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Welcome to Korea Innovation Week at the World Bank Group (WBG).

I would like to extend a warm welcome to all Korean participants, representing the 40 Korean partner institutions and seven government ministries.

Technology and innovation are important drivers of global development. They are changing the traditional pathways to development and creating new opportunities, but they are also posing new risks. Harnessing the potential for faster development while managing the risks is a challenge for many developing countries.

The Republic of Korea sets an example for how this can be done. It is one of the few countries that has successfully transformed from a low-skilled, labor-intensive economy to a high-skilled and knowledge- and technology-intensive economy. Promoting an innovative and “creative” economy has long been a national priority.

Today, Korea is a global leader in innovation and technology. Once known as an assembly manufacturer and producer of wigs and sneakers, Korea is now known for high-tech homegrown companies, such as Samsung, SK, and Hyundai, and for exporting memory chips, smart phones, and advanced ships. In 2019, Korea was ranked as the world’s most innovative country in the Bloomberg Innovation Index.

Working together, the WBG and Korea can support other developing countries as they learn and benefit from Korea’s experience. This is a central element of the strong partnership that has been forged over the past six decades.

As a key shareholder of the WBG, Korea provides important financial contributions to the WBG, especially through the International Development Association (IDA)—the WBG’s fund for the world’s poorest countries—and through trust funds. Korea is also an important source of knowledge and innovation: we are working together on cutting-edge development topics such as green growth, financial innovation, private sector development, and technology and innovation. The WBG Korea office serves as an anchor for our collaboration.

I am pleased to co-host Korea Innovation Week with Executive Director Kunil Hwang. This is a unique opportunity for us to further strengthen our partnership. I hope you will learn from Korea’s development story—especially its experience in technology and innovation—and forge partnerships to find concrete ways to serve our client countries.

And please enjoy the cultural and culinary programs that are part of Korea Innovation Week.

Thank you.

Victoria Kwakwa
Vice President for East Asia and Pacific Region
The World Bank
Welcome to Korea Innovation Week.

It is my great pleasure to co-host Korea Innovation Week with Victoria Kwakwa, Vice President for East Asia and Pacific. Korea Innovation Week will showcase WBG-Korea partnerships on innovation and technology and provide new opportunities for partnerships and collaborations.

Korea’s relationship with the WBG dates back to 1955, when Korea joined the International Bank for Reconstruction and Development (IBRD). At the time, Korea was one of the poorest countries in the world. Its first World Bank project was an International Development Association (IDA) loan for US$14 million to expand and improve the national railroads. The project was the start of a long and productive partnership. Benefiting from decades of support from the World Bank, in just half a century Korea joined the ranks of donor countries.

Having relatively recent memories of poverty, Korea understands the urgency felt by developing countries to promote growth and raise the living standards of their citizens. It is why Korea is an active supporter of the World Bank’s mission to eliminate extreme poverty and promote shared prosperity. Sixty-five years after Korea’s IBRD membership, the relationship between Korea and the WBG has evolved into a mutually beneficial partnership.

Korea has now become an important donor and development partner of the WBG. In the recent IDA19 replenishment, Korea pledged to increase its contribution to US$451 million. The support to the Korea–World Bank Partnership Facility (KWPF) will grow to US$140 million during the period 2019–22. The Korea Green Growth Trust Fund (KGGTF) is a major trust fund that Korea supports to promote green sustainable growth in developing countries. The WBG Korea office is central to the WBG-Korea partnership. It is building new programs to become a global center for innovation and technology, working closely with the Korea-financed trust funds.

The focus on innovation and technology reflects Korea’s own development experience. Korea successfully developed by upgrading its technology capabilities and becoming a knowledge-based economy. It is now building smart cities, rolling out cutting-edge 5G networks, adopting disruptive green innovations, promoting a booming technology startup sector, and preparing the next generations for the future workplace. Korea believes that developing countries can similarly harness disruptive technologies to promote their development.

Korea Innovation Week is a testament to both the importance of disruptive technologies for development and the partnership between Korea and the World Bank Group.

I look forward to seeing you at Korea Innovation Week to share new ideas and promote new partnerships on innovation and technology.

Thank you.

Kunil Hwang
Executive Director of the Republic of Korea
World Bank Group
The Korea-WBG Partnership Week for Innovation and Technology (Korea Innovation Week) showcases the partnership between the Republic of Korea and the WBG on promoting innovation and technology for development and seeks to create new opportunities for partnerships and collaborations. Korea Innovation Week is co-hosted by the Victoria Kwakwa, the WBG's Vice President for East Asia and Pacific, and Kunil Hwang, the World Bank's Executive Director of the Republic of Korea.

Korea Innovation Week takes place at the World Bank headquarters in Washington, DC, from February 18 to February 20, 2020. It brings together more than 40 Korean partner institutions and the World Bank's Global Practice (GP) and regional staff and International Finance Corporation (IFC) staff to discuss innovation and technology partnerships achieved so far and explore new partnership opportunities.

The plenary session will feature speakers and a panel discussion on disruptive technologies for development. It will be followed by thematic workshops up to February 20, organized around five topics: (a) digital economy and 5G, (b) smart cities, (c) green innovations, (d) education and skills for the future workplace, and (e) promotion of innovation and entrepreneurship. Related information booths will be displayed in the atrium of the MC building of the World Bank, which will also feature a special exhibition of Korea’s development history. A welcome reception on the evening of February 18 will include a piano performance that incorporates digital technology.

Program at a Glance

February 18 – February 20, 2020
Main Complex (MC) building, WBG Headquarters
1818 H Street, NW Washington, DC 20433 USA

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## DAY 2

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<th>Time</th>
<th>Location</th>
<th>Event Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>09:15-11:30</td>
<td>MC Atrium</td>
<td>Workshop: Green Innovation 1</td>
<td>Circular Economy and Disruptive Agriculture Technology</td>
</tr>
<tr>
<td>09:30-11:00</td>
<td>MC 2-800</td>
<td>Workshop: The Future of Education and Skills 1</td>
<td>Developing Skills for Future Jobs</td>
</tr>
<tr>
<td>10:00-16:30</td>
<td>MC C2-350 &amp; MC 13-121</td>
<td>Workshop: Smart Cities 2</td>
<td>MOLIT-WBG Joint Smart City Workshop</td>
</tr>
<tr>
<td>10:00-11:30</td>
<td>MC 7-860</td>
<td>BBL: Innovation and Entrepreneurship 2</td>
<td>Promoting Financial Innovation: The Case of Korea</td>
</tr>
<tr>
<td>11:30-14:00</td>
<td>MC C1</td>
<td>Culinary Events</td>
<td></td>
</tr>
<tr>
<td>12:00-13:30</td>
<td>MC 2-800</td>
<td>Workshop: Innovation and Entrepreneurship 3</td>
<td>Finance and Innovation Support for SMEs and Startups</td>
</tr>
<tr>
<td>13:30-15:00</td>
<td>MC 10-100</td>
<td>Workshop: Green Innovation 2</td>
<td>Agriculture Observatory</td>
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<tr>
<td>13:30-15:00</td>
<td>MC 4-140</td>
<td>EFI Chief Economist Seminar</td>
<td>Promoting Innovation and Technology in Korea</td>
</tr>
<tr>
<td>14:00-17:00</td>
<td>MC 2-800</td>
<td>Workshop: Digital Economy and 5G 2</td>
<td>Korean 5G and Korea’s Startup Ecosystem</td>
</tr>
<tr>
<td>14:00-15:30</td>
<td>MC 5-100</td>
<td>Workshop: The Future of Education and Skills 2</td>
<td>Promoting Learning through SMART Classrooms</td>
</tr>
<tr>
<td>14:30-17:30</td>
<td>MC C2-350</td>
<td>Workshop: Green Innovation 3</td>
<td>Innovation and Technology in Forestry</td>
</tr>
<tr>
<td>16:00-17:30</td>
<td>MC 5-100</td>
<td>Workshop: The Future of Education and Skills 3</td>
<td>Big Data and AI-supported Job Matching Platform</td>
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## DAY 3

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<tr>
<td>09:30-11:00</td>
<td>MC 9-100</td>
<td>Workshop: The Future of Education and Skills 4</td>
<td>Skills Forecasting and its Application in Korea and the United States</td>
</tr>
<tr>
<td>12:30-14:00</td>
<td>MC 9-100</td>
<td>BBL: The Future of Education and Skills 5</td>
<td>Korea’s Migration System</td>
</tr>
<tr>
<td>12:30-16:00</td>
<td>MC 7-860</td>
<td>Workshop: Green Innovation 4</td>
<td>Best Practices on Disaster Risk Modeling &amp; Management</td>
</tr>
<tr>
<td>14:00-15:30</td>
<td>MC 9-100</td>
<td>Workshop: The Future of Education and Skills 6</td>
<td>Fostering Skills through Socio-emotional Learning and Meister Schools</td>
</tr>
</tbody>
</table>
1. Overall WBG-Korea Partnership

WBG Korea Office, Korea-financed WB trust funds, knowledge sharing partnerships (Korea Program for Operational Knowledge, Knowledge-Sharing Program), and co-financing and Economic Development Cooperation Fund (KEXIM)

2. Digital Economy and 5G

Korea’s communications technology development history and innovative digital technology (Big Data, AI, IoT) solutions: infectious disease prevention (KT); safety management (GSIL); coding education (LUXROBO); green energy (Hylium Industries); eye-tracking software for VR (Visual Camp); and animal health management (AID Korea)

3. Smart Cities

Korea’s urban planning and development history, Sejong National Smart City Project (LH); Smart Water Management and Busan National Smart City Project (K-Water); Smart City Land Administration and Geospatial Technology (LX)

4. Green Innovation

Korea’s innovative approaches applied to environmental and agricultural sectors and providing an opportunity to explore future partnerships (KEITI, KECO, KRC, RDA, EPIS)

5. Education and Skills for the Future Workplace

Korea’s cutting-edge technologies applied to education and jobs: Digital literacy test (HRD Korea); Public job matching online system carrying AI technology (KEIS); Improvement of education quality (KICE); Integration of ICT in education (KERIS); Siheung Smart Campus project (SNU)

6. Promoting Innovation and Entrepreneurship

Korea’s technology appraisal and credit guarantees for tech-based SMEs (KOTEC)

7. Korea’s Development History Exhibition

A special exhibition and guided tour on Korea’s economic development history (GKEDC)

*Please refer to Annex 1 for the acronyms of Korean Institutions*
OPENING PLENARY SESSION
Opening Remarks
- Shaolin Yang, Managing Director and Chief Administrative Officer, World Bank Group
- Yongbeom Kim, First Vice Minister, Ministry of Economy and Finance
- Kunil Hwang, Executive Director of the Republic of Korea, World Bank Group

Keynote Speech
Shahid Yusuf, Chief Economist of the Growth Dialogue at The George Washington University and a longtime scholar of Korea and innovation policies, will speak about innovation and technology, Korea’s development experience, and the potential for a partnership between the WBG and Korea to help developing countries harness innovation and technology for development.

Overview of the WBG-Korea Partnership
Hoon Sahib Soh, Special Representative (Country Manager) of the WBG Korea office, will provide an overview of Korea Innovation Week and WBG-Korea partnership on innovation and technology.

Panel Discussion
The panel will discuss the impact of innovation and technology on development and the importance of international partnerships, particularly WBG-Korea partnerships, to support developing countries in their efforts to harness innovation and technology for development.

Moderator: Victoria Kwakwa, Vice President for East Asia and Pacific, World Bank

Panel members:
- Akihiko Nishio, Vice President of Development Finance, World Bank
- Karin Finkelston, Vice President of Partnerships, Communication, and Outreach, International Finance Corporation
- Kookheon Char, Dean of the College of Engineering, Seoul National University
- Sanghoon Ahn, Executive Director of the Center for International Development, Korea Development Institute
- Ted Jeong, Managing Partner of Kensington-SV Global

Tour of Informational Booths and Special Exhibition on Korea Development History
Information booths and a special exhibition of Korea’s economic development history have been set up in the MC Atrium of the World Bank. The special exhibition is provided by the Global Knowledge Exchange and Development Center (GKEDC) of Korea. Guided tours will be provided that can be reserved in advance.
Speakers and Panels

Opening Remarks

Shaolin Yang
Managing Director and Chief Administrative Officer
World Bank Group

As Managing Director and WBG Chief Administrative Officer since February 2016, Shaolin Yang is responsible for organizational strategy, budget and strategic planning, information technology, chief risk office, corporate procurement, general services and corporate security, health services, and shared services.

In particular, Yang leads the development and review of the WBG’s strategic agenda and oversees the alignment of resources with corporate strategies. He is responsible for steering WBG decisions on investments in real estate and information technology to meet operational demands. Yang also oversees implementation of the enterprise risk management framework and leads efforts to improve operational risk awareness, management, and reporting across the Bank Group. He also supports senior management in administering the Bank Group’s Sanctions and Internal Justice Systems.

Yang has extensive experience and expertise in international development as well as multilateral and bilateral cooperation, including multilateral development banks. He served as Director General for International Economic and Financial Cooperation at the Ministry of Finance of China, in charge of economic and financial cooperation between China and foreign governments as well as international financial institutions. Yang has also served as Executive Director for China at the World Bank from 2009 to 2013, where he was chair of the Committee on Governance and Executive Directors Administrative Matters (COGAM), overseeing the development and implementation of a number of corporate governance reforms. Yang has additionally served as Alternate Governor for China at the International Fund for Agricultural Development (IFAD) in Rome, Italy; Executive Director for China at the Asian Infrastructure Investment Bank (AIIB) in Beijing, China; Executive Director for China at the New Development Bank (NDB) in Shanghai, China; and Alternate Executive Director for China at the Asian Development Bank (ADB) in Manila, Philippines.

Yongbeom Kim
First Vice Minister
Ministry of Economy and Finance

Yongbeom Kim is leading key policy initiatives of the Ministry of Economy and Finance (MOEF), including economic strategies, taxation, and development finance.

Prior to his current position, Kim served as Vice Chairman and Secretary General of the Financial Service Commission (FSC). He also led the Financial Policy Bureau, Capital Market Bureau, and Public Fund Management Secretariat of the FSC as Director General. He was Director General of the Global Financial Architecture Bureau, Presidential Committee for the G20 Summit in Seoul, 2010. Kim also served as Deputy Secretary of Economic Policy in the Presidential Office in 2007, Director of the Banking System Division of MOEF, and Senior Economist of the World Bank.

Kim holds a PhD in economics from The George Washington University and a bachelor’s degree and master’s degree from Seoul National University.
Kunil Hwang is Executive Director of the Republic of Korea, representing Australia, Cambodia, Kiribati, the Republic of Korea, the Marshall Islands, the Federated States of Micronesia, Mongolia, Nauru, New Zealand, Palau, Papua New Guinea, Samoa, the Solomon Islands, Tuvalu, and Vanuatu. Prior to that, Hwang held various positions at the Ministry of Economy and Finance (MOEF), including, most recently, Deputy Minister for International Affairs.

Hwang began working at the MOEF in 1988. He was Director General of the International Financial Policy Bureau and Director General of the Planning and Coordination Office. He also served as Chief Secretary to the Deputy Prime Minister and Minister of Economy and Finance.

Previously, Hwang worked as Minister Counsellor for Economic Affairs at the Embassy of Korea in Washington, DC, and as Economist in the Chief Economist Office at the European Bank for Reconstruction and Development in London, United Kingdom. Hwang holds an MA in economics from the University of Oregon and an MA in economic policy making from Seoul National University.

Keynote Speech

Shahid Yusuf is Chief Economist of the Growth Dialogue at The George Washington University School of Business in Washington, DC; a nonresident fellow of the Center for Global Development in Washington, DC; and Adjunct Professor at the Paul H. Nitze School of Advanced International Studies at Johns Hopkins University.

Yusuf holds a PhD in economics from Harvard University and a BA in economics from Cambridge University. Prior to joining the Growth Dialogue, he was on the staff of the World Bank. During his 35-year tenure at the World Bank, Yusuf was the team leader for the World Bank–Japan project on East Asia’s Future Economy from 2000 to 2009. He was Director of the World Development Report 1999/2000: Entering the 21st Century. Prior to that, he was Economic Adviser to the Senior Vice President and Chief Economist (1997–98), Lead Economist for the East Africa Department (1995–97), and Lead Economist for the China and Mongolia Department (1989–93).

Yusuf has written extensively on development issues, with a special focus on East Asia, and has also published widely in various academic journals. He has authored or edited more than 25 books and monographs on industrial and urban development, innovation systems, and tertiary education, many of which have been translated into a number of different languages.

Yusuf’s publications include China and the Global Economy, Development Economics through the Decades, and Under New Ownership: Privatizing China’s State-Owned Enterprises (with Dwight Perkins and Kaoru Nabeshima). His current research is on technology development and on the role of global value chains. Yusuf lives in the Washington, DC, area and consults with a number of organizations.
Overview of the WBG-Korea Partnership

Hoon Sahib Soh is the Special Representative (Country Manager) of the WBG Korea office. The WBG Korea office encompasses the World Bank, International Finance Corporation (IFC), and Multilateral Investment Guarantee Agency (MIGA). Soh’s priorities are building the new focus of the Korea office on innovation and technology, overseeing the ongoing expansion of the Korea office, and strengthening the partnership between the WBG and Korea.

Soh joined the World Bank in 2000 as a Young Professional after receiving a PhD in economics from Stanford University in 1996. At the World Bank, he has worked in the regional departments (Latin America, Africa, and East Asia and Pacific) as an economist, as well as in the corporate policy department. Prior to his work at the Korea office, Soh worked at the World Bank’s Beijing office, as the Program Leader responsible for supervising economic policy–related work on China and Mongolia. He led two major reports, Innovative China: New Drivers of Growth (2019) and China Systematic Country Diagnostics (2018). Before joining the World Bank, he worked in Korea at the POSCO Research Center (POSRI) and the Arthur D. Little consulting firm.

Panel Discussions - Moderator

Victoria Kwakwa was appointed World Bank Regional Vice President for East Asia and Pacific (EAP) in April 2016. Prior to this appointment, she was World Bank Country Director for Vietnam.

In her role as Regional Vice President for East Asia and Pacific, Kwakwa leads the World Bank’s engagement in the 23 member countries in the region, focusing on private sector–led growth, human capital development and inclusion, and sustainable and resilient development. She oversees a development project portfolio of about US$34.5 billion and a strong program of analytic work and policy advice on a broad range of development policy issues.

Under Kwakwa’s leadership, the World Bank’s EAP region has given strategic priority to childhood stunting, climate action (including transitions to cleaner energy paths), and more effective use of public resources to leverage private financing, particularly for infrastructure development. Kwakwa has also focused on deepening partnerships with regional bodies such as the Association of Southeast Asian Nations and with other development actors in the region.

Since joining the World Bank as a Young Professional, Kwakwa has had several successful assignments as Economist, Country Manager, and Country Director in East Asia and in Africa. She has extensive field experience in Nigeria, Rwanda, and Vietnam. Kwakwa has led work on a range of economic policy issues, such as economic competitiveness, fiscal management (notably in resource-rich economies), and fiscal decentralization.
Panel Discussions - Panel Members

Akihiko (Aki) Nishio
Vice President of Development Finance
World Bank

Akihiko (Aki) Nishio oversees strategic mobilization of Bank resources, including the International Development Association (IDA) and the International Bank for Reconstruction and Development (IBRD), as well as a diverse trust fund portfolio.

In this role since February 2019, Nishio focuses on furthering IDA’s innovation: leveraging its equity by blending donor contributions with internal resources and funds raised through debt markets, scaling up engagement in fragile countries, and finding new ways to promote private sector development. In 2019, Nishio led the successful IDA19 replenishment, where development partners agreed to a record package of US$82 billion.

Nishio has 30 years of experience at the World Bank, combining managerial leadership, technical knowledge, operational experience, and a track record of collaboration with development partners.

Since joining the Bank as a Young Professional in 1988, Nishio has held diverse positions across the institution. Before assuming his current position, he was acting Vice President of Equitable Growth, Finance, and Institutions (EFI), while also serving as EFI’s Director for Strategy and Operations. Prior to that position, he was Director of the IDA Department, Director for Strategy and Operations for the South Asia Region, Director of Operations of the World Bank Institute, Country Program Coordinator for China, and an economist for Indonesia in the rural development sector unit.

Before joining the World Bank, Nishio worked for the Overseas Economic Cooperation Fund (currently the Japan International Cooperation Agency).

A Japanese national from Yokohama, Nishio is a British Council scholar, with an MPhil in development from Cambridge University, a BA in economics from Hitotsubashi University in Japan, and an undergraduate diploma from the Université Catholique de l’Ouest in Angers, France.

Karin Finkelston
Vice President of Partnerships, Communication, and Outreach
International Finance Corporation

Karin Finkelston is Vice President of Partnerships, Communication, and Outreach at the International Finance Corporation (IFC) and is a member of IFC’s Management Team.

Karin Finkelston leads IFC’s efforts to build strategic relationships with stakeholders, multilateral organizations, development institutions, civil society, foundations, and other key development partners to create markets and mobilize private sector investments in emerging markets. She leads IFC’s teams in Western Europe and Tokyo and oversees IFC’s corporate communications and global engagement.

Prior to taking up this position in July 2017, Finkelston held a series of leadership positions at the WBG, including IFC Vice President for Asia and Pacific and Vice President and Chief Operating Officer of the Multilateral Investment Guarantee Agency (MIGA).

Finkelston spent most of her career leading IFC’s investment and advisory business in Asia. Prior to being named IFC’s first Vice President for Asia and Pacific, she was Director for East Asia and Pacific and was Country Manager for China and Mongolia. She grew IFC’s China business—investing with local entrepreneurs and banks—and led IFC’s expansion in Asia’s frontier countries.
Kookheon Char is a Dean of the College of Engineering at Seoul National University.

Kookheon Char has served as Vice President at the National Academy of Engineering of Korea (2017–present) and Director of the National Creative Research Initiative Center for Intelligent Hybrids (2010–17). He earned his PhD in chemical engineering from Stanford University, a master’s degree from Korea Advanced Institute of Science and Technology, and a bachelor’s degree from Seoul National University.

Char also has work experience in industry (LG Chemical, Korea) and has visited several universities (Cornell University, École Polytechnique Fédérale de Lausanne, ESPCI, and Massachusetts Institute of Technology) during his sabbatical leaves.

Char’s awards include the American Physical Society Fellow (United States), the Gutenberg Research College Fellow (Germany), and the Gutenberg Research Award (Germany), among others. Char also serves as a full member of the National Academy of Engineering of Korea and the Korean Academy of Science and Technology.

Char has published more than 350 papers in top-notch journals, including in Nature Chemistry (2013) and Nature Communications (2011).

Sanghoon Ahn is Executive Director of the Center for International Development at the Korea Development Institute (KDI).

Sanghoon Ahn’s research interest is in international economics, economic growth and development, technology and innovation, public investment, and productivity. Apart from his career working as a KDI fellow, Ahn worked as Senior Adviser to the Deputy Prime Minister, Ministry of Economy and Finance. He also worked as an economist at the Economics Department of the Organization for Economic Co-operation and Development (OECD) from 1997 to 2001 and as Senior Economist at the OECD’s Directorate for Science, Technology, and Innovation from 2013 to 2015. He served as Assistant Professor at Hong Kong University of Science and Technology and Adjunct Lecturer at Fondation Nationale des Sciences Politiques.

He holds a BA in economics from Seoul National University and a PhD in economics from Massachusetts Institute of Technology.
Tae Heum (Ted) Jeong has served as the Managing Partner, Kensington-SV Global Innovations (KSV), a transformative, innovation-focused venture capital firm targeting early- and growth-stage companies primarily in the United States and the Republic of Korea. Jeong’s responsibilities are to find unique and differentiated investment opportunities in health care and life sciences, consumer and enterprise products and services, and ICT/TMT. He has more than 20 years of experience as a venture capitalist and a financial executive.

Before joining KSV in 2018, Jeong served in positions of progressive responsibility at Rexahn Pharmaceuticals, Inc., including Chief Financial Officer and Board Director, where he played key roles in the company’s business development, private placement, and underwritten and registered direct public offerings. He was also responsible for forming strategic alliances and executing license deals in Asia, Europe, and the United States.

From 1997 to 2002, he served as Senior Investment Manager at Hyundai Venture Investment Corporation, a subsidiary of the Hyundai Motors conglomerate and one of the largest venture capital firms in Korea. There he operated two of the first health care venture capital funds in Korea and was responsible for more than 51 investments in health technology, ICT, and clean technology. He realized attractive returns from 31 portfolio companies through IPOs, secondary sales, and acquisitions.

Jeong received his BS and MS in chemistry from Pohang University of Science and Technology. He also holds an MS in finance from Johns Hopkins University and a doctor of management from the University of Maryland.
SECTION 1: The Overall WBG–Korea Partnership

OVERVIEW

The Republic of Korea provides significant support to the WBG through wide-ranging partnerships on knowledge exchange, capacity building, and operational support to WBG projects, and through generous financial contributions to the International Development Association (IDA) and World Bank trust funds.

The WBG Korea office has anchored this important partnership by engaging public and private stakeholders in Korea and working closely with the major Korea-financed World Bank trust funds. Korea office has carried out a broad range of knowledge and operational activities to promote green growth innovation; support financial sector development; share Korea’s practical development experience and knowhow; build human capital; enhance engagements in fragile, conflict and violence-affected states; and mobilize Korean private investments in developing countries. The office is currently building new programs to become a global center for innovation and technology.

Korea is a major donor to the WBG. It provided US$1.1 billion to the World Bank during the fiscal years 2015 to 2019, including US$247 million for World Bank trust funds. The trust funds benefit from Korea’s financial contributions and also leverage Korea’s knowledge and expertise derived from its rapid and successful development. Korea Innovation Week will feature many of the major Korea-financed trust funds, including the Korea–World Bank Partnership Facility (KWPF), the Korea Green Growth Trust Fund (KGGTF), the Seoul Financial Center Trust Fund, and the Korea Program for Operational Knowledge (KPOK).

Korea Innovation Week will also feature two major Korean partners of the World Bank on knowledge exchange and co-financing of World Bank projects. The Korea Development Institute (KDI), a highly regarded institute for economic research and policy analysis, will present its Knowledge Sharing Program (KSP). KSP, launched in 2004, by the Ministry of Economy and Finance, is a knowledge driven development cooperation program that provides comprehensive policy consultations to developing countries, often in collaboration with multilateral development banks and international organizations. In addition, the Export-Import Bank of Korea (Korea Eximbank) will present the Economic Development Cooperation Fund (EDCF). EDCF was founded in 1987 to providing financial support to developing countries. EDCF collaborates with the World Bank to co-finance projects in Asia, Africa, and Latin America, and in the agriculture, education, energy, environment, health, ICT, public administration, and transport sectors.

During Korea Innovation Week, staff members from the WBG Korea office and the major trust funds will be available to share their development work and discuss opportunities for the office to provide knowledge and operational support and to facilitate partnerships in Korea. KDI and KEXIM experts will also present their collaboration with the WBG and explore new partnership opportunities.

ACTIVITIES: INFORMATIONAL BOOTHS

The WBG teams (WBG Korea office, Development Finance [DFi], and KPOK), KDI, and Korea Eximbank will collectively present Korea’s development knowledge, expertise, and financial support available for projects and partnerships. The booths will showcase a range of programs supported by Korea, including past and ongoing projects across sectors that can be further leveraged to deliver cutting-edge development solutions and financing. The exhibition consists of four standalone booths, each of which will focus on a specific program to help participants tap into Korean resources.

Sharing Korea’s Development Knowledge (MOEF, KDI and KPOK)

Knowledge of Korea’s development experience provides practical solutions accumulated through trial and error in many stages of development. This booth showcases the

<table>
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<tr>
<th>Overall Korea – WBG Partnership Booth at MC Atrium</th>
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<tbody>
<tr>
<td><strong>BOOTH</strong></td>
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<tr>
<td>Sharing Korea’s Development Knowledge</td>
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<tr>
<td>Connecting Innovation and Development</td>
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<tr>
<td>Korea – World Bank Partnership (KWPF):</td>
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<tr>
<td>Maximizing Development Finance and Leveraging</td>
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<tr>
<td>Korean Knowledge, Development Experience and</td>
</tr>
<tr>
<td>Innovation Since 2013</td>
</tr>
<tr>
<td>EDCF – World Bank Co-Financing Facility</td>
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<tr>
<td>Development Finance and Export Credit in Korea</td>
</tr>
</tbody>
</table>
Knowledge Sharing Program (KSP) and the Korea Program for Operational Knowledge (KPOK) as examples of Korea’s efforts in sharing its development knowledge. At the booth, participants will be able to learn more about both programs, including KSP’s project cycle, KSP application processes, and KPOK product offerings.

Connecting Innovation and Development (WBG Korea Office)
The WBG Korea office is expanding its Korean partnerships to help developing countries harness innovation and technology. Technology advancement is increasingly central to development work and to disrupting traditional development pathways.

This booth will introduce the office’s projects and more recent initiatives that leverage Korea's strength in innovation and technology. It will highlight the key projects of each unit and the office’s partnerships with Korean institutions under three themes: (a) green growth innovation, (b) cross-cutting innovation and technology, and (c) mobilizing Korean finance for development.

Maximizing Development Finance and Leveraging Korean Knowledge, Development Experience, and Innovation since 2013 (DFi)
The KWPF booth introduces the largest Korean single donor trust fund (SDTF) administered by the World Bank with a signed contribution totaling US$320 million for fiscal years 2014 through 2023. It will provide a general overview of the facility, highlight key Korean partners, and showcase results in the health and agriculture sectors. The KWPF booth will also feature another Korean SDTF administered by the World Bank, the Korea Trust Fund for Economic and Peacebuilding Transitions (KTF), with an overall contribution of US$38.4 million. The focus of the KTF display is on its overall accomplishments over the past 10 years.

Development Finance and Export Credit in Korea (Korea Eximbank)
The EDCF exhibition booth will introduce EDCF as well as Korea’s overall ODA and knowledge sharing activities. The booth will also introduce various development finance tools operated by Korea Eximbank. At the booth, the participants will be able to explore further opportunities for partnership with Korea, especially with EDCF.

KEY PARTICIPANTS
A. Korean Institutions

Ministry of Economy and Finance
The Ministry of Economy and Finance (MOEF) oversees financial policies, leads interministerial fiscal policy coordination, and implements national growth strategies in the Republic of Korea. The MOEF manages fiscal resources and monitors budget implementation to ensure (a) macroeconomic and financial stability, (b) effective policy coordination, (c) efficient allocation of national resources, (d) fiscal soundness, and (e) rational tax policies and economic cooperation with emerging and advanced economies. The four government agencies under the MOEF are the National Tax Service, Korea Customs Service, Public Procurement Service, and Statistics Korea.

The MOEF has actively supported World Bank operations through the WBG Korea office and multiple trust funds and programs. These include the KWPF, KGGTF, KTF, and KPOK.

Korea Development Institute
Korea Development Institute (KDI) is a publicly funded and fully autonomous policy-oriented research organization in Korea. Established in 1971, KDI has been recognized as a leading think tank in Korea committed to producing independent, innovative, and impactful policy research and recommendations to help the government and policy makers advance economic policies. The Center for International Development (CID), an affiliated body of KDI, leads Korea’s efforts to promote international development cooperation. The CID engages in research and knowledge sharing activities, including capacity and institution building, with partner countries through the Knowledge Sharing Program (KSP). During the panel discussion session of Korea Innovation Week, the executive director of KDI’s CID will introduce KDI’s endeavor to leverage Korea’s development experience to benefit developing countries, its long-standing partnership with WBG, and innovation and technology as potential areas for cooperation. At the booth exhibition, KDI will showcase Korea’s efforts to share its development knowledge through KSP.
The Export-Import Bank of Korea

The Export-Import Bank of Korea (Korea Eximbank) was established with an aim to facilitate the development of Korea’s economy and enhance economic cooperation with foreign countries through provision of financial supports for cross-border transactions, overseas investments projects, and development of overseas natural resources. Korea Eximbank conducts appraisals, loan agreements, and loan disbursements; evaluates economic development aid projects in partner countries; and conducts research for Korea’s ODA policy. Korea Eximbank is the export credit agency of Korea and the executor of the Economic Development Cooperation Fund (EDCF) and the Inter-Korean Cooperation Fund (IKCF) of the Korean government. Entrusted by the MOEF in 1987, Korea Eximbank is in charge of the administrative operation of the EDCF, including appraisal of projects and execution of loan agreements and loan disbursements. Other mandates include project supervision and ex-post evaluation of project operations. The EDCF co-finances WB projects in accordance with the MOU signed in 2015, which was renewed in 2019.

B. Key Figures

Dongjoon Kim

Director
Development Finance Division, Development Finance Bureau
The Ministry of Economy and Finance

Dongjoon Kim is the Director of the Development Finance Division, Development Finance Bureau at the Ministry of Economy and Finance. Before his current position, Dongjoon Kim served as the Director of International Financial Institutions Division, Development Finance Bureau (2018-2019), International Economic Cooperation Division, International Economic Affairs Bureau at the MOEF (2015-2018). He also worked as the Trust Fund Senior Officer of Technical Assistance and Strategic Partnerships Division at Inter-American Investment Corporation (IIC) (2011-2015), where he was in charge of the management of IIC’s Korean Trust Fund. He worked as the Director of External Cooperation Team, G20 Bureau (2011), and Presidential Committee for G20 Summit (2009-2010), Secondee at the HM. Treasury. He holds, MA in economics from the University of Toronto and a bachelor’s from Carleton University.

Sanghoon Ahn

Executive Director
Center for International Development
Korea Development Institute

Sanghoon Ahn is Executive Director of the Center for International Development at the Korea Development Institute (KDI). Sanghoon Ahn’s research interest is in international economics, economic growth and development, technology and innovation, public investment, and productivity. Apart from his career working as a KDI fellow, Ahn worked as Senior Adviser to the Deputy Prime Minister of the Ministry of Economy and Finance. He also worked as an economist at the Economics Department of the OECD from 1997 to 2001 and as Senior Economist at the Directorate for Science, Technology and Innovation, OECD, from 2013 to 2015. He has been Assistant Professor at Hong Kong University of Science and Technology and Adjunct Lecturer at Fondation Nationale des Sciences Politiques (Sciences Po). He holds a BA in economics from Seoul National University and a PhD in economics from the Massachusetts Institute of Technology.
Jung-hwa Seo is the Director General for MDB Operations (MDB co-financing, trust funds, and the Knowledge Sharing Program) at the Export-Import Bank of Korea (Korea Eximbank).

Before being nominated to his current post, Seo served as Chief Representative of the Jakarta representative office of Korea Eximbank from 2017 to 2019, Director of the EDCF Country Strategy Program in 2016, and Director for EDCF Operations Services and Evaluation from 2014 to 2015. Seo also participated in Switzerland’s Development Assistance Committee Peer Review as an examiner in 2012.

Seo holds an MBA from the Graduate School of Finance at the Korea Advanced Institute of Science Technology (KAIST). He graduated from Yonsei University of Korea with a bachelor’s degree in economics.

MAIN CONTACTS
For inquiries on the overall WBG-Korea partnership activities and to request bilateral meetings, please contact the respective teams:

MOEF and KDI (KSP)
• Wooim Choi, Research Officer, International Economic Cooperation Strategy Division, MOEF: granestrella@korea.kr
• Hoon Heo, Senior Research Associate, KDI: hoonheo@kdi.re.kr

KPOK
• Jisun Kim, Senior Program Coordinator, DECKS; based in Korea: jkim25@worldbank.org
• Gyuchan Lee, Knowledge Management Analyst, DECGA; based in Washington, DC: glee5@worldbank.org

WBG Korea office
• Hoon Sahib Soh, Special Representative (Country Manager), WBG Korea office: hsoh@worldbank.org
• Jiwon Lee, Operations Officer, WBG Korea office: jlee37@worldbank.org

DFi
• Anju Sharma, Senior Program Officer: asharma1@worldbank.org
• Angela Susan Williamson, Senior Financial Officer: awilliamson@worldbank.org
• Daksha Shakya, Operations Officer: dshakya1@worldbank.org

Korea Eximbank
• Keunae Kim, Senior Deputy Director: kkim212@koreaexim.go.kr
• Kee Young Lee, Loan Officer: darim@koreaexim.go.kr
SECTION 2: The Digital Economy and 5G

OVERVIEW

In recent years, the Digital Development (DD) Global Practice (GP) has worked closely with the Republic of Korea. This work has enabled the World Bank’s client countries to learn from Korea’s best practices and, as a result, improve their capacity and strengthen their markets for the digital economy. DD is planning two separate thematic workshop on February 18 and 19 to share the achievements of Korea-funded DD projects and to explore future opportunities for collaboration by discussing Korea’s recent 5G initiatives, as well the Korean startup ecosystem.

The first thematic workshop, “Harnessing the Potential of the Digital Economy for Our Client Countries: Lessons from Korea,” will showcase projects funded by the Korea–World Bank Partnership Facility (KWPF) in an effort to harness the potential of the digital economy for our client countries through sharing lessons learned in Korea. The workshop will discuss past and ongoing collaborations between DD and Korean development partners that have helped DD provide resources to client countries to help those countries build capacity, raise awareness of cybersecurity, and adopt cutting-edge digital solutions for governments and citizens.

The second thematic workshop, which will be more future oriented, encompasses two halves - “Korean 5G, from First to Best” and “Korea’s Startup Ecosystem and Future Collaboration Opportunities.” During the first half, “Korean 5G, from First to Best,” the workshop will closely examine Korea’s policy on 5G and industry leaders’ technologies and strategies related to 5G. This session will discuss Korea’s experience with carrying out a nationwide 5G deployment and impart lessons learned, along with suggestions for how client countries might benefit from those lessons. Industry leaders such as SK Telecom; KT Corporation; LG U+; and Samsung Electronics Co., Ltd., will share their experience and vision for the 5G era.

The second half of the workshop, “Korea’s Startup Ecosystem and Future Collaboration Opportunities,” will introduce Korea’s startup ecosystem and successful deployment of public-private partnerships as well as government-initiated entrepreneurship promotion programs. Representatives from innovative Korean startups will be invited to the stage, where they can apply their technological solutions directly in the context of the Sustainable Development Goals and can seek collaborative opportunities with multilateral development banks.

ACTIVITIES

A. Thematic Workshops

This workshop will introduce digital economy projects funded by Korea. Topics will range from cybersecurity to e-government to people-centric digital solutions in Myanmar. Digital Development Task Team Leaders who led the projects

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<th>TIME</th>
<th>ACTIVITY</th>
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<tr>
<td>1:45-2:00pm</td>
<td>Welcoming Speech: Boutheina Guermazi, Director of Digital Development, WBG</td>
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<td>Moderator: Nicole Klingen, Practice Manager, Digital Development, WB</td>
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<td></td>
<td>Keynote Speech: Jeong Won Kim, Deputy Minister, MSIT</td>
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<tr>
<td>2:00-2:50pm</td>
<td>Lightning Talks on DD Projects and Korean Partners’ Experience Sharing Cybersecurity</td>
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<td></td>
<td>• Global Cybersecurity Capacity Program: Progress and Lessons Learned: Natalija Gelvanovska, Senior Digital Development Specialist, WB</td>
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<td></td>
<td>• Korean Cybersecurity Framework: Dae-Kyu Shin, Vice President, Korea Internet and Security Agency</td>
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<td></td>
<td>• Discussion: Moderator &amp; Speakers</td>
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<tr>
<td></td>
<td>Smart Nation</td>
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<td></td>
<td>• Smart Nation Program as a Platform to Catalyze Digital Economy Strategies and Lending Projects in Central Asia: Oleg Petrov, Senior Digital Development Specialist, WB</td>
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<tr>
<td></td>
<td>• Collaboration and Cooperation for Global Digital Inclusion: Kangtak Oh, Vice President, National Information Society Agency (NIA)</td>
</tr>
<tr>
<td></td>
<td>• Discussion: Moderator &amp; Speakers</td>
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</table>
and Korean development partners who collaborated on the projects will share project outcomes, their engagement experience, and ideas for future collaboration.

This workshop will focus on the recent event of the world’s first nationwide 5G deployment and share ideas for future collaboration. Industry leaders from such corporations as SK Telecom, Korea Telecom (KT), LG U+, and Samsung Electronics as well as a state-funded research institute (ETRI) will share their experience with 5G deployment, Korea’s state-of-the-art 5G technology and services, and ideas for how low- and middle-income countries might take advantage of 5G in the future in the context of development.

KOREA INNOVATION WEEK, DAY 2

DD Thematic workshop II at MC 2-800
Korean 5G, from First to Best

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<th>TIME</th>
<th>ACTIVITY</th>
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<tr>
<td>2:00-2:10pm</td>
<td><strong>Opening Remarks:</strong> Jeong Won Kim, Deputy Minister, MSIT</td>
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<td><strong>Opening Remarks:</strong> Boutheina Guermazi, Director of Digital Development, WBG</td>
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<td></td>
<td><strong>Moderator:</strong> Je Myung Ryu, Senior Digital Development Specialist, WB</td>
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<tr>
<td>2:10-2:20pm</td>
<td><strong>5G+ Strategy of Republic of Korea:</strong> Doo Won Jang, Artificial Intelligence Industry Team Director, MSIT</td>
</tr>
<tr>
<td>2:20-3:10pm</td>
<td><strong>Industry Trends on 5G</strong></td>
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<tr>
<td></td>
<td>• <strong>5G to Boost Digital Economic Development:</strong> John Godfrey, Senior Vice President in Public Policy, Samsung Electronics America</td>
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<td></td>
<td>• <strong>Leading the Age of 5G Hyper-Innovation:</strong> Jong Min Lee, SVP and Head of Tech Innovation Group, SK Telecom</td>
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<td></td>
<td>• <strong>KT 5G: Opening Up New Opportunities:</strong> Hee-Su Kim, Executive Vice President, KT Economics and Management Research Institute</td>
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<td></td>
<td>• <strong>Seeing What Is Possible with 5G:</strong> Jun Young Shin, Vice President, U.S. Representative of LG U+</td>
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<tr>
<td></td>
<td>• <strong>5G Technology and R&amp;D in Korea:</strong> Young-Jo Ko, Director of 6G Wireless Transmission Research Section in Future Mobile Communication Research Division, Electronics and Telecommunications Research Institute (ETRI)</td>
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<tr>
<td>3:10-3:30pm</td>
<td><strong>Panel Discussion:</strong> Implications for 5G on Developing Countries: Moderator and Speakers</td>
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<tr>
<td>3:30-3:50pm</td>
<td>Q&amp;A and Wrap-up</td>
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Korea has successfully leveraged public-private partnerships for startups and has implemented strategies to establish a healthy entrepreneurship ecosystem. This workshop will share Korea’s experience with promoting entrepreneurship and will introduce five Korean startups with innovative technological solutions that can be applied directly to development issues.
KOREA INNOVATION WEEK, DAY 2

DD Thematic Workshop II at MC 2-800
Korea's Startup Ecosystem and Future Collaboration Opportunities

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<tr>
<th>TIME</th>
<th>ACTIVITY</th>
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| 4:00-4:20pm    | **Opening Remarks & Moderator:** Samia Melhem, Lead Digital Development Specialist, WB KIC Silicon Valley’s Korea Startup Promotion Platform and Strategy: Heonsoo Rhee, President, National IT Promotion Agency KIC Silicon Valley  
**Introduction on Korea Startup Ecosystem and Collaboration Opportunities with MDBs:** Jongkap Kim, Chief Executive Director, Born2Global Centre |
| 4:20-4:55pm    | **Innovative Technology-Based Solutions in the Field of Development**  
- **How to Promote WBG’s “Goodwill” by GSIL’s Technology:** Victory Ji, Manager, Great Safety Information Laboratory (GSIL)  
- **LH2, the Solution for Sustainable Energy and Transport:** Joshua Kim, Manager, Hylium Industries  
- **Make the Future Brighter through Robotics Education:** Younghoon Son, North America and Middle East and North Africa Sales Representative, LUXROBO  
- **VisualCamp: Advanced Eye-Tracking:** Yoon Ho Kim, General Manager, Visual Camp  
- **Deep-Tech Based Livestock Health Care, farmsplan:** Nohkyum Kyeong, CEO, Animal Industry Data Korea (AIDK) |
| 4:55-5:00pm    | **Q&A & Closing Remarks**                                                                                                                                                                                |

B. Informational Booth

The Digital Development (DD) Exhibition Zone comprises an exhibition area and a booth demonstration area. The exhibition will showcase Korea’s digital development history from the telegram to 5G and how it led to innovation in Korean daily life. In the atrium, participating booths will demonstrate big data, AI, and IoT-based solutions to tackle diverse development challenges ranging from health and education to energy and safety management.

**Digital Development Exhibition Booth at MC Lobby**

<table>
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<tr>
<th>BOOTH</th>
<th>AGENCY</th>
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<tbody>
<tr>
<td>IoT-Based Safety Management System</td>
<td>GSIL</td>
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<tr>
<td>Smart coding education platform</td>
<td>LUXROBO</td>
</tr>
<tr>
<td>Compact hydrogen liquefication and Ultralight Liquid Hydrogen Storage Technologies</td>
<td>Hylium Industries</td>
</tr>
<tr>
<td>Eye-Tracking Technology for VR</td>
<td>Visual Camp</td>
</tr>
<tr>
<td>Big Data-Based infectious disease prevention platform</td>
<td>KT</td>
</tr>
<tr>
<td>Big Data-Based animal health management solution</td>
<td>AIDK</td>
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</tbody>
</table>
KEY PARTICIPANTS

A. Korean Institutions

Ministry of Science and ICT
The Ministry of Science and ICT (MSIT) focuses its efforts on accelerating innovation across society by building an environment that promotes autonomous and audacious research, securing source technologies and growth engines, and converging science and technology with ICT. MSIT works to reform regulations and adapt systems for new industries involving artificial intelligence and biotechnology. It also works to make mobile phone service more affordable so that everyone can enjoy the benefits of quality mobile communication.

Korea Internet and Security Agency
Korea Internet and Security Agency (KISA) specializes in promoting Internet and information security in Korea’s private sector. With “Internet promotion for the future” and “information security for our safety” as its two primary tasks, KISA focuses on enhancing the information security capacity of Korea’s ICT industry and on encouraging global competitiveness in a harmoniously balanced manner.

National Information Society Agency
National Information Society Agency (NIA), established in 1987, is a statutory agency of Korea. It is responsible for the overall implementation and support of the informatization of the nation and society. Building on its knowledge and expertise, NIA promotes new opportunities made possible by emerging disruptive information technologies in the Fourth Industrial Revolution (4IR) era. In addition, NIA has actively engaged in global ICT cooperation for digital inclusion through joint TA for developing countries, information access centers (IACs), ICT cooperation centers (ITCCs), WFK ICT volunteers, e-government cooperation centers, and global ICT education programs for public officials in partner countries.

National IT Industry Promotion Agency
National IT Industry Promotion Agency (NIPA) is expanding Korea’s future through ICT and software. It engages in a variety of initiatives to raise national competitiveness and secure growth engines for the future through convergence of software (including AI, VR/AR, 5G, and cloud computing) in conventional industries. The agency also leads efforts to help competitive small and medium enterprises and startups become unicorn companies through entry into global markets, including the “New Southern” countries such as ASEAN and India. Drawing on its extensive experience and knowledge, NIPA will continue to create new markets, support innovation, represent and advocate for Korea’s ICT industry, and serve as a steppingstone for national economic growth.

Electronics and Telecommunications Research Institute
Electronics and Telecommunications Research Institute (ETRI) is a state-funded research institute in Korea. Since its founding in 1976, ETRI has made significant contributions to the nation’s economic and social development through research, development, and distribution of industrial core technologies in the fields of information, communications, electronics, broadcasting, and convergence.

Born2Global Centre
Since its inception in September 2013, the Born2Global (B2G) Centre has set the standard for successful global startup ecosystems as MSIT’s main government agency. Born2Global’s mission is to establish a global startup hub where major actors (startups, private investors, accelerators, startup support institutions, and so on) of the global startup scene can interact and collaborate. Born2Global has developed strategies as a global startup accelerator and an ICT innovation business developer while fostering sustainable and virtuous circulation in the startup ecosystem.
**SK Telecom**
SK Telecom is the largest mobile operator in Korea with nearly 50 percent of the market share. As the pioneer of all generations of mobile networks, the company commercialized the fifth generation (5G) network on December 1, 2018, and announced the first 5G smartphone subscribers on April 3, 2019. With the world’s best 5G, SK Telecom is set to realize the Age of Hyper-Innovation by transforming the way customers work, live, and play.

Building on its strength in mobile services, the company is also creating unprecedented value in diverse ICT-related markets, including media, security, and commerce.

**Korea Telecom**
Korea Telecom (KT) is the nation’s largest general telecom carrier, leading 4IR with the world’s first 5G service and intelligent network platform. Since the takeover of its mobile telecommunications subsidiary, KTF, in 2009, KT introduced smartphones for the first time in Korea and has developed and nurtured diverse ICT convergence services using 5G infrastructures and state-of-the-art ICT technology. Beginning with its 5G pilot service during the 2018 Winter Olympic Games in PyeongChang, KT opened its 5G commercial networks in December of that same year to broadcast 3.5GHz 5G commercial radio throughout the country. It is also leading the introduction of next-generation ICT service, such as 10G Internet.

**LG Uplus**
LG Uplus (U+) was established on July 11, 1996, and has been transforming the lives of customers ever since. The company strives to develop telecommunications services, high-speed Internet, VoIP, and IPTV services, as well as other data services. In fact, LG U+ is the first in the world to establish a nationwide LTE network with super high-speed services of the highest quality. Continuing into the era of 5G and IoT, LG U+ continues to create higher standards of service to keep customers happy.

**Samsung Electronics**
Samsung Electronics manufactures a wide range of consumer and industrial electronic equipment and products, such as semiconductors, personal computers, peripherals, monitors, televisions, and home appliances.

Samsung Electronics also produces Internet access network systems and telecommunications equipment, including mobile phones.

Samsung Electronics is the only company that can deliver the entire 5G ecosystem—from chips and network equipment to endpoint devices—all with cutting-edge security solutions.

**Great Safety Information Laboratory**
Great Safety Information Laboratory (GSIL) is a construction IT company that provides safety and management solutions. GSIL integrates cutting-edge technologies (IoT, ICT, and AI) with a smart safety platform to improve safety at construction and industrial worksites. The System offers effective risk management solution for large scale infrastructures construction and maintenance of various project areas.

**LUXROBO**
Coding education leader LUXROBO has successfully attracted investment and grown into a robotics edutech firm that is recognized around the world. LUXROBO’s innovative smart block, MODI, provides creative software education in the 4IR era. With 60 employees, LUXROBO also provides a software curriculum at its professional education institutions and through education projects in Korea and abroad. LUXROBO also has its own research center, where it continues to expand the business and develop technologies.

**Hylium Industries**
Recent trends are moving toward renewable energy, and hydrogen will be a key fuel source in the future. Existing analyses show liquid hydrogen to be the most efficient hydrogen fuel. To promote the hydrogen infrastructure, Hylium Industries, Inc., is a leader in total solutions for liquid hydrogen—from production, to storage and transportation, to end-use fuel applications.
**Visual Camp**

VisualCamp is an eye-tracking technology company that provides eye-tracking software applications for mobile, VR, and AR for various UI/UX developments and user-gaze analysis. VisualCamp’s eye-tracking technology incorporates functions of mobile devices to collect and analyze gaze data that can be used in a range of fields, including education, health care, research, and more.

**AID Korea**

AID Korea has provided domestic farms with its livestock health care service, farmsplan, since 2017. The first health care service for livestock, farmsplan is based on deep technology (technological convergence of artificial intelligence, biotechnology, genetic engineering, and even veterinary technology). Globally, animal diseases are becoming more difficult to control, and the issue poses a serious threat to humans’ stable animal protein supply. The livestock industry so far has focused on the treatment (care) after a disease has occurred with vaccines or antibiotics. However, with farmsplan, the domestic livestock industry is moving to preventive health care–focused farm management. Users of farmsplan have seen reductions in monthly antibiotic usage and total medical costs of up to 80 percent and 40 percent, respectively. In making livestock and farms healthier, farmsplan helps to ensure a healthy protein source for humans. We believe that farmsplan’s livestock health care service will be a solution for the current animal disease and protein crisis.

**B. Key Figures**

**Jeong Won Kim**

Deputy Minister  
Ministry of Science and ICT

Jeong Won Kim is the Deputy Minister of the Office of ICT Policy at the Ministry of Science and ICT (MSIT). Prior to his current post, he served as Director General of MSIT’s Internet Convergence Policy Bureau (2018–19); Director General of MSIT’s R&D Police Bureau (2017–18); Director General of MSIT’s Intelligent Information Society Bureau (2016–17); and Chief of the Seoul Radio Management Office at the Ministry of Science, ICT and Future Planning (2016). He received an MS from Harvard’s Kennedy School (2000), an MS in public administration from Seoul National University (1993), and a BA in political science and international relations from Seoul National University (1990).

**Boutheina Guermazi**

Director of Digital Development  
World Bank Group

Dr. Boutheina Guermazi is the Director of Digital Development Department of the Infrastructure Practice Group of the World Bank. She heads a global team working on building digital economies in developing countries, to drive shared prosperity and reduced poverty. The team advises policymakers and regulators, works in collaboration with leading firms and partners, and designs investment and technical assistance programs to improve broadband connectivity and use of digital technology to address development challenges of client countries. Prior to her role as Director, Dr. Guermazi was Practice Manager of Digital Development covering Africa and the Middle East regions of the World Bank. She also served as Lead Operations Officer in the Regional Integration Unit of the Africa region of the World Bank.

Dr. Guermazi holds a Ph.D. in Telecommunications Law and Policy from the Faculty of Law at McGill University, Canada; an L.L.M. in International Law from Indiana University, USA; and a Bachelor’s Degree in Public Law from the University of Tunis, Tunisia. She held a Fulbright Scholarship and was a research scholar at the University of Michigan (USA), the Social Science Research Council (USA), and the Center of Studies for Regulated Industries (Canada).
Nicole Klingen is the World Bank’s Practice Manager of Digital Development for East Asia, Europe and Central Asia, South Asia, and Latin America and the Caribbean. The World Bank provides knowledge and financing to help close the digital divide and to make sure countries can take full advantage of the ongoing digital development/digital economy revolution.

Klingen is an economist with more than 24 years of technical, managerial, and partnership experience in international development at the World Bank. Most recently, Klingen was responsible for the country portfolios for Ethiopia, South Sudan, and Sudan, and she authored the Country Partnership Framework for Ethiopia. Klingen also served as Practice Manager in the Health Sector, where she was responsible for managing a team of health specialists and economists in the Bank’s global health, nutrition, and population unit, where she oversaw the unit’s operations and portfolio with a focus on delivering results for countries.

Klingen also co-led the development of the WBG’s 2007 Strategy for Health, Nutrition and Population Results. Nicole holds a master’s degree in economics and business. She speaks English, French, German, some Spanish, and some Italian.

Dae-Kyu Shin is a Vice President of Korea Internet and Security Agency (KISA). Previously, he served as Director of the Convergence Security Division until 2019, Director of the Internet Incidents Analysis Division until 2017, and Manager of the Cyber Emergency Control Team until 2012 at the same organization. Shin holds an MS and a BS in computer science from Yonsei University in Korea.

Kangtak Oh is a Vice President of National Information Society Agency (NIA) and Executive Director of its Department of Global ICT Cooperation. During his long career with NIA, Oh has worked on and researched e-government development in Korea, with a specific focus on long-term e-government strategy planning, e-government policy establishment, and e-government consulting. Previously, he served as Executive Director of NIA’s Department of e Government, whose main achievements included enhancement of Korean e-government development, public sector civil service and e-government assessment, the foundation of the Korea National e-Government Roadmap, and so on. He earned his MA and PhD in public management information studies from Hankuk University of Foreign Studies in Korea.

Young-Jo Ko is currently Director of the 6G Wireless Transmission Research Section in the Future Mobile Communication Research Division at Electronics and Telecommunications Research Institute (ETRI). He also serves as Chairman of the Technology Committee of Korea’s 5G Forum. He received a BS, MS, and PhD in physics from the Korea Advanced Institute of Science and Technology in 1992, 1994, and 1998, respectively. Ko joined ETRI in March 1998 to work on mobile communications. He has also actively participated in the 3GPP standardization of LTE/LTE Advanced. His current research interests include 5G New Radio and B5G/6G technologies, with a particular focus on the physical layer aspects of radio access.
Heonsoo Rhee  
President of Korea Innovation Center Silicon Valley  
National IT Industry Promotion Agency

As an accomplished, confident, insightful global business executive, Mr. Rhee has been working for ICT industry for the last 34 years in both global business and R&D Engineering area. With substantial proven achievement and solid experiences in global market with various positions like a Senior Executive in business organization and Scientific Staff & Engineer in R&D in Global Companies such as IBM, Cisco in US, Bell Northern Research in Canada and Telecommunication Division in Samsung Electronics as well as Venture companies located in San Jose, USA, currently he is leading Korea Innovation Center, Silicon Valley operated by Ministry of Science & ICT, Korea Government to make a visibly great business impact onto Korean Promising Science and Technology, ICT-based SMBs by helping them penetrate global market successfully with Global business support platform as well as newly being-developed Korean Global Venture Ecosystem in Silicon Valley by Korea Innovation Center. He has majored in Physics for his Bachelor Degree and Computer Engineering for his Master Degree in Yonsei University, Seoul Korea. Also he has completed AICPA Program in Sogang Graduate School.

Jongkap Kim  
Chief Executive Director  
Born2Global Centre

For 20 years, Kim has supported Korean startups in Silicon Valley.

Prior to his tenure at the Born2Global Centre (B2G), he was the founding member and CEO of ETRI Silicon Valley, a Korean government research institution that capitalized on the Silicon Valley atmosphere, bridging academia and the industry to ultimately turn ideas into realities. Prior to ETRI, he was CEO of iPark Silicon Valley, another government agency and business incubator. Kim was responsible for developing, implementing, and managing business strategies for iPark Silicon Valley’s portfolio companies and for advising on Korean government policy and budget development for the high-tech industry. In addition, he has focused on creating investments, partnerships, and strategic alliances with U.S. channel partners. Beyond establishing and running government operations in the American market, Kim is an entrepreneur with multiple startups in the heart of Silicon Valley, Santa Clara. His diverse expertise includes technology startups and global business, and he has supported more than 2,000 startups. He completed a PhD course at Vanderbilt University in finance and received an MS from Seoul National University in environmental planning and design.

MAIN CONTACTS

For inquiries on Digital Development activities and to request bilateral meetings, please contact the following individuals:

- **Je Myung Ryu**, Senior Digital Development Specialist: jryu1@worldbank.org
- **Seunghyun Kim**, Senior Digital Development Specialist: skim14@worldbank.org
- **Jeongjin Oh**, Consultant: joh4@worldbank.org
SECTION 3: Smart Cities

OVERVIEW

Cities worldwide are going through a transformation as they incorporate smart technologies in their efforts to become more efficient, innovative, inclusive, and sustainable. Smart city projects around the world are helping to solve urban problems and improve the quality of life by applying smart and disruptive technologies to cities.

The Republic of Korea has undergone various experiences in urban development. Korea had to overcome the ravages of the Korean War in the 1950s, and since the 1960s the country has achieved rapid economic growth. For more than two decades, Korea has accumulated diverse know-how in urban development through much trial and error in the process of new town development. And many developing countries are interested in Korea’s experiences in urban development. Recently, Korea has focused on smart city policies and projects that are integrated through world-class ICT. Smart City, which combines smart and disruptive technologies into cities, will be a critical sector that can showcase Korea’s innovative technologies.

Through its 2013 partnership agreement with the World Bank, Korea’s Ministry of Land, Infrastructure and Transport (MOLIT), with funding support from the Korea–World Bank Partnership Facility (KWPF), is part of the World Bank’s Global Smart City Partnership Program (GSCP). The GSCP aims to mainstream and accelerate the adoption of smart city approaches and solutions in World Bank operations and client engagement by promoting knowledge sharing and providing just-in-time technical assistance and operational support to the Bank teams to help with various stages of smart city projects. The GSCP offers a partnership platform to connect the World Bank teams, policy makers, development practitioners, academics, and private sector experts and facilitates active dialogue, collaboration, and dissemination of best practices and knowledge sharing on smart city framework, technologies, and solutions.

Korea Innovation Week will share experiences of Korean smart cities and seek ways to apply practical smart city solutions for developing countries through in-depth discussion. It especially will share and introduce the successful partnership between the World Bank and MOLIT. Various Korean institutions, including the Korea Land and Geospatial Informatix Corporation (LX), Land and Housing Corporation (LH), Korea Agency for Infrastructure Technology Advancement (KAIA), Korea Overseas Infrastructure and Urban Development Corporation (KIND), Seoul Metropolitan Government (SMG), and Busan EDC National Smart City Pilot Project team, will also share their smart city project experiences, best practices, and lessons learned.

ACTIVITIES

A. Thematic Workshops

This Thematic Workshop on Smart Cities on Day 1 will share smart city policies and practices in Korea, discuss global smart city opportunities and challenges, and how the WBG-Korea partnership can move forward.

<table>
<thead>
<tr>
<th>KOREA INNOVATION WEEK, DAY 1</th>
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<tbody>
<tr>
<td><strong>Tuesday, February 18, 2020 at Preston</strong></td>
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<tr>
<td><strong>Thematic Workshop on Smart Cities</strong></td>
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<tr>
<th>TIME</th>
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<tbody>
<tr>
<td>3:30-3:40pm</td>
<td><strong>Opening Remarks:</strong></td>
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<td></td>
<td>Richard Damania, Acting SD VP, WB</td>
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<td></td>
<td>Hyuck Jin Kwon, Director General, MOLIT</td>
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<td><strong>Moderator:</strong> Maitreyi Das, Practice Manager, WB</td>
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<tr>
<td>3:40-4:10pm</td>
<td><strong>Smart Cities of Korea:</strong> Dr. Jong-Sung Hwang, Busan National Smart City Pilot Master Planner, National Information Society Agency (NIA)</td>
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<td>4:10-4:20pm</td>
<td><strong>Global Smart City Partnership Program:</strong> Hyoung Gun Wang, Senior Economist, WB</td>
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<td>4:20-5:00pm</td>
<td><strong>Panel Discussion:</strong></td>
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<td><strong>Moderator:</strong> Judy Baker, Lead Economist, WB</td>
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<tr>
<td></td>
<td><strong>Panel Members:</strong></td>
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<tr>
<td></td>
<td>· Jong-Sung Hwang, Lead Researcher, (NIA)</td>
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<td></td>
<td>· Ming Zhang, Practice Manager, WB</td>
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<td>· Somik Lall, Lead Urban Economist, WB</td>
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<td></td>
<td>· Cecile Fruman, Manager for FIFs and Partner Relations in the DFI, WB</td>
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<td>· Hoon Sahib Soh, Special Representative/Country Manager, WB</td>
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<td>· Lisa Da Silva, Principal Investment Officer, IFC</td>
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<tr>
<td></td>
<td>· Hyoung Gun Wang, Senior Economist, WB</td>
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<td>* First round of visions</td>
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The MOLIT-WBG Joint Smart City Workshop, organized jointly by the Korean Ministry of Land, Infrastructure and Transport (MOLIT) and the WBG on Day 2, will feature sessions on smart urban development, smart water management, smart city land administration and geospatial technology, smart city financing and and public-private partnership (PPP), smart urban resilience, smart citizens and governance, and smart mobility. Presenters from Korea and the WBG will present their experiences and lessons learned. Participants will also have the chance to discuss their questions, as well as future partnership opportunities with the Korean institutions.

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<th>TIME</th>
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<tr>
<td>10:00-10:15am</td>
<td><strong>Opening Remarks:</strong> Hyuckjin Kwon, Director General, MOLIT</td>
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<td>Sameh Wahba, Global Director, WB</td>
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<td>Maitrej Das, Practice Manager, WB</td>
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<td><strong>Moderator:</strong> Hyoung Gun Wang, Senior Economist, WB</td>
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<tr>
<td>10:15-10:45am</td>
<td><strong>Smart Urban Resilience:</strong></td>
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<td><strong>Moderator:</strong> Christoph Pusch, Practice Manager, WB</td>
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<td></td>
<td><strong>Presenter 1:</strong> Dr. Youngseong Koo, Research Fellow, KAIA</td>
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<td><strong>Presenter 2:</strong> Atishay Abbhi, Disaster Risk Management Specialist, WB</td>
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<tr>
<td>10:45-11:15am</td>
<td><strong>Smart City Financing and PPP:</strong></td>
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<td><strong>Moderator:</strong> Veronica Nyhan Jones, Manager of Sustainable Infrastructure Advisory, IFC</td>
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<td><strong>Presenter 1:</strong> Kwangbok Lee, Director of Smart Infrastructure and Urban Development, KIND</td>
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<td><strong>Presenter 2:</strong> Emmanuel Nyirinkindi, Director, Public Private Partnerships</td>
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<tr>
<td>11:15-11:30am</td>
<td>Coffee Break</td>
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<td>11:30am-12:00pm</td>
<td><strong>Smart Mobility:</strong></td>
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<td><strong>Moderator:</strong> Adam Stone Diehl</td>
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<td></td>
<td><strong>Presenter 1:</strong> Prof. Jung-hoon (John) Lee, Chair of Smart City Committee, Seoul Metropolitan Government</td>
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<td><strong>Presenter 2:</strong> Adam Stone Diehl, Urban Transport Specialist, WB</td>
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<tr>
<td>12:00-12:30pm</td>
<td><strong>Smart Citizens and Governance:</strong></td>
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<td><strong>Moderator:</strong> Catalina Marulanda, Practice Manager, WB</td>
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<td></td>
<td><strong>Presenter 1:</strong> Prof. Jung-hoon (John) Lee, Chair of Smart City Committee, Seoul Metropolitan Government</td>
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<td><strong>Presenter 2:</strong> Jessica Schmidt, Urban Development Specialist, WB</td>
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<tr>
<td>12:30-2:00pm</td>
<td>Lunch</td>
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**Afternoon Session at MC 13-121**

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<th>TIME</th>
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<tr>
<td>2:00-2:50pm</td>
<td><strong>Smart Urban Development</strong></td>
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<td><strong>Moderator:</strong> Ming Zhang, Practice Manager, WB</td>
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<td></td>
<td><strong>Presenter 1:</strong> Youngsoo Ha, General Manager, LH</td>
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<td><strong>Presenter 2:</strong> Jon Kher Kaw, Senior Urban Development Specialist, WB</td>
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b. Informational Booth

The Smart Cities Information Booth will showcase various cutting-edge smart city approaches and solutions. Participants will be able to explore different smart city solutions for different levels of economic and urban development (for example, by lower-income countries, lower-middle-income countries, and middle-income countries). The booth will consist of three main themes: urban development, land administration and geospatial technology, and smart water management.

<table>
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<tr>
<th>Digital Development Exhibition Booth at MC Lobby</th>
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<tbody>
<tr>
<td><strong>BOOTH</strong></td>
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<tr>
<td>Urban Development in Korea and the Sejong National Smart City Pilot Project</td>
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<tr>
<td>Smart Water Management in Korea and the Busan National Smart City Pilot Project</td>
</tr>
<tr>
<td>Smart City Land Administration and Geospatial Technology</td>
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</table>

**KEY PARTICIPANTS**

**A. Korean Institutions**

**Ministry of Land, Infrastructure, and Transport**

The Ministry of Land, Infrastructure, and Transport (MOLIT) was first established in 1948 with the name of the Ministry of Transportation. It was reorganized and renamed in 2013 to focus on future-oriented territorial development, safe and convenient infrastructure, and transport development. MOLIT’s vision is to have a livable territory and convenient transport.

The World Bank and MOLIT signed a memorandum of understanding in June 2016 to work together on smart urban solutions for developing countries. They have a joint aim of sharing knowledge, mobilizing existing financial and technical capacity, and working together to deliver faster results on urban issues to developing countries.

**Korea Agency for Infrastructure Technology Advancement**

The Korea Agency for Infrastructure Technology Advancement (KAIA) is the sole institution that specializes in land, infrastructure, and transport research and development (R&D). Established in 2003 with the name Korea Institute of Construction and Transportation Technology Evaluation and Planning (KICTEP), it serves R&D planning, management, and evaluation; certification on new technologies in construction, transport, and logistics; and value assessment and trading of technologies. KAIA is a primary research institute for the National Strategic Smart City Program, supports Smart City Convergence Alliance, which more than 400 private companies have joined since 2019, and manages smart city regulatory sandbox projects entrusted by MOLIT.
Korea Land and Geospatial Informatix Corporation

Known as Korea Cadastral Survey Corporation until 2015, Korea Land and Geospatial Informatix Corporation (LX), a public organization, has been providing cadastral surveys and assistance to land administration systems, as well as developing valuable uses of geospatial information since 1977. As the main cadastral authority under Korea’s MOLIT, LX has been contributing to the protection of property rights for the Korean people and the development of the national cadastral system. LX is also a highly requested international organization, as LX contributed to the miraculous economic development of Korea through its valuable cadastral services. In response to the rapidly evolving world, LX has been focusing on spatial information through investing in human resources, adopting new technologies, and participating in complex projects. The smart cities partnership is one of the outcomes of LX’s efforts in applying geospatial information. As a global partner with the WBG and UN-GLTN, LX is a trusted organization, willing to communicate internationally by sharing knowledge on the cadastral system, land administration, and geospatial information. At the information booth, LX will introduce smart city land administration and geospatial technology.

Korea Land and Housing Corporation

The Korea Land and Housing Corporation (LH) was established in 2009 by merging Korea National Housing Corporation (established in 1962) with Korea Land Corporation (established in 1975) to balance the national development and stable housing supply. As the largest government-owned corporation of Korea, LH has been working on the development of smart cities and industrial complexes, housing construction and supply, urban regeneration, housing welfare, overseas urban development, and consulting services. Furthermore, LH has developed Korea’s first- and second-phase new towns as well as the Sejong multifunctional administrative city, and is currently developing Sejong National Smart City Pilot Project, Korea’s third-phase new towns, and Kuwait Al Abdulla smart city. At this event, LH presents a smart city exhibition booth and participates in the smart city workshop.

Korea Water Resources Corporation

Korea Water Resources Corporation (K-Water) has been doing its best to improve the national economy and the life standard through water management for the past 50 years. K Water will continue to create water management unification—one water—integrating water quality and quantity and innovating Korea’s water management. First, we will implement a sustainable water circulation system that has balanced and integrated water management that focuses on watersheds and considers people and nature together.

We will provide inclusive high-quality water services to all citizens to realize the nation’s water welfare. Furthermore, we will create new values for water in cities, such as water energy and water circulation, and contribute to national innovation growth by effectively fostering the domestic water industry. In addition, we will be reborn as a public corporation that leads the creation of social value by creating jobs.

Korea Overseas Infrastructure and Urban Development Corporation

Korea Overseas Infrastructure and Urban Development Corporation (KIND) is a new governmental institution founded in 2018. KIND is the only governmental institution in Korea which does not have any domestic operation, and its sole mandate is to promote Korean companies’ overseas investment in the fields of infrastructure and urban development.

KIND (a) builds its target project pipeline from ongoing discussions with global private and public sector parties; (b) bears necessary costs and carries out feasibility studies to develop the projects, and (c) eventually invests along with fellow Korean and global sponsors to finance the projects and ensure sound implementation and operation. Despite its short history, KIND has made direct project investments in energy, transport, urban development, and plant, and also participated in arrays of public-private infrastructure funds.
B. Key Figures

Hyuck Jin Kwon (Speaker, Thematic Workshop on Smart Cities)
Director General for the Urban Policy Bureau
Ministry of Land, Infrastructure, and Transport of Korea

Hyuck Jin Kwon is the Director General for the Urban Policy Bureau. Kwon worked for the Office of the President (2017–19) as a senior official responsible for housing and railway policy. His earlier careers inside the ministry include the Director of Railway Policy Division (2016–17), Director of Housing Policy Division (2014–16), Director of General Policy Planning Division (2013–14), Director of Housing Construction and Supply Division (2012–2013), and Director of Overseas Construction Division.

Kwon received an MBA degree in real estate from the University of Wisconsin (2003). From Yonsei University of Korea, he received a master’s degree (1996) and bachelor’s degree (1993), both in economics.

Richard Damania (Speaker, Thematic Workshop on Smart Cities)
Senior Economic Advisor, Water Global Practice
World Bank Group

Richard Damania is a Senior Economic Advisor in the World Bank’s Water Practice. He has held several positions in the World Bank including as the Lead Economist in the Africa Region’s Sustainable Development Department with oversight for analytical work on infrastructure, environmental and social issues in Africa. He has also served as Lead Economist in the South Asia and Latin America and Caribbean Regions of the World Bank. Prior to joining the World Bank was Professor of Economics at the University of Adelaide. He has published extensively with over 100 papers that span matters ranging from Natural Resources, Water, Infrastructure Economics, Climate Change and the Economics of Regulation. He has held numerous advisory positions with governments and in international organizations and serves on the Editorial Board of several prestigious academic journals. He will move his position as Chief Economist in the Sustainable Development Vice Presidency on March 1st, 2020.

Sameh Wahba (Speaker, MOLIT-WBG Joint Smart City Workshop, Opening Remarks)
Director
Social, Rural, Urban and Resilience Global Practice
World Bank Group

Sameh Wahba, an Egyptian national, is the Global Director for Urban and Territorial Development, Disaster Risk Management and Resilience at the WBG’s Social, Rural, Urban and Resilience Global Practice, based in Washington D.C, where he oversees the formulation of the World Bank’s strategy and the design and delivery of all lending, technical assistance, policy advisory activities and partnerships at the global level.

Prior to this, he was Practice Manager for the Urban and Disaster Risk Management unit in Africa and the Global Urban and Resilience Unit, and he served as Acting Director of Operations and Strategy for the Global Practice. He also worked as Sustainable Development Sector Leader for Brazil, based in Brasilia, and worked as urban specialist focused on housing, land, local economic development and municipal management and service delivery in Latin America and the Caribbean and the Middle East and North Africa Regions. Prior to joining the Bank in 2004, he worked at the Institute of Housing and Urban Development Studies in Rotterdam and at the Harvard Center for Urban Development Studies.

He holds a Ph.D. and Masters in urban planning from Harvard University, and a B.Sc and M.Sc in Architectural Engineering from Cairo University. He speaks Arabic, French, English and Portuguese. Most recently, he co-authored the Bank’s flagship publication on “Regenerating Urban Land: A Practitioner’s Guide to Leveraging Private Investment.”
Maitreyi Bordia Das *(Speaker, MOLIT-WBG Joint Smart City Workshop, Opening Remarks)*  
Practice Manager  
Urban, Disaster Risk Management, Resilience, and Land Global Practice  
World Bank Group

Maitreyi B. Das is Practice Manager in the World Bank’s Urban, Disaster Risk Management, Resilience, and Land Global Practice. Based in Washington, DC, she works on a set of issues that have to do with reducing inequality and exclusion.

Das has worked in areas related to both human development and infrastructure at the World Bank. Of these, social protection, social development, health, urban development, and water and sanitation stand out. Das has led, and been part of, several research and policy initiatives. She was the lead author of the 2013 report, “Inclusion Matters: The Foundation for Shared Prosperity”; the 2015 publication, “Scaling the Heights: Social Inclusion and Sustainable Development in Himachal Pradesh”; and most recently, “The Rising Tide: A New Look at Water and Gender.”

Das started her career as a lecturer at St. Stephen’s College, University of Delhi, has been a MacArthur Fellow at the Harvard Center of Population and Development Studies, and worked as adviser to the United Nations Development Programme. She has a PhD in sociology (demography) from the University of Maryland. Before joining the World Bank, Maitreyi was in the Indian Administrative Service (IAS).

Chang-hak Choi  
President  
Korea Land and Geospatial Informatix Corporation

Chang-hak Choi is President of Korea Land and Geospatial Informatix Corporation (LX). Choi served as President of Daegu Digital Industry Promotion Agency (2016–18), President of Spatial Information Research Institute of LX (2013–16), President of Korea Culture Information Service Agency (2010–12), CEO of e-Gov Consulting (2007–10) and Director General of the Presidential Committee on Government Innovation and Decentralization (2003–07). From 1999 to 2003, he was the Chief Information Officer of Daegu Metropolitan City.

Choi holds a PhD in public administration from Daegu University (1993). Thanks to his academic background as well as wide work experiences in both central and local governments, Choi became one of the key experts who helped early adoption of e-government in Korea. His expertise enabled him to serve as an adviser to foreign governments including Paraguay (2009) and Vietnam (2007).

Jong-Sung Hwang *(Speaker, Thematic Workshop on Smart Cities)*  
Master Planner, Busan EDC National Pilot Smart City Pilot Project, Lead Researcher, National Information Society Agency

Jong-Sung Hwang is a lead researcher at the National Information Society Agency, leading research on smart city and future government. He also serves as the Master Planner of Busan National Smart City Pilot Project. From 2014 to 2017 Hwang was a member of Korea’s Gov3.0 Committee, which designs and coordinates government innovation initiatives at a vice-ministerial level.

Hwang also worked as a Chief Information Officer of the Seoul metropolitan government from 2011 to 2013 and as Secretary General of the World e-Governments Organization of Cities and Local Governments (WeGO). As a CIO of Seoul, he launched the Smart Seoul 2015 initiatives in 2011 and has made Seoul the best model case for the smart city recommended by the International Telecommunication Union (ITU). He was awarded the Order of Civil Merit, Camellia Medal, by the Korean government in 2016.

Hwang holds a master’s degree and doctoral degree in political science from Yonsei University in Korea.
Doshik Yang
Director of the Centre for Future City (Architect, Urban Designer, Town Planner)
Korea Water Resources Corporation

Doshik Yang is the Director of K-Water (Korea Water Resources Corporation). Yang joined K-water in 2013 and is responsible for master planning for Busan Eco Delta City, which covers 11 million square meters and has a population of 75,100 people. Yang was recently appointed as K-Water’s internal Master Planner for the National Smart City District in Busan Eco Delta City in 2018. He gives professional consultations on urban development and waterfront regeneration for central and local governments. Yang is planning the Saemanguem waterfront development project (6.6 square kilometers) as a master planner for the central government since 2017.

Yang has been trained and has practiced as an architect, urban designer, and town planner. He received a bachelor’s of architecture in Korea (1997), master’s degree in architectural design (1999), and PhD in urban planning at The Bartlett School, University College London (UCL) in 2006. He was a teaching fellow at The Bartlett, UCL, and an adjunct professor at KAIST in Korea for many years.

Jung-hoon (John) Lee
Director of Information Systems Intelligence Lab
Yonsei University
Chair of Smart City Committee
Seoul Metropolitan Government

Jung-hoon (John) Lee is currently Professor of Technology and Innovation Management at the Graduate School of Information, Yonsei University, Seoul, Korea.

Lee is recognized as one of the leading smart city experts around the globe, and he has been involved in several leading smart city projects sponsored by the Korean government, including urban regeneration based on smart technologies (2014–16) and smart city R&D projects Phase II (2014–18).

Lee is currently taking a leading role as manager of the project management office (PMO) for a national smart city R&D project. He is particularly involved in index development, service design based on design thinking and crowdsourcing-based citizen engagement, and a smart mobility (I-MoD) challenge project with Hyundai Motors (2019) with the Ministry of Land, Infrastructure, and Transport. Lee is currently serving as the Chair of the Smart City Committee for the Seoul Metropolitan Government and is on the board of directors of Seoul Digital Foundation, the think-tank institution for Smart City policy development (2019). Lee also has been involved in a citizen engagement platform and living lab implementation for the city of Daegu (2017–19), Incheon (2019), and Gongsan (2019) and was developing a smart city index for both Seoul and Busan (2017–18).

Lee’s first initiative was the internet of things (IoT)-based Smart City Development and Living Lab project (2015–16) with SK Telecom, the largest mobile carrier, and Busan metropolitan city, sponsored by the Ministry of Science and ICT.

Byoung-hong Han
Vice President
Korea Land & Housing Corporation

Byoung-hong Han is the Vice President of Korea Land and Housing Corporation (LH) and the Chief of the Smart City Division. Since he joined LH in 1989, Han has managed a variety of land and city development projects organized by LH.

Before being nominated to his current post, Han served as the Chief of Urban Regeneration Division (2019), General Director for Daegu & Gyeongbuk Regional Division (2017–18), Director for Happy Housing Planning Office (2014–15), Director for Sejong & InnosCity Office (2013), and Director for Incheon Regional Division (2013). In 2016, he finished his training at National Human Resources Development Institute. Mr. Han received a bachelor’s degree in civil engineering from Yeungnam University (1989).
Youngseong Koo is currently a Research Fellow at Smart City Innovation Center at Korea Agency for Infrastructure Technology Advancement (KAIA). Serving as a Director in Strategic Planning Division, Infrastructure Division, and Plant Division, Koo played a role in making a R&D roadmap, policy development, and R&D management. Before joining KAIA in 2005, he managed several private investment infrastructure projects and designed bridge structures as a professional engineer in local firms. Koo received a master’s degree in business administration from University of Illinois at Urbana–Champaign in 2005. Koo also graduated from Seoul National University of Korea with a master’s degree (1994) and bachelor’s degree (1991) in civil and environmental engineering.

Kwangbok (Ryan) Lee, as the head of Smart Infrastructure and Urban Development, Smart Infrastructure and Urban Development Korea Overseas Infrastructure and Urban Development Corporation (KIND), develops and invests in smart city and smart infrastructure projects currently in Asia, Latin America, Middle East, and Africa regions. Before he shifted to the public sector, joining KIND at its inception in June 2018, his career predominantly unfolded in the private sector. He worked for Samsung C&T (Construction and Trading) Corporation as Regional Director of East Africa stationed in Nairobi, Kenya (2013–18), and as energy/ICT/Infrastructure project manager in 2006–13 in Samsung C&T’s Seoul head office. He worked at Financial Times Seoul print site as a part-time quality manager in 2003–05 while working on his MBA, and also served in the military as an army officer in 2001–03.

Lee is an engineer with a master’s degree in business administration acquired in Korea and a master of arts degree (all but dissertation) in rural sociology and community development from University of Nairobi, Kenya. Lee’s presentation will mainly deal with financing and investment trends and schemes for smart city development. Lee will also cover the Korean public sector’s various supports to facilitate project development and has suggested a cooperation scheme between KIND and the International Finance Corporation (IFC).

**MAIN CONTACTS**

For inquiries on Smart Cities activities and to request bilateral meetings, please contact the following individuals:

- **Hyoun Gun Wang,** Senior Economist: hwang4@worldbank.org
- **Se-Eun Hwang,** Urban Development Analyst: shwang1@worldbank.org
- **Gunes Basat,** Consultant: gbasat@worldbank.org
- **Soo Kyung Yeo,** Consultant: syeo2@worldbank.org
OVERVIEW

The Korea Green Growth Trust Fund (KGGTF) is a partnership between the WBG and the Republic of Korea. Funded by the Ministry of Economy and Finance of South Korea, at a total of US$88 million through 2021, and managed by the WBG, the trust fund supports results-driven programs that combine development goals with environmental and socioeconomic sustainability.

The trust fund facilitates green growth programs across the urban, transport, information and communication technology (ICT), energy, environment, water, agriculture, and climate sectors. Many of its programs integrate two or more sectors at both the planning and implementation stages. This multisector range provides opportunities for cost savings, data collection, citizen engagement, and new forms of transparency and governance. Knowledge sharing and network building are an integral part of green growth implementation.

Join us for a plenary session during Korea Innovation Week on “Green Innovation on Circular Economy and Disruptive Technologies for Agriculture,” followed by thematic workshops that share tangible examples and innovative approaches to achieve inclusive green growth. The WBG will host technical experts from Korea who will present on how they are leveraging knowledge and innovative technology to improve the environmental and agricultural sectors.

Circular Economy: Evidence shows that the world’s current production patterns are unsustainable. Humanity must stop overexploiting natural resources to create manufactured goods that eventually end up in a landfill, putting an enormous toll on our planet. There has to be a fundamental shift in how we produce and consume. The circular economy is a new way to design, produce, and consume within the context of finite resources. Under this model, products and materials are used for as long as possible. The circular economy promotes the use of renewable energy, eliminates the use of toxic chemicals, and aims to eliminate waste through superior design of materials, products, systems, and business models.

Disruptive Technologies for Agriculture: Agriculture and food transformation are key to reducing poverty, improving livelihoods, creating better health and environmental outcomes. Food production and trade processes from farm to fork are incredibly complex and face great challenges. Although food availability is high, and yields have managed to keep up with population growth, business as usual is not working for farmers, many of whom struggle with poverty. Poor nutrition is a leading cause of disease and premature death and slows human development, and agriculture is a major contributor to various forms of pollution and environmental degradation. Digital technologies can accelerate the transformation of farms and the broader food system for better outcomes. This session will focus on the role of the public sector in the digital acceleration of the agricultural and food transformation.

ACTIVITIES

A. Thematic Workshop

The Thematic Workshop on Green Innovation, Circular Economy and Disruptive Technologies for Agriculture, will take place on the morning of day 2 of Korea Innovation Week in the main event venue (MC Atrium). MOUs and SOIs will be signed prior to the main session. The main session will run in an ignite talk–style presentation followed by a short Q&A. (Follow-up working sessions with individual GPs will be determined based on each GP’s needs in the following days, February 19–21.)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:50-10:00am</td>
<td>Korea’s Case Circular Economy and SWM</td>
<td>MOE or KEITI</td>
</tr>
<tr>
<td>10:00-10:05am</td>
<td>A Global Snapshot of Solid Waste Management</td>
<td>WB GSURR GP</td>
</tr>
<tr>
<td>10:05-10:10am</td>
<td>Plastics and the Circular Economy, World Bank’s Approach</td>
<td>WB ENR GP</td>
</tr>
<tr>
<td>10:10-10:20am</td>
<td>KEITI’s Approach for Research and Development of SWM and CE Related Technologies</td>
<td>KEITI</td>
</tr>
<tr>
<td>10:20-10:25am</td>
<td>Case Study: Circular Economy and Solid Waste Management in Cambodia’s SWM Case Study – Working Together with Korea</td>
<td>WB ENR GP</td>
</tr>
<tr>
<td>10:25-10:30am</td>
<td>Forest and Circular Economy, World Bank’s Approach</td>
<td>WB ENR GP</td>
</tr>
<tr>
<td>10:30-10:40am</td>
<td>Q&amp;A</td>
<td></td>
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<tr>
<td>10:40-10:45am</td>
<td>Transition Break</td>
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<tr>
<td>10:45-10:50am</td>
<td>WB’s Work on Agriculture Using Disruptive Technology</td>
<td>WB AGF GP</td>
</tr>
<tr>
<td>10:50-10:55am</td>
<td>Korea’s Policy Direction toward innovative agriculture technology</td>
<td>MAFRA</td>
</tr>
<tr>
<td>10:55-11:00am</td>
<td>Scaling-Up Digitally Enabled Disruptive Technologies in Africa: Million Farmer Platform</td>
<td>WB AGF GP</td>
</tr>
<tr>
<td>11:00-11:05am</td>
<td>RDA’s Case (global knowledge sharing and capacity building)</td>
<td>RDA</td>
</tr>
<tr>
<td>11:05-11:10am</td>
<td>Use of disruptive technology in the Livestock Industry</td>
<td>WB AGF GP</td>
</tr>
<tr>
<td>11:10-11:15am</td>
<td>KRC’s Case (region and specific topic to be confirmed)</td>
<td>KRC</td>
</tr>
<tr>
<td>11:15-11:20am</td>
<td>EPIS’s Work in Developing Countries (region and specific topic to be confirmed)</td>
<td>EPIS</td>
</tr>
<tr>
<td>11:20-11:30am</td>
<td>Q&amp;A</td>
<td></td>
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<tr>
<td>11:30am-1:00pm</td>
<td>KGGTF-sponsored lunch for Green Innovation Session Speakers/Panelist (by invitation only)</td>
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</tbody>
</table>
### Additional Thematic Workshops

#### SUMMARY OF THEMATIC WORKSHOPS

<table>
<thead>
<tr>
<th>TIME</th>
<th>LOCATION</th>
<th>SESSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed., Feb.19</td>
<td>12:00-1:30pm</td>
<td>MC 7-370</td>
</tr>
<tr>
<td>Wed., Feb. 19</td>
<td>1:30-3:00pm</td>
<td>MC 10-100</td>
</tr>
<tr>
<td>Wed., Feb. 19</td>
<td>2:30-5:30pm</td>
<td>MC C2-350</td>
</tr>
<tr>
<td>Thu., Feb. 20</td>
<td>12:30-4:00pm</td>
<td>MC 7-860</td>
</tr>
<tr>
<td>Thu., Feb. 20</td>
<td>2:00-5:30pm</td>
<td>MC 7-300</td>
</tr>
</tbody>
</table>

#### THEMATIC WORKSHOPS IN DETAIL

##### Wednesday, February 19, 2020 at MC 10-100

**Agriculture Observatory**

<table>
<thead>
<tr>
<th>TIME</th>
<th>PROGRAM/SESSION</th>
<th>ORGANIZATION</th>
<th>SPEAKER</th>
</tr>
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<tbody>
<tr>
<td>1:30-1:40pm</td>
<td>Introduction of Participants</td>
<td>WB</td>
<td>Julian Lampietti</td>
</tr>
<tr>
<td>1:40-1:50pm</td>
<td>WB Presentation 1: Agriculture GP Business</td>
<td>WB</td>
<td>Julian Lampietti</td>
</tr>
<tr>
<td></td>
<td>Portfolio Overview</td>
<td></td>
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<tr>
<td>1:50-2:10pm</td>
<td>Korea Presentation 1: Korea’s Overall</td>
<td>KRC</td>
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<tr>
<td></td>
<td>Agriculture Sector ODA Strategy, Results and</td>
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<td></td>
<td>Future Plans</td>
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<tr>
<td>2:10-2:20pm</td>
<td>Short Q&amp;A (Clarifications and Discussion)</td>
<td></td>
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</tr>
<tr>
<td>2:20-2:50pm</td>
<td>WB Presentation 2: Demonstration of</td>
<td>WB</td>
<td>Carolina Sartorato Silva Franca</td>
</tr>
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<td></td>
<td>Agriculture Observatory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:50-3:00pm</td>
<td>Short Q&amp;A (Clarifications and Discussion)</td>
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</table>

##### Wednesday, February 19, 2020 at MC C2-350

**Innovation and Technology in Forestry**

<table>
<thead>
<tr>
<th>TIME</th>
<th>THEMATIC FOCUS, PROGRAM/SESSION</th>
<th>ORGANIZATION</th>
<th>SPEAKER</th>
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</thead>
<tbody>
<tr>
<td>2:30-2:35pm</td>
<td>Opening Remarks from WB</td>
<td>WB</td>
<td>Karin Kemper, Global Director</td>
</tr>
<tr>
<td>2:35-2:55pm</td>
<td><strong>Opening Remarks</strong>: Successful Forest Restoration History of Korea</td>
<td>KFS</td>
<td>Deputy Minister</td>
</tr>
<tr>
<td>TIME</td>
<td>THEMATIC FOCUS, PROGRAM/SESSION</td>
<td>ORGANIZATION</td>
<td>SPEAKER</td>
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<tr>
<td>2:55-3:10pm</td>
<td>Global Forest and Landscapes Portfolio</td>
<td>WB</td>
<td>Garo Batmanian, Global Lead Forest and Landscapes</td>
</tr>
<tr>
<td>3:10-3:20pm</td>
<td>Q &amp; A</td>
<td>WB</td>
<td>Moderator: Christophe Crepin, Manager, World Bank</td>
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<td></td>
<td><strong>International Forest Cooperation</strong></td>
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<tr>
<td>3:20-3:30pm</td>
<td>International Forest Cooperation of Korea</td>
<td>KFS</td>
<td>Deputy Director</td>
</tr>
<tr>
<td>3:30-3:40pm</td>
<td>ECA Forest Landscape</td>
<td>WB</td>
<td>Tuuka Castren, Senior Forestry Specialist</td>
</tr>
<tr>
<td>3:40-3:50pm</td>
<td>Q &amp; A</td>
<td>WB</td>
<td>Moderator: Kseniya Lvovsky, Manager, World Bank</td>
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<tr>
<td></td>
<td><strong>SHORT BREAK</strong></td>
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<tr>
<td></td>
<td><strong>Innovation and Technology in Forestry</strong></td>
<td></td>
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<tr>
<td>4:00-4:15pm</td>
<td>Forest ICT of Korea (and Using Technology for Monitoring)</td>
<td>KFS</td>
<td>Deputy Director</td>
</tr>
<tr>
<td>4:15-4:25pm</td>
<td>EAP Forest Landscapes</td>
<td>WB</td>
<td>Maurice Rawlins, NRM Specialist</td>
</tr>
<tr>
<td>4:25-4:30pm</td>
<td>SAR Forest Landscapes</td>
<td>WB</td>
<td>TBC</td>
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<tr>
<td>4:30-4:35pm</td>
<td>Q &amp; A</td>
<td></td>
<td>Moderator: Paola Agostini, Lead NRM Specialist World Bank (TBC)</td>
</tr>
<tr>
<td></td>
<td><strong>Forest and People</strong></td>
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<tr>
<td>4:35-5:00pm</td>
<td>Peace Forest Initiative (and Ecotourism)</td>
<td>KFS</td>
<td>REDD+ Coordinator</td>
</tr>
<tr>
<td>5:00-5:10pm</td>
<td>Forest Landscapes in Fragile, Conflict and Violence (FCV) Situations</td>
<td>WB</td>
<td>Tracy Hart, Senior Environmental Specialist</td>
</tr>
<tr>
<td>5:10-5:30pm</td>
<td>Q &amp; A</td>
<td></td>
<td>Moderator: World Bank</td>
</tr>
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</table>
### Best Practices on Disaster Risk Modeling and Management

**Thursday, February 20, 2020**

<table>
<thead>
<tr>
<th>TIME</th>
<th>PROGRAM/SESSION</th>
<th>ORGANIZATION</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30-12:40pm</td>
<td>Welcome and Introductions</td>
<td>WB</td>
<td></td>
</tr>
<tr>
<td>12:40-1:00pm</td>
<td>Brief Introduction of ASA, Report Findings, and Feedback Sharing on Guidance Note (followed by Q&amp;A)</td>
<td>WB</td>
<td>Urvashi Narain</td>
</tr>
<tr>
<td>1:00-1:20pm</td>
<td>Introduction of WB DRM Agenda/Program</td>
<td>WB</td>
<td>Akiko Toya, Program Officer, Global Facility for Disaster Reduction and Recovery (GFDRR)</td>
</tr>
<tr>
<td>1:20-2:00pm</td>
<td><strong>Introduction of NDMI and Korea’s Disaster Risk Modeling and Management (followed by Q&amp;A with NDMI)</strong></td>
<td>NDMI</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Introduction of NDMI</td>
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<tr>
<td></td>
<td>• Main Research Outcomes</td>
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<tr>
<td></td>
<td>• Capacity Building for Local Government on Disaster Risk Reduction</td>
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<tr>
<td></td>
<td>• Global DRR Project in NDMI</td>
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<tr>
<td>2:00-2:15pm</td>
<td>Coffee Break</td>
<td></td>
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</tr>
<tr>
<td>2:15-2:40pm</td>
<td><strong>Case Presentation 1: Landslide Disaster Modeling and Management</strong></td>
<td>NDMI</td>
<td></td>
</tr>
<tr>
<td>2:40-3:05pm</td>
<td><strong>Case Presentation 2: Urban Flood Forecasting Technology</strong></td>
<td>NDMI</td>
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<tr>
<td></td>
<td>• Urban Flood Warning Criteria Using Machine Learning (Deep Learning)</td>
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<td></td>
<td>• Urban Flood Analysis Model (UFAM)</td>
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<td></td>
<td>• Real-Time Urban Flood Monitoring System</td>
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<tr>
<td>3:05-3:30pm</td>
<td><strong>Case Presentation 3: Development of Integrated Drought Forecasting Warning Techniques in Korea</strong></td>
<td>NDMI</td>
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</tr>
<tr>
<td>3:30-4:00pm</td>
<td>Q&amp;A and Wrap-up</td>
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## C. Bilateral Meetings

### Tuesday, February 18, 2020

<table>
<thead>
<tr>
<th>BANK TTL</th>
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<th>MEETING TOPICS</th>
<th>TIME</th>
<th>VENUE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Environment, Natural Resources, and Blue Economy Global Practice</strong></td>
<td></td>
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</tr>
<tr>
<td>Jiang Ru</td>
<td>NDMI</td>
<td>Bilateral Meeting with ENB SAR Team</td>
<td>1:00-2:00pm</td>
<td>MC 9-500</td>
</tr>
<tr>
<td>Urvashi Narain</td>
<td>NDMI</td>
<td>Bilateral Meeting with ENB KGGTF Grant Team – BBL Prep</td>
<td>2:00-3:30pm</td>
<td>MC 10-715</td>
</tr>
<tr>
<td>Jiang Ru</td>
<td>MOE/KEITI</td>
<td>Bilateral Meeting with ENB SAR Team</td>
<td>2:15-3:15pm</td>
<td>MC 9-500</td>
</tr>
<tr>
<td>Ernesto Sanchez-Triana</td>
<td>MOE/KEITI</td>
<td>Bilateral Meeting with ENB Circular Economy Team</td>
<td>4:30-5:30pm</td>
<td>MC 5-401</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>AGF Global Practice</strong></td>
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<tr>
<td>Julian Lampietti/Lystra</td>
<td>MAFRA &amp; KRC</td>
<td>Overall Collaboration Strategy with MAFRA and Related entities (KRC)</td>
<td>11:00-12:30pm</td>
<td>MC 8-500</td>
</tr>
<tr>
<td>Julian Lampietti/Lystra</td>
<td>RDA</td>
<td>High level meetings with RDA</td>
<td>2:00-3:00pm</td>
<td>MC 8-500</td>
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### Wednesday, February 19, 2020

<table>
<thead>
<tr>
<th>BANK TTL</th>
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<th>MEETING TOPICS</th>
<th>TIME</th>
<th>VENUE</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Environment, Natural Resources, and Blue Economy Global Practice</strong></td>
<td></td>
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</tr>
<tr>
<td>Christophe Crepin</td>
<td>KFS</td>
<td>Bilateral Meeting with ENB SAR Region</td>
<td>8:00-9:00am</td>
<td>TBC</td>
</tr>
<tr>
<td>Martin Heger</td>
<td>KEITI</td>
<td>Bilateral Meeting with ENB MENA</td>
<td>1:30-3:30pm</td>
<td>MC 6-300</td>
</tr>
<tr>
<td>Christophe Crepin and Sachiko Kondo</td>
<td>MOE/KEITI</td>
<td>Bilateral Meeting with ENB SAR Region - Follow-up on discussion/collaboration</td>
<td>4:30-6:00pm</td>
<td>TBC</td>
</tr>
<tr>
<td>BANK TTL</td>
<td>ORGANIZATION</td>
<td>MEETING TOPICS</td>
<td>TIME</td>
<td>VENUE</td>
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<td></td>
<td>KF S</td>
<td>Bilateral Meeting with ENB ECA Region</td>
<td>9:00-10:30am</td>
<td>MC 9-715</td>
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<tr>
<td></td>
<td>MOE/KEITI</td>
<td>Bilateral Meeting with ENB ECA Region</td>
<td>11:00am-12:30pm</td>
<td>MC 9-715</td>
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<table>
<thead>
<tr>
<th>AGF Global Practice</th>
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<tbody>
<tr>
<td>Frauke Jungbluth (coordinators)</td>
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<tr>
<td>Preeti Ahuja/ Michael Morris/Katie Kennedy Freeman (coordinators)</td>
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</tbody>
</table>
D. Informational Booth

The Green Innovation Informational Booth will showcase various green innovation cases of policy formation and implementation, capacity building and knowledge sharing, and application of smart and disruptive technologies, especially in the environment and agriculture sectors. The booth will consist of three main themes: smart agriculture, circular economy, and green growth collaboration across the WBG.

Korea Environmental Industry and Technology Institute (KEITI) and Korea Environment Corporation (KECO) will exhibit on the circular economy on behalf of the Ministry of Environment (MOE).

Korea Rural Community Corporation (KRC) and Korea Agency of Education, Promotion and Information Service in Food, Agriculture, Forestry and Fisheries (EPIS) will exhibit smart and disruptive agriculture technologies on behalf of the Ministry of Agriculture, Food and Rural Affairs (MAFRA). In addition, Rural Development Administration (RDA) will also present their best practice agriculture project cases.

KGGTF will also showcase the fund and prior activities on green growth innovation and collaboration across the WBG sectors.

<table>
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<tr>
<th>Kate Hollifield/ Willem Janssen (coordinators)</th>
<th>MAFRA/RDA/ KRC &amp; EPIS</th>
<th>Bilateral Meeting with AGF SA Region</th>
<th>11:00-12:00pm</th>
<th>MC 11-500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mekbib and Paavo (coordinators)</td>
<td>MAFRA/RDA/ KRC &amp; EPIS</td>
<td>Bilateral Meeting with AGR EAP Region</td>
<td>Presentation- Mekbib Haile, Paavo Eliste &amp; Parmesh Shah: Harnessing the Potential of Digital Agriculture Technologies for Farmers in East Asia and the Pacific</td>
<td>3:30-4:30 pm</td>
</tr>
</tbody>
</table>

![Diagram of the venue layout](image-url)
A. Korean Institutions

Ministry of Environment
The Ministry of Environment (MOE) stems from a ministry established in 1967. Their focus is to establish policies that protect society from environmental pollution and improve the quality of life for the public so citizens can enjoy the ambient natural environment, clean water, and clear skies. The tasks of the MOE include (a) enactment and amendment of environmental laws and regulations; (b) introduction of environmental institutions; (c) building up of framework structures for environmental administration; (d) drafting and implementation of mid- and long-term comprehensive measures for environmental conservation; (e) setting of standards for regulations; (f) administrative and financial support to local governments for environmental management; (g) environmental cooperation with the Democratic People’s Republic of Korea; and (h) environmental cooperation with other countries around the world.

Korea Environmental Industry and Technology Institute
Korea Environmental Industry and Technology Institute (KEITI), a quasi-governmental organization affiliated with the Ministry of Environment, is committed to achieving both environmental protection and economic growth. To fulfill its mission, the institute supports the creation of environmental technologies, nurturing of environmental industries, and promotion of an ecofriendly lifestyle. KEITI’s core task is to support small and medium-size enterprises that possess outstanding technologies but lack the resources to commercialize them. KEITI provides these companies with the support they need during the start-up and growth stages to help them advance into the global market. Additionally, KEITI nurtures professional manpower in the field of environmental industry and contributes to providing outstanding human resources to companies and creating job opportunities in related fields.

Korea Environment Corporation
Korea Environment Corporation (KECO) is a state-owned agency, established to handle environment-related projects with maximum efficiency. These projects include pollution prevention, environmental improvement, and resource recirculation. In addition, KECO will be involved in the installation of a circulatory resource management system and the presentation of an environmentally friendly blueprint for national development.

Korea Forestry Service
Korea Forestry Service (KFS) was founded in 1967 with the aim of restoring the land degraded during the Korean War. KFS is responsible for establishing and implementing forest-related laws and policies. It directly manages national forest and cooperates with provincial and metropolitan cities’ local administrative organizations to help manage public forests in a sustainable way. It also provides technical and financial support for the management of private forests. Most recently, KFS has been implementing forest policies to improve the quality of life for the public by offering recreational forests and healing forests and by expanding urban green areas. It also develops and supports various bilateral and multilateral projects and programs to share with the international community Korea’s knowledge and technology gained through its successful restoration experiences.

National Disaster Management Research Institute
National Disaster Management Research Institute (NDMI) is the control tower of disaster safety science technology under the Ministry of the Interior and Safety. As a national research institute for disaster and safety management. NDMI research focuses on practical disaster management technologies and supports the government’s policies around disaster and safety management.
Ministry of Agriculture, Food and Rural Affairs

Ministry of Agriculture, Food and Rural Affairs (MAFRA) began in 1948 to establish policies that support the agricultural, rural, forestry and livestock industries. They seek to develop agriculture into an industry that supports public health and maintains quality of life for residents of rural villages. While encompassing many areas, its three core areas are: increasing incomes for farmers, enhancing the welfare of citizens in rural areas, and improving agricultural competitiveness. MAFRA has developed innovative policies and governance structures that create opportunities by combining the energy of farmers with that of the government.

Korea Agency of Education, Promotion and Information Service in Food, Agriculture, Forestry and Fisheries

The strategic goals of Korea Agency of Education, Promotion and Information Service in Food, Agriculture, Forestry and Fisheries (EPIS) are to develop human resources in the industry, promote agriculture and aquaculture products, spread the value of Korean production, encourage intellectual convergence of the products, and develop a sustainable, innovative management mechanism. EPIS specializes in the informatization of the food, agriculture, and forestry industry, while protecting industrial property rights and encouraging the international exchange of information.

Korea Rural Community Corporation

Since 1908, Korea Rural Community Corporation (KRC) has been a leading institution, founding and expanding the agricultural infrastructure and promoting the improvement of local amenities, including water resources management. KRC is building tailored agricultural infrastructure to support the diverse uses of farmland and safe agricultural production. KRC also contributes to enhancing the quality of rural residents’ life and improving their income by securing adequate amount of clean water through smart and efficient water management. KRC also supports young and full-time farmers and helps to develop farmland in innovative ways.

Rural Development Administration

Rural Development Administration (RDA) is a central administrative body under the Ministry of Agriculture, Food and Rural Affairs. RDA generates advanced agricultural technologies that can be converged with ICT-BT, as well as actively develops field-based technologies with practical applications that will benefit farmers. The core mission is to conduct agricultural R&D and provide customized extension services and to disseminates technologies that reduce costs and produce high-quality products.

B. Key Figures

Byeong-Am Choi is a forestry expert been working in Korea Forest Service (KFS) for more than 27 years. He holds a Master of Ecological Economics, School of Earth and Environment, University of Leeds and Master of Public Administration, Department of Public Administration, Inha University. He had worked for Planning and Coordination, Forest Welfare, Forest Protection, Forest Use Bureaus.
Byung Mun Kang
Executive Director
Agricultural Infrastructure Development

Byung Mun Kang has worked for Korea Rural Community Corporation (KRC) in the offices of water resources planning, rural development, disaster management, maintenance, and Gyeongnan and Changnyeong regional offices. He holds Master’s degree in Engineering and Bachelor’s degree in Civil Engineering and Social welfare.

Suk Young Hong
Director
Soil and Fertilizer Division, National Institute of Agricultural Sciences
Rural Development Administration

Suk Young Hong is responsible for soil and fertilizer management, and she was responsible for research on remote sensing in agricultural application and establishment of soil & environment information system and digital soil mapping. She holds Ph.D and M.S. in Agronomy.

MAIN CONTACTS
For inquiries on Green Innovation activities and to request bilateral meetings, please contact:

- Eun Joo Yi, KGGTF Program Manager: eyi@worldbank.org
- John Hosung Lee, Operations Officer: jlee22@worldbank.org (Agriculture related)
- Na Ra Kim, ETC: nkim4@worldbank.org (Environment related)
SECTION 5: Education and Skills for the Future Workplace

OVERVIEW
The global economy has been undergoing sweeping structural changes: shifting patterns of trade, disruptive and emerging technologies, and rapid demographic transitions. These structural changes have all been reshaping labor markets worldwide. In particular, digital technologies are affecting production processes in industries and labor markets across the globe. The majority of large firms surveyed across 20 high- and middle-income countries (including eight in East Asia) report an expected increase in the use of big data, internet of things, app- and web-enabled markets, machine learning, and cloud computing in the next four years (WEF 2018). Even among smaller firms, digital technologies are being widely adopted, as seen in app-based platforms. Traditional sectors that appear relatively far from technology adoption also have embraced new technologies and have expanded markets for household enterprises (for example, soil and rain monitors for farmers, GPS tracking for three-wheelers).

Many countries have recognized these forthcoming changes and are preparing appropriate responses, including designing and implementing new policies and programs to prepare their workforce for the changing world of work. These policies are broadly concerned with three areas: (a) labor market mobility and flexibility; (b) skills development focusing on job-specific (higher-order cognitive), digital, and socio-emotional skills; and (c) worker protection in the context of changing employment relations.

Building on the strong collaboration of Bank teams with various Korean institutions, the Education (Edu) and Social Protection and Jobs (SPJ) Global Practices (GP) are organizing a keynote session on February 19, 2020, and five subsequent sessions on February 19 and 20, 2020, to share examples of Korea-World Bank Partnership Facility (KWPF)-funded activities on the topic of skills for future jobs. Among various policy responses, the workshop will highlight a few innovations in skills development and labor market interventions. In addition, in an effort to explore further collaboration opportunities with Korean entities, several KWPF activities related to the Bank’s support for client countries to prepare their future workforce to the changing nature of work will be showcased. The workshop also will highlight the use of technology for better learning (for example, for youth to acquire skills for future jobs) and will showcase cases of job-specific skills development and labor market intermediation using technology.

ACTIVITIES
A. Thematic Workshops
The thematic workshop on Education and Social Protection and Jobs will present policy innovations in Korea designed to prepare the future workforce for the changing nature of work. It will feature sessions on SMART Classrooms, big data and AI-supported job and skills matching platforms, skills forecasting and the future of work, a Korean migration system called Employment Permit System (EPS), and socio-emotional learning and the experience of Meister schools. Policymakers, practitioners, and Korean education and labor market experts from Korea and the WBG will present their experiences and lessons learned. Participants will have the chance to ask questions and explore future partnership opportunities with the invited Korean institutions.

KOREA INNOVATION WEEK, DAY 2

Wednesday, February 19, 2020
09:30-11:00am at MC 2-800
Session 1: Developing Skills for Future Jobs

This session will showcase some innovative approaches taken by relevant public skills development institutions and universities to meet the new skills requirements from employers and society.

Moderator:
• Lim Wonhyuk, Professor, Korea Development Institute (KDI) School of Public Policy and Management

Panelists:
• Misook Lee, Deputy Director of Global HRD Cooperation Department, Human Resources Development Service of Korea (HRD Korea)
• Jin Young Kim, Dean of Korea Institute of Science and Technology (KIST) School
• Junseok Hwang, Dean of Global R&D Center, Seoul National University
### Session 2: Promoting Learning through SMART Classrooms

This session will showcase an example of a framework of Korean education policies and the initiative of the Smart Classroom and discuss how this initiative has contributed to improving learning quality and reducing the education gap in Korea.

**Moderator:**
- Toby Linden, Practice Manager, Education East Asia and Pacific Region, World Bank

**Presenters:**
- Sanghyun Jang, Director of Higher Education and Academic Division, Korea Education and Research Information Service (KERIS)
- Cristobal Cobo, Senior Education Specialist, Education GP, World Bank

### Session 3: Big Data-Supported Job Matching (SPJ) in Korea and Indonesia

In this session, KEIS will present the case of WorkNet (a Korean public job matching platform) and the use of advanced technology, such as AI and big data. Also, SPJ GP will share partnership experience with KEIS for assessing a job matching system managed by the Indonesian government.

**Moderator:**
- Wendy Cunningham, Lead Economist, Social Protection and Jobs GP, World Bank

**Presenters:**
- Gyun Kim, Director of Korea Employment Information Service (KEIS)
- Josefina Posadas, Senior Economist of Social Protection and Jobs GP, World Bank

### Session 4: Skills Forecasting and Its Application in Korea and the United States

The overall intention of skills forecasting is to provide insights into a country’s current state of skills and future demand for strategic skills. This session aims to present a skills forecasting exercise and its applications to the policies of Korea and the United States.

**Moderator:**
- Yoonyoung Cho, Senior Economist, Social Protection and Jobs GP, World Bank

**Presenters:**
- Gawoon Ban, Research Fellow of Korea Research Institute for Vocational Education and Training (KRIVET)
- Jaewook Nahm, Associate Research Fellow (KRIVET)
- Michael Wolf, Division Chief of U.S. Bureau of Labor Statistics

**Discussant:**
- Maheshwor Shrestha, Economist, Social Protection and Jobs GP, World Bank
12:30-2:00pm | Session 5 (BBL): Korea’s Migration System: Korea’s Experience as a Receiving Country with Workers from Sending Countries in South Asia (SAR) and East Asia and the Pacific (EAP)

The session presents an overview of Korea’s Employment Permit System (EPS), particularly regarding the job matching and retention outcomes, simulation of potential impacts of policy intervention, results from employer-worker survey in Korea, and potential intervention options for impact evaluations.

Moderator:
- Margaret Grosh, Senior Advisor, Social Protection and Jobs GP, World Bank

Presenters:
- Yoonyoung Cho, Senior Economist, Social Protection and Jobs GP, World Bank
- David McKenzie, Lead Economist, Development Research Group, Finance and Private Sector Development Unit, World Bank
- Soonhwa Yi, Senior Economist, Social Protection and Jobs GP, World Bank

Discussants:
- Indhira Santos, Senior Economist, Social Protection and Jobs GP, World Bank
- Erwin Tiongson, Professor, Georgetown University

2:00-3:30pm | Session 6: Fostering 21st Century Skills through Socio-emotional Learning and Meister Schools

The session will introduce a series of initiatives by the Korean government to prepare youth with a balanced set of higher-order cognitive, socio-emotional and vocational skills, including highlighting the experience of Meister Schools.

Moderator:
- Omar Arias, Practice Manager, Global Engagement and Knowledge, Education GP, World Bank

Presenters:
- Kyungsuk Chang, Director of International Relations Department, Korea Institute for Curriculum and Evaluation (KICE)
- Jung-yeon Kim, George Washington University Visiting Scholar from the Ministry of Education
- Miguel Sarzosa, Assistant Professor of Economics, Purdue University

B. Informational booth

The Future of Education and Skills booths will introduce the Korean institutions that are leading the innovations in skills development and labor market interventions. HRD Korea will offer the Bank staff digital literacy test based on Korea’s National Standard Competencies (NSCs), whereas KEIS will introduce the public job matching online system carrying AI technology and big data analytics. KICE will highlight their strategies on curriculum and educational assessment for the improvement of school education quality, and KERIS will showcase their various services and policy-support activities on the integration of ICT in education. SNU will present Smart Education at campus and activities of the Global R&D Center on the education of public officials of developing countries.

KEY PARTICIPANTS
A. Korean Institutions

Ministry of Employment and Labor

Ministry of Employment and Labor (MOEL) plays a leading role in establishing employment and labor policies in Korea, including employment services, technical and vocational training, occupational safety, health and labor standards, industrial relations and wage policy, and social insurance, among others. In October 2019, the World Bank Social Protection and Jobs GP and the MOEL signed a memorandum that would facilitate operational and analytical cooperation between the two parties, utilizing Korea’s unique development experience and its expertise in the field of employment and labor, and leveraging the International Bank for Reconstruction and Development’s (IBRD) global competencies in the development field.
HRD Korea
HRD Korea is a public organization that supports the human resources development of companies and workers to raise lifelong employment capacity. Its mandate includes workforce development, management of the national qualification system, expansion of the work-learning dual system, and management of the low skilled foreign workforce through the Employment Permit.

Korea Employment Information Service
Korea Employment Information Service (KEIS) is an agency in charge of employment information to facilitate the supply and demand for human resources. Its mandate includes the establishment and management of the national employment information platform, employment service enhancement, labor market analysis, and employment policy evaluation and monitoring.

Korea Research Institute of Educational Vocation and Training
Korea Research Institute of Educational Vocation and Training (KRIVET) is a national policy research institute established in 1997 in affiliation with the Prime Minister’s Office to respond to changes in the future job market and support life-long vocational competency development. KRIVET mainly conducts research on national policies for human resource development, Technical and Vocational Education and Training (TVET), lifelong learning, and relevant projects to improve vocational competencies.

Korea Education and Research Information Service
Korea Education and Research Information Service (KERIS) is a quasi-governmental organization under the Ministry of Education of the Republic of Korea that promotes academic research related to integrating ICTs in education (ranging from primary to higher education) nationwide. With this focus, KERIS operates educational platforms and provides support and training to educational practitioners. Furthermore, KERIS operates Education Management Information Systems (EMIS) for administrative school management, in addition to information platforms that provide disclosure of school information to the general public with the purpose of contributing to transparency in education. For national implementation of such services, KERIS also conducts various research activities to provide policy support and development at the local and national level.

Korea Institute for Curriculum and Evaluation
Korea Institute for Curriculum and Evaluation (KICE) is a government-funded research institute that was established to improve the quality of education by conducting a wide range of research on curriculum and evaluation in primary and secondary schools. Since its establishment in 1998, KICE has stood at the forefront of enhancing the Korean educational system with national curriculum revision, textbook authorization, the national assessment of educational achievement (NAEA), the college scholastic ability test (CSAT), and support for improving students’ basic educational achievement.

Korea Institute of Science and Technology
Korea Institute of Science and Technology (KIST) was founded in 1966 as South Korea’s first government-funded research institute. Since then, KIST has been the model for many other such institutes, and it played a central role in Korea’s miraculous economic growth by driving the country’s science and technology research over the past five decades. KIST aims to create a better quality of life by preparing to face the challenges of aging societies, climate change, energy shortages, and lack of sufficient food and water resources. KIST’s key focus is to promote convergence research and open collaboration as a way of providing potential solutions to social problems, while playing a historic role as Korea’s economic engine.
Seoul National University

Seoul National University (SNU) has been Korea’s leading higher education institute for the last 70 years, placing 31st in the QS World University Rankings and 1st in THE Asia University Rankings 2019 (http://en.snu.ac.kr/global-standing). Along with SNU’s worldwide recognition, SNU College of Engineering is a top performing college that has been well recognized for its excellent performance and education system. For example, the College of Engineering provides various kinds of classes that encompass great quality of knowledge and training opportunities regarding new technology, management policy, R&D, analysis tools, economics, innovation, and more.

Global R&DB Center, Seoul National University

Global R&DB Center, Seoul National University (GRC) is a global R&DB cooperation platform based on an international network of Science & ICT Innovation professionals; it has been firmly and actively established through the International Technology Professional Program (ITPP) since its start in 2003. As of 2019, GRC’s international ICT network consists of more than 300 Science & ICT policy professionals from more than 70 countries (Korea Advanced Institute of Science and Technology alumni included).

GRC supports the future of Science & ICT innovation on a global level with its experience and resources. GRC is actively and continuously building strategic national, regional, and global partnerships with various stakeholders in the development of value-added Science & ICT innovation.

B. Key Figures

Hwa-jin Park
Deputy Minister
Labor Policy Office
Ministry of Employment and Labor

Mr. Hwa-jin Park is the Deputy Minister for Labor Policy Office at the Ministry of Employment and Labor. Prior to his current post, he served as Deputy Minister for the Planning and Coordination Office (2017–2018) and Standing Member of the National Labor Relations Commission (2017) at the Ministry of Employment and Labor.

Prior to this position, Mr. Park held several Director General positions, including at the Industrial Accident Prevention and Compensation Bureau (2016–2017); the Youth and Women’s Employment Policy Bureau (2015–2016) and the Labor Supply and Demand Policy Bureau (2014–2015). He also served as Director General at the Labor Standards Policy Bureau (2009–2012) and Director at the Equal Opportunities and Treatment Division (2008–2009) at the Ministry of Employment and Labor. He also served as Director at the General Services Division (2006–2008) and the Labor Union Division (2003–2006).

Mr. Park received his master’s degree in labor relations from the University of Wisconsin, Madison and a bachelor’s degree in sociology from Seoul National University.
Kookheon Char is a Dean of the College of Engineering at Seoul National University.

Char has served as Vice President at the National Academy of Engineering of Korea (2017–present) and Director of the National Creative Research Initiative Center for Intelligent Hybrids (2010–17). He earned his PhD in chemical engineering from Stanford University, a master’s degree from Korea Advanced Institute of Science and Technology, and a bachelor’s degree from Seoul National University.

Char also has work experience in industry (LG Chemical, Korea) and has visited several universities (Cornell University, École Polytechnique Fédérale de Lausanne, ESPCI, and Massachusetts Institute of Technology) during his sabbatical leaves.

Char’s awards include the American Physical Society Fellow (United States), the Gutenberg Research College Fellow (Germany), and the Gutenberg Research Award (Germany), among others. Char also serves as a full member of the National Academy of Engineering of Korea and the Korean Academy of Science and Technology.

Char has published more than 350 papers in top-notch journals, including in Nature Chemistry (2013) and Nature Communications (2011).

Daniel Dulitzky is responsible for overseeing the World Bank program in Health, Education, and Social Protection and Jobs in East Asia and the Pacific. His top priorities are to: (i) provide strategic vision and direction to the human development team, (ii) ensure that World Bank regional and country activities in human development are informed by global strategies; and (iii) encourage and support innovation in both knowledge work and lending.

Dulitzky, an Argentinian national, joined the Bank in 1999. He has since held various positions in the Europe and Central Asia, and Latin America and the Caribbean regions.

His most recent assignment was that of Practice Manager for Health in Latin America and the Caribbean. Previously he was Practice Manager in Europe and Central Asia.

During his time with the Bank, he also has also contributed to significant reform programs in health, social protection and education in numerous countries.

Dulitzky holds a Ph.D. in economics from Massachusetts Institute of Technology.
MAIN CONTACTS
For inquiries on Education and Social Protection and Jobs activities and to request bilateral meetings, please contact:

For Social Protection and Jobs GP:
- Yoonyoung Cho, Senior Economist: ycho1@worldbank.org
- Thelma Seo-eun Choi, Consultant: tchoi1@worldbank.org

For Education GP:
- Koji Miyamoto, Senior Economist: kmiyamoto@worldbank.org
- Anuja Utz, Senior Operations Officer: autz@worldbank.org
- Hayeon Kim, Consultant: hkim18@worldbank.org
SECTION 6: Promoting Innovation and Entrepreneurship

OVERVIEW

The WBG’s Finance, Competitiveness and Innovation (FCI) Global Practice combines expertise in the financial sector and private sector development to foster private sector-led growth and help create markets in client countries. Through this work, FCI aims to maximize finance for development and to leverage private sector investments for sustainable and inclusive growth.

Within client countries, FCI works with governments to create an enabling environment where financial stability, access to finance, and risk management provide a foundation to crowd-in private sector investment, create capital markets, and accelerate equitable growth. Innovation, entrepreneurship, and access to finance are crucial building blocks of the enabling environment for businesses to be competitive, efficient and cutting-edge.

Korea’s impressive economic growth between the 1960s and 1990s was fueled by the government’s concerted effort to build an infrastructure for national science, technology, and innovation (STI) systems, such as think-tanks, government agencies, research-focused universities, and specialized research institutes. The Korean government followed with investment in full-scale R&D programs in key industries such as petrochemicals, semiconductors, shipbuilding, steel, and automotive. As private sector-led R&D accelerated, the Korean government set a target to transition into a more knowledge-based and inclusive economy, which has improved framework conditions for innovation, such as financing mechanisms for STI and expanding beneficiaries from conglomerates to small and medium enterprises (SMEs).

Another important element of Korea’s remarkable development is the strength of its institutions, particularly in the financial sector. Starting with the Asian Financial Crisis of the late 1990s, Korea was able to strengthen its financial system and institutions, align regulatory and supervisory frameworks with international standards, and restructure the banking and non-bank sectors over a short period of time. Korea’s strong institutions served the economy well during the more recent Global Financial Crisis and contributed to maintaining financial sector stability. This history and emerging lessons place Korea in a unique position to serve as a bridge between developing and advanced financial sectors.

FCI plans to organize a workshop and three Brown Bag Lunches (BBLs) to share Korea’s experience in promoting innovation and entrepreneurship in building a vibrant financial sector and private sector. Representatives from the Financial Services Commission (FSC), Korea Technology Finance Corporation (KOTEC) and Korea Trade-Investment Promotion Agency (KOTRA) will share Korea’s policies and programs that expand access to finance and encourage firm-level productivity for SMEs. The Science and Technology Policy Institute (STEPI) and Seoul National University (SNU) will present about their roles in designing and implementing Korea’s STI policies. These representatives also will share their experience of providing technical assistance to World Bank client countries in the areas of innovation and entrepreneurship.

ACTIVITIES

A. Thematic Workshops

The workshop will feature leading government agencies and research institutes in promoting innovation and entrepreneurship in financial sector and private sector development. These Korean institutions can bring their knowledge, technical expertise and experience with innovative products and services to enhance the value of WBG engagements in client countries in the areas of finance, competitiveness and innovation.
KOREA INNOVATION WEEK DAY 2

Wednesday, February 19, 2020 at 12:00-1:30pm at MC 2-800
Finance and Innovation Support for SMEs and Startups

Moderators:
- Hassan Zaman, Regional Director, East Asia and the Pacific (EAP), Equitable Growth, Finance and Institutions (EFI) Practice Group, World Bank
- Denis Medvedev, Practice Manager of Firm, Entrepreneurship and Innovation, FCI GP, World Bank

Speakers:
- Jheenong Kim, Director General, Financial Services Commission (FSC)
- Nara Kim, Senior Manager, Korea Technology Finance Corporation (KOTEC)
- Dongwook Park, Executive Director of North America, Korea Trade-Investment Promotion Agency (KOTRA)
- Chi Ung Song, Vice President, Science and Technology Policy Institute (STEPI)

Discussant:
- TBC: Representative of Financial Inclusion, Infrastructure & Access, FCI GP, World Bank

* light lunch will be provided

KOREA INNOVATION WEEK DAY 1

Tuesday, February 18, 2020 at 12:00-1:15pm at MC 7-424
Technology Appraisal and Credit Guarantee for Tech-Based SMEs

Korea Technology Finance Corporation (KOTEC), which appraises technology of SMEs and provides credit guarantees, will share its experience of facilitating an innovative financing platform in Korea.

Chair:
- Irina Astrakhan, Practice Manager of East Asia and the Pacific, FCI GP, World Bank

Speakers:
- Nara Kim, Senior Manager, Korea Technology Finance Corporation (KOTEC)
- Yushin Kim, Senior Manager, KOTEC
- Sung Tae Kim, Professor, Dong-Eui University (working closely with KOTEC)

Discussant:
- Denis Medvedev, Practice Manager of Firm, Entrepreneurship and Innovation, FCI GP, World Bank

* light lunch will be provided
KOREA INNOVATION WEEK DAY 2

10:00-11:30am | MC 7-860 | Promoting Financial Innovation: The Case of Korea

Financial Services Commission (FSC), Korea’s financial policymaker and regulator, will talk about its progress and plans to promote financial innovation in Korea.

Chair:
- Alfonso Garcia Mora, Global Director, Finance, Competitiveness and Innovation (FCI) GP, World Bank Group

Speakers:
- Wookeun Ken Yoon, Senior Deputy Director, Financial Services Commission (FSC)
- Jeewon Jang, Deputy Director, FSC

Discussant:
- Sharmista Appaya, Senior Financial Sector Specialist, FCI GP, World Bank

* refreshments will be provided

1:30-3:00pm at MC 4-140 | EFI Chief Economist Seminar: Promoting Innovation and Technology in Korea

STEPI will present the Korean government’s innovation promotion policy and SNU will present higher education’s approach on STI and entrepreneurship promotion programs.

Chair:
- William (Bill) Maloney, Chief Economist, Equitable Growth, Finance and Institutions, World Bank

Speakers:
- Chi Ung Song, Vice President, Science and Technology Policy Institute (STEPI)
- Junseok Hwang, Professor of Information Science, College of Engineering, Seoul National University (SNU)

Discussant: TBC

C. Informational Booth

Korea Technology Finance Corporation (KOTEC) will showcase its products and services that appraise technology competitiveness of SMEs and provide credit guarantees for tech-focused SMEs in Korea.

KEY PARTICIPANTS

A. Korean Institutions

Financial Services Commission

Financial Services Commission (FSC) is Korea’s government body responsible for financial policy and regulation across the entire financial sector. FSC has statutory authority over financial laws, regulations, and regulatory licenses. It also oversees cross-border matters such as foreign exchange transactions by financial institutions. The Korea Financial Intelligence Unit under FSC is responsible for anti-money laundering and counter-terrorism finance. FSC contributes to the Korean economy by advancing the financial industry, preserving financial market stability, enforcing fair market practices, and protecting financial consumers.
Korea Trade-Investment Promotion Agency  
Korea Trade-Investment Promotion Agency (KOTRA) is a Korean quasi-government agency dedicated to promoting international trade and investment, driving the nation’s economic development, and building prosperity for the global community. Through its 129 offices in 84 countries, KOTRA has facilitated Korea’s rapid export-led economic development through various trade promotion activities, such as overseas market surveys, SME export promotion, trade info services, government-to-government export, and foreign direct investment (FDI) promotion and business matchmaking in Korea.

Science and Technology Policy Institute  
Science and Technology Policy Institute (STEP) is a government-funded research institute devoted to research and development of science, technology and innovation (STI) policy and policy alternatives in Korea. It identifies policy issues to effectively deal with future challenges, provides government agencies with policy ideas and suggestions for promoting innovation, suggests strategic options in technology development for the government and industries, and creates and disseminates STI policy research, data and information.

Seoul National University  
Seoul National University (SNU) has been Korea’s leading university for more than 70 years. It was the first comprehensive university established in Korea after the country was liberated from Japan in 1945. Built on the largest campus in Seoul, the university boasts more than 2,600 full-time faculty members, more than 16,500 undergraduate students, and more than 11,500 graduate students. SNU is well recognized for its world-class research performance throughout a wide range of academic fields.

B. Key Figures

Jheenong Kim  
Director General  
Financial Services Commission  

Jheenong Kim is Director General at the Financial Services Commission (FSC) of Korea. Since joining the government in 1998, Kim has served in key government posts responsible for economic and financial policy, such as Director of Banking Division, Director of Insurance Division, Director of Asset Management Division, and Director of Electronic Finance Division. He currently leads the capital market investigation unit, which monitors unfair capital market practices and frauds. Before joining the FSC, he worked for the Ministry of Economy and Finance and the Bank of Korea. Kim holds a master’s degree in economics from the University of Oregon and pursued a PhD in economics at Choong-ang University.
Chi Ung Song is Vice President of the Science and Technology Policy Institute (STEPI) with expertise in economics of technology and innovation. Previously, he was Chief Director of Division for Global Innovation Strategy at STEPI and led various global cooperation projects. He was a visiting scholar at the Center for International Science and Technology Policy at the George Washington University and taught in several universities in Korea. Dr. Song also served in the president’s advisory council on the topics of science, technology and innovation.

Dongwook Park is Executive Director of North America HQ of the Korea Investment-Trade Promotion Agency (KOTRA). During his 21-year career at KOTRA, he has led market research and investment promotion activities. Park has worked across different regions, including China, Vietnam, Australia and the United States.

Nara Kim manages the global business of KOTEC, mainly coordinating international cooperation programs. She has coordinated KOTEC’s collaboration with innovation-related agencies in Thailand and Taiwan for fostering innovative startups and technology appraisal systems. She has a bachelor’s degree in Business Administration from Inha University.

William F. Maloney is Chief Economist for the Equitable Growth, Finance and Institutions Practice Group of the World Bank. Previously he was Chief Economist for Trade and Competitiveness and Global Lead on Innovation and Productivity. Prior to the Bank, he was a Professor of Economics at the University of Illinois, Urbana-Champaign (1990-1997). He then joined the Bank, working as Lead Economist in the Office of the Chief Economist for Latin America until 2009. From 2009 to 2014, he was Lead Economist in the Development Economics Research Group. From 2011 to 2014 he was Visiting Professor at the University of the Andes and worked closely with the Colombian government on innovation and firm upgrading issues. He received his PhD in economics from the University of California Berkeley.
Hassan Zaman is Regional Director for the East Asia and Pacific region in the Equitable Growth, Finance and Institutions Practice Group of the World Bank. Previously he was Director of Operations Policy and Quality, and before that Senior Adviser in the South Asia Region of the World Bank. He also served as Chief Economist of Bangladesh Bank (Central Bank) and prior to that was a Lead Economist at the World Bank. Earlier in his career he worked for BRAC in Bangladesh. He holds bachelor’s and master’s degrees from the London School of Economics and a PhD from the University of Sussex. He has published extensively in peer-reviewed journals.

Alfonso Garcia Mora is the Finance Global Director in the Finance, Competitiveness & Innovation Global Practice of the World Bank Group. Prior to that he was a Practice Manager for the Latin America and Caribbean Region. He joined the Bank in 2013 as Lead Financial Sector Specialist in the Finance and Private Sector Development Vice Presidency. Prior to joining the Bank, Mr. Garcia Mora had a successful 12-year career in the private sector at the Analistas Financieros Internationales consulting group, including as Partner Managing Director from 2007-12. In that capacity, he managed a large team of financial sector experts and gained wide-ranging experience on banking sector crisis resolution, banking sector management, funding strategies, and market transactions in Europe, Latin America, and the Middle East and Northern Africa. Mr. Garcia Mora also lectured and published widely on financial sector issues.

**MAIN CONTACTS**

For inquiries on Innovation and Entrepreneurship activities and to request bilateral meetings, please contact the following individuals:

- **Jin Lee**, Private Sector Specialist: hlee13@worldbank.org
- **Youjin Choi**, Financial Sector Specialist: ychoi@worldbank.org
- **Kyeyoung Shin**, Consultant: kshin2@worldbank.org
SECTION 7: Korea’s Development History Exhibition

OVERVIEW

The Republic of Korea has made one of the most dramatic economic transformations in a short time period. The country has transitioned from a resource-poor, low-income nation to one of the most technologically advanced nations in the world. Along the way, this miraculous journey had its series of challenges and hardships.

The Global Knowledge Exchange and Development Center (GKEDC), located in Seoul, will present the stories of Korea’s economic development since the mid-20th century—a transformation that led to its current reputation as the world’s most innovative economy. The exhibition captures pivotal moments in Korea’s modern history in economic, social, and cultural contexts. It is GKEDC’s first visiting exhibition at the World Bank titled “from Despair to Prosperity: The Story of Korea’s Economic Development,” which is specifically tailored to a global audience and will be featured in the MC Atrium of the World Bank.

The exhibition emphasizes how important it is to collaborate among three major key entities from the government, private sector to civil society in Korea. GKEDC’s exhibition team condensed the overall story showcasing the highlights of Korea’s journey.

The special exhibition tour begins with a short video that explains 70 years of Korea’s economic development. During the guided tour, you will see how the Korean government addressed the development challenges and how they took action by implementing unprecedented but successful policies. Also, you will hear about the personal stories of ordinary heroes who contributed to Korea’s economic growth. To create this exhibition, GKEDC reviewed existing literature on Korea’s development history and collected testimonies from people who lived through and witnessed Korea’s development first-hand, such as policy makers, entrepreneurs, scientists, workers and international experts.

Korea’s experience in sustainable development, providing infrastructure and better services to improve the lives of the people, and its transition to a dynamic knowledge economy, provides lessons that can benefit many other client countries.

Finally, GKEDC special exhibition allows you to witness first-hand how it was possible for Korea to become one of the world’s largest economies, how it plays a role as a key development partner of the WBG, and an important contributor to the International Development Association (IDA).

ABOUT GKEDC

The Global Knowledge Exchange and Development Center (GKEDC) was officially launched in 2018 by the Ministry of Economy and Finance (MOEF), the Republic of Korea. GKEDC aims to share and transfer knowledge about Korea’s economic development journey with its key stakeholders. The Center provides learning programs that link to the global development agenda with Korea’s experiences, and offers a tour of its exhibitions.

Exhibitions Halls at GKED Center

Korean Economic Development Hall: Presents the overview of Korea’s economic development from its independence in 1945 to the present Korea

Industrial Development Hall: Explains how Korea condensed 200 years of the world’s industrial development into 50 years through rapid catch-up and innovation
Human Hall: Tells personal stories of ordinary heroes who contributed to Korea’s economic growth.

Future Innovation Hall: Discusses the impact of the Fourth Industrial Revolution on the landscape of the economy, including jobs and education.

ABOUT KDI
KDI, Korea’s first and premier economic policy think-tank, is the implementing partner for the GKEDC, which leads the way to facilitate its programs with the global community. We have achieved several successful workshops by sharing knowledge collaboratively with our World Bank partners. The Center will keep serving as a global hub where visitors can deepen their understanding of Korea’s modern history and explore sustainable development, best practices, and lessons learned.

A. Key Figures

Kyusik Suh
Director
International Economic Cooperation Strategy
Ministry of Economy and Finance

Kyusik Suh is the Director for International Economic Cooperation Strategy at the Ministry of Economy and Finance (MOEF), Republic of Korea.

Kyusik Suh is in charge of the Knowledge Sharing Program (KSP) of the Korean government and the Global Knowledge Exchange and Development Center (GKEDC) in Seoul. He has expertise in international economic affairs and financial management. Suh has served as a government officer in various departments at the MOEF. Specifically, he analyzed the cost of various R&D projects, designed the analytical review procedure on Digital Budget & Accounting System in Korea (D-Brain system) and took part in trade negotiations such as Doha Development Agenda and the FTA between the European Union and the Republic of Korea to 2010. He was in charge of fiscal plans for major issues in Korea including the economic relationship between 2 Koreas, social integration and the Green Growth Strategy. Moreover, he was awarded a Medal of Honor for his distinguished service in Green Growth.

Suh received a bachelor’s degree in Economics from Korea University in Seoul, Korea and a master’s degree in Public Policy from National Graduate Institute for Policy Studies (GRIPS) in Tokyo, Japan.
Youngsoo Kim is the Director of the Division of Management Support at the Global Knowledge Exchange and Development Center (GKEDC).

Youngsoo Kim was a lecturer and instructor for the Anti-Solicitation Act for many research institutions (2018). He was the Chief Auditor and the Solicitation Prevention Director (2013-2018). He was the Secretary General for KDI School of Public Policy and Management (2012-2013). He served as the Chief Auditor (2008-2012) and the Secretary General at KDI (2004-2008). From 1985 to 2004, he worked at the Planning Division, General Affairs and Personnel Division as the Manager, the Chief Inspector and the Chief Auditor.

Youngsoo received a bachelor’s degree in Law and a master’s degree in Labor Law from Soongsil University. He holds a Ph.D. in Disaster Management from Chungbuk National University.

Sun-han Kim is the Head of the Exhibition Operation Team at the Global Knowledge Exchange and Development Center (GKEDC).

Since 2010, Sun-han has been a senior research associate in Korea Development Institute (KDI), which is the implementing partner for GKEDC. Ms. Kim served as Head of the Operational Administration Team (2017-2018). Since 2015, she has served the Center as a founding member from its establishment and to its operation.

Kim received a bachelor’s degree in Public Administration from Soongsil University and a master’s degree in Public Administration from Yonsei University.

Jongin Sun is leading programs of the International Development Cooperation Team at the Global Knowledge Exchange and Development Center (GKEDC).

Since 2012, Jongin has been a senior research associate in Korea Development Institute (KDI), which is the implementing partner for GKEDC.

Since 2015, she has served the Center as a founding member from its establishment and to its operation. Also, she was seconded to the World Bank from December 2017 to June 2018 and conducted a research at the Knowledge Management Unit. She continues the implement economic programs with international development partners including World Bank and other key stakeholders.

Jongin received a master’s degree in International Trade of Business Administration from Korea National Open University. She graduated from Ewha Womans University with a bachelor’s degree in Sociology.

**MAIN CONTACTS**

For inquiries on GKEDC exhibition, please contact the following individual:

- Jongin Sun, Head of International Development Cooperation Team: jisun@kdi.re.kr
Korea Innovation Week • PART 4

COMPLIMENTARY ACTIVITIES
SECTION 1: Evening Reception and Special Performance

February 18, 2020 at MC Atrium, World Bank, 5:00pm
Kunil Hwang, Executive Director of the Republic of Korea, and Victoria Kwakwa, Vice President for East Asia and Pacific, will co-host an evening reception for participants of Korea Innovation Week on Tuesday, February 18, 5:00pm to 6:30pm, in the MC Atrium of the World Bank.

All WBG staff and Korean representatives are welcome to join this occasion for engagement and networking. The reception will feature a special performance by Alpin Hong, an award winning Korean-American modern pianist and a “Classical for the iGeneration” (http://alpinhong.com/). His performance will incorporate technology and showcase how music can drive human and technological innovation.

Performance sequence:
1. “Malagueña,” by Ernesto Lecuona (7–10 minutes, solo piano)
   Mr. Hong’s arrangement includes a medley of familiar popular music. The performance demonstrates how music bridges different cultures and ages.

2. “Rhapsody in Blue,” by Gershwin (12–13 minutes, solo piano)
   Mr. Hong’s rendition of this American piano piece incorporates the traditional Korean folk melody “Arirang.”

3. “Time and Space”
   Mr. Hong transforms a Pansori song, a form of Korean traditional musical storytelling, sung by thirteen years old Maddilynn Ra, into a classical piece accompanied by piano and an ensemble of students performing on iPads.
Special Korean Menu by Executive Chefs
During Korea Innovation Week, award-winning chefs Kyoo Eom, Danny Lee, and Scott Drewno will serve Korean inspired dishes at the MC Cafeteria and Dining Buffet of the World Bank. Each chef will showcase their unique approaches to merging the influence of Korean and Western cuisine.

Chef Danny Lee
The owner and chef at Mandu, Anju, and CHIKO restaurants based in the Washington, DC area. After working under Chef Rob Klink at The Oceanaire Seafood Room, he opened Mandu with his mother to showcase Korea’s culinary tradition and culture.

Chef Scott Drewno
A founding partner of The Fried Rice Collective, partner at Anju and CHIKO, where he is a chef with Chef Danny Lee. Drewno also serves on the Board of the Restaurant Association of Metropolitan Washington, DC and is an honorary member of the DC Food & Beverage Collective.

CHEF'S TABLE MENU (MC CAFETERIA)

**BULGOGI RICE BOWL**
Korean Bibimbap-influenced rice bowl with Beef Bulgogi, Napa Cabbage Kimchi, Cucumbers over Rice, served with Roasted Garlic Ssamjang Sauce

**VEGGIE RICE BOWL**
Avocado, Tofu, Wild Mushrooms over Rice, served with Roasted Garlic Ssamjang Sauce
DINING BUFFET MENU

SOUP
Doenjang Guk (V)
Light mushroom soybean soup with shiitake mushrooms, leeks, nappa cabbage, and onion

SALAD
Gotjeori
Mixed green salad with Korean spices and rice vinaigrette dressing
Oi Muchim
Fresh cucumbers tossed in a light vinaigrette and Korean chili power
Muchae Namul
Julienne Korean radish seasoned with garlic, Korean chili power and sweet rice vinaigrette

SIDE VEGETABLE
Ssam
Fresh lettuce served with seasoned bean paste
Yachae
Fresh vegetables served with seasoned bean paste

ANTIPASTI
Gochu + Anchoy Jorim (F)
Sautéed Shishito Pepper with Dried Anchovy
Ojing-uh Muchim (F)
Sautéed Shishito Pepper with Dried Anchovy
Gamja & Gaeran Salad (V)
Potato & Egg Salad with Apple
Busot Bokeum (F)
Sautéed Oyster Mushroom

MAIN COURSE
Soy-Honey Glaze Seabass (F)
Grilled Seabass with soy-honey glaze
Gochujang Marinade Pork Belly (M/P)
Spicy pork belly marinated in gochujang and ginger
Japche(V)
Korean glass noodles sauteed with vegetables

ACTION/CARVING STATION
Galbi
Seasoned Korean Short Rib BBQ

STARCH
Steamed Rice
Kimchi Fried Rice
Fried rice with kimchi, scrambled egg, carrot, and onion

DESSERT
Kul-Theok
Rice cake stuffed with sesame + honey
Yak-Gwa
Soft rice + honey cookie
Yu-Gwa
Puffed rice ball with honey

Chef Kyoo Eom
Chef Eom was the Chef de Cuisine at 2941 Restaurant and Executive Chef at Poste Moderne Brasserie. Since 2016, Chef Eom has been the Executive Chef at Dirty Habit DC. His family recipes inspire him to create innovative dishes that reflect many cuisines from all over the world.
SECTION 3: Photo Kiosk and VR Lounge

Photo Kiosk
A special interactive photo kiosk will be available during February 18–19 in the main lobby of the MC building. The kiosk allows photos to be taken with background images of Korea, including traditional buildings, modern Seoul, and popular K-pop stars.

VR Lounge Program

TELECOMMUNICATION HISTORY OF KOREA
Celebrating KT’s 130 years of Telecommunication History
– Korea Telecom (KT)

SMART CITY
Life in a Green Smart City
– Korea Green Growth Trust Fund (KGGTF), WBG

WASTE MANAGEMENT / LANDFILL SYSTEM
Extracting value from solid waste for more sustainable cities
– Korea Green Growth Trust Fund (KGGTF), WBG

Introduction to Sudokwon Landfill Site Management Corporation (SLC)
– Korea Environmental Industry and Technology Institute (KEITI)

CLEAN WATER TECHNOLOGY
Introduction to Korea’s Water Quality Restoration Center
– Korea Environmental Industry and Technology Institute (KEITI)

EDUCATION & SKILLS FOR THE FUTURE WORKPLACE
– Human Resources Development Service of Korea (HRD Korea)

Making Learning more Immersive with Technology
– Korea Education and Research Information Service (KERIS)
ANNEX 1: Participating Korean Institutions

Representatives will attend from more than 40 partner institutions and 7 government ministries, including the Vice Minister of the Ministry of Economy and Finance and the Deputy Minister of the Ministry of Science and ICT.

OVERALL WBG-KOREA PARTNERSHIP
- Ministry of Economy and Finance (MOEF)
- Korea Development Institute (KDI)
- Export–Import Bank of Korea (KEXIM)

DIGITAL ECONOMY & 5G
- Ministry of Science and ICT (MSIT)
- Electronics and Telecommunications Research Institute (ETRI)
- Korea Internet and Security Agency (KISA)
- National Information Society Agency (NIA)
- National IT Industry Promotion Agency (NIPA)
- Born2Global Centre
- SK Telecom
- Korea Telecom (KT)
- LG Uplus
- Samsung Electronics
- Great Safety Information Laboratory (GSIL)
- LUXROBO
- Hylium Industries
- Visual Camp
- Animal Industry Data Korea (AID Korea)

SMART CITIES
- Ministry of Land, Infrastructure, and Transport (MOLIT)
- Korea Land and Housing Corporation (LH)
- Korea Water Resources Corporation (K-Water)
- Korea Land and Geospatial Informatix Corporation (LX)
- Korea Overseas Infrastructure and Urban Development Corporation (KIND)
- Korea Agency for Infrastructure Technology Advancement (KAIA)
- International Contractors Association of Korea (ICAK)

GREEN INNOVATION
- Ministry of Agriculture, Food and Rural Affairs (MAFRA)
- Ministry of Environment (MOE)
- Korea Forest Service (KFS)
- Rural Development Administration (RDA)
- Korea Agency of Education, Promotion and Information Service in Food, Agriculture, Forestry and Fisheries (EPIS)
- Korea Rural Community Corporation (KRC)
- Korea Environmental Industry and Technology Institute (KEITI)
- Korea Environment Corporation (KECO)
- National Disaster Management Research Institute (NDMI)

EDUCATION AND SKILLS FOR THE FUTURE WORKPLACE
- Ministry of Employment and Labor (MOEL)
- Korea Employment Information Service (KEIS)
- HRD Korea
- Korea Research Institute for Vocational Education and Training (KRVET)
- Korea Education and Research Information Service (KERIS)
- Seoul National University (SNU)
- Korea Institute of Science and Technology (KIST)

PROMOTING INNOVATION AND ENTREPRENEURSHIP
- Financial Services Commission (FSC)
- Korea Technology Finance Corporation (KOTEC)
- Korea Trade-Investment Promotion Agency (KOTRA)
- Science and Technology Policy Institute (STEPI)

KOREA’S DEVELOPMENT HISTORY
- Global Knowledge Exchange and Development Center (GKEDC)
ANNEX 2: Contributors

World Bank Group Korea Office

Hoon Sahib Soh | Special Representative (Country Manager)

COUNTRY MANAGEMENT UNIT
Jiwon Lee | Operations Officer
Min Jae Kang | Executive Assistant
Bojeong Choi | Team Assistant
Soyoun Jun | Team Assistant
Ji-Eun Yoon | Administrative Assistant
Samran Choi | Administrative Assistant
Byung Gwan Kim | Administrative Assistant
Minkyung Kim | Consultant
Soo Yeon Lim | Consultant
Morana Song | Consultant

EDUCATION
Hayeon Kim | Education Consultant

FINANCE, COMPETITIVENESS AND INNOVATION
Sameer Goyal | Program Manager
Kyung Kyun Park | Senior Financial Sector Specialist
Youjin Choi | Financial Sector Specialist
Ryo Sun Jang | Consultant

GREEN GROWTH INNOVATION
Inchul Hwang | Senior Energy Specialist
Kathrine Kelm | Senior Land Administration Specialist
Maurice Andres Rawlins | Natural Resources Management Specialist
Hanul Oh | Operations Analyst
Bola Ju | Land and Geospatial Consultant
Eunji Shin | Environmental Consultant

KOREA PROGRAM FOR OPERATIONAL KNOWLEDGE (KPOK)
Jisun Kim | Senior Program Coordinator
Jung Yoon Heo | Administrative Assistant
Sun Young Park | Program Assistant
Hye-Jung Hwang | Consultant

INTERNATIONAL FINANCE CORPORATION (IFC)
Jiyeon (Janice) Ryu | Resident Representative
Liz (Liseul) You | Investment Officer
Jaejin Lee | Investment Officer
Han Jae Lee | Investment Analyst
Haejin Allison Chun | Program Assistant
Ashley Nam | Consultant
Yeonji Kim | Consultant

MULTILATERAL INVESTMENT GUARANTEE AGENCY (MIGA)
Jae Hyung Kwon | Representative, Head of North Asia
ANNEX 2: Contributors

World Bank Group Headquarters

EAST ASIA AND PACIFIC
Indae Yoon | Senior Operations Officer
Diana Ya-Wai Chung | Senior External Affairs Officer
Nick Nam | Extended-Term Consultant
Kyeoung Shin | Consultant
Youngyun Lee | Consultant

KOREA GREEN GROWTH TRUST FUND
Eun Joo Allison Yi | Senior Operations Officer
John Hosung Lee | Operations Officer
Na Ra Kim | Extended-Term Consultant
Wisambi Loundu | Consultant
Amina Naomi Idris | Consultant

SOCIAL PROTECTION AND JOBS
Yoonyoung Cho | Senior Economist
Thelma Seoeun Choi | Extended-Term Consultant

FINANCE, COMPETITIVENESS AND INNOVATION
Irina Astrakhan | Practice Manager, East Asia and Pacific
Denis Medvedev | Practice Manager, Firms, Entrepreneurship and Innovation
Jin Lee | Private Sector Specialist, Firms, Entrepreneurship and Innovation

EDUCATION
Koji Miyamoto | Senior Economist
Anuja Utz | Senior Operations Officer

OFFICE OF THE EXECUTIVE DIRECTOR OF KOREA
Bokwon Lee | Advisor to Executive Director
Eun Jong Jang | Program Assistant

DEC: GROWTH ANALYTICS
Gyuchan Lee | Knowledge Management Analyst

DEVELOPMENT FINANCE
Anju Sharma | Senior Program Officer
Angela Susan Williamson | Senior Financial Officer
Won Jeong | Senior Financial Officer
Daksha Shakya | Operations Officer

DIGITAL DEVELOPMENT
Je Myung Ryu | Senior Digital Development Specialist
Seunghyun Kim | Senior Digital Development Specialist
Jeongjin Oh | Consultant
Kyoung Yang Kim | Extended-Term Consultant
Sun Hwa Oh | Consultant

URBAN GLOBAL PRACTICES
Hyoung Gun Wang | Senior Economist
Se-Eun Hwang | Urban Development Analyst
Gunes Basat | Consultant
Soo Kyung Yeo | Consultant

ANEX 2: Contributors