Opening Session

Keynote Speech

Maria Cristina RUSSO
Director for International Cooperation, Directorate–General for Research and Innovation
European Commission

Maria Cristina Russo is the Director for International Cooperation in DG Research and Innovation since July 2013. She is responsible for promoting research and innovation cooperation with international partners in order to: strengthen the EU's scientific excellence and attractiveness; foster its industrial competitiveness; tackle global societal challenges; and support the EU's external policies, including trade, development and enlargement.

From 2010-2013 she served in DG Health and Consumer Affairs as the Head of Unit for "Financial Services and Redress". During 2004-2010 she served within the Secretariat General of the Commission as a Head of Unit, where she was responsible for the units in charge of "Relations with the Council-Coreper I", "Co-decision" and "Strategic Objective Security and Justice".

From 1999-2004 she served as a member of the Cabinet of Philippe Busquin, Commissioner for Research. From 1995-1999, she was a policy officer in the Secretariat General in the unit responsible for "Relations with the Council-Coreper I". She joined the European Commission in 1992 as a policy officer in DG External Relations, dealing with "Relations with the New Independent States of the Former Soviet Union".

Maria Cristina studied Political Sciences at the Luiss University of Rome and has a Master's Degree in European Studies and a Research Master's from the College of Bruges.

SESSION 1. EU-Korea R&I Policies & Programmes

EU R&I Initiative: Horizon2020 & Horizon Europe

Efthymios SAKELLARIOU
Policy Officer, International Cooperation Directorate
DG Research and Innovation

Efthymios Sakellariou is a Policy Officer in Directorate C, International Cooperation, at the Directorate General for Research and Innovation (DG RTD) at the European Commission. Amongst his duties is the relevant officer for Taiwan and the Council formation of the Strategic Forum for International Cooperation (SFIC).
He is a Charted Chemical Engineer and holder of a Masters and a Ph.D Degree in Food Engineering from Leeds and Loughborough Universities, UK.
Before joining the European Commission in 2016, he was the Diplomatic Counsellor responsible for Research and Space issues at the Greek Permanent Representation to the EU.
He has extensive knowledge of European Research issues being Greek National Delegate and expert in series of Framework Programmes since 1992 and EUREKA.

KR R&I Funding Programmes for Horizon2020

Jong-Deok KIM
Director of the Office of Global Programs
National Research Foundation of Korea (NRF

Dr. Jong-Deok Kim is currently the Director of the Office of Global Programs at the National Research Foundation of Korea(NRF). NRF is the representative research management and funding institution in Korea, promoting research creativity and nurturing global researchers. NRF was established in 2009 as the result of a merger of three funding organizations: Korea Science and Engineering Foundation(KOSEF), Korea Research Foundation(KRF) and Korea Foundation for International Cooperation of Science and Technology(KICOS). Prior to the NRF, Kim joined the KOSEF in 1990 and since then has served as senior R&D manager as well as Head of Talents & Manpower Development, International Cooperation, National R&D Management, and Research Planning Teams for more than 28 years. From 2010-2013 he served as Executive Director of Korea-US Science Cooperation Center(KUSCO), located in the Washington D.C area in the US. In 2006 he received a Ph.D. in Science and Technology Policy from the University of Manchester's Policy Research in Engineering, Science and Technology(PREST).

EU Member States Leading Programme: EUREKA/EUROSTAR2

Eva WITTEMAN
Deputy Head of Mission
Embassy of the Kingdom of the Netherlands

Eva Witteman graduated from Leiden University, the oldest university in the Netherlands, in 1999. She majored in French sociolinguistics after a year of studies at Sorbonne Nouvelle University (Paris 3). During that time (1997-1998), she was housed in the famous Cité Internationale de Paris, surrounded by students from all over the world.
Eva joined the Embassy of France in The Hague in 1999 and worked for 7 years in the economic department of the embassy as a senior officer. Her duty was to assist French companies in exports and investment to the Netherlands. She contributed to benchmarks of the French government on topics like climate, energy market liberalization, transportation, macro-economics, and public governance and received many high level delegations from France visiting the Netherlands.
She pursued her career in trade promotion by joining the Dutch government in 2006. She worked in several government agencies of the Ministry of Economic Affairs in different management positions. She developed and managed a large variety of trade promotion and development cooperation programs from the Ministry of Foreign affairs to assist Dutch companies to do business and invest around the world.
In 2016 she spent half a year working in the international team of the largest employers federation of the Netherlands VNO-NCW and MKB Nederland. Corporate social responsibility and brexit were part of her portfolio. At the same time she graduated from De Baak, a renowned training institute in the Netherlands, obtaining a master degree in personal coaching.
Eva has developed great professional skills in leading, managing and supporting professionals. She also worked as a coach in two management development programs of the Dutch government.
In 2019 she joined the Dutch Ministry of Foreign affairs to serve as the Deputy head of mission and the Economic Counsellor of the Netherlands Embassy in Seoul, Korea.

KR R&I Funding Programmes for EUREKA/EUROSTAR2

Hongyeol CHOI
Director of International Industrial R&D Cooperation Team
KIAT

Mr. Hongyeol CHOI is Director of International Industrial R&D Cooperation Team of KIAT, based in Seoul. KIAT is an Industrial R&D funding agency in Korea, founded in 2009. KIAT is a governmental agency aiming at supporting technological innovation in Korea within the current 4th Industrial Revolution.
Mr. CHOI received a Master's degree in Engineering and Technology Management in Portland State University in 2004.
Before working in KIAT, Mr. CHOI worked as an associate manager in Samsung Electro-Mechanics Corp from 2004.

SESSION 2. Practical Guidelines

A Guide to Finding Calls for Proposals and Applying for a Projects

Ju Young KIM
Policy Officer in Science, Technology and Innovation
Delegation of the European Union to the Republic of Korea

Ms. Ju Young Kim is a Policy Officer in Science, Technology and Innovation at the EU Delegation to the Republic of Korea and DG Research & Innovation of the European Commission. She is mainly responsible for supporting bilateral cooperation between the EU and Korea in science & technology, and research & innovation. Before joining the EU Delegation, she worked for the National Research Foundation of Korea from 2009 to 2014. At the NRF, she was mainly in charge of Korea-EU political cooperation in STI by leading several FP7 INCO projects such as KONNECT, KESTCAP, KORRIDOR and KORANET, bilateral cooperation with European countries, and trilateral cooperation among Korea, China and Japan. From 2004 to 2007, she had trade related experiences in particular on e-commerce and paperless trade at a private company. She holds a M.A. in international cooperation & conference management from the University of Westminster in the UK, and B.A in English at the Korea University of Foreign Studies, Korea.

A Guide to Finding European Research Partners and Services

Tomasz WIERZBOWSKI
Programme Officer
EURAXESS Korea

Tomasz has been working as a EURAXESS Programme Officer since May 2018. Before joining the EURAXESS Worldwide team his professional career was in both public and private sector where he managed international projects financed by the European Commission under FP7/Horizon 2020 and Erasmus+ schemes.
Tomasz holds PhD in Political Science completed at Hankuk University of Foreign Studies (2018) and MA in Political Science obtained at Sungkyunkwan University under Korean Government Scholarship Program. Tomasz specializes in International Relations with particular focus on Northeast Asia. His academic interest lies also in the methodology of the social sciences.

A Guide to Finding European Industrial Partners and Services

Juwon SOH
CEO
ED Research Co., Ltd.

Dr. Soh holds Master and Ph.D. degrees in Materials Science and Engineering in KAIST. He worked at Samsung Electro-Mechanics for 4 years. And he founded ED Research which is a consulting company in 2006. With over 12 years of experience and numerous achievements in technology transfer and commercialization, he has been engaged in activities for commercialization of public technology, and has also been participated in proposals for the creation and development of the ecosystem in the relevant fields to government policy. In addition, he has been conducted consulting work on business model creation, business planning, overseas marketing and advancement in line with the companies‘ growth stage. He received the Presidential Award for promoting electronic information industry and supporting innovative growth of companies in 2014 and also received the Minister’s Award for promoting technology transfer and commercialization in 2013. He, as an EEN-Korea partner, has been conducting a lot of cooperation activities between Korea and Europe since 2010.

SESSION 3. Parallel Thematic Sessions

ICT

Junho CHOI

Principal Researcher
Institute of Information & communications Technology Planning & Evaluation (IITP)

Dr. Junho Choi is a principal researcher of the Global R&D Cooperation Team at IITP. He received the B.S. and M.S. degrees in radio science and engineering from the Korea University, Seoul, South Korea, in 1998 and 2000, respectively, and the Ph.D. degree in telecommunication system technology from the Korea University in 2010.

From 2012 to 2014, he was a researcher with Korea Communications Agency, managing the R&D programs in mobile communications. Since 2014, he has been with the Institute of Information & communications Technology Planning & Evaluation, Daejeon, South Korea. He has been involved in the ICT R&D policy and planning, especially in the 5G mobile technologies. He is now responsible for the Global ICT R&D cooperation.

Seung Woo KUM

Managerial Researcher
Korea Electronics Technology Institute

Dr. Seung Woo Kum is a managerial researcher at Information and Media Research Center in Korea Electronic Technology Institute (KETI). He received his Ph.D degree from Hanyang University at 2017. Before KETI, he was with at LG Electronics a senior research engineer at DTV Laboratory.

He joined KETI in 2006 as a researcher, since then he involved development of ICT technology and related services in various areas including broadcasting, home network and personalized interactive service. He is a Korean coordinator of DECENTER, which is an EUKR joint Horizon 2020 program started on 2018. In that project, he is responsible for development of AI on the fog platform.

Energy

Piotr SWIATEK

Policy Officer, Fit for Europe, Germany

Piotr Swiatek is a German physicist of Polish origin. He received his PhD in solid state physics from the University of Cologne. From 1986-2001 he worked as a physicist in the Research Centre Juelich, Germany. He was Project Manager of "Fit for Europe" run by the European Liaison Office of German Research Organisations (KoWi) until 2003. "Fit for Europe" was a project supporting scientist from Central and Eastern European Countries (CEEC), financed by the Stifterverband für die Deutsche Wissenschaft and coordinated by KoWi. From 2004-2008 Piotr Swiatek worked in Brussels as Senior Science Officer at COST (European Cooperation in Science and Technology), one of the longest-running instruments supporting cooperation among scientists and researchers across Europe.

From 2008 to 2019 he was at the Research Centre Juelich (FZJ) / DE, working for Programme Management Jülich (PtJ) department which is primarily responsible for funding energy research on national level. With 5.914 staff and €609 million annual budget (2018), FZJ is one of the largest research centers in Europe. As one of the biggest project management organizations in Germany, PtJ (1.157 staff, €1,75 bill. turnover) with its National Contact Point (NCP) is a competent partner for science, industry and politics. With expertise in research and innovation management, Programme Management Jülich supports its clients in the German federal government and state governments as well as the European Commission in implementing their research policy goals. Project Management Jülich is thus an important point of contact for those interested in Germany as a competitive location for research and innovation in a common European Research Area. PTJ-NCP is a part of pan-European network of H2020 NCPs known as C-Energy2020 Network. Piotr Swiatek was a German delegate to SET-Plan Steering Group and States Representatives Group to FCH2 JU. Piotr Swiatek has experience as EU-project coordinator and expert evaluator. He held lectures on project management at the Institute for Technology and Resources Management in the Tropics and Subtropics (ITT) of the Technical University Cologne. His main focus now is the analysis and improvement of functioning of NCP networks in Associated Countries and countries of Eastern partnership.

Ki-Bok MIN

Professor

Seoul National University

Prof. Ki-Bok Min obtained PhD at the Royal Institute of Technology in Sweden and BSc and MSc in Seoul National University (SNU). He has been working for the department of energy resources engineering in SNU since 2009. Throughout his career in industry, consultancy and academia, Prof. Min has been working on rock mechanics /geomehcanics applied to petroleum, mining, civil and geoenvironmental problems with special focus on coupled hydromechanical process in fractured/porous rock. His current research interest is application of coupled hydromechanics/thermohydromechanics to geological repository of nuclear waste, Enhanced Geothermal Systems (EGS), underground storage of CO2, and hydraulic fracturing for shale gas production and. He is a recipient of American Rock Mechanics Association (ARMA) applied rock mechanics research award (2009) and case history award (2010). He is serving as an associate editor of the International Journal of Rock Mechanics and Mining Sciences which is one of the premier journals in geomechanics.

Health & Bio

Juan E. RIESE
Scientific and Technical Advisor at the Spanish National Health Institute 'Carlos III' in Madrid

Juan E. Riese is National Contact Point (NCP) in Spain since 2011 for the FP7 and HORIZON 2020 Societal Challenge 1 (SC1) 'Health, Demographic Change and Wellbeing' and National Expert at the SC1 Programme Committee in Brussels (Spanish Delegation) as well as NCP for the Innovative Medicines Initiative 2.

He owns a PhD in Chemical sciences (Biochemistry) from the University of Valencia (Spain), an MBA from the Technical University of Madrid with focus on innovation management in technology, and a Master in Management of RDI in health sciences from the University of Alcala de Henares and National School of Health (Spain). It has been researcher in Experimental Oncology for 20 years in Germany and Spain in the public (University and hospitals) and private sector. His main research field has been tumor progression, angiogenesis and cell adhesion molecules relevant in tumorigenesis. It has held several positions in business development in biotech companies of the Spanish PharmaMar - Zeltia group. From 2013 to Feb. 2015 he has been Coordinator of the Joint Action on Chronic Diseases and promoting Healthy Ageing across the Life Cycle (JA-CHRODIS) funded by the EC (DG-Santé).

Gilson KHANG
Professor
Chonbuk National University, South Korea

Professor Gilson Khang obtained his degrees at the Inha Univ (B.S. and M.S.) and Ph.D. degree at the Dept of Biomedical Eng'g, The Univ of Iowa, USA. His academic career started at the Department of PolymerNano Science and Technology at Chonbuk National University from 1998 and then tenured by Full Professor in 2009. He was the PI of BK-21 and WCU Program. Recently, he serves TERMIS-AP Chair as 2015. Also, he elected the Founding Fellow for Tissue Engineering and Regenerative Medicine (FTERM) on 2012. He has co-authored or edited 10 books. He has published ~650 original research papers, and ~200 editorials, reviews or chapters in books. His papers were cited >15,000 times. (h-index >65). He worked on the development of drug delivery systems, medical devices and regenerative medicine.

Researchers' Exchange and Career Development (MSCA, ERC, EURAXESS)

Hyong-Ha KIM
Principal Research Scientist / National Contact Point
Korea Research Institute of Standards & Science (KRISS) / European Research Council

Hyong-Ha Kim is a Principal Research Scientist at the Korea Research Institute of Standards & Science (KRISS) and currently the Korean National Contact Point of the European Research Council.
She graduated with Honors from Seoul National University receiving her B.S & later M.S., and earned her Ph.D. from the University of Texas at Austin majoring in Plant Molecular Biology. During her Ph.D. program, she received a number of awards and scholarships including the 'Harold C. Bold Award for Teaching Excellence', and the 'Ralph Alston Memorial Scholarship for Excellence in Research'.

At KRISS, although her research focus was in Bioanalysis and Biological Measurement Standards in fields including GMOs and biopharmaceuticals, she gained international cooperation experience while serving as the Director of the Office of Global Partnership. Her experiences were expanded as she was invited as the Director of the International Cooperation Division at the National Research Council of Science and Technology (NST). Her EU cooperation experience includes External Expert Evaluator for MSCA since 2009, and the ERC NCP for Korea since 2013.

Eok-Soo OH
Professor
Ewha Womans University

Dr. Eok-Soo Oh, Professor at the department of life sciences, received his Ph.D. degree in cell biology from the University of Alabama at Birmingham. He completed postdoctoral training at the Harvard Medical School and joined the faculty at Ewha Womans University in 1999. Dr. Oh's research program focuses on 'Oncogenic signaling networks in tumor microenvironment' and 'Diagnosis and treatment of cancer'. He has published over 100 papers in related SCI journals and actively involved in diverse academic activities both domestically and internationally. He is editorial board member of Matrix Biol., J. Histochem. Cytochem., Scientifica, Mol. Cells, and BMB reports. Besides, he served as the Director of the Business Incubation Center, President of 'Office of Research' and President of 'Ewha University-Industry Collaboration Foundation'.

Teun-Teun KIM
Research Professor, YSF
IBS, SKKU

Dr. Teun-Teun Kim is a Research Professor at Center for Integrated Nanostructure Physics, Sungkyunkwan University. He received his Ph.D in physics from the Korea Advanced Institute of Science and Technology (KAIST) in 2010. From September 2010 to August 2013, he was a Post Doctoral Research Fellow at KAIST, and from September 2013 to February 2017, he worked as the Marie Curie Fellow in the Metamaterial Research Centre at University of Birmingham, UK. In March 2017, he was awarded IBS Young Scientist Fellowship.

Dr. Kim's work on Graphene Metamaterials was selected as "Best Basic Research 50 for 2013" by NRF(National Research Foundation) and introduced in Science and Nature Photonics, and Graphene Metalens work was selected as "Best Research 10 for 2017" by IBS and received numerous media coverage.

His current line of research focuses on photonic devices by using novel PT-symmetry and topological physics with metamaterials and plasmonics, and 2D materials photonics including graphene and Transition metal dichalcogenide.

Transport (Vehicle, System, etc.)

Miriam de ANGELIS
Horizon2020 Transport National Contact Point
Agency for the Promotion of European Research

Miriam de Angelis is the Horizon 2020 'Smart green and Integrated transport' and 'Clean Sky 2' National Contact Point (NCPs) in Italy and the coordinator of the European network of Transport NCPs, ETNA2020. She is a major in International and Diplomatic Relations and in International Project Management. Since joining the Agency for the Promotion of European Research (APRE) in 2011, she has been working in the Transport field, actively contributing to the management of several EU transport-related projects such as ETNA, ETNA Plus, SME-AERO-POWER, CANNAPE, and BEWARE. She also worked in the international cooperation field, namely on EU-Canada Partnership on Research and Innovation.

Dongik LEE
Professor
Kyungpook National University (KNU)

Dr. Dongik Lee is a full-professor of the School of Electronics Engineering at KNU. He received his PhD degree in complex systems control engineering from the University of Sheffield, Sheffield, U.K. Prior to joining KNU, he co-founded DRTS Ltd, a spin-off company based in the U.K., in 2002. His research interests focus on the design of control and diagnostic system for various safety-critical applications, including autonomous underwater vehicles and intelligent robots. He has also been working to expand the collaborative network of KNU with educational institutions in Europe and Africa.

Nanotechnology & Materials

Piotr SWIATEK
Policy Officer, Fit for Europe, Germany

Piotr Swiatek is a German physicist of Polish origin. He received his PhD in solid state physics from the University of Cologne. From 1986-2001 he worked as a physicist in the Research Centre Juelich, Germany. He was Project Manager of "Fit for Europe" run by the European Liaison Office of German Research Organisations (KoWi) until 2003. "Fit for Europe" was a project supporting scientist from Central and Eastern European Countries (CEEC), financed by the Stifterverband für die Deutsche Wissenschaft and coordinated by KoWi. From 2004-2008 Piotr Swiatek worked in Brussels as Senior Science Officer at COST (European Cooperation in Science and Technology), one of the longest-running instruments supporting cooperation among scientists and researchers across Europe.

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Byoung Hun LEE
Professor
Gwangju Institute of Science and Technology

Byoung Hun Lee is director of center for exploratory electonic devices and systems (CEEDS) in GIST and also CEO of Sigma Photonics Inc., developing graphene barristor based high efficiency infrared photodetector.
Byoung Hun has over 25 years of experience in Semiconductor technology and is serving as a chair of Korea-EU nanoforum, promoting the R&D exchange between Korea and EU. He worked as a senior manager at SEMATECH, IBM and SAMSUNG before he joined GIST in 2008 and has contributed to the development of several major R&D programs related to future semiconductor technology. Most recent R&D program he participated in the planning will invest 800M Euro on intelligent semiconductor technology for next 10 years.

Environment & Climate

Efthymios SAKELLARIOU
Policy Officer, International Cooperation Directorate
DG Research and Innovation

Efthymios Sakellariou is a Policy Officer in Directorate C, International Cooperation, at the Directorate General for Research and Innovation (DG RTD) at the European Commission. Amongst his duties is the relevant officer for Taiwan and the Council formation of the Strategic Forum for International Cooperation (SFIC).
He is a Charted Chemical Engineer and holder of a Masters and a Ph.D Degree in Food Engineering from Leeds and Loughborough Universities, UK.
Before joining the European Commission in 2016, he was the Diplomatic Counsellor responsible for Research and Space issues at the Greek Permanent Representation to the EU.
He has extensive knowledge of European Research issues being Greek National Delegate and expert in series of Framework Programmes since 1992 and EUREKA.

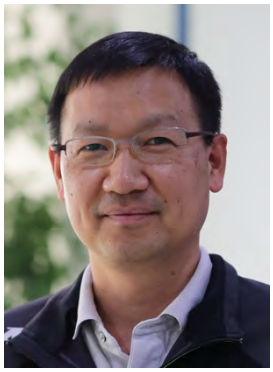
Woo-Kyun LEE
Professor
Korea University

Prof. Woo-Kyun Lee is a professor of Department of Environment Science and Ecological Engineering, director of Environmental GIS/RS Centre, BK21 Eco-Leader Education Centre at Korea University. In academic area, he is working as a president of Korean Society of Remote Sensing (KSRS) and Korean National Committee for International Institute of Applied System Analysis (IIASA). Internationally, he has served as director of SDSN Korea, Mid-Latitude Region Network (MLRN), scientific steering committee of GCP-Korea Office.
His research has been focused on the region of Mid-Latitude Ecotone including Korean peninsula, North-Eastern Asia, and Central Asian Countries where water and food problems are getting serious with extreme climate condition. Nowadays, his researches are focusing on development of indicators for Sustainable Development Goals (SDGs), Disaster Risk Reduction (DRR), and climate change considering environmental and socio-economic conditions in MLR. And he has tried to suggest how to enhance adaptive capacity or resilience through environmental infrastructure and socio-economic policies for adapting climate change, reducing disaster risk, and achieving SDGs through H2020 project.

Industrial Cooperation (EUREKA,EUROSTAR2)

Hongyeol CHOI
Director of International Industrial R&D Cooperation Team
KIAT

Mr. Hongyeol CHOI is Director of International Industrial R&D Cooperation Team of KIAT, based in Seoul. KIAT is an Industrial R&D funding agency in Korea, founded in 2009. KIAT is a governmental agency aiming at supporting technological innovation in Korea within the current 4th Industrial Revolution.
Mr. CHOI received a Master's degree in Engineering and Technology Management in Portland State University in 2004.
Before working in KIAT, Mr. CHOI worked as an associate manager in Samsung Electro-Mechanics Corp from 2004.



Joon Sang YU
Technical Staff
OE Solutions

Dr. Joon Sang Yu is a member of the Technical Staff at OE Solutions, Korea.
He earned his Ph.D in Electronic Materials from Imperial College, London, specializing in ohmic contacts to III-V compound semiconductors. From 1992, he carried out researches in communication laser diodes at Samsung Advanced Institute of Technology and Samsung Electronics.
Since joining OE Solutions, he has participated in a number of R&D projects including a Eurostar project on the Next Generation Smart Transceivers with AimValley, the Netherlands and Creanord, Finland.

KB LEE
CEO
Data Alliance Co., Ltd, Korea

Mr. KB Lee is the CEO of Data Alliance Co., Ltd. based in Seoul, Korea. Data Alliance is an IoT (Internet of Things) start-up company founded in May, 2016. It started with five employees and currently employs twenty five employees as of August, 2019.

Mr. Lee received a Master's degree in Electrical Engineering from Korea University in 1999 and completed a PhD Degree course in Computer Science at Korea University in 2002.

Before Data Alliance, Mr. Lee worked as a VP for another start-up, UBridge Co., Ltd. where he was a co-founder, since 2007. Before UBridge, he worked for several companies between 1999 and 2006, where he was responsible for developing system software for robotics, PDA OS software, and Bluetooth and wireless LAN devices.

Mr. Lee had a long dream on connecting 'Things' via a network over 10 years even before the term 'IoT' became popular. He founded Data Alliance to realize his dream on IoT.

Jong-Tae RHEE
Professor
Dongguk University

Jongtae Rhee is Professor in the Department of Industrial and Systems Engineering and Director of u-SCM Research Center, Dongguk University. He received his Ph.D. degree in U.C. Berkeley University in 1991. He has been performing researches about developing practical artificial neural network models for production and operation planning. Especially, he developed RFID systems to be used for supply chain optimization and pedigree system in logistics and industry, by Korea governmental support. He is very interested in developing a standard model for utilizing RFID and IoT data for training artificial neural network system diagnosing and managing risks in production processes and supply chains.