



The 4th International Forum on Big Data for Sustainable Development Goals

September 6-8, 2024 Beijing, China

The year 2024 marks the commencement of a new phase following the mid-term review of the United Nations 2030 Agenda for Sustainable Development. Nevertheless, the unprecedented challenges impeding the achievement of the Sustainable Development Goals (SDGs) have propelled the global community into a renewed stage of reassessment and expedited efforts toward realizing these objectives.

There is now a substantial global consensus on the pivotal role of science, technology, and innovation in advancing the United Nations SDGs. Big data, as a prime representative of cutting-edge science and technology, exhibits massive, multi-source, multi-temporal, multi-dimensional, and multi-scale characteristics. This enables macro and dynamic monitoring and analysis of SDGs, offering a comprehensive understanding of key impediments to the sustainable development process and facilitating the discovery of holistic solutions.

To foster knowledge sharing, technological progress, and application demonstrations in the realm of big data and AI technologies for sustainable development, and to encourage transformative actions for the effective implementation of the 2030 Agenda in the coming seven years, The 4th International Forum on Big Data for Sustainable Development Goals is scheduled to take place in Beijing from September 6 to 8, 2024.

Theme

Next 7 Years: Big Data Driving Transformative Actions to Achieve SDGs

Academic Exchange Format

The forum will be held offline, with a variety of exchange activities, including invited keynote speeches, special sessions parallel sessions, round tables, panel discussions, showcase events and poster displays.

Venue

Beijing International Convention Center

Host



Chinese Academy of Sciences

Organizers



International Research Center of Big Data for Sustainable Development Goals



Aerospace Information Research Institute, Chinese Academy of Sciences

Supported by



United Nations Development Programme



Food and Agriculture Organization of the United Nations



United Nations Human Settlements Programme



United Nations Environment Programme



United Nations Convention to Combat Desertification



The World Academy of Sciences for the advancement of science in developing countries

Updating >

International Partners



United Nations Office for South-South Cooperation



United Nations Satellite Centre



Committee on Data of the International Science Council



Panafrican Agency of the Great Green Wall



International Centre for Integrated Mountain Development



The Alliance of National and International Science Organizations for the Belt and Road Regions



International Society for Digital Earth



Integrated Research on Disaster Risk



International Centre on Space Technologies for Natural and Cultural Heritage under the Auspices of UNESCO



Digital Belt and Road Program



CAS-TWAS Centre of Excellence on Space Technology for Disaster Mitigation

Updating >

Organization

Forum Chair



GUO Huadong

Scientific Committee

Co-chairs:



XU Guanhua



Csaba KÖRÖSI

Members:

Quarraisha ABDOOL KARIM, Alessandro ANNONI, Thomas BLASCHKE, Irina BOKOVA, Valery BONDUR, CHEN Deliang, Ge CHEN, Jay FAMIGLIETTI, Hiromichi FUKUI, Gregory GIULIANI, Jianya GONG, Ke GONG, Peng GONG, Matthew HANSEN, HE Changhui, Simon HODSON, Natarajan ISHWARAN, Christopher JUSTICE, Gretchen KALONJI, Markku KULMALA, LI Deren, LI Yuan Yuan, LIN Hui, LIU Congqiang, Vanessa MCBRIDE, MENG Xiaofeng, Graciela METTERNICHT, Szabolcs MIHALY, Stefano NATIVI, Barbara RYAN, Igor SAVIN, Mouthip SRIRATANA, Jens-Christian SVENNING, TONG Qingxi, WANG Hao, WANG Jian, WANG Qiao, WU Guoxiong, WU Yirong, XIA Jun, ZHANG Bing, ZHANG Renhe

Organizing Committee

Chairs: CHEN Fang

Vice-chairs: YAN Dongmei, LIU Jie, LU Shanlong

Members:

BAI Shibiao, BAI Yuqi, Birendra BAJRACHARYA, Marion BARTHELEMY, Tobias BOLCH, Elizabeth Heger BOYLE, Maria Antonia BROVELLI, CHEN Jingming, CHEN Kunshan, CHEN Xi, CHEN Yu, CHENG Xiao, Francis P. CRAWLEY, Ashraf DEWAN, DING Haifeng, DOU Changyong, DU Xiaoping, Micheal DUNFORD, Therese El GEMAYEL, Andy HAINES, HAN Mengyao, HE Dan, Thorsten JELINEK, JIA Gansuo, JIA Mingming, JIANG Jie, HUANG Lei, Rosa LASAPONARA, LI Jianhui, LI Congrong, LI Junsheng, LI Xiaofeng, LI Xiaosong, LI Xin, LI Xinwu, LIAO Xiaohan, LIU Min, LIU Xinjie, LIU Zhengjun, LU Linlin, LUO Lei, MEI Linlu, Anil MISHRA, Tshiamo MOTSHEGWA, Basharat MUHAMMAD, Robert NDUGWA, NIE Sheng, NIE Xiaowei, Gilles Amadou OUDRAOGO, PENG Dailiang, QIU Yubao, Ahmed SARFRAZ, Mohammed SHOKR, Ai SUGIURA, SUN Genyun, SUN Zhongchang, WANG Changlin, WANG Chao, WANG Fan, WANG Juanle, WANG Lei, WANG Lizhe, WANG Qinqun, Marie WEISS, YANG Saini, YANG Xiaofeng, YU Bo, YU Le, YU Zhihong, YUE peng, ZENG Jiangyuan, ZHANG fangfang, Hankui Zhang, ZHANG Li, ZHANG Lu, ZHAO Wei, ZHENG Yi, ZUO Lijun

Session Topics

Big Data Technology Serving Global Sustainable Development

SDG2 (Zero Hunger): Developing sustainable food systems
Digital technologies to empower sustainable agriculture

SDG6 (Clean Water and Sanitation): Integrated management for water resources
Water resources survey, monitoring and sustainable development

SDG7 (Affordable and Clean Energy): Transitioning to low-carbon energy
Energy transition and sustainable development

SDG11 (Sustainable Cities and Communities): Green and resilience city
Big Earth Data for Heritage Conservation and Sustainable Development
Monitoring and assessment technology for urban sustainable development goals based on spatiotemporal big data
Spatiotemporal Big Data AI Accelerates Sustainable and High-Quality Development of Digital Smart Cities
Digital Technology in the Service of Historic Building Conservation

SDG13 (Climate Action): Accelerating climate change mitigation and adaption
Big Data and AI solutions for SDG 13 Climate Mitigation and Adaption
Aerospace Data Technologies in Support of Disaster Risk Reduction
Digital Technology for Disaster Risk Reduction and SDGs

SDG14 (Life below Water): Blue innovation for the delivery of the SDGs
Earth big data in support of coastal sustainable development

SDG15 (Life on Land): Sustainable use of terrestrial ecosystems
Big data and good practices in support of land degradation neutrality
Digital techniques support mountain eco-environmental researches

Integrated Evaluations and Interactions among SDGs
Digital Sustainability Session (Special Session)
Global Sustainable Development: Reliable Assessment Based on Big Earth Data
Remote sensing big data and land system science
Three Poles of the Earth: Challenges for Sustainable Development in a Fragile Environment (Special Session)
Enhancing SDGs in the Hindu Kush Himalaya (HKH) region through Advanced Big Earth Data Technologies
Earth Observation for SDGs
Digital Technology Supporting Sustainable Development in Central Asia

Others
Fourth Forum on Space Observations for Sustainable Development Session (Special Session)
Earth Observation Systems in Geology Mass Identification, Investigation and Inventory Mapping
Smart Remote Sensing and Planetary Health
Big data on population and health contributes to the achievement of sustainable development goals
Advancing analysis-readiness, accessibility, and applicability for big earth data
Big Earth Data Services for Polar Science
Scientific data on resources and environment in the "Belt and Road" region
Big SAR Data: Unleashing SAR technology for SDGs
Artificial Intelligence and Big Data in Engineering
Digital techniques support mountain eco-environmental researches

Policy and Digital Industry Promoting Regional Sustainable Development

Shaping Future Cities through Innovation and Collaboration
Reforming Research Evaluation for Improving Contributions from Science and Higher Education to the SDGs
Open Science Infrastructures Advancing Science for Achieving the SDGs in Africa
Digital industries advance sustainable development
Artificial Intelligence Methods for Advancing Deep-Sea Exploration
Data Services for the Green Development of One Belt and One Road Regions
Open Geographic Information Standards and Services
Data Infrastructure Technologies and Systems

Development of Global Partnership Facilitating the Implementation of SDGs

Innovative policy solutions for multiple crises in open science frameworks for achieving the UN SDGs

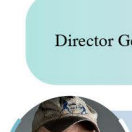
Youth Innovation: Sharing for the Future

Study on Science, Technology and Innovation for Sustainable Development Goals - Youth Action (Special Session)

Keynote Speakers



Irina BOKOVA
Co-chair of the International Science Council's Global Commission on Science Missions for Sustainability



GUO Huadong
Director General of International Research Center of Big Data for Sustainable Development Goals



Matthew HANSEN
Principal Investigator of Global Land Analysis and Discovery Laboratory of University of Maryland



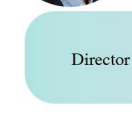
Dwikorita KARNAWATI
Director of The Indonesian Agency for Meteorology, Climatology and Geophysics



Csaba KÖRÖSI
President of 77th United Nations General Assembly



José Ramón LOPEZ-PORTELLO ROMANO
Former Member of the Group of 10 experts on the Technology Facilitation Mechanism of the United Nations



Abbas RAJABIFARD
Chair of the United Nations Global Geospatial Information Management (UN-GGIM) Academic Network



Jeffrey SACHS
Director of the Center for Sustainable Development at Columbia University

Updating >

Important Dates

Session Application Deadline	June 30, 2024
Abstract Submission Deadline	June 30, 2024
Session Acceptance Notification	July 10, 2024
Abstract Acceptance Notification	July 10, 2024
Speaker Attendance Confirmation	August 10, 2024
Online Registration Deadline	September 5, 2024
FBAS 2024 (Onsite Registration)	September 6-8, 2024

Program at-a-glance

September 6th	AM	Opening Ceremony Plenary Session
	PM	Parallel Session
September 7th	AM	Plenary Session Parallel Session
	PM	Parallel Session
September 8th	AM	Plenary Session Parallel Session
	PM	Parallel Session
		Closing Ceremony

Registration and Participation

We cordially invite professionals in the field of big data for sustainable development globally to join this forum, including those from governments, research institutions, universities, international organizations, United Nations agencies and industries. Please visit the official website (<https://www.fbas.org.cn/fbas2024/en>) for registration and the latest information of FBAS 2024.

Contact Us

Secretariat of the 4th International Forum on Big Data for Sustainable Development Goals

Contact Person: Ms. Wang, Mr. Kong

Email: fbas@cbas.ac.cn

Tel: +86-10-82178356

