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

Session Proposal Template

Session Title	Big Data and Artificial Intelligence Underpins the Sustainable Development of Agriculture	
Session Chair(s)	*Name*	GAO Maofang HUANG Jianxi LI Xing
	Affiliation	Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences Southwest Jiaotong University Sun Yat-sen University
	Profile (200-word limit)	GAO Maofang, professor of IARRP CAAS. Youth Chief of Agriculture Green Development Innovation Team. Secretary-General of the Agricultural and Rural Remote Sensing Branch, China Association for Remote Sensing Application. IEEE Senior Member. HUANG Jianxi, professor of Southwest Jiaotong University. LI Xing, professor of Sun Yat-sen University.

	e-mail	gaomaofang@caas.cn jxhuang@swjtu.edu.cn lixing58@mail.sysu.edu.cn
Contact Person	*Name*	GAO Maofang
	e-mail	gaomaofang@caas.cn
Preferred Topics	(1) Remote Sensing Big Data Intelligent Perception and Precision Monitoring of Agricultural and Rural Ecological Resources (2) AI-Driven Crop Growth Simulation, Yield Prediction and Whole-Process Precision Agricultural Management (3) Big Data and Artificial Intelligence for Agricultural Carbon Sink Accounting and Green Low-Carbon Development (4) Intelligent Identification and Early Warning of Agricultural Natural Disasters and Pest Risks Based on Multi-Source Spatiotemporal Big Data (5) Digital Rural Construction and Modern Agricultural Industrial Chain Optimization Empowered by Big Data and AI Technology	

Session Description (200-word limit)	Big data and artificial intelligence have emerged as core foundational technologies that strongly underpin the high-quality and sustainable development of modern agriculture. Facing growing challenges such as tightening cultivated land resources, frequent agricultural natural disasters, declining soil fertility, and rising food security pressure, traditional extensive agricultural production and management modes can no longer meet the requirements of efficient production, ecological protection, and green low-carbon development. This session focuses on exploring innovative application paths and practical industrial models of big data and AI in agricultural resource management, crop growth monitoring, disaster risk prevention and control, and rural ecological governance, aiming to provide solid technical support and intelligent decision-making guarantees for accelerating agricultural modernization and long-term sustainable agricultural development.
Expected outcomes (50-word limit)	Share latest research findings, exchange practical technological experiences, and build academic cooperation to advance intelligent and sustainable agricultural development globally.

Please submit filled session proposal to fbas@cbas.ac.cn before **April 30, 2026**