Korea. Strategies to couple industry knowhow and sensitivity with the technical prowess of R&D and how the coupling helps to grow startups will be presented, by providing trend analysis for industry and the government. Picturing the future environment and social needs, the transformation mechanism should be further applied to make the outcome of Technology Foresight effectively align social consensus, and guide innovation by national policy. Experiences from diverse startup communities and network from Silicon Valley to Boston to Seoul will be shared to compare different ecosystems of growing startups. From academia, Innovation & Entrepreneurship program in universities that allows incubators and accelerators to be involved in the innovation ecosystem will be discussed. Strong business resources linking national innovation ecosystem to global innovation ecosystem will be considered as well. One of the most famous and well-known programs incubating startups from academy in Taiwan will be also shared. The experience in encouraging local universities and research institutes to push their research outcomes ahead to foster knowledge translation of research findings will be presented.

General Session III *(Organized by ECOSF)*

Green Innovation for Sustainable Future

Asia is home to over 4 billion people, and about 44 million people are being added to Asia's urban population annually. According to an estimate by 2030, over 750 million people in Asia will be at climate change risks, energy consumption will rise by 54%, and over 80% of Asia's population will experience water scarcity. Energy access remains a challenge for Asia and the Pacific, with over 600 million people are without access to clean and reliable energy services. However, with its potential to reverse global climate change, sustainable energy industry can effectively address this challenge. This particular industry sector has seen an unprecedented and rapid growth over the last decade. As renewable energy technologies continue to reach grid parity coupled with the reality of climate change, energy security and improved energy storage; many countries are experiencing widespread transition from fossil fuel based to sustainable energy solutions. These renewable energy technologies can improve lives of people, particularly in the developing region, which will be crucial to drive inclusive and sustainable growth in Asian countries. An overarching phenomenon is the 4th Industrial Revolution, with its new disruptive technologies and innovations, such as smart grids and decentralized contracts are unlocking the potential of clean technology markets. This session will highlight and explore sustainable energy technologies for inclusive and sustainable growth in Asia. The session will bring together experts, scientists and governments to create a shared understanding of the role of governments, academia and business to promote clean and renewable energy industry in Asia to achieve a sustainable future.

Plenary Session

New Paradigms of R&D Systems

One of the key aspects for assuring long-term competitiveness is knowledge-based development, and this idea has led to the rapid increase of R&D investment in many countries. Asia takes a leading role in R&D, ten of them placing at the Top 40 R&D spending countries, however, the quality levels of development activities and performance still remain below that of major countries. In spite of limited resources, R&D systems must achieve enhanced productivity and improved effectiveness, such that they become a solid foundation to support the knowledge-based development. There are new demands on the systems to not only contribute on economic growth but also to address social issues, and new paradigms of the systems are shifting from technology-driven to demand-driven. Which direction should the new systems take? How should the evaluation within the new systems be conducted? What factors challenge the priority setting? How should overlapping funds be avoided, and on what basis should basic and applied sciences be prioritized? This session will discuss new paradigms, share best practices and measures to improve the design, implementation and effectiveness of R&D system to maximize the impact on the society.