

INNOVATING AGRIFOOD SHARING FUTURE

WAFI2024 **Outcome Report**

**Climate Change and Agrifood Systems
Transformation**



*October 10-12, 2024
Beijing Jinhai Lake International
Convention & Exhibition Center*



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About WAFI

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About WAFI

The World AgriFood Innovation (WAFI) Forum is a global platform dedicated to "Innovating Agrifood, Sharing Future". Recognized as one of the top three global agricultural and food events, it has gained widespread recognition from industry leaders worldwide.

2

WAFI Orientation

WAFI is a global platform fostering dialogues and breakthroughs in agrifood systems innovations.

3

WAFI Vision

Fostering Cross-Sector Collaboration for Agrifood Systems Transformation:
Co-Creating Resilient, Inclusive & Sustainable Agrifood Futures.

4

WAFI Features

WAFI focuses on systems innovation through its unique industry-academia-policy nexus. WAFI drives sustainable agrifood transformation with global insights and emerging economy solutions, while fostering future-oriented approaches to enhance global food supply resilience.

5

WAFI Mission & Values



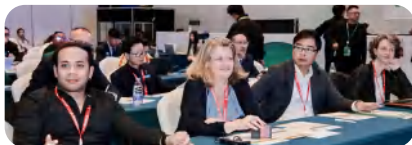
Innovation

WAFI gathers the latest global agricultural advancements, integrating cutting-edge technologies and innovative institutions and business models to drive agrifood system transformation. Innovation is key to a sustainable agricultural and food future.



Inclusivity and Joint Progress

WAFI embraces diverse voices and perspectives, fostering an inclusive and equitable agricultural and food future through stakeholder engagements and collaboration.



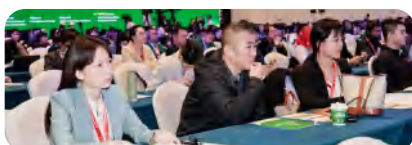
Cross-sector Collaboration

WAFI believes in the power of cross-sector partnerships, uniting governments, businesses, academia, communities and citizens to build resilient and sustainable agrifood systems.



Community Building and Prosperity

WAFI cultivate a global agrifood community, working together to achieve shared growth, innovation, and sustainability.



Resilience and Impact

WAFI accelerates the application of agrifood innovations, enhancing ecosystem resilience and creating positive global impacts.

WAFI2024

1 About WAFI2024

- The 2nd World AgriFood Innovation Forum (WAFI2024), hosted by the People's Government of Pinggu District Government (Beijing), China Agricultural University, the Beijing Municipal Bureau of Agriculture and Rural Affairs, and the Chinese Academy of Agricultural Sciences, was successfully held from October 10 to 12, 2024, in Pinggu, Beijing. With the theme "Climate Change and Agrifood Systems Transformation," the forum attracted renowned scientists, university presidents, educators, entrepreneurs, and youth representatives from 76 countries and regions, alongside government officials, international organizations, and investment institutions.
- The event facilitated in-depth discussions on cutting-edge agrifood innovations, strengthened industry-academia-research collaboration, and promoted the transformation of scientific achievements into practical applications.



2 WAFI2024 Forum



Opening Ceremony
& Main Forums

Thematic Forums

World Agri-Tech Expo

Parallel Sessions

WAFI2024

3 WAFI2024 Highlights

Key Outcomes and Contributions

- Major agreements, research findings, and reports were released, including the "2024 Pinggu Consensus," FAO's Agricultural Innovation Report, CGIAR's Future Agriculture Report, AGRA's Innovation Report, and the 2024 Global Food Policy Report.
- Over 100 cutting-edge research achievements and technologies in areas like smart breeding, food science, and precision agriculture were showcased.
- The forum deepened China's collaboration with global agricultural research institutions, such as the China-Wageningen Center's partnership with eight universities and international organizations.
- High-quality project memorandums signed during the expo laid a solid foundation for future agricultural innovation.

International Communication and Media Focus

- The WAFI Expo attracted 15,000 visitors, with global companies like Bayer and Syngenta actively promoting the event on social media.
- Over 200 journalists from 100+ media outlets provided comprehensive coverage, reaching an online audience of 160 million.
- Live broadcasts by CCTV, Guangming Daily, Beijing TV, and Xinhua News Agency further amplified the forum's visibility.

Global Participation and High-Level International Engagement

- Over 5,000 on-site participants from 76 countries and regions attended, with online viewership exceeding 160 million, showcasing its global influence.
- Representatives from nearly 30 international organizations, including FAO, WFP, and IFAD, participated, elevating the forum's international stature.
- High-level delegations from Egypt, Brazil, and other countries, including governors and ministers, reinforced the forum's role as a vital platform for international exchange.
- Top scientists from CGIAR and its affiliated institutions enriched the scientific discourse.

Sustainability and Green Initiatives

- The forum adhered to the "5R" principles (Reduce, Reuse, Recycle, Rot, Refuse) to minimize its environmental footprint.
- Renewable materials were widely used, paper consumption was reduced, single-use plastics were banned, and plant-based foods and local ingredients were promoted.
- Activities like the WAFI RUN and WAFI Market encouraged sustainable practices, while the forum earned BSI's Low-Carbon Certification, highlighting its commitment to sustainability.

Science and Innovation

- CGIAR and China explored potential collaborations, particularly in innovative strategies for agri-food supply chains under climate change.
- The UN Food Systems Hub co-organized side events, including a Global Youth Forum, fostering innovation and dialogue among young leaders.
- Nearly 20 cooperation agreements were signed, such as the joint industry innovation research institute between Dong-E-E-Jiao and China Agricultural University.
- The "International Agricultural Startup Zone" showcased cutting-edge projects, and the inaugural "WAFI Innovation Award" recognized 33 outstanding initiatives aligned with the forum's theme.

WAFI Speakers



SUN Qixin — President of China Agricultural University, Co-Chair of WAFI Advisory Committee

"The success of WAFI2024 will have a profound impact on the development of CAU, Beijing, China, and the world. Having earned widespread recognition within the industry, WAFI has firmly established itself as one of the three major global agricultural events."



Kenneth Quinn — President Emeritus of The World Food Prize Foundation, Co-Chair of WAFI Advisory Committee

"We gave birth to WAFI last year. It's bigger and stronger this year because we have so many distinguished women joining us. I believe WAFI is going to be even better next year. To close WAFI2024, I want to paraphrase my dear friend, Professor Yuan Longping, who said 'One Seed Can Change The World,' here I suggest 'One Innovation Can Change The World.' "



FAN Shenggen — Dean of the Academy of Global Food Economics and Policy at China Agricultural University , CGIAR System Board Member, Vice-Chair of WAFI Advisory Committee

"I am very proud to say that the WAFI Forum has emerged as one of the most significant events in the global agricultural sector. Achieving such a high level of recognition and influence in just a few years is no small accomplishment. WAFI has not only facilitated meaningful discussions on critical global challenges but has also driven impactful solutions, reinforcing its role as a key platform for shaping the future of agrifood systems worldwide."



Ismahane Elouafi — Executive Managing Director of CGIAR, Member of WAFI Advisory Committee

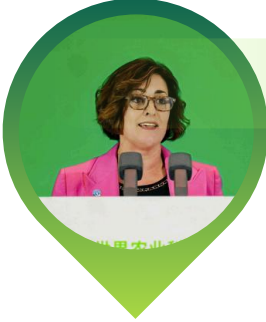
"I left Beijing inspired by the incredible people I met at the WAFI 2024. Grateful for the opportunity to discuss our partnership with China as we work towards growing and becoming stronger together. It was especially exciting to see so many young people at the forum."



David Nabarro — Strategic Director of 4SD Foundation, Special Adviser on Sustainable Development and Climate Change, The World Food Prize 2018 Laureate

"WAFI Way is not flinching from difficult issues. It's about innovating in the face of massive challenges, innovating with technology, innovating with new ways of working, and innovating on how we actually be, how we are in our heads, hearts, and in our souls. WAFI Way is about peace and prosperity and that's what matters in our world. That what I got from WAFI. "

WAFI Speakers



Beth Bechdol — Deputy Director General of FAO

WAFI2024 is global event, with countless people from all over the world participating both on-site and online. I am truly amazed by the widespread attention the conference has received. During the forum, China put forward a practical and meaningful proposal that not only showcased its image as a responsible major power but also set a positive example for other countries.



Shakuntala Haraksingh Thilsted — Director of Nutrition, Health and Food Security Impact Area Platform of CGIAR, The World Food Prize 2021 Laureate, Member of WAFI Advisory Committee

"WAFI is a dynamic platform where scholars from around the world come together to engage in exchange and collaboration, harness collective wisdom, and explore cutting-edge topics in agriculture. It aims to promote the transformation and upgrading of global food systems."



Patrick Caron — Vice Chair of CGIAR System Board, Member of WAFI Advisory Committee

"WAFI is truly a unique place for organizing and implementing such a transformation. It helps us to understand each other, from one culture to another, from one discipline to another, and from one stakeholder to another. What we most need is spaces like WAFI that facilitate dialogue, promote understanding, and encourage us to acknowledge our differences while finding common ground to move forward together. I was very happy to participate in WAFI, and I sincerely hope that WAFI will continue next year and for many years to come. "



Jimmy Smith — Director International Programs of Agriculture and Natural Resources at University of Maryland

"I am very pleased to be here to deliberate with you at WAFI. I believe that there is strategic advantage that WAFI serves and presents us with an opportunity. It brings upstream science and blue sky deliberations of universities, to the deliberation of research and development organizations. I look forward to future WAFI and I promise that my institution will be more involved in the future."

04

WAFI2024 IN Numbers

42

Sessions

521

Speakers

76

Countries & Regions

116

Government Officials

5000

Delegates

72

Collaboration Partners

101

Financial Institutions & Investors

44.7%

Private Sector Agencies

60

International Agencies

106

Youth

37.8%

Women Participants

100+

Journalist

110+

Exhibitors

160

million

Potential Media Reach

15+

K

Visitors



Staff & Volunteers

05 Outcomes

1 WAFI2024 Pinggu Consensus



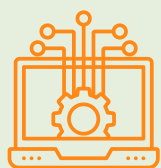
1.Challenges of Climate Change and Agri-Food Systems

Recognizing that climate change poses one of the greatest threats to the global economy, food and nutrition security, livelihoods and even the survival of humanity. Agriculture and food systems are particularly vulnerable. Research shows that for each 1°C rise in global temperature, global yields of wheat, rice, maize, and soybean could decrease by 6.0%, 3.2%, 7.4%, and 3.1% respectively. However, the impact of extreme weather events—such as droughts, floods, heatwaves, cold waves, cyclones, and hurricanes—will likely be far greater than the effects of temperature increases alone. While agriculture and food systems are victims of climate change, they also provide critical, irreplaceable solutions, as the food system is responsible for 21-37% of total global greenhouse gas emissions.



2.Conservation of Biodiversity and Natural Resources

Recognizing that the loss of biodiversity and natural resources is another critical threat to humanity's survival, food and nutrition security, livelihoods, and the health of the planet. Current agricultural and food systems are significant contributors to this decline. However, they can also be part of the solution by transforming these systems. Sustainable and regenerative agrifood systems focus on protecting natural resources and wildlife. They are important for stopping the worldwide loss of biodiversity and helping to restore it.



3.Technological Innovation and Agri-Food System Transformation

Acknowledging that innovations in science and technology, policies, institutions, and business practices are critical to transforming agrifood systems, reducing carbon emissions, and ensuring global food and nutrition security for all. Increasing investment in agrifood systems research and development and setting clear priorities are essential steps. Various agencies of the United Nations, CGIAR, agricultural universities, research institutions, and agrifood businesses must commit to actions that promote healthy diets, improve environmental sustainability, and reduce carbon emissions — key components of agrifood systems transformation. In particular, CGIAR's new research portfolio (2025-2030) should prioritize building strong partnerships with developing countries, including China, to realign agrifood systems toward supporting both human and planetary health. Major countries such as China, Brazil, India, Indonesia, and those across Africa must engage in CGIAR research programs. Partnerships should include national research institutes, universities, the agribusiness sector, and organizations representing women, youth, and farmers.



4.Private Sector's Role and Responsibility

It was reaffirmed that entrepreneurs and the private sector must continue driving the transformation of agrifood systems. Conference participants once again called on the private sector to incorporate food security, nutrition and health, economic inclusion, empowerment, and low-carbon sustainability into their strategies and business practices. The private sector is encouraged to actively take on social responsibility, especially in improving nutrition and reducing carbon emissions, and to share their innovations as public goods. Additionally, the private sector is urged to support government policies aimed at promoting healthier diets for the population.

05 Outcomes

1 WAFI2024 Pinggu Consensus



5. Youth Engagement and Contribution

It was reaffirmed that youth are our future, and their participation is essential for transforming agrifood systems. Building on the success of WAFI 2023, conference participants encouraged the WAFI Youth Forum to continue as a key platform for fostering communication and collaboration among young people, especially from developing countries. The forum provides opportunities for them to express their views, engage in high-level discussions, and take action to overcome barriers that prevent their full involvement in agrifood systems. These barriers include limited education and training, and restricted access to important resources like land, technology, and funding. One of the main goals of the WAFI Youth Forum is to inspire young girls to pursue careers in science and technology, encouraging them to study at the university and graduate levels and build careers in agricultural science and food technology.



6. Women's Contributions to Agri-Food System Transformation

Women play an essential and irreplaceable role in the transformation of agrifood systems. They are not only crop growers and livestock keepers, but also processors, traders, and food preparers. Conference participants called for more women to be involved in discussions about agrifood systems to ensure they are empowered and can benefit from these changes. The conference suggested creating a network or platform that includes women from small farms, food traders and processors, businesses, and research organizations. This would promote collaboration and support women's vital contributions to agrifood system transformation.



7. Improvement of Animal-Based Food Consumption and Production Practices

Considering reducing animal source food consumption or exploring alternatives in contexts where ASF intake exceeds recommended levels, alongside improving production practices. At the same time, ensuring access to sustainably produced animal source food for those at high risk of undernutrition is imperative. While trade-offs may arise, these transitions are essential for advancing both nutrition and environmental sustainability, ensuring no one is left behind.



8. The Leadership of the Government

Calling for action by governments: Governments must take the lead and commit to scaling up innovations for sustainable food systems. Strong leadership is vital for promoting the adoption of best practices across agricultural value chains, ensuring long-term food security and environmental sustainability.



9. Continuation of WAFI

WAFI will continue to be held annually in Pinggu at a similar time to maintain momentum, contributing to agrifood systems transformation at the local, regional, and global levels.

05 Outcomes

2 Outlooks of Strategic Innovations

	PUBLISHER	TOPIC
	Beth Bechdol Deputy Director-General of the Food and Agriculture Organization of the United Nations (FAO)	Food and Agriculture Organization of the United Nations: Agricultural Innovation Report
	Ismahane Elouafi CGIAR Executive Managing Director	CGIAR: Outlook of Food Systems Innovations and Partnership
	Jean Jacques Mbonigaba Muhinda Regional Head, Alliance for a Green Revolution in Africa (AGRA)	AGRA: Innovations for Transforming Smallholder Agriculture in Africa
	SUN Dixin President of China Agricultural University, Academician of Chinese Academy of Engineering	The National Agricultural Science and Technology Innovation Hub: Collaborating to Shape the Future of Agriculture Through the Integration of Science, Education, and Industry
	CHENG Jie Dong'e Ejiao Co., Ltd. Presid	Dong-E-E-Jiao Group - China Agricultural University: Announcement of the International Innovation Platform for Traditional Chinese Medicine Industry Chain
	YU Minhong President of New Oriental Education & Technology Group Inc	Live Broadcast of Agricultural Products Promote Rural Revitalization
	FAN Shenggen Dean of the Academy of Global Food Economics and Policy (AGFEP) at China Agricultural University (CAU), CGIAR System Board Member	2024 China and Global Food Policy Report

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Session	Publisher	Topic
Main Forums	SUN Qixin President of China Agricultural University Academician of the Chinese Academy of Engineering	The Mission of Universities Under Climate Change: Responsibilities and Actions to Promote the Transformation of Agricultural and Food Systems
World Agricultural University Presidents' Forum	Arthur Mol Former President, Wageningen University & Research	Green Life Sciences Universities: What are the frontiers?
	CHEN Fadi President, Nanjing Agricultural University	Thoughts and Practices on Promoting the Reform of Integrating Education, Science and Technology Talents
	Lynn Li Senior Vice President, ELSEVIER & President, Greater China	Report on the Development of Global University Research Contributions in the Field of Agriculture
Innovation and Investment Summit — Climate Change and Future Investment Opportunities for AgriFood	Aalt Dijkhuizen Former President, Wageningen University & Research	New Knowledge and Technology to Increase and Improve Future Food Production
	HUANG Dejun Chairman of AGPE Fund Investment Management Co. Ltd.	AgriFood Technology Investment Trends
	Jelte A. Wingender CEO & Co-founder of Founders Lair	Global Agritech Startups Top 50 - How Corporates and Governments Play a Pivotal Role in Fostering Cross-Border Innovation
	MAD Changqing Director of Innovation and Entrepreneurship Research Center, CAU	Investment Opportunities in the AgriFood Industry Transformation
	James Sharp Deputy Director of the Agricultural Technology Investment Department of the UK Department for Business and Trade	Invest in UK Agri-Tech: Innovate, Prove, Sell
	Release of the "Industry Map of China Digital AgriFood"	
Innovation and Investment Summit — AI Empowers the Transformation of AgriFood Systems	Aidan Connolly President, Agritech Capital, President of IFAMA	How is AI Reinventing Food & Farming - An Investor Perspective
	LIU Dan Chief Expert of Digital Government in the Public Business Corps of Huawei	AI Accelerates the Intelligent Breeding of Agriculture
	QIN Jun Board Secretary and Chief Strategy Officer of Muyuan Foods Co., Ltd.	AI Applications in the Livestock Industry - Case of Muyuan
	Cynthia Zhu Founder of Agri-AI / Strategic Advisor, The Netherlands	Application Cases of AI in Agricultural Enterprises and the Current Status of AI Application in the Netherlands
	SUN Longqing Researcher at the College of Information and Electrical Engineering, China Agricultural University	Promote the High-quality Development of Fishery Industry with Digital Technology
	ZHANG Wenbo Senior Vice President, Beijing Smart Yunzhou Technologies Co., Ltd.	Video Digital Twin - Computing Integration Empowering Smart Breeding

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Session	Publisher	Topic
China-Brazil Agricultural Trade Cooperation and Green Development Forum	LIU Dongming Director, Commerce Bureau of Pinggu District, Beijing	Leverage The Advantages of Pinggu's Agricultural Technology Innovation to Deepen China-Brazil Agricultural Cooperation
International Symposium on Smart Agriculture	ZHAO Chunjiang Academician of the Chinese Academy of Engineering, Director, Chief Scientist of the National Engineering Research Center for Information Technology in Agriculture	AI and Smart Agriculture
	LAN Yubin Academician of the European Academy of Sciences, Arts and Humanities, Foreign Academician of The National Academy of Natural Sciences of Russia; Foreign Academician of The National Academy of Sciences of Georgia, Director and Chief Scientist of The International Joint Research Center for Precision Agriculture Aerial Pesticide Application Technology	Application of Precision Agriculture Aviation Technology in Low-altitude Economy
	HE Xiongkui Professor, Dean of the Agricultural Unmanned Aerial Vehicle System Research Institute at China Agricultural University, Scientist In The Pear Tree Management Machinery of The National Industrial Technology System	Practice of Digital Intelligent Unmanned Farm: A Case Study of Shandong Qihe Ultra-high-yield Digital Intelligent Farm
	ZHANG Man Dean and Professor of the School of Information and Electrical Engineering at China Agricultural University	Progress of Field-based Information Acquisition Techniques of High-throughput Phenotyping
	Ahmed Faris Emam Ahmed Elshafte Yellow River Delta Intelligent Agricultural Machinery Equipment Industry Academy (YRDIA) Egypt National Research Centre	Precision Irrigation Management Using Modeling and Smart Irrigation
	Afshin Azizi Ph.D of University of Mohaghegh Ardabili, Iran	Apple Detection Using Vision-based Techniques: Challenges and Future Perspectives
	LI Nan Founder and CEO of Maimai Technology Group (Beijing Maimai Agriculture Joy Technology Co., Ltd.)	Dual Empowerment of Technology and Marketing —Exploration and Practice of A New Model In Smart Agriculture
	QIAN Shuting Manager for Public Affairs of the XAG	Technological Innovation and Sustainable Development of Smart Agriculture
	WANG Lin Director of the Industry Work Department of China Yituo Group Co., Ltd. Secretary-general of the National Key Laboratory of Intelligent Agricultural Power Equipment	Preliminary Study and Prospect of Key Technologies of Intelligent Agricultural Tractors

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Session	Publisher	Topic
Resilience and Upgrading of the Agrifood Supply Chain	Dominique van der Mensbrugghe Director of the Center for Global Trade Analysis (GTAP), Purdue University, America	Future of Agri-food Systems: Business-as-usual vs. Sustainability
	HUANG Jikun Professor, Peking University; Academician, Academy of Sciences for the Developing World; Dean, Institute for New Rural Development; Honorary Director, China Center for Agricultural Policy, Peking University	Food Security and High-Value Agriculture: the Current Efforts and the Way Forward
	XU Shiwei Professor, Information Institute, Chinese Academy of Agricultural Sciences; Secretary-General, Market Warning Expert Committee, Ministry of Agriculture and Rural Affairs; Executive Chairman, China Agricultural Outlook Conference	Digital Technology Leading the Staple Grain Industry Toward a Resilient Future
	ZHU Jing Zhongshan Chief Professor, Nanjing Agricultural University; Distinguished Professor, Ministry of Education	Import Diversification and China's Food Security
	HAN Jingbo Director, Price Cost and Certification Center, National Development and Reform Commission	Research on Enhancing the Income Security Mechanism for Grain Farmers
	LI Chunding Professor, China Agricultural University; Director, Institute of International Economics, China Agricultural University	New-Quality Productive Forces and China's Path to Agricultural Strength
Alternative Proteins and Agrifood Systems Transformation	CHEN Junshi Member of the Chinese Academy of Engineering; Chief Adviser of China National Centre for Food Safety Risk Assessment	Perspectives on the Development of Alternative Proteins in China
	David Nabarro Former Special Representative of the United Nations Secretary-General on Food and Nutrition, 2019 World Food Prize Laureate	Challenges with Enabling All People to Access Necessary Sources of Protein
	Bruce Friedrich Founder and President of the Good Food Institute (GFI)	Plant-Based and Cultivated Meat Are the New Clean Energy
Forum on Women in Agrifood (FoWA)	Nicoline de Haan Director, CGIAR GENDER Impact Platform	Transforming agrifood systems through women-led innovation
	CHEN Rui'ai Chief Operating Officer, Wens Foodstuff Group CO., LTD	The Role of Women in Agribusiness Development
	Matin Daim President, International Association of Agricultural Economists (IAAE); Director, Center for Development Research (ZEF), University of Bonn	Women's roles in agrifood systems transformation Martin Daim

05 Outcomes

3 Reports

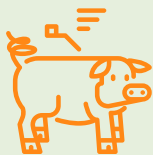
Session	Publisher	Topic
Institutional Innovations for Transforming Agrifood Systems	ZHANG Hongbin Associate Professor, Rural Energy and Environment Agency, MARA	China' s Policy for Low-Emission Agricultural Practices
	Conrad Rein Director of Policy Outreach, Innovation Commission, Development Innovation Lab (DIL) the University of Chicago	Transforming Agrifood Systems through Scaling Innovations under the UNCCD COP16 Flagship Initiative
	LI Yu' e Professor, Institute of Environment and Sustainable Development in Agriculture Chinese Academy of Agricultural Sciences	The Impact of New Agricultural Management and Service Entities on Advancing Low-Emission Agriculture Development
	Ousmane Badiane Executive Chairperson of AKADEMIYA2063	Institutional Innovations for Transforming Agri-food Systems: Lessons from the Comprehensive Africa Agriculture Programme
	SONG Yuan Founder of Nature Farming Doctor' s Farm, Founder of Vimao Corps	Integrating Production, Education, and Research in Agricultural Organization Models to Drive Agrifood System Transformation: A Case Study of Doctor' s Farm
Seminar on Agricultural Intellectual Property Judicial Protection	ZHAO Chunjiang Academician of the Chinese Engineering Academy, chief scientist of Agricultural Information Technology Research Center, Beijing Academy of Agriculture and Forestry Sciences	Agricultural Chassis Technology - Sensors
	YANG Dong Director of the Personnel Department, Dean, professor and doctor supervisor of the Institute of Cross Science, Renmin University of China	Innovation, Development and Protection of Intellectual Property Right of Digital Agricultural Data
	ZHANG Yi Deputy Director of the Chinese Academy of Agricultural Sciences	Intellectual Property Protection and Commercialization of Agricultural Innovation Achievements
	LEI Yanzhen Judge of the Intellectual Property Court of the Supreme Court	Judicial Protection of New Plant Variety Right
	YANG Dongxia Director of the Rule of Law Research Center of the Ministry of Agriculture and Rural Affairs	Strengthening the Protection of Intellectual Property Rights to Promote The Innovation and Development of The Seed Industry
	CHEN Wei Vice director of the civil Court of Zhejiang High Court	Zhejiang Practical Experience on Judicial Protection of Geographical Indication Trademarks
	LUO Jiao Associate Professor of China Agricultural University	International Experience and Reference of Geographical Indication Legislation

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Session	Publisher	Topic
International AI-driven Breeding Summit	GAD Caixia Principal Investigator of the Institute of Genetics and Developmental Biology of the Chinese Academy of Sciences	Precision Genome Editing for Future Agriculture
	Elena Rice Chief Scientific Officer, GENUS Group	Development of Gene-edited PRR5-resistant pigs
	Martien A.M. Groenen Professor, Wageningen University	Molecular Breeding: Improving Genomic Prediction by Closing The Genome-to-Phenome Gap
	Riccardo Negrini Director, Italian Animal Husbandry Association (AIA) Big Data PlatformNext-Generation Crop Technologies for Sustainable Agriculture	Exploiting Big-data and Phenotypes for Animal Source Food
	Renata Bolognesi Global Corn Strategy and Portfolio Lead, Bayer Crop Science	Next-Generation Crop Technologies for Sustainable Agriculture
Facility Agriculture Summit	LU Weihong Speech by Agriculture and Rural Bureau of Pinggu District	Development Status of Facility Agriculture in Pinggu District
	ZOU Xuexiao Academician of Chinese Academy of Engineering, Deputy Secretary of the Party Committee and President of Hunan Agricultural University	Research on Development and Production Technology of Facility Vegetable Industry
	DING Xiaoming Director of Facilities Institute, Planning and Design Institute, Ministry of Agriculture and Rural Areas	Development Status of Facility Agriculture in China
	Maruo Toru Vice President of the Japan Plant Factory Association and Professor, Chiba University, Japan	Latest Developments in High-Efficiency Energy-Saving Plant Factories in Japan
	ZHANG Yuefeng CEO of Beijing Huannong Agricultural Engineering Technology Co., LTD., and researcher of Planning and Design Research Institute of Ministry of Agriculture and Rural Affairs	Core Empowerment, Information Helps the Development of Facility Agriculture
	ZHENG Wengang CEO of Nongxin Technology (Beijing) Co., LTD	Core Empowerment, Information Helps the Development of Facility Agriculture Facility Agriculture
	YU Dichao Executive Deputy general manager of Shenzhen Pagoda Fruit Industry Co., LTD	Seed Industry Chip -- Establishment and Prospect of Pagoda Global Fruit New Variety R&D Testing Center
	Alexey Vladimirovich SitnikovPresident of the Russian Greenhouse Association	Current Status and Development Trends of Facility Agriculture in Russia
	Llacolén Lefever Agricultural Counselor, Embassy of Chile in China	Current Status and Development Trends of Facility Agriculture in Chile

05 Outcomes

4 Research Achievements



Gene-Edited Blue Ear Disease Resistant Pigs

At the 2024 World AgriFood Innovation Forum, Beijing Capital Agribusiness & Food Group announced its research achievement in "Gene-Edited Blue Ear Disease Resistant Pigs." This research, supported by a national bio-breeding project, lays a solid foundation for the industrial development of blue ear disease-resistant pigs.

Blue Ear Disease (also known as Porcine Reproductive and Respiratory Syndrome, PRRS) is caused by the PRRS virus. It is a major animal infectious disease that impacts the global pig farming industry, with high infection rates and piglet mortality. In China, it is classified as a Class II animal disease. The pig farming industry typically uses measures like biosecurity management, vaccination, and targeted culling, but these methods cannot achieve long-term control of the disease.

Research shows that the PRRS virus primarily attacks the macrophages in pig lungs, and the CD163 protein on the surface of these cells is the key receptor for the virus to enter. Researchers at Beijing Capital Agribusiness & Food Group, used DNA-free gene editing and efficient somatic cell cloning techniques to precisely delete the virus binding site on the CD163 receptor. This led to the development of a new breed of pigs with 100% resistance to blue ear disease, demonstrating excellent production performance. Currently, they are conducting safety evaluation tests and expect to complete all evaluations by the end of 2025, which will make them eligible to apply for safety certification.

The gene-edited blue ear disease-resistant pigs have several advantages. Not only are they completely resistant to all major blue ear virus strains, but their resistance is also 100% inheritable, ensuring complete disease elimination in the population. This makes them an effective, safe, and eco-friendly solution for controlling blue ear disease in pigs.

Based on assessments, once the gene-edited pigs are widely used, China's pig farms could achieve blue ear disease control within about 10 years. According to the economic benefits analysis report, by reducing infection losses, cutting prevention costs, and improving production performance, the full adoption of these pigs could bring substantial economic benefits to China's pig farming industry. Additionally, this technology will play a significant role in reducing antibiotic use and cutting carbon emissions, also contributing to environmental protection.



Research on Gut Keystone Functional Microbial Groups

On October 8, ZHAO Leping, distinguished professor at Rutgers University and an academican at the American Academy of Microbiology, with his team and international collaborators, published a groundbreaking study in the top scientific journal Cell. For the first time, the team identified two groups of core microbial communities in the human gut that play a key role in maintaining human health: the Keystone Functional Group and the Pathogenic Functional Group. This major finding is expected to become a new standard for assessing gut health and to promote the development of personalized microbiome testing technologies, providing powerful tools for clinical disease prevention and public health management.

Through precision nutrition, agricultural production and processing methods can be adjusted to better support human gut health. At the same time, the food industry can use the findings from this research to develop foods with prebiotic functions and dietary fibers, which will help drive a healthy transformation across the entire food production chain.

05 Outcomes

4 Research Achievements



Intelligent Monorail Tug Robot

Oboya, in collaboration with a Dutch company, has developed the Intelligent Monorail Tug Robot. This innovation solves the problem of smart harvesting in banana plantations, effectively addressing the gap between overseas market demand and production supply. It represents an innovative model of cross-border cooperation, offering new ideas and technical support for the intelligent and automated transformation of agricultural production. In a time when the global supply chain is facing significant challenges, this cross-border R&D collaboration model is especially valuable.



New High-Quality and Strong Gluten Wheat Variety "CAU 753"

Variety Features:

- The new wheat variety "CAU 753", developed by China Agricultural University, is a high-yield, high-quality wheat with strong resilience to adverse conditions.

Promotion Value:

- The widespread planting of this variety will help increase both the yield and quality of wheat in China, enhancing the country's competitiveness in the international wheat market.
- It will also contribute to national food security and provide strong support for farmers' income growth.



Precise Delivery Technology for Food Functional Factors and Achievements in Health Food Industrialization

Experts from China Agricultural University introduced the latest achievements of precise delivery technology for food functional factors and the industrialization of health food. This technology improves the absorption and utilization of functional factors in the human body, providing technical support for developing more efficient and safe health foods, thus promoting the growth of the health food industry.



Research and Application Results of Precision Fertilizer Recommendation System for 20 Crops

China Agricultural University presented the research and application results of a precision soil testing and fertilizer recommendation system for 20 crops. By accurately testing and analyzing soil nutrients, this system provides personalized fertilizer plans for different crops, improving fertilizer efficiency, reducing environmental pollution, and promoting sustainable agricultural development.



Research on Plant Immunity Activating Proteins

The research from China Agricultural University highlighted the important role of plant immunity activating proteins in enhancing plant immunity and improving resistance to pests and diseases. This provides a theoretical foundation and technical support for the development of new biological pesticides, reducing the use of chemical pesticides, and ensuring safe crop production while protecting the ecological environment.

05 Outcomes

5 Signing Ceremony



I. Industry and Technological Innovation Cooperation

1. Dong-E-E-Jiao and China Agricultural University Joint Industry Innovation Research Institute:

Dong-E-E-Jiao and China Agricultural University have reached an agreement to invest 230 million RMB to build a Joint Industry Innovation Research Institute. The institute will be located at International Agricultural Science and Technology Innovation Port and will be the first social investment project there.

2. Co-build the Beijing (Pinggu) Agricultural Microbiology International Innovation Research Institute

Beijing Academy of Agriculture and Forestry Sciences, BGI Genomics, and the Beijing Pinggu National Agricultural Science and Technology Zone Management Committee have signed an agreement to co-build the Beijing (Pinggu) Agricultural Microbiology International Innovation Research Institute. The goal is to promote technological innovation in the field of agricultural microbiology.

3. Science Davos Pinggu Zone Cooperates with Multiple Tech Companies

Science Davos Pinggu Zone has reached cooperation intentions with companies such as Plug and Play China, HealthSyn, Greenbo Light Carbon, Wehe Hexagon, YaoSynBio, and Chuhe Biotech. In the future, more projects will be launched in Pinggu to jointly promote technological innovation and results transformation.



II. Government and Business/Institution Cooperation

1. Pinggu District Government and Yangling Agricultural High-Tech Demonstration Zone Cooperation

The Pinggu District Government and the Yangling Agricultural High-Tech Industry Demonstration Zone Management Committee have signed a strategic cooperation agreement. Following further discussions, they reached an agreement to establish a cooperative training and exchange base between the Shanghai Cooperation Organization Agricultural Base and the AgriFood "Davos" Academy.

2. Strategic Cooperation in the Pig Industry Cluster

Representatives of the pig industry cluster signed several strategic agreements, including partnerships between government, industry, and academia; bank guarantee agreements; insurance and futures contracts; and collaboration agreements among upstream and downstream enterprises within the pig industry chain. These agreements, involving financial institutions, aim to address financing challenges faced by the industry cluster through guarantee credits and other financial mechanisms.

3. Science Davos Pinggu Zone and Plug and Play China Strategic Agreement

Science Davos Pinggu Zone has signed a strategic cooperation agreement with Plug and Play China to jointly promote technological innovation and industrial upgrading.

4. Beijing Pinggu District and Innovative Enterprises Strategic Cooperation

A strategic cooperation signing ceremony was held between Beijing Pinggu District and innovative enterprises, aimed at fostering the establishment and growth of innovation-driven companies in Pinggu District.



III. Technology Achievements Transformation Cooperation

China Agricultural University Technology Results Transformation Projects

- China Agricultural University and Beijing Zhongnong Aladdin Biotechnology have signed a cooperation agreement for technology transformation.
- China Agricultural University and Beijing Green AgroSino have signed a cooperation agreement for technology results transformation.
- China Agricultural University and Sinochem have signed a cooperation agreement for technology results transformation.

05 Outcomes

6 Commencement

Beijing Alternative Protein Food Industry Alliance

- During the “New Protein Industry and Agri-Food System Transformation” parallel session, the Beijing Alternative Protein Food Industry Alliance was officially established. This marks a significant step forward for Beijing in the field of alternative protein food.
- The alternative protein industry is key to building a diversified food supply system, offering advantages in resources, environment, and nutrition. It aligns with global trends and is basic to the future food supply chain. Beijing, leveraging its strengths in the green economy and technological innovation, has established this alternative protein food industry alliance. Led by Beijing Technology and Business University and joined by 14 institutions, including research organizations and enterprises, the alliance is coordinated by DeePro Technology as the secretariat.
- The alliance covers all segments of the alternative protein industry chain and aims to create a platform for collaboration, drive technological innovation, overcome industry barriers, and seek policy and technical integration. It will organize exhibitions, talent training, and information-sharing platforms to promote industry chain collaboration, strengthen partnerships among researchers, universities, enterprises, and governments, enhance product quality, participate in setting industry standards, foster internationalization of the industry, and ensure food security.

Beijing-Tianjin-Hebei Pig Industry Chain and Cluster

- The Beijing-Tianjin-Hebei Pig Industry Cluster was established on October 12, 2024, as part of the 2024 World AgriFood Innovation Forum. The launch event was held at the Jinhai Lake International Convention Center in Pinggu, Beijing.
- Its goals include leveraging the capital's advantages in the pig industry to encourage spatial aggregation, innovation in resources, industry collaboration, and resource sharing across upstream and downstream enterprises. It aims to enhance the quality and efficiency of the pig innovation, industry, and supply chains. The cluster will adopt a high-standard approach to create an integrated pig industry chain for breeding, production, supply, marketing, financing, and services in the Beijing-Tianjin-Hebei region. It will address bottlenecks in production and build a unified high-quality supply market for the area.
- Pinggu District, as the core area of Beijing Agricultural Innovation Hub, provides a solid foundation for this cluster. The district government will continue to advance pig industry technology, services, and cluster advantages, aiming to make Pinggu become a leading role for the pig industry in northern China. It will develop a unique “Breeding Silicon Valley” and “Food Valley” brand for Pinggu, setting an example for the northern regions.
- This establishment responds to the need for integrated pig industry development in the Beijing-Tianjin-Hebei region, involving cooperation among numerous organizations and enterprises. It aims to ensure stable and safe pork supply while addressing challenges related to policy, market, and technology. Pinggu District will also strengthen its coordination with other areas to stabilize the pork market.

Beijing Synthetic Biology Proof-of-Concept Accelerator

- Plug and Play China, in partnership with Pinggu District, held the first workshop of the Beijing Synthetic Biology Proof-of-Concept Accelerator. The event, themed “The Future of Synthetic Biology: Path to Food and Beauty Industry Industrialization,” brought many industry experts together to explore the latest trends and growth opportunities in the global synthetic biology sector. Leveraging Plug and Play China's leadership in the global innovation ecosystem and Pinggu District's unique resource advantages, this accelerator aims to drive innovation and breakthroughs in the synthetic biology industry chain.

05 Outcomes

7 Signing Ceremony

2024 WAFI Innovation Award

ZHAO Liping, distinguished Professor at Rutgers University and Academician of the American Microbiological Society:

Professor Zhao's research team, in collaboration with international partners, published groundbreaking research in the top journal *Cell*. They identified two core microbiota groups—Keystone Functional Group and Pathobiont Functional Group—that play a key role in maintaining human health. This research, released at WAFI, could become the new standard for evaluating gut health and drive the development of personalized microbiome testing technology. It is expected to have profound impacts in agriculture, food, and nutrition sectors.

Muyuan Group:

As China's largest and the world's largest pig farming company, Muyuan has invested heavily in low-carbon transformation in recent years. The company has expanded its business from pig farming to include breeding, feed nutrition, slaughtering, and food processing. In 2023, it reduced greenhouse gas emissions by 4.34 million tons, with carbon emissions per kilogram of pork much lower than the global average, setting a good example for other Chinese farming companies in their low-carbon transformation.

Tongyi Carbon Neutral Technology:

As the world's first low-carbon lubrication company and a pioneer in China's low-carbon transition, Tongyi has established strategic partnerships with suppliers and customers through its low-carbon supply chain management model. This has encouraged many companies to adopt low-carbon practices, such as supporting World Agriculture Machinery in reducing 2,055 tons of carbon emissions through low-carbon lubricants and reducing plastic packaging by 145 tons, as well as lowering the carbon footprint of liquid bag packaging by 51 tons in 2023.

Oboya Group:

An enterprise that provides full-service horticulture manufacturing, Oboya collaborated with Dutch companies to develop the "Smart Hanging Track Trolley" robot, which solved the issue of intelligent banana harvesting. This innovation represents a successful cross-border cooperation model, linking overseas market demands with production supply.

Joshua Gyamfi from CFT Africa:

CFT Africa is an agricultural tech startup focused on transforming Africa's agricultural landscape. The company empowers small farmers by providing access to reliable markets, fair prices, seeds, fertilizers, and necessary training. Joshua Gyamfi stood out during the innovation roadshow.

Beijing Yufeng Experimental Base Management Company:

Located in Pinggu Agricultural Innovation Hub, this company is a representative example of industry-university-research collaboration. The company has partnered with a team of professors from China Agricultural University to create a model farm for animal welfare chicken farming. This model has improved animal welfare, increased product quality, and operates in an environmentally efficient method, with all indicators achieving or exceeding international standards.

2024 WAFI Participation Award

This award was to encourage active participation in the WAFI Innovation Roadshow. In March 2024, the WAFI Innovation Roadshow officially launched, selecting over 50 projects. Five offline innovation roadshows were held, with 32 projects presenting their pitches, followed by feedback from well-known investors and entrepreneurs. The event was live-streamed, attracting more than 5 million viewers globally, attracting widespread attention both domestically and internationally.

05 Outcomes

8 Investment and Planned Investment

I. Major Investment Projects

Dong-E-E-Jiao and China Agricultural University Joint Industry Innovation Research Institute:

Dong-E-E-Jiao, in collaboration with China Agricultural University, plans to invest 230 million RMB to establish an Industry Innovation Research Institute. This will be located at the The National Agricultural Science and Technology Innovation Hub, marking the beginning of a new chapter in industrial innovation cooperation and becoming the first social investment benchmark project in the region.

II. Company Registration and Capital Investment

BaiJinHui Group Registered:

During the conference, BaiJinHui Group was officially registered in the Yukou region with a registered capital of 20 million RMB. This will inject new vitality into the local economy and open a new chapter in the company's development.

III. International Cooperation Intentions

Cooperation with Dutch Chinese Youth Entrepreneurs:

Through the efforts of Ambassador YUE Diaoyun, an initial cooperation agreement was reached with the Dutch Chinese Youth Entrepreneurs Foundation. Both parties are actively drafting the cooperation agreement and exploring opportunities for collaboration in multiple fields.

IV. Digitalization and Infrastructure Development

New Hope Group's Digitalization of Logistics Prepositioning Warehouses:

New Hope Group has expressed its interest to participate in the digitalization of logistics prepositioning warehouses, aiming to enhance logistics efficiency and optimize supply chain management.

Hema Network Central Kitchen Investment Intention:

Hema Network plans to invest in the construction of a central kitchen in Pinggu District to meet the growing demand for food services, strengthen control over the food supply chain, and promote the high-quality development of the restaurant industry.

V. China-Europe Cooperation Projects and Eco-Agriculture

Happy Eggs China-Europe Cooperation Project:

Happy Eggs plans to implement a China-Europe cooperation project, building cage-free, zero-carbon emission egg farms. This project aims to promote environmentally friendly agriculture and sustainable development.

VI. Business Cooperation Intentions

Cooperation Intentions Between Mai Mai Planet, XAG, Sino Sheep, and Other Companies:

Mai Mai Planet, XAG, Sino Sheep, and several other companies have reached further cooperation intentions. The areas of collaboration span agriculture, technology, environmental protection, and more, working together to drive regional economic development.

Outcomes

9 Low-Carbon Organization

In 2024, WAFI is committed to implementing low-carbon conference operations, adhering to the "SR" principles: **Reduce, Reuse, Recycle, Rot, and Refuse** to lower carbon emissions.

Materials

Use Renewable Materials: Part of the WAFI materials, such as flyers, will be made from renewable resources such as "seed paper". Attendees can plant the flyers, contributing to carbon dioxide absorption as the seeds grow.

Use Less Paper: Conference documents will be provided digitally. If printed copies are necessary, they will be double-sided to further reduce carbon emission.

No Plastic: Plastic items, such as water cups and bags, will not be provided during the conference.

Transportation

Public Transportation First: The event will prioritize public transport options, including arranged buses to shuttle guests between the airport, train stations, hotels, and various locations in Beijing. This initiative promotes low-carbon travel and minimizes private car use.

Electric Cars and Ridesharing: In addition to public transport, participants are encouraged to utilize electric cars and ride-sharing services for a more sustainable travel experience.

Accommodation

Save Water: Please refrain from using bathtubs to conserve water.

Waste Sorting: Actively participate in the hotel's waste sorting and recycling program.

Bring Your Own Supplies: Bring personal toiletries to reduce the use of disposable items.

Catering

Reduce Food Waste: We will offer buffet to avoid excessive food waste.

Plant-Based Protein: The buffet will feature 138 dishes, with an increasing number of plant-based options. Over three-quarters of the dishes will be vegetarian, surpassing the plant protein ratio seen at the Paris Olympics. It aims to reduce meat consumption and lower carbon emissions.

Local Ingredients: 90% of food will be locally sourced, reducing transportation-related carbon emissions.

Eco-friendly Utensils: Only reusable and biodegradable utensils will be used.

Encourage Bringing Your Own Bottle: Attendees are encouraged to bring their own bottle or use our biodegradable ones to save water, with refill stations available at the venue.

Public Participation

WAFI RUN for Low Carbon: Join our new campaign for greener future. Every step counts toward a low-carbon lifestyle—commit to making sustainable choices in your personal and professional life. Note that there will be no running clothes, finish bags, backdrops, arches, disposable cups, or bottled water.

Promote Low Carbon Awareness: Leverage multiple channels to raise awareness of low-carbon and environmental concepts, encouraging sustainable lifestyles.

Digital Experience: Encourage online participation to reduce carbon emissions associated with in-person events.

Exhibition

Exhibit Design: Booths are designed to be **simple, low-carbon, and safe**, using recyclable materials to minimize the use of disposable wood.

06 Opening Ceremony

1 WAFI2024 Opening Ceremony

Opening Ceremony Grand Spectacle

On the morning of October 11, WAFI2024 World AgriFood Innovation Forum was grandly opened in the multi-function Hall of Beijing Jinhaihu International Convention and Exhibition Center. The opening ceremony of the forum attracted nearly 800 guests from 76 countries and regions around the world, including presidents of domestic and foreign universities, entrepreneurs, scientists, heads of international organizations to jointly focus on the theme of "Climate Change and Agrifood Systems Transformation".



Opening Ceremony Quotes

President of China Agricultural University, Academician of Chinese Academy of Engineering SUN Qixin served as the host and delivered openings remarks.

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President Sun began by reflecting on the successful execution of the inaugural World AgriFood Innovation Forum, highlighting its significant influence on the global agricultural landscape. He then outlined the forum's theme and objectives, which focus on addressing climate change, fostering innovation in agricultural science and technology policies, and enhancing collaboration among industry, universities, and research institutions to spur new advancements in global agrifood development.

Emphasizing the forum's emphasis on Climate Change and the Transformation of Agrifood Systems, he noted that this is a pressing topic of global concern. The gathering will bring together scientists, educators, entrepreneurs, and distinguished young scholars from the agricultural science and technology sectors worldwide, who will share the latest innovations and tackle the forefront challenges facing the field. Participants will engage in discussions on strategies to combat climate change and explore the future direction of agrifood system transformations.

Additionally, President Sun expressed his heartfelt gratitude to the leaders and guests attending the opening ceremony. He looked forward to fostering innovation and collaboration in global agrifood science and technology through this forum, working together to support global food security.

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ZHANG Xingwang, Member of the Leading Party Members' Group and Vice Minister of the Ministry of Agriculture and Rural Affairs

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Vice Minister Zhang pointed out that the Chinese government has always attached great importance to agrifood science and technology innovation, and in recent years has achieved remarkable results in the deep integration of agricultural science and technology innovation and industrial innovation, and actively participated in global agricultural science and technology cooperation.

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06 Opening Ceremony

1 WAFI2024 Opening Ceremony



Opening Ceremony Quotes

CHEN Jie, Member of the Party Leadership Group and Deputy Minister of the Ministry of Education

Vice Minister Chen emphasized the need for the international community to unite in addressing global challenges such as climate change and food security, advocating for openness and shared efforts. He highlighted the critical role of universities as key hubs for scientific and technological innovation, noting that the Ministry of Education is committed to supporting agricultural universities in strengthening fundamental research and enhancing the capacity for transforming research achievements into practical applications.

Additionally, Vice Minister Chen referenced the essence of President Xi's significant remarks on education, science, technology, and talent, underlining the fundamental and strategic importance of agriculture within the national agenda.

Looking ahead to the 2024 World AgriFood Innovation Forum, Vice Minister Chen expressed optimism that the conference will prioritize climate change and the transformation of agrifood systems while exploring new avenues for innovation in agricultural science and technology.

To support this initiative, he proposed three key recommendations: cultivating a team of high-quality agricultural professionals, improving the standards of basic research, and fostering collaboration and openness in agricultural and forestry education. These measures aim to infuse new vitality into the global agricultural science and technology landscape.



2024世界农业科技创新大会
2024 WORLD AGRIFOOD INNOVATION CONFERENCE

MU Peng, Vice Mayor of Beijing

On behalf of the Beijing Municipal People's Government, Vice Mayor Mu welcomed the guests and thanked everyone for their long-term concern and support for the development of Beijing. He pointed out that as the capital city, Beijing has the best agricultural colleges and universities, the largest number of agriculture-related scientific research institutions and nearly half of the academicians in the field of agriculture, with the contribution rate of scientific and technological progress as high as 75%. He promised that Beijing will continue to expand international agricultural science and technology exchanges and cooperation, actively participate in the global innovation network, and build more and better platforms for global agricultural talents to innovate and start businesses. He hoped that all parties will have in-depth dialogue, extensive exchanges, and joint discussions at this conference to promote more practical cooperation outcomes. Finally, on behalf of the organisers, Vice Mayor Mu Peng announced the opening of the 2024 World AgriFood Innovation Forum.



2024世界农业科技创新大会
2024 WORLD AGRIFOOD INNOVATION CONFERENCE

06 Opening Ceremony

1 WAFI2024 Opening Ceremony



Opening Ceremony Quotes

Kenneth Quinn - President Emeritus of The World Food Prize Foundation, Co-Chair of WAFI Advisory Committee

Dr. Quinn quoted the renowned Chinese agricultural expert Yuan Longping, who famously stated, "A seed can change the world," to articulate his strong belief in the power of agrifood science and technology innovation. He reflected on his personal experiences in China, observing the nation's reform, opening up, and significant transformations. Dr. Quinn underscored the importance of agricultural cooperation between China and the United States, highlighting that collaboration is essential for addressing contemporary global challenges. He expressed his full optimism for future cooperation, hoping that countries worldwide can join efforts to advance agrifood science and technology. Furthermore, he looks forward to collaborating with all participants to tackle these pressing global challenges.



ZHONG Denghua, Secretary of Party Committee of China Agricultural University and Academician of Chinese Academy of Engineering

Secretary Zhong began by extending a warm welcome to all the guests and expressing gratitude to all sectors for their support of China Agricultural University (CAU). He emphasized that transforming the agrifood system is crucial for addressing global climate change. As a major agrifood country, China is actively promoting the creation of a community with a shared future for humanity while tackling the food security challenges posed by climate change. CAU has made significant strides in agrifood science and technology innovation and is actively participating in global governance, fostering interaction between industry, academia, and research, as well as facilitating international exchanges and cooperation through the establishment of an international cooperation platform. Zhong Denghua also shared CAU's experiences in agrifood development across Africa, advocating for the joint advancement of agrifood science and technology innovation. He called for strengthened international cooperation and exchanges to collectively confront the challenges of climate change and food security, thus making positive contributions to ensuring global food security. In closing, he wished for the complete success of the Forum.



06 Opening Ceremony

1 WAFI2024 Opening Ceremony

Releases and Reports on Key Innovation Outlook



Food and Agriculture Organisation of the United Nations (FAO) - Agricultural Innovation Report

Beth Bechdol pointed out that global food security has been affected by conflicts, climate change, epidemics and economic downturns, and food insecurity is serious. Addressing this problem requires a variety of innovations, and FAO has identified more than 170 new agrifood technologies and innovations, 32 of which has been prioritised for development. She stressed that scientific and technological innovation should avoid the science and technology gap, create a good policy environment, pay attention to financing and cooperation, and use digital, early warning and other technologies to meet challenges.

China Agricultural University (CAU) - Dong-E-E-Jiao International TCM Industry Chain Science and Technology Innovation Platform Released

CHENG Jie said that Dong-E-E-Jiao, as the first enterprise to settle in the innovation Port, will carry out in-depth strategic cooperation with China Agricultural University (CAU), build an innovation platform and industrial innovation research institute, conduct interdisciplinary and multi-dimensional integration research, build an innovative talent system, and invite all parties to jointly promote the high-quality development of traditional Chinese medicine and modern agriculture.



Alliance for a Green Revolution in Africa (AGRA) Report Release

Jean Jacques Mbonigaba Muhinda stated that Africa's agricultural transformation has been slowed down by a number of factors and food security is facing challenges. The Alliance for a Green Revolution in Africa (AGRA) empowers smallholder farmers through models such as rural advisors and agricultural business councils. In the next five years, it plans to invest deeply in 15 countries to create jobs and leverage \$10 billion in agrifood investment, and achieve smallholder farmer development, emphasizing the critical role of government support and multi-factor synergies.



06 Opening Ceremony

1 WAFI2024 Opening Ceremony

Releases and Reports on Key Innovation Outlook

National Agricultural Science and Technology Innovation Harbor · Work Together To Build A Future Agricultural Innovation Highland Integrating Science, Education and Industry

SUN Dixin introduced that China Agricultural University(CAU) is building an Agricultural Science and Technology Innovation Harbor in Pinggu, with an investment of more than 6 billion RMB, and it will be fully operation in 2028. The Innovation Port focuses on four areas: nutrition and health, smart technology, cutting-edge technology incubation and industrial innovation, and international agricultural science and technology innovation cooperation, aiming to achieve the transformation of the agrifood system and inviting global talents and entrepreneurs to cooperate.



Consultative Group on International Agricultural Research (CGIAR) - Major Research on the Future of Agriculture and Outlook on Hotspots in Innovation Fields

Ismahane Elouafi mentioned the need to create peace in addition to innovation, and oppose the weaponisation of food. Agrifood systems have a significant impact on climate change and need to be transformed through joint action. CGIAR has helped lift many people out of poverty and hunger through innovations such as increasing wheat production. In the future, it would promote innovation in a many fields, such as breeding and artificial intelligence, and emphasizing the importance of innovation combination and investment, with the expectation that young people would be actively involved.



Live Broadcast Of Agricultural Products To Help Rural Revitalization

YU Minhong talks about the journey from education to agriculture, analyzes the reasons why people are starving around the world, and shares the experience and achievements in selecting and selling agricultural products in the East Buy Holding Limited. He proposed to establish a global sales platform and a reliable product recommendation system, with the help of modern science and technology combined with the market economy, to help agricultural products value-added, so that the world's agriculture from the "feed live" to "feed well" .



2 WAFI2024 Main Forum 1



WAFI2024 Main Forums was held on October 11, 2024, at the Multifunction Hall of the Beijing Jinhai Lake International Convention & Exhibition Center. The forums centered on the critical issues of climate change and the transformation of agrifood systems.

The event opened with a keynote address by SUN Dixin, President of China Agricultural University and Academician of the Chinese Academy of Engineering. His speech, titled "The Mission of Universities Under Climate Change: Responsibilities and Actions to Promote The Transformation of Agricultural and Food Systems," highlighted the urgent challenges faced by food systems due to climate change.

President Sun emphasized that while agrifood systems are significant contributors to climate change, their transformation must also be viewed as a crucial pathway for addressing this global issue. China Agricultural University is actively implementing various measures to mitigate climate change, including establishing interdisciplinary projects, creating new academic disciplines, developing innovative educational programs, and setting up research platforms.

Following the keynote, the Main Forums officially commenced, with the first session focusing on the theme: "Ensuring Food Security and Nutritional Health Under Climate Change."

Main Forum 1: Ensuring Food Security and Nutritional Health Under Climate Change

The summit dialogue delved into the topic of "How can we do better in the future?":



Lindiwe Majele Sibanda: Emphasized the importance of expanding successful experiences through stronger partnerships globally to achieve a green, low-carbon, and industrialized agriculture in Africa.



SONG Weiping: Noted that climate change represents a long-term challenge, with technological innovation being a fundamental driver; however, collaboration among industry, academia, and policymakers is essential to bolster global cooperation.



LIU Yonghao: Highlighted the critical role of technology, advocating for collaborative research and development with academic institutions to save food and tackle challenges through joint efforts with social enterprises.



Shakuntala Haraksingh Thilsted: Proposed a diversified approach that incorporates systematic molecular techniques, integrated pond aquaculture, supportive policies, and transformative curricular changes in universities to support nutrition-sensitive food systems.



Baboucarr Manneh: Discussed the importance of using new tools and methods for genetic improvement in rice, along with achieving breakthroughs in policy.



Bram Govaerts: Emphasized the necessity of analyzing existing data to design improved systemic futures, advocating for a multi-stakeholder, interdisciplinary, and multi-platform approach for both design and execution.

Main Forum

2 WAFI 2024 Main Forum 1

Main Forum 1:

Ensuring Food Security and Nutritional Health Under Climate Change. During this session, distinguished guests shared their insights from diverse perspectives and institutions:

Chair of Main Forum 1: David Nabarro - Strategic Director of 4SD Foundation, Former Special Adviser on Sustainable Development and Climate Change, 2019 Laureate of The World Food Prize



Lindiwe Majele Sibanda - System Board Chair of the CGIAR and 2013 Laureate of the African Food Prize

She discussed the current state and challenges of food systems in sub-Saharan Africa, emphasizing the importance of nutrition, sanitation, education, and empowerment. She highlighted alarming statistics, noting that one in five individuals in Africa suffers from hunger, underscoring the necessity to increase food production by 40%. Her organization has initiated programs aimed at transforming food, water, and land systems in response to climate change.



LIU Yonghao - Chairman of New Hope Group



He introduced New Hope Group's initiatives regarding agricultural technology development in China. The initiatives involve adopting a broad perspective on food security, fostering qualitative productivity to stimulate new drivers for food security, and fulfilling social responsibilities through global expansion and participation in rural revitalization.

Baboucarr Manneh - Director General AfricaRice, CGIAR Regional Director for West and Central Africa

He presented the challenges arising from the rising demand for rice in Africa and discussed collaborative efforts to develop climate-resilient rice production systems. This includes initiatives in water conservation, efficiency enhancement, reduced fertilizer usage and emissions, and improved nutritional outcomes.



Shakuntala Haraksingh Thilsted - Director of Nutrition, Health and Food Security Impact Area Platform of CGIAR, 2021 Laureate of The World Food Prize and Member of the WAFI Advisory Committee



She presented on nutrition-sensitive aquatic food systems, citing a project in Bangladesh that illustrates the benefits of cultivating both large and small aquatic species in ponds. This approach enhances yield, nutritional quality, and cost efficiency, while also emphasizing the importance of women's participation.

SONG Weiping - President of Beijing Dabeinong Technology Group Co., Ltd.

He highlighted the significant impact of agricultural biotechnology on China's food systems, detailing the company's work in improving the genetics of corn, soybeans, and rice. The company focused on research and selection of traits such as herbicide tolerance, insect resistance, drought resistance, and resilience to extreme temperatures.



Bram Govaerts - Director General of the International Maize and Wheat Improvement Center (CIMMYT)



He outlined the work of the CIMMYT center, which focuses on developing climate-resilient and nutritious maize and wheat varieties, promoting crop diversification, and employing a systematic approach to address sustainability and production efficiency challenges within food systems.

Main Forum

3

WAFI 2024 Main Forum 2

Main Forum 2 - How to Better Promote the Low-Carbon Transformation of Food Systems

Chair of Main Forum 2: FAN Shenggen - Dean of the Academy of Global Food Economics and Policy (AGFEP) at China Agricultural University (CAU), CGIAR System Board member, Vice-Chair of WAFI Advisory Committee



ZHANG Chunjiang - Academician of the Chinese Academy of Engineering and Director of the National Agriculture Information Engineering Technology Research Center



He emphasized that global climate change presents a significant challenge to the productivity of food systems, with greenhouse gas emissions from food systems accounting for 34% of total emissions. It is imperative to leverage technological innovation and policy support to mitigate these emissions. New technologies should focus on enhancing yield and quality while simultaneously controlling greenhouse gas emissions to ensure sustainable agricultural development.

YE Xiaofeng - Vice President of Planetary Health Biosolutions, APAC, Novonosis

He stressed that biotechnology has significant potential in reducing emissions in agriculture, with an anticipated reduction of 4.3 billion tons of CO₂ equivalent by 2030. Novonosis has implemented biotechnology in agriculture to enhance feed efficiency and reduce resource waste. There is now a pressing need for biological solutions to address the challenges of resource scarcity and climate change while promoting green development in agriculture.



Dusmane Badiane - Executive Chair of AKADEMIYA 2063



He emphasized that Africa needs to combine local adaptation strategies with technological innovation and efficient resource utilization to address climate change. He underscored the importance of establishing a carbon trading market in Africa. He advocated for climate adaptation innovations, such as organic fertilizers and soil and water conservation practices, to tackle climate change and promote emission reductions.

Main Forum

3

WAFI 2024 Main Forum 2



Yvonne Pinto - Director General of the International Rice Research Institute (IRRI)

She highlighted the effective utilization of rice straw through a circular economy and innovative breeding technologies to reduce fertilizer use and water consumption. She proposed that government and enterprises should collaborate to enhance carbon credit mechanisms, aiming to incentivize emission reductions.

Simeon Ehui - Director of the International Institute of Tropical Agriculture

He asserted that reducing greenhouse gas emissions requires a fundamental shift in models, with participation from trade and multilateral banks. He emphasized the significance of adapting to climate change and promoting climate-smart technologies. Additionally, he called for South-South cooperation to drive the implementation of climate resilience projects.



QIN Yinglin - Chairman of Muyuan Group

He discussed how Muyuan Group achieved low-carbon pork production through comprehensive management of the entire supply chain, reaching a greenhouse gas emission reduction of 0.645 kilograms of CO₂ per kilogram of meat. Key measures included optimizing feed and reducing fossil fuel consumption, thereby promoting the use of renewable energy sources.



Martien Van Nieuwkoop - Director of Agricultural Development at the Bill & Melinda Gates Foundation

He highlighted the necessity for food systems to transform to meet the food demands of a projected 2 billion additional people by 2050. He emphasized the importance of financing and accelerating technological innovation to achieve low-carbon objectives while satisfying global food requirements.



Main Forum

3 WAFI 2024 Main Forum 2

Cross-Sector Collaboration:

The importance of collaboration across the entire supply chain, industries, and disciplines is vital for achieving effective resource utilization and driving agricultural innovation.

Systems Thinking:

In the transformation of food systems, it is essential to consider production, inputs, and harvesting in a holistic manner to ensure emission reductions at every stage.

Technology and Policy:

Information technology and artificial intelligence will play a crucial role in the future of food system transformation, necessitating a combination of policy guidance and technological innovation.

In concluding Main Forum 2, Professor Fan Shenggen outlined six key elements for promoting a low-carbon transformation of agrifood systems:



Urgency: Immediate action is required to address the escalating impacts of climate change. Time is of the essence; delaying actions will only exacerbate existing problems.



System Integration: Holistic system integration across the entire industry chain must be prioritized, optimizing each link from production to logistics to enhance overall efficiency and minimize carbon emissions. This integration should encompass technology, management, resource allocation, and policy coordination.



Scale Expansion: Increasing financing and resource mobilization is crucial for achieving a low-carbon transformation. More investment and resource allocation are needed to support the implementation of low-carbon technologies and sustainable development projects.



Innovation: Innovative thinking and new technologies are needed to drive transformation across all sectors. By continuously exploring new solutions, we can overcome the limitations of traditional agricultural models.



Disruption: Encouraging the adoption of disruptive approaches is fundamental for driving change. We must break free from entrenched patterns and actively seek alternative pathways and strategies to address increasingly complex environments and challenges.



Collaborative Synergy: This transformation process requires collective efforts from all parties to create a synergistic impact. Whether governmental bodies, enterprises, research institutions, or social organizations, active communication and collaboration are necessary to integrate respective strengths and foster overall progress.

Main Forum

4

WAFI 2024 Main Forum 3

Main Forum 3 - Protection of Agricultural Natural Resources and Biodiversity

Chair: Arthur Mol

Former Rector Magnificus of Wageningen University



WAN Ding - Chief Executive Officer of Rabobank Asia

WAN Ding, Chief Executive Officer of Rabobank Asia, described Rabobank as a global agricultural bank that integrates natural resources into its business. The bank focuses on five key pillars, including renewable biodiversity and sustainable agricultural systems, aligning policies and investments with global biodiversity goals.



XU Ke - Vice President of Inner Mongolia Yili Industrial Group



Xu Ke, Vice President of Inner Mongolia Yili Industrial Group, shared how the company is promoting a greener and low-carbon dairy industry. Yili is improving its environmental strategies, upgrading actions, setting industry standards, and leading pollution control efforts. The company is also running public welfare projects to support sustainability.

Alexandra Brand - Executive Vice President of Syngenta

Alexandra Brand, Executive Vice President of Syngenta, highlighted the challenge of land degradation and the increasing demand for agricultural land. She shared examples from China and Brazil, where Syngenta is working on land restoration and product innovation to support sustainable agriculture.



Appolinaire Djikeng - Director General of International Livestock Research Institute



Appolinaire Djikeng, Director General of International Livestock Research Institute, emphasized the historical importance of biodiversity. He discussed how to produce more food on limited land while reducing biodiversity loss.

Stefanos Fotiou - Director, Sustainable Development Goals Office, FAO Director, United Nations Focal Point for the Food System

Stefanos Fotiou from FAO suggested using economic tools like biodiversity credit markets, agricultural insurance, and land credit funds. These tools can help protect natural resources, support biodiversity, and increase small farmers' incomes.



MEI Yonghong - Executive Director of BGI Group



Mei Yonghong, Executive Director of BGI Group, warned that crop seed diversity is at risk of disappearing. He introduced efforts by BGI, the Shenzhen National Gene Bank, and the "Doomsday Seed Vault" to preserve species and genetic data.

Simon Heck - Director General of the International Potato Center

Simon Heck, Director General of the International Potato Center, spoke about research on potatoes and sweet potatoes. He explained how working with private companies on demonstration projects can improve agricultural diversity and farmers' livelihoods.



Main Forum

4 WAFI2024 Main Forum 3

During the Summit Dialogue, chair Arthur Mol asked the panelists questions about biodiversity and natural resource conservation in agriculture, and the panelists gave their insights.



WAN Qing

Wan Qing, Chief Executive Officer of Rabobank Asia, said the bank uses an ESG (Environmental, Social, and Governance) policy framework for sustainable financing. They avoid giving loans to projects that harm natural biodiversity. Wan Qing believes all financing will eventually become sustainable—it's just a matter of time.

XU Ke

Xu Ke, Vice President of Inner Mongolia Yili Industrial Group, said Yili has included biodiversity protection in its ESG management and is exploring various ways to make an impact.



Stefanos Fotiou

Stefanos Fotiou, Director of the FAD Sustainable Development, pointed out that countries need to change their development plans, methods, and frameworks to overcome the challenges of protecting biodiversity.



Appolinaire Djikeng

Appolinaire Djikeng highlighted the importance of understanding the unique challenges small farmers face in agriculture. He emphasized that they should be actively involved in biodiversity protection.



Main Forum

4 WAFI2024 Main Forum 3

During the Summit Dialogue, chair Arthur Mol asked the panelists questions about biodiversity and natural resource conservation in agriculture, and the panelists gave their insights.



WAN Qing

Wan Qing shared an example from the Netherlands, where a biodiversity monitoring system was created with stakeholders to measure how financing impacts biodiversity. She stressed the need for ecosystem cooperation to support small farmers and all parts of the value chain.

Simon Heck

Appolinaire Djikeng highlighted the importance of community involvement, data science, biotechnology simulations, and industry partnerships to achieve biodiversity protection goals. Simon Heck, Director General of the International Potato Center, suggested working with universities to develop widely accepted metrics for biodiversity research. He also mentioned the importance of linking global gene banks to strengthen biodiversity research and practical applications.



MEI Yonghong

Mei Yonghong, Executive Director of BGI Group, believes it's essential to promote the global sharing of species resources. He also mentioned that advancements in technologies like gene editing will help protect biodiversity.



Appolinaire Djikeng

Appolinaire Djikeng highlighted the importance of community involvement, data science, biotechnology simulations, and industry partnerships to achieve biodiversity protection goals.



Main Forum

5

WAFI2024 Main Forum 4

Main Forum 4 - Empowering Small Farmers and Ensuring Their Benefits

Chair: LI Xiaoyun,
Lead Chair Professor, China Agricultural University (CAU)



Matin Qaim - president of the International Association of Agricultural Economists (IAAE), director of the Center for Development Research (ZEF), University of Bonn



Matin Qaim, president of the International Association of Agricultural Economists (IAAE), director of the Center for Development Research (ZEF), University of Bonn, outlined six key steps to support small farmers: 1) Increase investment from local governments and the international community. 2) Diversify investments, including new technology, infrastructure, and market services. 3) Promote affordable technologies like AI and gene editing. 4) Focus on sustainable farming, reducing fertilizer use and protecting health and nature. 5) Improve education and job opportunities for farmers' children to drive structural change. 6) Create jobs, increase incomes, reduce poverty, and enhance climate adaptation.

CHEN Rui'ai - Chief Operating Officer of Wens Foodstuff Group CO., LTD

Wens Foodstuff Group uses a "Company + Small Farmers" model to integrate small farmers into large-scale agriculture. This model provides funding, technology, market access, and fair benefits. By managing risks and ensuring stable incomes, Wens Foodstuff Group supports 80,000 farmers annually, producing over 5.8 million tons of food and generating 900-1000 billion RMB in revenue. This model improves farmers' living standards and education while demonstrating the potential of integrating small farmers into major industries.



Essam Yassin Mohammed -
Director General of the WorldFish Center



Essam Yassin Mohammed spoke about the importance of small farmers in the fisheries sector and the challenges they face, including: lack of a clear definition of small fish farmers, gaps in data and investment, market barriers and limited access to technology, climate change affecting livelihoods, and gender inequality in the industry. He called for solutions to these challenges to ensure the sustainable growth of small-scale fisheries.

Main Forum

5

WAFI2024 Main Forum 4



Bibi Giyose - Special Adviser to the Chief Executive Officer of the African Union Development Agency (AU-NEPAD)

Bibi Giyose highlighted the challenges small farmers face, particularly women's marginalization and the lack of youth participation. She also pointed out difficulties caused by global conflicts, climate change, and limited market access. She called for policy support, cross-sector cooperation, capacity building, and grassroots initiatives to improve small farmers' livelihoods. She emphasized that policies must be turned into real actions.

SUN Jungeng - Chairman of Xiangnian Food CO., LTD

Xiangnian Food supports small farmers through a 'Three Helps, Three Links' strategy. The 'Three Helps' includes assisting farmers in buying materials, utilizing modern technology, and selling their products. The 'Three Links' involves connecting farmers with government policies, financial services, and market channels. Additionally, the company partners with universities to enhance farmers' knowledge of modern agricultural practices.



CHENG Jie - President of Dong-E-E-Jiao CO., LTD



Cheng Jie discussed the donkey industry and its combination of history and modern technology. He highlighted its health benefits, such as boosting immunity and treating cancer-related fatigue. He also expressed the company's goal to empower small farmers through technology and collaborate with global experts for the sustainable development of the donkey industry.

Osmar Ribeiro De Almeida Júnior - Executive Secretary of the Ministry of Development and Social Assistance, Family and the Fight against Hunger, Brazil

Osmar Ribeiro shared Brazil's efforts to combat hunger and promote social equality. The government launched the Global Alliance Against Hunger, highlighting the crucial role of small farmers in reducing hunger and poverty. He emphasized the need for government actions to ensure small farmers' products reach consumers efficiently despite the impacts of globalization.



06 Main Forum

5 WAFI 2024 Main Forum 4

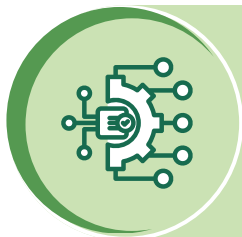
The session covered many important directions about small farmers and their future:

- What is the most important factor for small farmers to succeed?
- What role do small farmers play in fighting climate change and transforming food systems?
- How can we ensure enough agricultural workers in the future, as fewer young people choose farming?
- Are there any studies on the next generation of farmers in Africa or Asia? How do they see the future of farming?
- How can small farmers access the best technology to improve productivity and quality? What stops them from using these technologies?
- In developing countries, how can small farmers continue to feed the growing population? Should we rely on their current methods or shift to large-scale farming?
- How can we help small farmers grow into larger businesses to meet future agricultural demands?
- How can governments and research institutions work together to provide small farmers with the support and resources they need?

In response to these questions, guests offer insights:



Matin Qaim: stressed that technology and cooperation models should benefit all farmers, avoiding male dominance, and ensuring vulnerable groups get fair opportunities. He also proposed that attracting youth to agriculture through better job conditions and innovative thinking would help ensure the sustainable development of small farmers. The relationship between African youth and arable land is key for future growth.



CHEN Rui' ai : pointed out that microbiology plays a key role in improving food safety and tackling agricultural pollution. She believes technology and automation can attract youth to the agriculture sector while promoting sustainable resource use and industry upgrades. Creating continuous profit mechanisms is essential for the development of both small and medium farmers.



SUN Jungeng: advocated for building coordinated supply chains, industrial chains, and value chains to help small farmers overcome technical and talent gaps, contributing to sustainable agricultural development.



Essam Yassin Mohammed: Essam Yassin Mohammed argued that small farmers should have the freedom to choose their farm sizes and that technological innovations must meet real needs. He suggested reforming fisheries subsidies, turning harmful ones into resources that support sustainable development. He sees technology as the main driver of the agricultural revolution.

Main Forum

5

WAFI 2024 Main Forum 4



CHENG Jie: highlighted that demonstration farms can help spread scientific farming techniques, improve production efficiency, and reduce risks, ensuring sustainable industry development. Leading companies can use profit-sharing models to help small farmers grow, improving market competitiveness.



Osmar Ribeiro De Almeida Júnior: shared how Brazil's unified registration system helps identify vulnerable groups and ensures that public policies like energy subsidies reach those who need them, promoting social and economic fairness.



Bibi Giyose: emphasized the importance of supporting women small farmers. She suggested focusing on policy, nutrition, technological innovation, and industry-wide collaboration. She called for customized technological solutions to address specific needs, like vitamin and iron deficiencies and highlighted women's role in reducing food waste and supporting families, urging gender-sensitive policies to improve agriculture efficiency and fairness.

The four main forums of the WAFI2024 Forum focused on "Climate Change and Agri-Food Systems Transformation", which provided a comprehensive analysis of the core issues of agrifood systems transformation in the context of climate change in a number of key areas, including food security, low-carbon transition, resource and biodiversity conservation, and smallholder development. All parties agreed that climate change poses all-round challenges to the agrifood system and that transformation is urgent. The conference emphasized that scientific and technological innovation is the core driving force to address the challenges, and should be strengthened in the application of biological breeding, low carbon technology and other agricultural fields; global cooperation is crucial, and countries need to deepen collaboration in technical exchanges, resource sharing, policy coordination, etc.; at the same time, we should attach great importance to biodiversity and agricultural natural resources protection, so as to build a solid foundation for sustainable development of agrifood systems; in addition, empowering small farmers is a key part of the transformation, and policies, policies, and measures should be implemented in order to realize the transformation of agrifood systems. In addition, empowering small farmers is a key part of the transformation process, which needs to be supported in terms of policy, finance and technology to promote synergistic development with large-scale industries. The outcomes of the Conference highlight the importance of global cooperation, scientific and technological innovation, policy support, resource integration and attention to vulnerable groups; and point to a direction for the global response to climate change, the transformation of agrifood systems and the sustainable development of agriculture. All parties should take this meeting as an opportunity to actively implement relevant strategies and actions, and jointly promote the transformation of the agrifood system in a more resilient and sustainable direction, so as to meet the challenges posed by climate change and realize the long-term prosperity and development of human society.

Closing Ceremony

6 WAFI2024 Closing Ceremony



1. Background and Overview of WAFI2024

The World AgriFood Innovation Forum 2024 (WAFI2024) closed in Beijing on the afternoon of October 12. After four days of intensive agenda, the forum achieved fruitful achievements, with the theme of “Climate Change and AgriFood Systems Transformation”, attracting 5,000 participants from more than 70 countries and regions around the world, including scientists, educators, entrepreneurs, government officials, farmers, and youth representatives, to discuss the path and future of agrifood science and technology innovation. The forum attracted 5,000 participants from more than 70 countries and regions, including scientists, educators, entrepreneurs, government officials, farmers and youth representatives. Through the speeches of 521 guests, 42 thematic meetings and widely reported by more than 70 mainstream media around the world, the forum has successfully built a bridge for the exchange of agrifood science and technology innovation and injected new vitality into the cooperation and development of the global agrifood field.



2. Main Achievements and Highlights

1. Build a Global Exchange Platform: The forum has become a window and business card for global exchanges in the field of agrifood science and technology, and a number of activities such as the Youth Dialogue of the Center for the United Nations Food System (CFS), China-Africa Agricultural Science and Technology Cooperation specialised events, and China-Brazil Agricultural Trade Cooperation parallel session have been held here, which have promoted the cooperation and communication in agricultural science and technology among the international.

2. Releasing Important Scientific and Technological Achievements: The forum released global scientific and technological achievements such as agricultural innovation report, major Research on the future of agriculture and outlook on hotspots in innovation fields, and formed the 《2024 Pinggu Consensus》, which provides Chinese wisdom for solving the challenges in the field of agriculture. Meanwhile, the World AgriFood Innovation Tech Expo was held, displaying more than 100 cutting-edge achievements, cutting-edge technologies and excellent projects, which provided important support for the display and trading of scientific and technological achievements.

3. Promote the Deep Integration of Industry, University, Research and Application: During the forum, Shaanxi Province, Jilin Province and other agricultural high-altitude zones participated in exchanges and jointly explored the development path of the deep integration of industry, university, research and application. In addition, the Beijing Alternative Protein Food Industry Alliance was formally established, building a bridge for cooperation between industry, university, research and application, and promoting the deep integration and development of the innovation chain, industrial chain, capital chain and talent chain.

4. Creating a new Highland in Agricultural Zhongguancun: The forum promoted the development pattern of ‘one nucleus, two wings’ and ‘three towns, whole area, whole scene’ of Agricultural Zhongguancun to the world, and centrally released the National Agricultural Science and Technology Innovation Harbor Global Cooperation Plan. This provides strong support for the deep integration of agricultural power and educational

power, and is expected to attract more international agricultural research institutions and global agricultural head enterprises to Pinggu Agricultural Zhongguancun, and jointly create a new highland in agricultural science and technology innovation.

Closing Ceremony

6

WAFI2024 Closing Ceremony

3. Highlights of the Guests Sharing

Aman Wirakartakusumah - Former President, International Union of Food Science and Technology, IUFOST



Aman expressed his appreciation for the success of the conference and China's strong commitment to sustainable development. He emphasized the importance of promoting healthy diets and safe food, and appreciating the efforts of the conference to promote collaboration between the industry, university and research communities. Aman looked forward to working with global partners in the future to share technology and promote the transformation of agrifood systems.

FAN Shenggen - Dean of the Academy of Global Food Economics and Policy (AGFEP) at China Agricultural University (CAU), CGIAR System Board member, Vice-Chair of WAFI Advisory Committee



The host, Professor Fan Shenggen, expressed his gratitude to District Chief Di Tao for his speech and pointed out that the conference was centred on 'innovation', which involves science and technology innovation, management innovation, business innovation and other aspects. He emphasised that innovation is close at hand and requires joint efforts from all parties to promote. At the same time, he paid special attention to the role of women and young people in agricultural science and technology innovation, and looked forward to continuing to organize Women's forums in the future.

Patrick Caron - Vice-Chair, Consultative Group on International Agriculture Research



Patrick thanked the organizers for providing this platform and emphasized that WAFI as a unique platform is crucial to drive the development and transformation of the global agrifood system by connecting different sectors, stakeholders and fostering innovation, which he highly appreciated and looked forward to continued contribution and cooperation in the future. He suggested to continue to organize thematic forums on women, youth, etc. to strengthen exchanges and cooperation among all parties. He also said that the event not only promoted the exchange of knowledge and technology, but also laid a solid foundation for achieving the goals of social justice and sustainable development.

Patrick Okori - Executive Secretary-General of the Regional University Forum, President of the African University Network (RUFORUM)



Patrick said that Africa currently faces challenges such as youth employment, climate change and food security, and that education and agricultural systems need to be rapidly transformed, and that universities should be key drivers of that transformation. He thought that a coherent science, technology and innovation system is critical to the transformation of agrifood systems, and that change needs to be based on forward-looking research. Okori appreciated the achievements of the WAFI conference and plans to take what he learnt back to Africa, and emphasised the importance of North-South cooperation. He also suggested that future conferences listen more to the voices of smallholder farmers and young people, as their participation is critical to driving transformation.

Di Tao - Deputy Secretary of Beijing Pinggu District Party Committee and District Chief of Pinggu District, Beijing



On behalf of the Party Committee and District Government of Pinggu District, District Chief Di Tao expressed his heartfelt thanks to all the guests attending the conference. He emphasised that agricultural science and technology innovation is an important way to solve global food security and sustainable development issues, and China has always placed agricultural science and technology innovation in an important position. The successful holding of this conference has constructed a bridge and injected surging power for the exchange and cooperation in the global agricultural field, and provided strong support for promoting the creation of a first-class agricultural Zhongguancun. District Chief Di Tao expects Pinggu to take this opportunity to continue to contribute to global agricultural science and technology innovation.

Jimmy Smith - Director of International Programmes, College of Agriculture and Natural Resources, University of Maryland



Jimmy Smith expressed his appreciation for the excellent organization of the conference and pointed to the challenges to global food security posed by geopolitical conflicts, famine and other issues. He thought that the conference provided a strategic opportunity to discuss these challenges and solutions. Smith emphasized the key role of technology innovation in addressing these challenges and looked forward to more collaboration in the future.

XIAO Liming - Representative of Tencent



Tencent representative pointed out that with the mission of science and technology for the good, Tencent is actively using big data, artificial intelligence and other technologies to promote the development of smart agriculture and digital countryside, and through the practice of innovation in the fields of smart seed industry and facility agriculture, it is helping to improve the efficiency of agricultural production and optimize the circulation of agricultural products, and at the same time, while emphasizing the core role of talents in agricultural science and technology promotion, and it is looking forward to working with global partners to shape the future of agricultural science and technology innovation and jointly address challenges.

Bruce Friedrich - Founder and President, The Good Food Institute (GFI)



Bruce thanked the conference organizers and volunteers and recommended 《The China Food Policy Book》, saying that China's food system challenges are global, that plant-based foods need to be delicious to replace animal-based products, that China has the potential to lead in this field, and can learn from the successful experience in renewable energy and other fields, and the book has reference significance for the transformation of agrifood systems globally.



Closing Ceremony

6 WAFI2024 Closing Ceremony

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Closing Ceremony

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WAFI 2024 Closing Ceremony



Yvonne Pinto - Director General of the International Rice Research Institute (IRRI)

She highlighted the effective utilization of rice straw through a circular economy and innovative breeding technologies to reduce fertilizer use and water consumption. She proposed that government and enterprises should collaborate to enhance carbon credit mechanisms, aiming to incentivize emission reductions.

Simeon Ehui - Director of the International Institute of Tropical Agriculture

He asserted that reducing greenhouse gas emissions requires a fundamental shift in models, with participation from trade and multilateral banks. He emphasized the significance of adapting to climate change and promoting climate-smart technologies. Additionally, he called for South-South cooperation to drive the implementation of climate resilience projects.



QIN Yinglin - Chairman of Muyuan Group

He discussed how Muyuan Group achieved low-carbon pork production through comprehensive management of the entire supply chain, reaching a greenhouse gas emission reduction of 0.645 kilograms of CO₂ per kilogram of meat. Key measures included optimizing feed and reducing fossil fuel consumption, thereby promoting the use of renewable energy sources.



Martien Van Nieuwkoop - Director of Agricultural Development at the Bill & Melinda Gates Foundation

He highlighted the necessity for food systems to transform to meet the food demands of a projected 2 billion additional people by 2050. He emphasized the importance of financing and accelerating technological innovation to achieve low-carbon objectives while satisfying global food requirements.



Closing Ceremony

6 WAFI2024 Closing Ceremony



4. Innovation Award Presentation and Achievement Display

Professor FU Wenge, as the award presenter at the WAFI Innovation Roadshow, he introduced in detail the setting background and strict selection criteria of the WAFI Innovation Award, which aims to recognize individuals and enterprises that have made outstanding contributions in the field of agrifood science and technology. The WAFI Innovation Award was presented to six projects, including ZHAO Liping, academican of the American Academy of Microbiological Sciences. These projects have achieved remarkable achievements in science and technology innovation, management innovation and business innovation, and have provided strong support for the transformation of the agrifood systems. Professor Fu encouraged more agrifood science and technology workers to devote themselves to innovation practice and jointly promote the development of global agricultural science and technology.

Science and Technology Innovation Award

ZHAO Liping

Rutgers Professor, USA, American Academy of Microbiological Sciences, the top expert in the field of gastrointestinal tract. Because of his articles on gastrointestinal research published in the top journals of Cell, he attracted great attention in the industry, and gave a wonderful speech at the WAFI conference, which was highly praised.

International Innovation Award

Africa Project Representative (Joshua Gyamfi, CEO of CFT Africa)

The project was selected through the WAFI Innovation Roadshow, an event that selects more than 50 innovative projects globally, with the winning African project reflecting the WAFI Forum's emphasis and recognition of international innovation.

Company Innovation Award

MuYuan Group

China's (and the world's) largest pig farming company is committed to green transformation. Through active exploration and practice, it has successfully reduced a large amount of greenhouse gas emissions, and its pork carbon emission level is far lower than the international average, providing valuable experience for the low-carbon transformation of other breeding enterprises.

Tongyi Carbon Neutral Technology(Xinjiang) Co., Ltd

Formerly a traditional chemical enterprise, now successfully transformed into a low-carbon technology enterprise. It actively promotes low-carbon transformation in agricultural machinery and other related fields, and has established low-carbon strategic alliances with a number of food enterprises and agricultural machinery enterprises to jointly promote the low-carbon development of the industry.

Closing Ceremony

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WAFI2024 Closing Ceremony



4. Innovation Award Presentation and Achievement Display

Industry-
University-
Research
Interactive
Innovation
Award

Pinggu Project Team

(Co-created by the enterprise and a team of professors from China Agricultural University)

The project is a model of industry-university-research interaction, co-created by the enterprise and a team of professors from China Agricultural University. The project focuses on the field of raising laying hens, which not only represents the future development direction of the industry, but also actively responds to climate change and promotes the green transformation of the farming industry. In terms of animal welfare chicken rearing mode, the project through the mode exploration of Doctor Farm science and technology small school, the equipment mode and the level of science and technology have reached the international advanced level, and the products are already on the market. The project is the real representative of agricultural Zhongguancun, and also an important achievement of Pinggu District in establishing the rural Zhongguancun model.

WAFI
Roadshow
Participati
on Award

Five Representatives: Founders Lair, Meat the Next Company Limited, BMH Transmotion, OBDORTECH, Argo Metaverse

These five representatives were selected from over 50 projects in the WAFI Innovation Roadshow. Their participation and contribution is important to promote the innovation atmosphere and global participation of the WAFI conference, and the WAFI Innovation Roadshow Participation Award is specially designed to recognize their efforts and contributions.

Collaboration
Innovation
Award

Oboya Group (Collaboration with Baum, inventor from Netherlands)

Multinational company, horticultural whole industry chain material supplier. In cooperation with Baum, the inventor from Netherlands, the company has jointly developed an intelligent picking robot, which solves the problem of picking bananas in the banana picking garden. This innovation achievements shows the great potential of cooperation and innovation between Chinese and foreign enterprises, and provides new ideas for solving problems in the agrifood industry.



5. Low Carbon Certification

WAFI2024 World AgriFood Innovation Forum has successfully obtained the low carbon certification from British Standards Institution BSI, which has verified the planning and execution of the conference in all aspects through the ISO14064-1 (2018 edition) standard, confirming that the conference has a complete planning and execution of the low carbon office, catering, transport, exhibition and accommodation, etc., and achieving the low carbon hosting of the conference.

WANG Dingyang, the representative of British Standards Institution China Regional Standards, took the stage to speak, he said that this year's WAFI forum demonstrated the insistence and practice of the low-carbon concept, which made a positive contribution to the sustainable development of the industry and also set an example, and the conference started with low-carbon as the opening topic, is not only a called for the initiative of the industry, is also a kind of reminder, He also encouraged more people to get involved in low-carbon action.

Closing Ceremony

6 WAFI2024 Closing Ceremony

6. Signing Ceremony

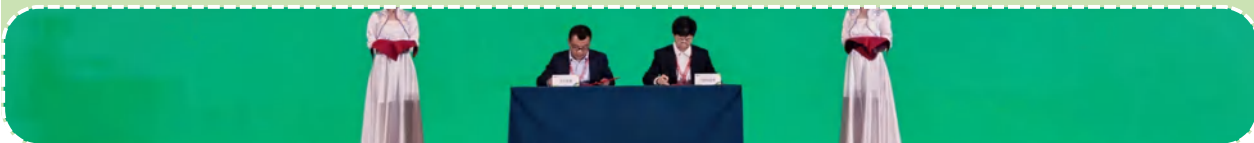
China Agricultural University (CAU) and Beijing Zhongnong Aladdin Biotechnology Co., Ltd.

The two sides signed a major scientific and technological achievements transformation cooperation agreement, aiming at transforming CAU's scientific research achievements into actual productivity, and promoting the process of agricultural modernisation through the market-oriented operation of Beijing Zhongnong Aladdin Biotechnology Co., Ltd.



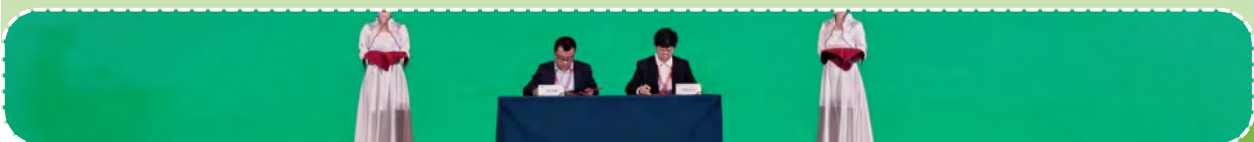
China Agricultural University (CAU) and Beijing Green Nonghua Crop Science and Technology Co., Ltd. and Beijing Abelung Technology Group Co., Ltd.

CAU and these two companies have reached a co-operation agreement on the transformation of scientific and technological achievements, which aims at applying advanced agricultural science and technology to actual production, improving crop yields and quality, and promoting the sustainable development of agriculture.



China Agricultural University (CAU) and Sinochem Environmental Holdings Limited (SEHL)

The two sides signed a cooperation agreement on the transformation of scientific and technological achievements, combining CAU's scientific research achievements in the field of environmental protection with SEHL's industrialisation capabilities, and jointly promoting the innovation and application of environmental protection technologies.



Closing Ceremony

6 WAFI2024 Closing Ceremony

6. Signing Ceremony

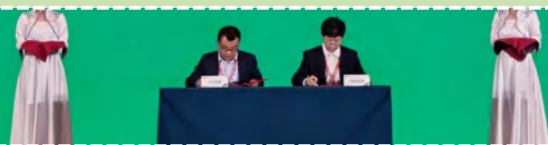
Beijing Pinggu District Government and Administrative Committee of Yangling Agricultural Hi-Tech Industrial Demonstration Zone

The two governments reached a cooperation agreement to strengthen agricultural science and technology innovation and industrial collaboration, aiming to give full play to their respective strengths, jointly promote agricultural science and technology innovation and industrial development, and enhance the level of agricultural modernisation.



Beijing Academy of Agricultural and Forestry Sciences, BGI Group, and Beijing Pinggu National Agricultural Science and Technology Park Management Committee

the three sides cooperated on the establishment of a cutting-edge tool platform for the Beijing Pinggu Agricultural Microbiology International Innovation Research Institute, and will carry out comprehensive cooperation in scientific research synergy, talent cultivation, technological product research and development, and transformation of achievements, etc., to promote the technological innovation and industrial development in the field of agricultural microbiology.



Outcomes and Outlook of WAFI2024

President Sun Dixin comprehensively summarized the fruitful results of the forum and officially released the «2024 Pinggu Consensus». He sincerely thanked all participants, speakers, hosts and volunteers for their hard work and selfless dedication, which made the conference a complete success. At the same time, President Sun particularly emphasized the key role of youth in driving the future transformation of the agrifood systems, and called for enhanced communication and cooperation on the youth platform to contribute to building a greener and more sustainable agrifood future. At the same time, Pinggu District will continue its contribution in the second half of the World AgriFood Innovation Forum in the future, contributing to the promotion of global agrifood science and technology innovations and helping the sustainable development of international exchanges and cooperation in the field of agrifood. Meanwhile, the forum looks forward to more cooperation with guests, experts and scholars from various countries to jointly address the challenges of climate change and agrifood systems transformation in the world.

Thematic Forum

7 Thematic Forum: World Agricultural University Presidents' Forum



Overview

On October 10, 2024, from 08:30am to 18:00pm, the World Agricultural University Presidents' Forum was held at Function Hall B of Beijing Jinhai Lake International Convention & Exhibition Center. The event attracted 500 in-person participants and engaged around 7.86 million online attendees worldwide, with topic-related clicks exceeding 100 million. University presidents, experts, scholars, and industry leaders from the global agricultural sector came together to discuss innovations in agricultural education and research.



Highlights

During the forum, the opening remarks underscored high expectations for advancements in agricultural education and research. WEI Xubin, the leader from Ministry of Education, China, highlighted efforts to integrate education, science, and talent in agriculture to support the development of the Agricultural Innovation Hub. TANG Hailong, leader from Pinggu district, expressed a desire to collaborate with global partners to advance university research and create a future of innovation in agrifood science and technology.



In the keynote speeches, experts shared their insights generously. Arthur Mol called for global agricultural universities to promote the development of green life sciences. CHEN Fadi analyzed the current state of higher education in agriculture and forestry, sharing practical reform experiences. LI Lin presented global agricultural research data and trends. Roundtable discussions and specialized reports focused on talent cultivation and the integration of research and industry. Universities actively shared best practices and explored key topics such as innovative education models, precise adjustments in research directions, and curriculum optimization, offering valuable strategies for the development of agricultural universities.



Achievements

The forum enhanced understanding and communication among global agricultural universities, laying a solid foundation for substantive collaboration in education, research, and talent development. It significantly promoted innovation in agricultural education and research.

Thematic Forum

8 Thematic Forum: World Youth Forum



Overview

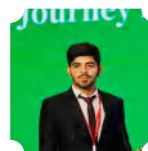
On October 10, 2024, from 8:30 AM to 12:00 PM, the World Youth Forum was held at the Ballroom A of Beijing Jinhai Lake International Convention & Exhibition Center. The event attracted approximately 300 on-site participants and over 440,000 online viewers, with topic-related clicks about 100 million. International young scholars engaged in lively discussions on cutting-edge topics such as ecological protection and innovation in agri-food system transformation.



Highlights

The opening remarks provided direction for agricultural development and inspired youth participation. Kenneth M. Quinn highlighted the challenges of food security amidst global population growth and encouraged young people to embrace agricultural innovation. LIU Lin presented Pinggu's agricultural technology achievements and extended a warm invitation to young entrepreneurs. Shakuntala Haraksingh Thilsted advocated collaboration among youth to advance agricultural development. YANG Zhi motivated young people to contribute to solving global agricultural issues.

The main speeches focused on three themes. From the youth perspective, Jazib Javed shared insights on wheat research, and XI Boyuan discussed the role of butterflies in climate monitoring. In the area of youth guardianship, SHI Longlong explained the connection between martial arts and farming, while ZANG Xiayun introduced the role of earthworms. Under youth actions, Wu Song presented on farm ecosystem construction, and Mahmoud Mohamed Ali elaborated on bioenergy research. Lastly, the United Nations Youth Representative advocated for building sustainable food systems, and guests wrote "Commitment Cards" to support the transformation of agri-food systems.



Forum Outcomes

This forum promoted international exchange and collaboration in agriculture, uniting various groups to advance agricultural development. The innovative ideas and achievements shared by young participants brought new forces to agricultural innovation.



06 Thematic Forum

9 Thematic Forum: Agrifood Industry Innovation and Investment Forum



Overview

On October 10, 2024, from 9:00 AM to 5:30 PM, the Agrifood Industry Innovation and Investment Forum was held at Hall H of Beijing Jinhai Lake International Convention & Exhibition Center. The online live broadcast attracted 236,800 viewers, while 350 people attended in person. The forum's topics generated 80 million clicks, with participants from academia, agriculture, food, and intelligent technology industries coming together to explore new opportunities for innovation and investment in the agrifood sector.



Highlights

The morning session focused on "Climate Change and Future Investment Opportunities for AgriFood." Aalt Dijkhuizen, former president of Wageningen University & Research, the Netherlands, pointed out the challenges facing the agrifood industry, such as making the most of existing resources and "unlocking the unknown." He emphasized the role of the "Golden Triangle" in driving agricultural innovation. HUANG Dejun, Chairman of AGPE Fund Investment Management Co., Ltd., analyzed trends in agricultural technology investments. JIANG Afang from the China Academy of Information and Communications Technology released the "China Digital Agriculture Industry Map," providing guidance for industry development, followed by innovation roadshows for related projects.

The afternoon session shifted the topic to "AI Empowers the Transformation of AgriFood Systems." Aidan Connolly, President of Agritech Capital, highlighted the importance of artificial intelligence in improving agricultural efficiency. LIU Dan from Huawei, QIN Jun from Muyuan, and other guests shared application cases of AI in breeding, livestock farming, and other areas. Several projects showcased innovative solutions, offering new ideas for the development of agricultural innovation.



Forum Outcomes

The forum facilitated the exchange of technological innovation and investment, opening up new investment opportunities for the agricultural sector and advancing the process of agricultural modernization.



06 Thematic Forum

10 Thematic Forum: International AgriFood Exchange and Cooperation Forum



Overview

On October 10, 2024, from 1:30 PM to 5:00 PM, the International AgriFood Exchange and Cooperation Forum was held at the Ballroom A of Beijing Jinhai Lake International Convention & Exhibition Center. The event had over 190 participants in person, with more than 92,200 online views. Diplomatic representatives and chamber of commerce delegates from major agricultural countries came together to engage in in-depth discussions on this topic.



Highlights

In the opening remarks, DI Tao, the leader from Pinggu District, introduced China and Pinggu's achievements and plans in agricultural technology; ZHANG Bing, China's Representative to the United Nations World Food Programme (WFP), discussed the impact of climate change on food security and response strategies; and TAO Haidong, Deputy Director of the Beijing Municipal Bureau of Commerce, provided an update on the "Two Zones" construction.

During the keynote speeches, guests from different countries shared their agricultural development strategies and cooperation intentions. Carlos Ernesto Augustin, Vice Minister of Ministry of Agriculture, Livestock and Food Supply (MAPA) of Brazil, introduced the degraded pastureland restoration program and expressed hopes for deeper cooperation with China. Alshahat Abdelbar Ghatoury, Director General of Customs of Egypt, highly praised China's agricultural innovations and shared Egypt's agricultural initiatives. Jean Jacques Mbonigaba Muhinda, AGRA Regional Director, called for increased agricultural productivity in Africa.

In the closing remarks, ZHAI Huqu, former President of Chinese Academy of Agricultural Sciences, looked ahead to the prospects of China's international agricultural cooperation.



Forum Outcomes

This forum successfully promoted the exchange of technological innovations, expanded market cooperation, and integrated policy resources, providing strong support for the development of the agricultural technology sector and helping the industry reach new heights.



Thematic Forum

12 Thematic Forum: AgriFood Business Forum



Overview

On October 10, 2024, from 1:30 PM to 6:00 PM, the WAFI 2024 AgriFood Business Forum was grandly held at the Ballroom B of Beijing Jinhai Lake International Convention & Exhibition Center. The forum was organized by the World Business Council for Sustainable Development (WBCSD) and the MBA Education Center of China Agricultural University, with support from international organizations such as CASCA, FOLU, and FAIRR. The event attracted global industry elites, and the online views exceeded 20 million, showing its wide-reaching influence.



Highlights

In the opening remarks, Li Zitong, the Leader from Pinggu District, shared the agricultural technology innovation achievements of Pinggu District and invited guests to visit. Following this, several industry leaders delivered keynote speeches. Tom Williams, Director of Agriculture and Food at WBCSD, emphasized the importance of food system reform and Scope 3 emissions reduction. Alexandra Brand from Syngenta Group introduced the company's practices in agricultural innovation and emissions reduction. YUAN Hebin from Muyuan Foods shared the company's green and low-carbon development model. Additionally, representatives from Rabobank, Tongyi Carbon Neutral Technology, and other companies discussed their initiatives to promote sustainable agricultural development. During the forum, CHEN Jing from Business Engagement at WBCSD released the Chinese version of the "Scope 3 Action Agenda for the AgriFood Sector," providing guidelines for companies on emissions reduction. In two high-level dialogues, representatives from companies such as Nestlé and Bayer engaged in in-depth discussions on building climate resilience in the supply chain and enabling sustainable transformation through green finance. They shared experiences and explored opportunities and challenges in the industry's development.



Forum Outcomes

This forum explored transformation strategies for the agrifood industry under climate change, covering key areas such as carbon-neutral practices, emission reduction solutions, and innovation empowerment. Through the exchange of insights, the summit provided participants with new ideas and successful experiences, strengthening communication and collaboration between enterprises. Also, it promoted the spread of sustainable development concepts in the agrifood sector, clarified the responsibilities and directions for companies in addressing climate change and ensuring food security, and played a positive role in advancing the future development of the global agrifood industry.

06 Parallel Session

11 Parallel Session: Alternative Proteins and Agrifood Systems Transformation



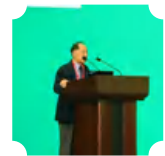
Overview

On October 10, 2024, from 8:30 AM to 12:20 PM, the meeting on the Alternative Proteins and Agrifood Systems was held in Grand Ballroom B of the Beijing Jinhai Lake International Convention & Exhibition Center. Approximately 210 participants attended in person, and the online viewership exceeded 232,700. Academic experts, entrepreneurs, and investors gathered to focus on the development of the alternative protein industry.



Highlights

During the opening remarks, DI Tao, Deputy Secretary of the Pinggu, highlighted that food security is a core issue of national governance and emphasized the significant role of the alternative protein industry in ensuring food security and promoting the transformation of agrifood systems.



In the keynote dialogue session, guests engaged in in-depth discussions addressing challenges in new protein technology research and commercialization, market expansion, and policy regulations. GUO Shuntang from China Agricultural University introduced the development of the plant protein industry, while Jeroen Boersma, Head of Product & Technology of Vow shared advancements in cultured meat. They thoroughly analyzed the current state of industry development, challenges related to costs, market acceptance, and policies and regulations, actively exploring solutions. Additionally, the meeting held a ceremony to establish the Beijing Alternative Protein Foods Industry Alliance, consolidating various resources to create a strong collective force for industry development.



Forum Outcomes

The meeting effectively promoted collaboration among industry, academia, and research institutions, providing new ideas and directions for the development of the alternative protein industry and accelerating the transformation of agrifood systems toward sustainability.



06 Parallel Session

13 Parallel Session: Forum on Women in Agrifood (FoWA)



Overview

On October 10, 2024, from 1:30 PM to 6:40 PM, the Forum of Women in Agrifood (FoWA) was held at the multifunctional hall of Yuxin Hotel in Pinggu, Beijing. The online livestream attracted 126,400 viewers, while 200 participants attended in person. Numerous female experts and industry leaders gathered to discuss the important roles of women in the agricultural sector.



Highlights

During the opening remarks, SONG Li, Secretary of the All-China Women's Federation, pointed out the significant position women occupy in the global agricultural food system and shared the practices of the Federation in promoting women's participation in agricultural development. Lindiwe Majele Sibanda, Chairman, Board Directors of the CGIAR, emphasized the driving role of gender in agrifood reforms.

In the keynote speech phase, Nicoline de Haan, Director of the CGIAR GENDER Impact Platform, and other guests delved deeply into gender equality and women's development, proposing views on quantifying women's agricultural labor. In the dialogue section, guided by the host, guests focused their discussions on the power of women in agrifood enterprise innovation and agricultural science and technology innovation. They shared their experiences and suggested that the women's federation should strengthen support to enhance the understanding of the critical roles women play in agrifood, promoting greater female involvement in the agrifood cultural sector.



Forum Outcomes

The forum significantly elevated the status and participation of women in agrifood, played a positive role in promoting cooperation for gender equality and agricultural development, and created more opportunities for women in the agrifood field.



06 Parallel Session

15

Parallel Session : Collaboration to Cooperation in Agricultural Science and Technology Between China and Africa: Challenges and Opportunities



Overview

On October 11, 2024, from 7:00 PM to 9:30 PM, the meeting on Collaboration to Cooperation in Agricultural Science and Technology Between China and Africa: Challenges and Opportunities was held in Ballroom A of the Beijing Jinhai Lake International Convention & Exhibition Center. The meeting involved 100 participants in person, with over 108,000 online views, and brought together experts, scholars, industry representatives, and entrepreneurs from China and Africa focusing on agricultural science and technology cooperation topics.



Highlights

In the opening remarks, Keynote Speech segment, SUN Qixin, President of China Agricultural University, shared successful cases of China assisting African agricultural development, while Simeon Ehui, Director-General of the International Institute of Tropical Agriculture (IITA), affirmed the cooperative value between China and Africa. All parties showcased existing results of China-Africa agricultural cooperation and outlined future cooperation plans.

During the keynote speeches, several guests discussed cooperation strategies and directions from different perspectives, offering new ideas for China-Africa agricultural collaboration. In the roundtable dialogue, participants eagerly discussed two pivotal themes: China-Africa Agricultural Science and Technology Cooperation and Talent Exchange, and China-Africa Agricultural Investment and Industrial Development. They shared past cooperation results, analyzed challenges such as weak infrastructure, and envisioned future cooperation prospects, discussing important topics like public-private cooperation models, talent exchange mechanisms, and optimizing investment strategies to drive greater breakthroughs in China-Africa agricultural cooperation.

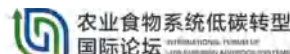


Forum Outcomes

cultural science and technology cooperation, enhancing mutual understanding and cooperation between the two sides, and laying a solid foundation for deeper development of agricultural science and technology cooperation between China and Africa.

2024 WAFI Partners

1 Main Partners



2024 WAFI Advisory Committee

2 WAFI Advisory Committee

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President Emeritus,
World Food Prize
Foundation



SUN Qixin
President,
China Agricultural University

VICE-CHAIRS



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SECRETARY GENERAL



FU Wenge
Professor, Director of the
MBA Education Center, China
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Ann Derwin	Ambassador of Ireland to the Netherlands
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Erik Fyrwald	Former CEO, Syngenta Group
Diane Holdorf	Executive Vice President, WBCSD
Rattan Lal	Distinguished University Professor of Soil Science and Director of the CFAES Rattan Lal Center for Carbon Management and Sequestration, The Ohio State University, The World Food Prize 2020 Laureate

Rajul Pandya-Lorch	Former Director of Communications and Chief of Staff, IFPRI
QIN Yinglin	Chairman, Muyuan Foods Co., Ltd.
Reza Rasoulpour	Global Regulatory Lead for Crop Protection, Corteva Agriscience
SHAO Genhuo	Chairman, Da Bei Nong Group
TANG Hailong	Secretary, CPC Beijing Pinggu District Committee
Shakuntala Haraksingh Thilsted	Director of Nutrition, Health and Food Security Impact Area Platform of CGIAR, The World Food Prize 2021 Laureate
Maximo Torero	Chief Economist, FAO
Ben Valk	Executive Director, Rabobank
Simon Winter	Executive Director, Syngenta - Foundation for Sustainable Agriculture
ZHANG Fusuo	Academician, Chinese Academy of Engineering
ZHAO Chunjiang	Academician, Chinese Academy of Engineering
LIU Chunxi	CEO, Inner Mongolia Yili Industrial Group Co., Ltd.
LIU Yonghai	Chairman, New Hope Group
LI Xiaoyun	Senior Chair Professor, China Agricultural University
LI Defa	Academician, Chinese Academy of Engineering

WAFI2024 Media

1 WAFI Advocacy Data

CCTV Broadcast of 11 News Segments ↑



The broadcasts included a total of 11 news segments related to WAFI2024 across six major channels, amounting to over 22 minutes of airtime. Furthermore, conference news has also been disseminated via the official websites of the State Council, the Ministry of Agriculture and Rural Affairs, the Ministry of Commerce, and the Beijing Municipal Government.



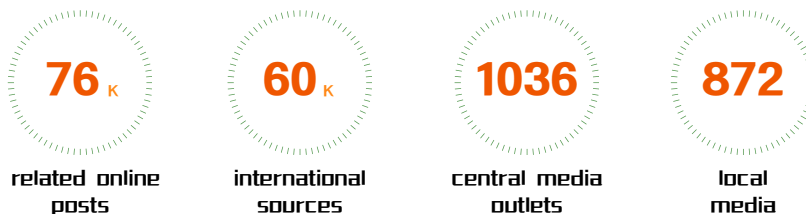
Mainstream National Newspapers 11 Articles Published ↑



WAFI has garnered significant attention, being featured 12 times across six major mainstream national newspapers, including the prestigious People's Daily. The publications included one article in the People's Daily, two in the Economic Daily, two in China Daily, one in the Science and Technology Daily, four in Farmers' Daily, and one in Legal Daily, highlighting the conference and its impact.



Total Online Engagement 1.6 Million Views ↑



According to data from the Internet Research Center at Xi'an University of Posts and Telecommunications, from July 25 to November 8, 2024, WAFI garnered over 160 million views across various platforms. During this period, there were a total of 76,000 related online posts, including 60,000 from international sources, 1,036 from central media outlets, and 872 from local media. Analyzing the heatmap reveals a consistent trend of sustained engagement and dissemination throughout the reporting period.



WAFI2024 Media

1 WAFI Advocacy Data

New Media Platforms , Over **18 Million** Views ↑

5 Top Media

Vlog

English series

China Daily

Voice of WAFI

Guangming Online

WAFI science popularization

Economic Reference Daily

Xinhua News Agency dispatched its top reporter, Zhang Yang, along with three teams, to cover the conference through engaging vlogs, resulting in over 18 million views for their short videos. Additionally, content was produced by platforms such as Dongfang Zhenxuan, Farmers' Daily, Huanqiu Network, China Agricultural University, and Pinggu. China Daily released an English series, while Guangming Online created a series titled "Voice of WAFI." Economic Reference Daily also contributed with a WAFI science popularization series.



Live Streaming Contribution - Over **80 Million** Views! ↑

51

live streaming sessions

66.42

Million

viewership

12

major platforms

15

conference sessions

A combined effort from Guangming Online, China Agricultural University, Pinggu, and the organizing committee has resulted in 51 live streaming sessions. Guangming Online alone conducted 36 sessions, attaining a viewership of 66.42 million. Additionally, major platforms such as Beijing Television, Xinhua News Agency, Baidu, Sina News, Sina Weibo, Youku, Kuaishou, and Douyin collectively live-streamed 15 conference sessions, generating over 20 million views.



WAFI has received extensive coverage from mainstream media across multiple countries, further enhancing its global influence!



WAFI has attracted significant attention from various global media outlets, including Indonesia's National News Agency, Egypt's Sada El Balad News, Turkey's Haberler, California's Bakersfield News, Global Communications Agency, Japan's Kyodo News, Shinano Mainichi Shimbun, Shimotsuke Shimbun, and Kii Minpo, all of which have published articles about WAFI2024.

中国日报 | 客户端



Expert urges developed nations to lead action in

Never Ending WAFI

1 WAFI Series Events



1. WAFI Innovation Roadshow

The WAFI Innovation Roadshow is a dynamic platform showcasing agricultural technology innovations and agribusiness startups. By uniting global experts, entrepreneurs, and investors, it highlights technological advancements, investment trends, and fosters industry collaboration. In 2024, six roadshows featured 50+ projects, driving progress in agrifood transformation.

First Roadshow: Experts from Tsinghua University, China Agricultural University, and Beijing University of Technology presented eight projects on smart agriculture and precision fertilization.

Second Roadshow: Six professors from China Agricultural University shared research breakthroughs, strengthening academia-industry collaboration.

Third Roadshow: Focused on Pinggu's regional agricultural innovations, fostering partnerships to enhance local development.

Fourth Roadshow: Six projects addressed sustainable practices, including waste utilization, carbon cycling, and urban agriculture.

Fifth & Sixth Roadshows (WAFI2024 Summit): Seven startups presented innovations in new proteins, sustainable agriculture, and supply chain management. A panel including Aalt Dijkhuizen (Wageningen University), James Sharp (UK Agri-Tech), and Aidan Connolly (IFAMA) provided expert evaluations.

At WAFI2024, six Innovation Awards honored leaders such as Dr. ZHAO Liping (Rutgers University), Muyuan Group, Tongyi Carbon Neutral Technology, OBOYA Group, CFT Africa, and Beijing Yuqin Experimental Base for groundbreaking contributions.

Moving forward, WAFI will expand the Roadshow to advance policy-industry-academia-research integration, emphasizing innovation in technology, management, business models, and policy. We invite global stakeholders to collaborate and share transformative solutions for agricultural and food systems.



Never Ending WAFI

1 WAFI Series Events



2. WAFI Summit Dialogue

WAFI2024 convened global agrifood experts to address critical topics including agrifood innovation and international collaboration. The event featured seven Summit Dialogues with 25 specialists who shared insights on domestic and global agrifood challenges.

In the opening session, China Agricultural University President SUN Qixin and Irish Ambassador Ann Derwin emphasized strengthening bilateral agricultural partnerships, yielding actionable recommendations for global cooperation. Professor FAN Shenggen and World Food Prize Foundation President Emeritus Kenneth Quinn examined strategies to address food security challenges, underscoring the need for collaborative solutions.

Professor FU Wenge facilitated discussions with seven entrepreneurs, focusing on agri-tech innovation pathways and market opportunities to advance industry collaboration. The China-Africa Cooperation Forum included Uganda's Agriculture Minister Frank Tumwebaze and six African university presidents, exploring Sino-African agricultural collaboration and women's roles in higher education to foster gender equality and partnership opportunities.

A session co-hosted with China Agricultural University's Institute of Global Food Economics and Policy featured WTO ex-Director-General Pascal Lamy, who analyzed evolving trends in international agricultural trade.

WAFI2024 established a high-level platform for global agrifood discourse, with plans to expand Summit Dialogues, share innovative insights, and build a comprehensive knowledge repository to drive sector-wide collaboration and transformative solutions.



Never Ending WAFI

1 WAFI Series Events



3. WAFI RUN: Low-Carbon Run

WAFI RUN 2024, a flagship initiative of the WAFI Forum, promoted low-carbon production and sustainable living through a pioneering sporting event. Held October 12 at Beijing's Jinhai Lake International Convention Center, it was hosted by ZOU Rongjie (Shanghai Saicheng Sports) and inaugurated by WAFI Advisory Committee Secretary-General Professor FU Wenge.

Prior to the run, agricultural leaders including Pinggu Government Secretary TANG Hailong, World Food Prize Foundation President Emeritus Kenneth Quinn, and China Agricultural University President SUN Dixin joined over 100 representatives in pledging to advance low-carbon practices globally. A symbolic launch banner, auctioned during the October 11 Business Matching Night, was secured by DBOYA Group, amplifying visibility for the initiative.

The event set a national precedent by merging sports with sustainability, drawing participation from 23 enterprises. Professor FU awarded these organizations "Low-Carbon Run Support Unit" certificates, bolstering the initiative's credibility. Attendees demonstrated unified commitment to advancing eco-conscious practices.



Marking China's first low-carbon running event, WAFI RUN 2024 established a model for promoting sustainability through sport. WAFI plans recurring editions to drive green agriculture, sustainable living, and global low-carbon adoption across industries and communities, fostering collaborative action for a resilient future.

Never Ending WAFI: Building a Sustainable Future Together

Building on the success of WAFI2023, WAFI2024 and existing frameworks, WAFI aims to establish a diverse and inclusive platform for communication and sharing through the creation of the "WAFI Community." This initiative will connect global agrifood leaders and bridge established enterprises with startups, driving innovation and unlocking investment opportunities. By fostering resource sharing and industry collaboration, WAFI aims to transform agrifood systems. With the vision of "Innovating Agrifood, Sharing Future," WAFI is dedicated to forging a sustainable future for people and the planet.

10

WAFI2025

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October 12–15, 2025

Resilient Food Supply For AgriFood Systems Transformation

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Explore More About
WAFI



Be a Key Partner in
Shaping the Future of
Agrifood Innovation