

Training Workshop on STI Policies for Sustainable Development in the Fourth Industrial Revolution

Incheon, Sejong, Republic of Korea

19-22 March 2019

Organized by

United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP),
Science and Technology Policy Institute, Republic of Korea (STEPI),

In collaboration with

Asia-Pacific Research and Training Network on STI Policy (ARTNETonSTI)

Introduction

The United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) and the Science and Technology Policy Institute (STEPI) of the Republic of Korea are hosting a training workshop on science, technology and innovation (STI) policies for sustainable development, with a particular focus on developing STI policies for frontier technologies and public innovation. This training is prepared in partnership with the newly launched Asia Pacific Research and Training Network on STI Policy (ARTNET on STI Policy).

The 2030 Agenda for Sustainable Development identifies STI as a key means of implementing the SDGs; this is also echoed in the UNESCAP Regional Roadmap for Implementing the 2030 Agenda for Sustainable Development in Asia and the Pacific, emphasizing the importance of sharing experiences and capacity building on technology and innovation.

In light of this, UNESCAP, STEPI and ARTNET on STI Policy support building the capacity of countries in the Asia-Pacific region to respond to the changing STI policy landscape, particularly with regards to a) the shift towards an integrated sustainable development approach to STI policy, b) the emergence of frontier technologies and the 4th Industrial Revolution, and c) innovations within the public sector to enhance policy making and service delivery.

Programme

Day 1, 19 March (Tuesday) – 6th Floor, G-Tower, Songdo, Incheon, Republic of Korea

- 0900-0930 **Registration**
- 0930-1000 **Opening Remarks by UNESCAP-ENEA**
Ganbold Baasanjav, Head of Office, ESCAP East and North-East Asia
- Congratulatory Remarks by STEPi**
Cho Hwang-Hee, President, Science and Technology Policy Institute, Republic of Korea
- 1000-1020 **Group Photo**
- 1020-1040 **Ice breaker**
- 1100-1200 **STI Policy and the SDGs**
Understand the role of STI policies in national development, particularly the integration of sustainability and inclusion into STI policy.
Marta Pérez Cusó, Economic Affairs Officer, United Nations ESCAP
- 1200-1330 **Lunch**
- 1330-1500 **Policy Design & Evaluation**
Understand approaches to designing an STI policy based on national contexts, and a way to measure the success of the policy.
Young Rak Choi, Professor, Korea University and adviser to the Minister of Science and Technology, Ethiopia
- 1500-1530 **Coffee break**
- 1530-1630 **Frontier Technologies**
Understand the potential impacts of frontier technologies, and policy responses to frontier technologies from East and North-East Asia.
Jun-seok Hwang, Professor, Seoul National University Department of Industrial Engineering
Sabrina Luk, Assistant Professor, Nanyang Technological University
- 1630-1730 **Public Service Innovation**
Understand the potential for innovation within the public sector and how communities can help drive social change.
Joshua Chambers, Founder and Managing Director at GovInsider

Day 2, 20 March (Wednesday) - 6th Floor, G-Tower, Songdo, Incheon, Republic of Korea

- 1000-1200 **Role of Government Overview**
Understand the overview of roles government policy plays in science, technology and innovation.
Jae-Yun (Jane) Ho, Policy Research Associate, Centre for Science, Technology & Innovation, the University of Cambridge,
Satoru Ohtake, Deputy Director, Tokyo College of Forefront Study, University of Tokyo, Visiting Professor, Policy Alternatives Research Institute, University of Tokyo.
- 1200-1330 **Lunch**
- 1330-1500 **Catch-up and Leapfrog**
Understand the core components of a national research strategy and how that integrates with a national industrial policy.
Xudong Gao, Associate Professor, Tsinghua University, Research Center for Technological Innovation
Xielin Liu, Professor, University of Chinese Academy of Sciences
- 1500-1530 **Coffee Break**
- 1530-1700 **Law and Regulation**
Understand the role law and regulation plays in creating markets, enabling innovation while protecting consumers and citizens.
Jin Chen, Professor, Department of Innovation, Entrepreneurship and Strategy, Tsinghua University
Eunjung Kim, Senior Research Fellow, Korea Legislation Research institute

Day 3, 21 March (Thursday) – STEPI, Sejong City, Republic of Korea

- 0800-1030 **Arranged travel to Sejong (departure from Holiday Inn Lobby at 0800 sharp)**
- 1030-1200 **Human Capital**
Understand the approaches to building knowledge and skills for the era of the Fourth Industrial Revolution.
Jian Xi Teng, Programme Officer, Section for Educational Innovation and Skills Development, UNESCO Bangkok Office
Sunyang Chung, Professor of Technology Management and Policy, Department of Technology Management, School of Business, Konkuk University
- 1200-1400 **Lunch**
- 1400-1415 **Introduction to STEPI**
- 1415-1500 **Promoting Linkages and PPPs**
Understand the linkages between government, private sector and civil society, as well as between countries for effective STI policy.
Masaru Yarime, Associate Professor, HK University of Science and Technology, Division of Public Policy
Johng-ihl Lee, Professor, SUNY (State University of New York) Korea, Department of Technology and Society
- 1500-1515 **Coffee Break**
- 1515-1600 **Promoting Linkages and PPPs continued**
- 1600-1930 **Arranged travel back to Incheon (Arrival at Songdo Holiday Inn)**

Day 4, 22 March (Friday) – Hwaseong and Pangyo, Gyeonggi-do, Republic of Korea

- 0900-1000 **Arranged travel to Seoul**
Departure from Holiday Inn Lobby
- 1000-1200 **Fieldtrip location 1: K-City**
K-City was opened in 2018 as a testing site for autonomous vehicles. It spans 320,000 square meters and is the first of its kind to be connected by a 5-G network. The facility is designed to mimic real-world road conditions and features courses simulating highways, downtown areas, tunnels, toll gates, suburban streets and more. Some of the country's most prominent companies such as Naver, Samsung, and Hyundai Motor Group use the space to test new technology and products.
- 1200-1330 **Lunch**
- 1330-1600 **Fieldtrip location 2: Pangyo Technovalley**
Pangyo Techno Valley is the tech and startup hub of the Republic of Korea. The industrial complex houses some of the country's most prominent companies in the fields of information technology, bio technology, and cultural technology. Pangyo first opened in 2011, and it now houses 1,270 companies and 74,000 employees. It has also attracted several foreign firms; more than 70 foreign start-ups from 25 countries have made Pangyo their home. Two more Techno Valleys are in the works and are expected to be completed by 2019 and 2022.
- 1600-1700 **Arranged travel back to Incheon**
Arrival at Songdo Holiday Inn