The 6th International Forum on Big Data for Sustainable Development Goals (FBAS 2026)

Session Proposal Template

Session Title	Developing Indicators and Baseline Assessment for Sustainable Development of Urban Regions: Lessons from Bangkok Metropolitan Region and Eastern Economic Corridor, Thailand and Partners in CBAS Program	
Session Chair(s)	*Name*	Vilas Nitivattananon Linlin Lu
	Affiliation	Asian Institute of Technology International Research Center of Big Data for Sustainable Development Goals
	Profile (200-word limit)	Dr. Vilas Nitivattananon is a Professor at Department of Development and Sustainability, and a former Dean of School of Environment, Resources and Development, at Asian Institute of Technology (AIT), Thailand. He has academic background in engineering, economics and systems management,

		with a PhD degree from University of Pittsburgh, USA. His areas of specialization and research interest include systems approach and management, urban competitiveness and resilience, climate change and urbanization, waste recycling and management, strategic and sustainable infrastructure development, sustainable tourism, and sustainability and impact assessment. He is editorial board member of several international journals and has published more than 100 articles in international journals and conference papers and book chapters. Dr. Linlin Lu is an associate professor with the Aerospace Information Research Institute, Chinese Academy of Sciences (AIR, CAS). She obtained her Ph.D. in remote sensing from the Institute of Remote Sensing

		Applications, CAS in 2009. Her research focuses on applying advanced methods in artificial intelligence, data fusion, and time series analysis to address pressing challenges in urban environments, resilience, and sustainability. Dr. Lu has authored four books and over 150 publications in leading journals such as PNAS, Science Bulletin and Remote Sensing of Environment. She serves on the editorial boards of journals including Remote Sensing, Geomatica, and Advances in Meteorology, and contributes to key international initiatives such as the Sino-EU Panel on Land and Soil (SEPLS, 2018–2022) and co-leadership roles in the Group on Earth Observations (GEO) Human Planet Initiative and the Digital Belt and Road Program (DBAR)'s Urban Environment Working Group.

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Preferred Topics	Sustainability assessment for selected urban regions Climate risk and adaptation for coastal urbanization Application of EO technology for coastal development and urbanization Synergistic SDGs development supported by ICT innovation and stakeholder participation	
Session Description (200-word limit)	While urban regions serve as engines of economic growth and innovation, they also face complex sustainability challenges, including land-use change, environmental degradation, resource inefficiency, social inequality, and heightened vulnerability to climate-related risks, requiring integrated and multi-dimensional approaches. These sustainability challenges are especially pronounced in major urban regions and economic corridors that are closely linked to globalization and transnational development initiatives, including those within Belt and Road (BRI) regions and countries. Thailand's major urban region of Bangkok Metropolitan Region (BMR) and	

	the Eastern Economic Corridor (EEC) represent two strategically significant development areas characterized by rapid urbanization, industrial growth, and infrastructure expansion. Despite the widespread adoption of the Sustainable Development Goals (SDGs), conventional monitoring approaches often rely on nationally aggregated indicators that may not adequately capture spatial heterogeneity and localized development challenges in complex urban and regional systems. Earth Observation (EO) and space-based technologies offer significant potential to address these limitations by providing consistent, continuous, and spatially explicit information on land use, environmental conditions, urban dynamics, and natural resource systems. The objectives of this session are as follows: 1) to share progress results of developing an integrated set of regional-specific set of indicators for the BMR&EEC urban region based on EO technologies, as well as assessing the baseline condition for verifying applicable indicators per selected thematic areas for supporting specific areas/decision makers;

	and 2) to gain feedback as well as lessons learned from other regions in different countries incl. China, as well as participants attending the session.
Expected outcomes (50-word limit)	6 presentations from at least 3 countries Exchange of research findings and enhanced networking Comparative knowledge in sustainable regions and applications of EO technology

Please submit filled session proposal to fbas@cbas.ac.cn before **April 20, 2026**