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

Session Proposal Template

Session Title	**"Precision SDG Monitoring and Evaluation Using Multi-Source Big Data"**	
Session Chair(s)	*Name*	Dr. Shahina Tariq,
	Affiliation	Land Information and Management System (LIMS), Islamabad Pakistan
	Profile (200-word limit)	**Professor Dr. Shahina Tariq** has been associated with the Land Information & Management System Centre of Excellence (LIMS-CoE) since 2023. Dr. Tariq has served as Chairperson and Head of the Department of Meteorology at COMSATS University Islamabad (CUI). She has led and co-led multiple national and international research projects, particularly in northern Pakistan, in collaboration with institutions such as the University of Trieste, Italy. Her technical expertise spans remote sensing, environmental geochemistry, isotope geology, and geophysical methods for studying drought, flooding, neotectonics, and landslides. She holds a Ph.D. in Environmental Earth Sciences from the University of Peshawar, Pakistan (2001), with research focused on groundwater and soil in the Peshawar Basin. Her research interests include climate change, sustainable water resource management, rain enhancement science, and the use of remote sensing to monitor natural resources and hazards. She has organized various national and international workshops on climate change and water management and has collaborated with global partners including University of Putra Malaysia, ICCES (CAS) Beijing, and Quaid-i-Azam University. Dr. Tariq has

		supervised numerous Ph.D. and Master's students and has published extensively. Her interdisciplinary experience is a key asset in advancing the goals of LIMS-CoE Islamabad Pakistan.
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Preferred Topics		○ AI for sustainability ○ Big data in environmental monitoring ○ Smart cities and Cultural Heritage ○ Geospatial technologies, ○ Water resource management ○ Digital policy frameworks and Data Governance for SDGs
Session Description (200-word limit)		This session explores the evolving frontier of "Precision Monitoring and Evaluation using Multi-Source Big Data" for advancing the United Nations Sustainable Development Goals (SDGs). While significant global progress has been achieved in reducing extreme poverty, expanding education, and improving ICT access, persistent inequalities and data gaps continue to constrain effective SDG tracking, measurement, and evidence-based decision-making across countries. The session highlights how integrated data ecosystems—combining Earth observation, IoT sensor networks, administrative statistics, and citizen-generated data—can transform monitoring systems for SDGs 1, 2, 3, 6, 11, 13, 14, and 15, covering poverty reduction, food security, health outcomes, clean water and sanitation, sustainable cities, climate action, and the protection of terrestrial and marine ecosystems. By leveraging artificial intelligence, geospatial analytics, and advanced data fusion techniques, this approach enables high-resolution, near real-time, and scientifically robust assessment of development progress. It enhances indicator accuracy, strengthens cross-regional comparability, and improves the timeliness and reliability of reporting, shifting SDG evaluation from static reporting to dynamic, continuous, and evidence-driven systems. The session further examines how these innovations support adaptive governance, responsive policymaking, and

	strengthened global partnerships, enabling decision-makers to act on reliable insights. Ultimately, this dialogue aims to catalyze intelligent, data-driven decision systems that accelerate inclusive, resilient, and sustainable development pathways toward achieving the 2030 Agenda.
Expected outcomes (50-word limit)	Enhanced SDGs monitoring through integrated multi-source big data, improved indicator accuracy, and real-time analytics. Strengthened AI and geospatial applications for evidence-based decision-making, fostering adaptive governance, cross-sector collaboration, and policy responsiveness. Promotion of scalable, interoperable frameworks that accelerate measurable progress toward inclusive, resilient, and sustainable development under the 2030 Agenda.

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