

7th Multi-stakeholder Forum on Science, Technology and Innovation for the Sustainable Development Goals

5-6 May 2022

UN Conference Room 2 and virtual (hybrid format), UN New York

*“Science, technology and innovation for building back better
from the coronavirus disease (COVID-19) while advancing the full
implementation of the 2030 Agenda for Sustainable Development”*

Programme

Thursday, 5 May 2022

Note: Virtual innovators booths on Whova platform staffed from 07:00 to 10:00am EDT.

Pre-event 1: Accelerating technological solutions for the SDGs - The Global Sustainable Technology & Innovation Community (G-STIC) **

(7:30-8:25; virtual only)

This pre-event will make a special contribution by GSTIC, one of the most important academic partners of the STI Forum since its inception. The session will feature key technology solutions for the SDGs and means and ways to get engaged and make a difference.

Moderator and chair:

- Mr. Paulo Gadelha (Brazil), Former President & Coordinator of Strategy for 2030 Agenda, Fiocruz; and former Member of the UN Secretary-General's 10-Member Group

Panel

- Mr. Dirk Fransaer (Belgium), Managing Director, Flemish Institute of Technology (VITO)
- Ms. Vibha Dhawan (India), Director-General, TERI
- Mr. Thulani Dlamini (South Africa), Chief Executive Officer, CSIR
- Mr. Dietrich Van der Weken (Belgium), General Manager, G-STIC

Pre-event 2: UN system work on STI for the SDGs, including outcomes of regional STI Forums and global thematic conferences **

(8:30-9:45; virtual only)

This pre-event will feature senior UN officials discussing their STI work, outcomes of joint work in the IATT, and feature reports about the outcomes of closely associated UN commissions, forums and events, such as the regional STI Forums of the Regional Commissions, the UN Commission on Science and Technology for Development, ITU's AI for Good Summit, the Internet Governance Forum, and cooperating initiatives.

Moderator:

- Ms. Salome Guchu (Kenya), Principal Innovation and Outreach Officer, Inter-University Council for East Africa (IUCEA) [UN Secretary-General's 10-Member-Group]

Speakers:

- Ms. Shamila Nair-Bedouelle, Assistant Director-General for Natural Sciences, United Nations Educational, Scientific and Cultural Organization (UNESCO)
- Ms. Maria Francesca Spatolisano, Assistant Secretary General for Policy Coordination and Inter-Agency Affairs, DESA; and Officer-in-Charge of the Office of the Secretary General's Technology Envoy
- Mr. Niklas Hedman, Acting Director of the United Nations Office for Outer Space Affairs (UNOOSA)
- Ms. Ismahane Elouafi, Chief Scientist, Food and Agriculture Organization (FAO)
- Mr. Kaveh Zahedi, Deputy Executive Secretary, United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)

Welcome and Opening

(10:00-10:40; hybrid)

Opening Remarks

- H.E. Mr. Collen Vixen Kelapile, President of Economic and Social Council
- H.E. Mr. Abdulla Shahid, President General Assembly
- Mr. Liu Zhenmin, Under-Secretary-General, United Nations Department of Economic and Social Affairs, on behalf of H.E. Mr. Antonio Guterres, Secretary-General of the United Nations

Keynote Speakers

- Hon Mrs. Leela Devi Dookun-Luchoomun, G.C.S.K (Mauritius), Vice-Prime Minister, Minister of Education, Tertiary Education, Science and Technology
- Mr. Francis Collins (USA), national science advisor to the President of the USA, former Director, National Institutes of Health, and former leader of the Human Genome Project

Ministerial session: Science, Technology and Innovation for the SDGs and a sustainable recovery from the COVID-19 pandemic

(10:40-12:00; hybrid) [Live delivery and recorded videos, with simultaneous interpretation]

It is proposed that the high-level statements and interventions consider directly addressing one or more of the following guiding questions:

- *Best practices for equality*: Are there examples/good practices of technologies and innovations that have emerged during the COVID-19 crisis to tackle inequalities, particularly affecting vulnerable groups, including those equalizing access to good quality healthcare, education, and finance? How can these be shared and scaled up? Would international investment in the creation of Global Public Goods, serve to foster innovation while reducing global risk and ensuring equitable access to its benefits?
- *STI4SDG roadmaps*: Proactive STI policy measures are needed to stimulate research efforts, focus investments, and inspire coordination. How can your national STI roadmaps or action plans be aligned regionally -and globally- towards a more cost-effective SDGs-focused STI development? How are your STI roadmaps contributing to the mitigation of global risks, including future outbreaks? How to better support innovation system (e.g., in universities) to facilitate entrepreneurship and problem-solving skills? How can the UN contribute to foment a more responsive STI4SDG ecosystem in your country?
- *STI for resilience building*: What are some of the most promising innovations and technologies for resilience building and reversing the trends of rising inequalities? How can these technologies be scaled up quickly to make them accessible to the most vulnerable groups and countries? How can national STI systems become more resilient, making their positive impacts sustainable, while mitigating the risks of changing patterns of globalization and accelerated technological change?
- *STI toward low-carbon economies*: What are the most promising ways STI can contribute to a permanent shift toward inclusive low-carbon economies within the next 1, 5 and 10 years? What capacities should be built/strengthened to achieve this purpose? What are the most important opportunities and risks to the STI system?
- *Lessons learned towards SDGs 4, 5, 14 and 15*: Looking back, what are some of the key lessons learned from an STI perspective on what worked and what did not work to meet the targets related SDG 4 on quality education, SDG 5 on gender equality, SDG 14 on life below water, and SDG 15 on life on land? Taking into consideration the methods that did not work to meet the SDG targets, how could these barriers be overcome in the near future?

Chair:

- H.E. Mr. Kennedy Gastorn, Ambassador and Permanent Representative of United Republic of Tanzania to the United Nations
- H.E. Mr. Sergiy Kyslytsya, Ambassador and Permanent Representative of Ukraine to the United Nations

Opening Remarks:

- H.E. Mr. Liu Zhenmin, Under-Secretary-General, United Nations Department of Economic and Social Affairs

Ministerial statements**Special event 1: Global research cooperation, funding, and partnerships *****(12:15 – 13:15; hybrid)**

This special event will explore the status of global research cooperation and funding - especially in the Global South - to support the achievement of the SDGs. It will consider the short-term context of the pandemic and how it has highlighted the need for national capacity in STI while also showing how crucial arrangements for global collaboration are for responding to global crises and achieving the SDGs. A conversation among key R&D actors from public and private sectors will explore how to better share knowledge, how to work on joint funding proposals and projects, and how to strengthen collaboration and build new partnerships. The conversation will also include research funders to discuss the way forward.

Chair:

- H.E. Mr. Sergiy Kyslytsya, Ambassador and Permanent Representative of Ukraine to the United Nations

Moderator:

- Mr. Carlos Henrique de Brito Cruz, Member, Brazilian Academy of Sciences, and Senior Vice President at Elsevier, and Professor Emeritus in Physics, University of Campinas, Brazil [UN Secretary-General's 10-Member-Group]

Speakers:

- Mr. Marcos Regis de Silva (Americas), co-chair Belmont Forum, IAI
- Mr. Ambuj Sagar (India), Vipula and Mahesh Chaturvedi Professor of Policy Studies at the Indian Institute of Technology Delhi, IGS member
- Ms. Masami Nakata (Japan), Advisor for International Cooperation, Shiga University, former Assistant Secretary-General of the International Energy Charter
- Mr. Omo Oaiya, Chief Strategy Officer at WACREN – the West and Central Africa Research and Education Network

Ministerial/high-level respondent

Ms. Charlotte Watts, Chief Scientific Adviser, the United Kingdom

Interactive discussion

- Ms Shamila Nair-Bedouelle, Assistant Director-General for Natural Sciences, UNESCO – could bring elements in the discussion from the UNESCO Science Report/Open Science Partnership/ International Alliance for Nature and Culture
- Ms. Ellen Dixon (New Zealand), Global Student Forum, Education and Academia Stakeholder Group
- Ms. Connie Nshemereirwe (Uganda), Africa Science Leadership Programme, Science and Technology Major Group

Lunch break**(13:10 – 15:00)****Opening Ceremony for virtual Innovation exhibit and women in STEM – Engagement with innovators and eminent women scientists and engineers ******(13:15 – 14:55; virtual only)**

A launch event featuring keynotes by women leaders in science and innovation will be followed by engagement with the winners of several UN-sponsored innovation competitions. This engagement may be in the form of lightning talks and/or a virtual tour of the exhibition and opportunities for audience questions and discussion.

The winners will explain their cutting-edge initiatives and share insights from their experience developing, implementing and scaling their innovations to accelerate progress on the SDGs.

Moderator:

- Ms. Anita Gurumurthy, Founding member and Executive Director, IT for Change, Bangalore, India. [UN Secretary-General's 10-Member-Group]

Panelists

- Ms. Quarraisha Abdool Karim, Laureate of the L'Oréal-UNESCO for Women in Science International Awards
- Ms. Sophia Huyer, Gender and Social Inclusion Research Leader for CGIAR Research Program on Climate Change, Agriculture and Food Security

Lightning talks - selected innovators

- **Introduction:** Ms. Lana Zaman, Associate Sustainable Development Officer, United Nations Department of Economic and Social Affairs

Space Applications to Address Sustainable Development

- **Moderator:** Ms. Anita Gurumurthy, Founding member and Executive Director, IT for Change, Bangalore, India. [UN Secretary-General's 10-Member-Group]
- **Lightning Talks:**
 - Mr. Charles Mwangi, Research, Education and Outreach Lead, Kenya Space Agency
 - Mr. Victor Hugo Ayerdi Bardales of the UVG CubeSat Quetzal-1 Team, Universidad del Valle de Guatemala (UVG)

Session 2: Innovations to Support Economic Development and Vulnerable Populations

- **Moderator:** Ms. Quarraisha Abdool Karim, Laureate of the L'Oréal-UNESCO for Women in Science International Awards. [UN Secretary-General's 10-Member-Group]
- **Lightning Talks:**
 - Ms. Rola Fayyad, Founder & CEO, ViaVii
 - Ms. Tofara Lindsay Chokera, Founder, TofaraOnline: Digital Marketing and Innovation Consulting Trust
 - Mr. Francisco Javier Cardenas Ibarra, CEO & Founder, Rotamundos
 - Mr. Atish Shah, Founder, Roverlabs

Session 3: Innovations to Advance Environmental and Agricultural Sustainability

- **Moderator:** Ms. Sophia Huyer, Gender and Social Inclusion Research Leader for CGIAR Research Program on Climate Change, Agriculture and Food Security
- **Lightning Talks:**
 - Mr. Gerhard Dust, Founder & CEO, Polycare
 - Ms. Adelaide Njoki, RepoSand Glass Recyclers Limited
 - Mr. James Robert Brown, Chief Technology Officer, Bondi Bio
 - Ms. Rebecca White, CEO, Pebble Labs Inc.

Note: Virtual innovators booths on Whova platform are staffed from 07:00 to 10:00 am EDT on 5 May.

Exhibition: "She is science"

Venue: Delegates' Entrance Hall

Time: May 2nd – 6th 2022

The Exhibition is an educational art project showcasing the achievements of Ukrainian women scientists, to interest young people in STEM (science, technology, engineering, and mathematics) professions, as well as to refute the myth that science is an exclusively male affair. The project is a part of the UN Women of the Generation Equality campaign, to promote gender parity among young people and ensure women's leadership in technology and innovation.

Thematic session 1: Science, technology and innovation at the COVID-19 conjuncture (15:00-16:00; hybrid)

This session will explore lessons from the COVID-19 pandemic for a better science-policy-society interface, a resilient, sustainable and inclusive recovery, and rapid solutions for global challenges. It will consider how science can prepare for a future with pandemics, extreme weather, and other risks and build toward long-term resilience. The discussion will be based on recent STI trends, outlooks, and socio-economic impacts, and the role of STI in the recovery from COVID-19. It would feature emerging science and technology, discuss what it means for development perspectives and explore options for the way forward. It could also highlight key issues of the science-policy-society interface. South-South cooperation and research funding to support inclusive STI progress that is aligned with the SDGs will also feature in the discussion. The discussion will build on related discussion at the end of March in the UN Commission on Science and Technology for Development.

Chair:

- H.E. Mr. Kennedy Gastorn, Ambassador and Permanent Representative of United Republic of Tanzania to the United Nations

Moderator

- Ms. Quarraisha Abdool Karim, Co-chair 10-Member-Group, Associate Scientific Director, Centre for the AIDS Programme of Research; and Professor, Clinical Epidemiology, Columbia University [Co-chair, UN Secretary-General's 10-Member-Group]

Keynote Presentation

- Mr. Christian Bréchet (France), President, Global Virus Network; former president; Institut Pasteur

Report on outcomes of COVID-19 in the CSTD

- Mr. Peter Major, Vice-Chair of the UN Commission on Science and Technology for Development, to deliver a message on behalf of the Chair of the UN CSTD.

Speakers:

- Mr. John Nkengasong (Cameroon), Director, Africa Centres for Disease Control and Prevention (Africa CDC) Ethiopia
- Ms. Anusha Nathan (USA), Health Sciences and Technology Program at Harvard Medical School

Ministerial/high-level respondent

- H.E. Feridun H. Sinirlioğlu, Ambassador and Permanent Representative of Turkey to the United Nations on behalf of MIKTA
- H.E. Mr. Bing DAI, Ambassador and Deputy Permanent Representative of China to the United Nations
- H.E. Ms. Hyunjoo OH, Ambassador and Deputy Permanent Representative of the Republic of Korea to the United Nations

Interactive discussion

- Mr. Eamonn Murphy, Deputy Executive Director, UNAIDS
- Ms. Juana Tapel (the Philippines), WFEO, Science and Technology Major Group

Thematic session 2: Innovations in education: towards quality access and common good (16:00-17:00; hybrid)

This session will look not only at promising technology and organizational solutions and trends, but also look at what has been achieved and what challenges remain in terms of increased access and quality of education worldwide. This session will emphasize equity issues, including gender equity, as well as economic disparities. It will examine advancements of digital learning and education technologies (ed-tech) to address learning during school closures due to COVID-19. It will also discuss best practices and innovative solutions to help tailor new tools with an equity lens to ensure that technologies serve to narrow rather than widen existing disparities. Lastly, the session will discuss the ways in which new technologies, collaborative and inclusive teaching models, and innovative pedagogical approaches can serve to transform education systems overall to better equip students for the future job market, as well as to prepare the next generation to address economic, social, and environmental issues towards a more sustainable future.

Chair:

- H.E. Mr. Kennedy Gastorn, Ambassador and Permanent Representative of United Republic of Tanzania to the United Nations

Moderator

- Mr. Talis Juhna, Vice-Rector for Research and Professor; Chairman of Advisory Board of the Latvian Council of Science, Riga Technical University [UN Secretary-General's 10-Member-Group]

Panelists

- Ms. Nesha Haniff (USA), Director, The Pedagogy of Action, University of Michigan
- Ms. Verna Lalbeharie (South Africa), Executive Director, EdTech Hub
- Ms. Susan Liautaud, The Vice Chair of the Board, Global Partnership for Education

Interactive discussion

- Ms. Sajitha Bashir, Former Adviser in the Office of the Global Director of the Education Practice, the World Bank
- Ms. Paola Bettelli (Colombia), member of the Covid Education Alliance
- Ms. Carmen Romero (Belgium), Global Student Forum, Education and Academia Stakeholder Group
- Mr. Patrick Paul Walsh (Ireland), Professor, University College Dublin

Special event 2: Reflections by the 10-Member-Group of High-level Representatives *

The Secretary-General's 10-Member Group of High-level Representatives of scientific community, civil society, and private sector is tasked with supporting the Technology Facilitation Mechanism, including the STI Forum. Group members work closely with the IATT and guide the work of the TFM. In this session, the 10-Member-Group will discuss elements of a vision and high-priority actions for the SDGs until 2030 and beyond.

(17:15 – 18:15; hybrid)

Chair:

- H.E. Mr. Kennedy Gastorn, Ambassador and Permanent Representative of United Republic of Tanzania to the United Nations

Speakers:

- Ms. Quarraisha Abdool Karim, Co-chair of 10-Member-Group, Associate Scientific Director, Centre for the AIDS Programme of Research; and Professor, Clinical Epidemiology, Columbia University
- Ms. Cherry Murray, Co-chair of 10-Member-Group, Professor of Physics and Deputy Director for Research, Biosphere 2, University of Arizona, USA

Interactive discussion

- Mr. Keywan Riahi, Director, Energy, Climate and Environment Program, International Institute for Applied Systems Analysis, Austria
- Ms. Maki Kawai, Director General, Institute for Molecular Science, Professor Emeritus, University of Tokyo, Japan
- Mr. Tālis Juhna, Vice-Rector for Research and Professor; Chairman of Advisory Board of the Latvian Council of Science, Riga Technical University, Latvia
- Mr. José Ramón López-Portillo Romano, Science Diplomacy Adviser to Mexican Government, Chairman/non-Executive Director, Zenith Energy Ltd.; Co-founder and Chairman of Q-Element, Mexico.
- Ms. Anita Gurumurthy, Founding member and Executive Director, IT for Change, Bangalore, India.
- Ms. Salome Guchu, Principal Innovation and Outreach Officer, Inter-University Council for East Africa (IUCEA)
- Mr. Yonglong Lu, Chair Professor of Xiamen University, and Distinguished Professor of the Chinese Academy of Sciences, China.
- Mr. Carlos Henrique de Brito Cruz, Member, Brazilian Academy of Sciences, and Senior Vice President at Elsevier, and Professor Emeritus in Physics, University of Campinas, Brazil

Roundtable 1: Lessons from national science-policy advice **

This roundtable - in cooperation with the ISC and INGSA - will discuss lessons-learned from the practice of providing science advice to national governments in the context of the pandemic. It will make suggestions on how to improve cooperative actions for a better science-policy interface among governments, the UN system, stakeholders including the scientific community, and the private sector. It will outline the implications of more responsive science advice mechanisms on public trust in science and technology

(08:45-09:45; virtual only)

Moderator:

- Mr. Yonglong Lu, Chair Professor of Xiamen University, and Distinguished Professor of the Chinese Academy of Sciences, China [UN Secretary-General's 10-Member-Group]

Presentation and Panelist

- Mr. Peter Gluckman (New Zealand), ISC President and former Science Advisor to the Prime Minister of New Zealand

Panelists

- Mr. Alexander Fasel, Ambassador, Special Representative for Science Diplomacy, Switzerland
- Mr. Macharia Kamau, Principal Secretary to the Minister of Foreign Affairs, Kenya
- Ms. Maria Esteli Jarquin-Solis, Deputy Director of International Affairs, University of Costa Rica
- Ms. Claire Craig, Vice President of INGSA, Queens College, Oxford, UK

Interactive Dialogue

- Ms. Akustina Morni (Brunei Darussalam), IOE, Business and Industry Major Group
- Mr. Stefano Marras, Bayer Crop Science, Business and Industry Major Group

Thematic session 3: Global, national, and local innovation ecosystems

(10:00-11:00; hybrid)

The session will showcase various local, national mission-oriented innovation approaches by governments and start-ups and specific good practices and proposals, in particular to support innovation and technology adaptation and furthering the SDGs. The challenges of structuring an effective organization at the national and local levels, prioritizing the tasks, empowering people to engage in mission innovation and securing sustainable funding will be addressed. It will discuss specific policy proposals, including the proposal of a network of Banks of Ideas and Funds for Innovation supported by Ethical Councils.

Chair:

- H.E. Mr. Sergiy Kyslytsya, Ambassador and Permanent Representative of Ukraine to the United Nations

Moderator:

- Mr. José Ramón López-Portillo Romano, Science Diplomacy Adviser to Mexican Government, Chairman/non-Executive Director, Zenith Energy Ltd.; Co-founder and Chairman of Q-Element, Mexico. [UN Secretary-General's 10-Member-Group]

Panelists

- Mr. Amos Nungu (United Republic of Tanzania), Director General, Tanzania Commission for Science and Technology
- Mr. Joo Hyunghwan (Republic of Korea), Former Minister of Trade, Industry, and Energy Seoul National University Business School, Republic of Korea
- Ms. Oksana Krukevich (Ukraine), Head of the Expert Group of Innovation, Directorate of Science and Innovation, Ministry of Education and Science
- Mr. Tom Peter Migun Ogada (Kenya), Executive Director, African Centre for Technology Studies, Kenya

Ministerial and High-level respondent

- H.E. Mr. Prasih Cham, Senior Minister, Ministry of Industry, Science, Technology and Innovation, Cambodia

Interactive discussion

- Mr. Slavo Radosevic, Professor of Industry and Innovation Studies, SSEES, University College London
- Mr. Alessandro Rainoldi, Head of Territorial Development Unit, Joint Research Centre, European Commission
- Ms. Carolina Rojas (Panama), Engineering for Change, Children and Youth Major Group

Thematic session 4: Global digital public goods, digitalization, artificial intelligence, and connecting the world by 2030

(11:00-12:00; hybrid)

This session will focus on global digital public goods, the role of pervasive digitalization and artificial intelligence trends, and what it will take to fully connect the world, its people and things. The session will showcase examples and good practices of digital public goods innovations that have emerged during the COVID-19 pandemic to tackle inequalities, including those equalizing access to good quality healthcare, education, and finance. It will explore the means and ways to achieve universal access to a critical level of digital technologies and infrastructures as a matter of urgency, as well as how digital cooperation could accelerate progress to the SDGs. The conversation aims at considering specific pathways for achieving universal access to connectivity, data and AI infrastructure, while touching upon key governance, justice and equity issues. It will also aim at building on the proposals for how to improve digital cooperation made in the Secretary-General's report Our Common Agenda which was made available as part of his vision on the future of global cooperation and reinvigorating inclusive, networked, and effective multilateralism. In addition, the spotlight will also be on how the Technology Facilitation Mechanism can address the unique STI challenges faced by the developing countries in these areas.

Chair:

- H.E. Mr. Sergiy Kyslytsya, Ambassador and Permanent Representative of Ukraine to the United Nations

Moderator

- Ms. Anita Gurumurthy, Founding member and Executive Director, IT for Change, Bangalore, India [UN Secretary-General's 10-Member-Group]

Panelists

- Ms. Maria Francesca Spatolisano, Assistant Secretary General for Policy Coordination and Inter-Agency Affairs, DESA; and OIC of the Office of the Secretary General's Technology Envoy
- Ms. Liv Marte Nordhaug (Norway), Co-Lead, Digital Public Goods Alliance
- Ms. Renata Avila (Guatemala), CEO, Open Knowledge Foundation
- Mr. Ally Nyamawe, Manager (United Republic of Tanzania), AI4D Africa's Anglophone Multidisciplinary Research Lab

Interactive discussion

- Mr. Paul Mitchell, Chair of the Multistakeholder Advisory Group (MAG) of the Internet Governance Forum (IGF)
- Mr. Abdel Karim Samakie, Director of Innovation Driven Enterprises, Digital Cooperation Organization
- Ms. Chee Yoke Ling, Director of Programmes, Third World Network (TWN)
- Ms. Reine Essobmadje (Cameroon), WFEO, Science and Technology Major Group
- Ms. Ona Ambrozaitė (USA), Major Groups Children and Youth

Special event 3: Supporting national capacities and the Partnership in Action for STI4SDG roadmaps *

(12:15-13:15; hybrid]

This special event will discuss the path forward for the Partnership in Action, following the successful inception of the Global Pilot Programme on Science, Technology, and Innovation (STI) for the SDGs roadmaps. The session will also discuss potential support to strengthen international partnerships on STI capacity-building for SDGs achievement in the context of the Voluntary National Reviews (VNRs) and the SDG Summit 2023.

Chair

- H.E. Mr. Kennedy Gastorn, Ambassador and Permanent Representative of United Republic of Tanzania to the United Nations

Moderator:

- Ms. Maki Kawai, Director General, Institute for Molecular Science, Professor Emeritus, University of Tokyo, Japan [UN Secretary-General's 10-Member-Group]

Panelists:

- Mr. Sachin Chaturvedi (India), Director General at RIS - Research and Information System for Developing Countries (RIS)
- Mr. Viktor Nedović (Serbia), Director, Serbia Accelerating Innovation and Entrepreneurship Project – SAIGE, Ministry of Education, Science and Technological Development
- Ms. Wilhelmina Quaye (Ghana), Director, CSIR-Science and Technology Policy Research Institute
- Mr. Desta Abera Shanko (Ethiopia), Director, Policy, Strategy and Future Planning Directorate in Ministry Innovation and Technology

Ministerial and High-level respondent

- H.E. Mr. Nemanja Stevanović, Ambassador and Permanent Representative of Serbia to the United Nations
- H.E. Mr. Tetsuya Kimura, Ambassador at the Permanent Mission of Japan to the United Nations

Interactive dialogue

- Mrs. Karima Bounemra Ben Soltane, Director, African Institute for Economic Development and Planning (IDEP) of the United Nations Economic Commission for Africa., UNECA
- Mr. Ezra Clark, Director of Science Policy and Capacity-Building a.i., UNESCO
- Mr. Kareem Hassan, Executive Director of ESCWA Technology Centre, ESCWA
- Mr. Angel Gonzalez Sanz, Head, Science, Technology and ICT Branch. Division on Technology and Logistics. UNCTAD
- Ms. Gihan Soliman, International Curricula Educators Association, Women's Major Group
- Mr. Dhairya Pujara (India), Ycenter

Lunch break

(13:15 – 14:45)

Roundtable 2: Emerging science, frontier technologies, and the SDGs –perspectives from UN system and science and technology communities**

(13:15 – 14:10; virtual only)

This roundtable is being organized in the spirit of General Assembly resolutions 73/17 and 75/316 which called for collecting information, analyse and disseminate the findings on the impact of rapid technological change on the achievement of the SDGs from which specific STI policies and feedback systems can emerge, as well as A/RES/76/213 which established a framework for these STI4SDGs endeavours. The event will explore the latest developments in science and technology and their current and potential future impacts on sustainable development and the SDGs. The session will explore technology convergence and the multiple technology divides, including gender digital divide, and other challenges associated with these trends related to clusters such as blockchain, biotechnology, nanotechnology, artificial intelligence and quantum technologies. A key idea for the establishment of the UN Technology Facilitation Mechanism was to bring decision-makers closer to the

pulse of scientific and technological progress, and the event will also explore the best means and ways to achieve that. In particular, the interagency task team IATT will present its report, an update to the “TFM findings on the impacts of rapid technology change on the SDGs”, and science-policy briefs submitted by scientists and engineers from academia, private sector, UN systems and governments. The discussions will also build on work by CSTD on industry 4.0 and insights from the SG’s Special Envoy on Technology. The informal event will feature focused conversations on selected issues and allow a frank discussion of policy suggestions.

Moderator:

- Mr. José Ramón López-Portillo Romano, Science Diplomacy Adviser to Mexican Government, Chairman/non-Executive Director, Zenith Energy Ltd.; Co-founder and Chairman of Q-Element, Mexico [UN Secretary General’s 10 Member Group].

Presentations of IATT report and TFM findings:

- Ms. Maria Francesca Spatolisano, Assistant Secretary General for Policy Coordination and Inter-Agency Affairs, DESA; and Officer-in-Charge of the Office of the Secretary General’s Technology Envoy

Presentation on CSTD discussions on industry 4.0

- Ms. Ana Cristina Amoroso das Neves (Portugal), Vice-Chair, UN Commission on Science and Technology for Development

Panel discussion of science-policy briefs

- Ms. Roberta Rabellotti, Professor of Economics, Università di Pavia, Italy.
- Mr. José Ramón López-Portillo Romano, Science Diplomacy Adviser to Mexican Government, Chairman/non-Executive Director, Zenith Energy Ltd.; Co-founder and Chairman of Q-Element, Mexico.
- Mr. Bartłomiej Kolodziejczyk, University of Gothenburg
- Ms. Reham Al Tamime, Qatar Computing Research Institute, Hamad Bin Khalifa University
- Mr. Marco Zennaro, Research Scientist, Abdus Salam International Centre for Theoretical Physics

Perspectives and responses

- Ms. Saiph Savage (Mexico), Assistant Professor, Northeastern University, Boston, Khoury College of Computer Science
- Mr. Jiahua Pan (China), Member of IGS for the Global Sustainable Development Report, Member of the Chinese Academy of Social Sciences, Director of the Institute of Eco-civilization Studies and Professor of Economics, Beijing University of Technology, Editor-in-Chief of the Chinese Journal of Urban & Environmental Studies
- Ms. Gabriela Wurcel (Switzerland), FMC Corporation, Business and Industry Major Group

Note: *Virtual booths on related UN flagship publications (staffed on Whova platform from 14:10 to 15:00)*

Roundtable 3: Science and technology futures and scenarios for the SDGs and beyond: what is possible and what does it take? **

(14:10-14:55; virtual only)

This roundtable will explore the latest knowledge and key insights from science and technology futures and scenarios for the SDGs and beyond. It will engage scientists, technologists, scenario analysts, and decision-makers in Governments and private sector in a discussion on what is possible to achieve and what it would take. Particular attention will be paid to the in-focus SDGs 4, 5, 14, 15 and 17 under review at HLPF 2022. All these aspects will be also explored from a poverty reduction perspective and with a view to provide energy for decent living for everyone on the planet. It will further explore options for maximizing SDG synergies through circular & shared economy, and discuss latest insights from SDG pathways, resulting high-priority actions and their synergies and trade-offs across policy objectives.

Moderator:

- Mr. Keywan Riahi (Austria), Director, Energy, Climate and Environment Program, International Institute for Applied Systems Analysis, Austria

Panelists

- Mr. Elmar Kriegler (Germany), Professor, Integrated Assessment of Climate Change, Faculty of Economics and Social Sciences, University of Potsdam; and Head, Research Department "Transformation Pathways", Potsdam Institute for Climate Impact Research, Germany
- Mr. Narasimha Rao (India), Associate Professor of Energy Systems, Yale University
- Ms. Elena Verdolini (Italy), Senior Scientist, EIEE; and Professor in Political Economy, Law Department, Università degli Studi di Brescia, Italy
- Mr. Sampo Hietanen, CEO of MaaS Global

Interactive dialogue

- Ms. Iva Brkic, Project Lead, Economic Affairs Officer, United Nations Economic Commission for Europe (UNECE)
- Mr. Nicolas Balcom Raleigh, Project Researcher, Finland Futures Research Centre; and Co-Chair of the UNESCO Chair in Learning for Transformation and Planetary Futures
- Ms. Marlene Kanga, WFE0, Science and Technology Major Group
- Ms. Semia Gharbi, AEEFG, Women's Major Group
- Mr. Jeff Brueggeman, AT&T, Business and Industry Major Group

Thematic session 5: Emerging carbon dioxide removal technologies for addressing climate change (15:00-16:00; hybrid)

This session will address the growing need for carbon dioxide removal (CDR) technologies, what they are, the proposals and deployments of various technologies worldwide and our state of knowledge about these technologies. Speakers will include authors of authoritative technology reviews, CEOs and CTO's of companies, funders of research in CDRs, already existing international research and deployment communities of practice, as well as senior government officials and private sector CEOs. Speakers will highlight good practices in policy and governance at global regional and national levels, including a range of interactions with other SDG aspirations. In particular, the session aims to discuss the types of CDR technologies and partnerships needed to reach net-zero emissions; plans for scaling up technologies; effective support for innovation ecosystems, emerging demonstration projects and best deployment practices; and how the UN could contribute to a responsible discussion of the potential consequences, costs and trade-offs of various technologies, their interactions with various SDG goals, and their ethical and governance issues alongside conventional mitigation and adaptation strategies.

Chair

- H.E. Mr. Sergiy Kyslytsya, Ambassador and Permanent Representative of Ukraine to the United Nations

Moderator:

- Ms. Cherry Murray, Co-chair 10-Member-Group, Professor of Physics and Deputy Director for Research, Biosphere 2, University of Arizona, USA [Co-chair, UN Secretary-General's 10-Member-Group]

Panelists

- Mr. Keywan Riahi (Austria), Director, Energy, Climate and Environment Program, International Institute for Applied Systems Analysis, Austria; and Convening lead author, IPCC AR6 WGIII [UN Secretary-General's 10-Member-Group]
- Mr. Jan Minx (Germany), Professor, Mercator Research Institute
- Mr. Ally Masoud Nyomwa (United Republic of Tanzania), Director General, Kaypee Motors
- Mr. Aniruddha Sharma (India), CEO, Carbon Clean Solutions, UK, India, US, EU, Indonesia

Interactive discussion

- Ms Lee Kheng Heng, Section Head, the Joint FAO/IAEA Centre of Nuclear Techniques in Food and Agriculture, International Atomic Energy Agency (IAEA)
- Ms. Kathleen Draper (USA), Chair of the Board, Biochar Initiative; and Director, Ithaca Institute for Carbon Intelligence, NGO, USA
- Ms. Silvia Ribeiro (Uruguay), ETC Group

Ministerial session (continued): Science, technology and innovation for the SDGs and a sustainable recovery from the COVID-19 pandemic
(16:00-16:25; hybrid) [Live delivery and recorded videos, with simultaneous interpretation]

Chairs

- H.E. Mr. Kennedy Gastorn, Ambassador and Permanent Representative of United Republic of Tanzania to the United Nations
- H.E. Mr. Sergiy Kyslytsya, Ambassador and Permanent Representative of Ukraine to the United Nations

Thematic session 6: Delivering on the SDGs: Next steps for the TFM and its partners
(16:25-16:45; hybrid)

This session will begin with status report on the TFM, including the IATT and its activities. TFM partners will also present a number of initiatives from across the world that support the science-based, solution-oriented, multi-stakeholder and collaborative approach of the Technology Facilitation Mechanism (TFM) including discussions on broadening their impacts and closer connection to the TFM. It will conclude with a presentation of the way forward for the TFM.

Chairs

- H.E. Mr. Collen Vixen Kelapile, President of Economic and Social Council

Discussion led by co-chairs of the Forum and of the 10-Member-Group

- Ms. Quarraisha Abdool Karim, Co-chair 10-Member-Group, Associate Scientific Director, Centre for the AIDS Programme of Research; and Professor, Clinical Epidemiology, Columbia University (Co-chair)
- Ms. Cherry Murray, Co-chair 10-Member-Group, Professor of Physics and Deputy Director for Research, Biosphere 2, University of Arizona, USA (Co-chair)
- H.E. Mr. Kennedy Godfrey Gastorn, Ambassador and Permanent Representative of United Republic of Tanzania to the United Nations
- H.E. Mr. Sergiy Kyslytsya, Ambassador and Permanent Representative of Ukraine to the United Nations

Interactive dialogue

- Ms. Myrna Cunningham Kain, Centro para la Autonomia y Desarrollo de los Pueblos Indigenas (CADPI), Indigenous Peoples Major Group
- Mr. K. N. Gunalan, WFEO, Science and Technology Major Group

Closing session
(16:45-17:00; hybrid)

- H.E. Ms. Amina Mohammed, Deputy Secretary-General, United Nations
- H.E. Mr. Collen Vixen Kelapile, President of Economic and Social Council

*special events and ** other informal sessions (Roundtables, Pre-events, Exhibition opening) will not have interpretation services.

*** Side events will be held on the day prior to the Forum (4 May), as well as on 4-5 May during specific designated times to avoid overlap with official sessions. For a full list of side events, please click [here](#) .