

List of FSS Briefs by Partners of Scientific Group

“Food Systems Summit Briefs” are invited papers by the Scientific Group in support of the Summit agenda setting.

These papers are typically contributed by researchers from partners of the Scientific Group after partnership has been agreed by Scientific Group Leadership (Chair and Vice Chairs). The papers are authored by researchers in the Partner organizations. Members of the Scientific Group may serve as co-authors.

“**Food Systems Summit Briefs**” in cooperation with the Scientific Group for the UN Food Systems Summit

(preliminary list, continuously being updated, May 03, 2021)

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A. Modelling Food Systems Transformations

| Title/Working Title | Authors/Partners | Status |
|--|--|------------------|
| Quantitative Assessments of Synergies and Trade-offs amongst the UN Sustainable Development Goals | Hugo Valin, Thomas Hertel, Benjamin Bodirsky, Tomoko Hasegawa, Elke Stehfest | Ongoing |
| The Bioeconomy and Food Systems Transformation by Eduardo Trigo, Hugo Chavarria, Carl Pray, Stuart J. Smyth, Agustin Torroba, Justus Wesseler, David Zilberman, Juan F. Martinez (February, 17, 2021) | ICABR, IICA | Published |
| The Food System Transition | Global Panel on Food, Agriculture for Nutrition | Ongoing |

B. Science, Technology, and Innovation Actions

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| The Role of Science, Technology and Innovation for Transforming Food Systems Globally by Robin Fears, Claudia Canales (April 2021) | Inter-Academy Partnership (IAP) and University Consortia | Published |
| Science policy actions and implementation strategies for food systems improvement | CGIAR, University Consortia IFPRI | Ongoing |

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| Agricultural technologies and practices, including digital technologies. Bioscience opportunity | IFPRI Research in Private Sector | Ongoing |
| Youth inclusion for food systems innovation | Global Young Academy, University Consortia in regions; Student Bodies | Ongoing |
| Leveraging data, models & farming innovation to prevent, prepare for & manage pest incursions: Delivering a pest risk service for low-income countries | CABI | Ongoing |
| Food Systems Innovation Hubs in Low-and-Middle-Income Countries by Kalpana Beesabathuni, Sufia Askari, Madhavika Bajoria, Martin Bloem, Breda Gavin-Smith, Hamid Hamirani, Klaus Kraemer, Priyanka Kumari, Srujith Lingala, Anne Milan, Puja Tshering, Kesso Gabrielle van Zutphen, Kris Woltering (March 26, 2021) | Sight and Life Foundation, Johns Hopkins Bloomberg School, Children's Investment Fund Foundation, Food systems for the Future Institute | Published |
| A New Paradigm for Plant Nutrition by Achim Dobermann, Tom Bruulsema, Ismail Cakmak, Bruno Gerard, Kaushik Majumdar, Michael McLaughlin, Pytrik Reidsma, Bernard Vanlauwe, Lini Wollenberg, Fusuo Zhang, Xin Zhang (February 10, 2021) | Scientific Panel on Responsible Plant Nutrition | Published |
| A Whole Earth Approach to Nature Positive Food: Biodiversity and Agriculture | CGIAR/CCAFS | Ongoing |
| Delivering climate change outcomes with agroecology: evidence and actions needed | CGIAR/CCAFS | Ongoing |
| C. Actions for Equity, Inclusiveness and Nutrition and Health | | |
| Gender equity in food systems | IFPRI, Gender FSS | Ongoing |
| Indigenous food systems – lessons and opportunities | UN Permanent Forum on Indigenous Issues | Ongoing |
| Marginal areas and indigenous people – Priorities for research and action by Sayed Azam-Ali, Hayatullah Ahmadzai, Dhruvad Choudhury, Ee Von Goh, Ebrahim Jahanshiri, Tafadzwanashe Mabhaudhi, Alessandro Meschinelli, | Association of International Research and Development Centers for Agriculture (AIRCA) | Published |

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| Albert Thembinkosi Modi, Nhamo Nhamo, Abidemi Olutayo (April 5, 2021) | | |
| Urban food systems transformation | Cirad Japan - Ministry of Agriculture, Forestry and Fishery (MAFF) Sight and Life | Ongoing |
| Policy for inclusive transformation of smallholder farming and innovation in small farm agriculture; | IFPRI | Ongoing |
| Fruits and vegetables for healthy diets: Priorities for food system research and action by Jody Harris, Bart de Steenhuijsen Piters, Stepha McMullin, Babar Bajwa, Ilse de Jager, and Inge D. Brouwer (March 2021) | Association of International Research and Development Centres for Agriculture (AIRCA) | Published |
| Safeguarding and using fruit and vegetable biodiversity | World Vegetable Centre | Ongoing |
| Assuring food and nutrition systems functioning in emergencies | Global Panel on Food and agriculture for nutrition | Ongoing |
| Addressing Food Crises in Violent Conflicts by Birgit Kemmerling, Conrad Schetter, Lars Wirkus (April 2021) | BICC | Published |
| Pandemics / Covid19 and Food system resilience | Global Panel on Agriculture and FS and Nutrition | Ongoing |
| In the age of pandemics, connecting food systems and health: a Global One Health approach by Gebbiena M. Bron, J. Joukje Siebenga, Louise O. Fresco (February 15, 2021) | Wageningen University and Research | Published |
| D. <u>Actions for Sustainable Resource Use and Foresight</u> | | |
| Managing the nexus - food, energy, water, soil for sustainable food systems and agro-ecology approaches | United Nations University (UNU), Scientific Panel for Responsible Plant Nutrition, IIASA, CIFOR/ICRAF | Ongoing |
| Water for Food Systems and Nutrition | IFPRI, IWMI, SLU, AUC | Ongoing |

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| Protecting and utilizing (agro) biodiversity | Global Crop Trust, AIRCA, CIFOR/ICRAF, Bioversity | Ongoing |
| Climate Change and Food Systems | ZEF, Cornell University, Lund University, PIK, AgMIP, Uni of Vic | Ongoing |
| Reduction of Food Loss and Waste – The Challenges and Conclusions for Actions Findings and Recommendations for Actions of an international Conference by the Pontifical Academy of Sciences with the Rockefeller Foundation by Joachim von Braun, Marcelo Sánchez Sorondo and Roy Steiner (February 15, 2021) | Pontifical Academy of Science and Rockefeller Foundation and international research communities (2020 expert consultation) | Published |
| Sustainable livestock systems and global protein strategies, and bioeconomy | A group of university CGIAR coordinated by Mario Acosta | Ongoing |
| The Vital Roles of Blue Foods in the Global Food System by Jim Leape, Fiorenza Micheli, Michelle Tigchelaar, Edward H. Allison, Xavier Basurto, Abigail Bennett, Simon R. Bush, Ling Cao, Beatrice Crona, Fabrice DeClerck, Jessica Fanzo, Jessica A. Gephart, Stefan Gelcich, Christopher D. Golden, Christina C. Hicks, Avinash Kishore, J. Zachary Koehn, David C. Little, Rosamond L. Naylor, Elizabeth R. Selig, Rebecca E. Short, U. Rashid Sumaila, Shakuntala H. Thilsted, Max Troell, Colette C.C. Wabnitz (April 15, 2021) | Stanford University, Stockholm Resilience Centre, EAT | Published |
| <u>E. Investment, Finance, Trade and Governance actions</u> | | |
| Ending Hunger by 2030 – policy actions and costs by Joachim von Braun, Bezawit Beyene Chichaibelu, Maximo Torero Cullen, David Laborde, Carin Smaller (March 4, 2021; reprint from Oct.13, 2020) | ZEF, CERES, FAO, IFPRI, IISD Cornell University | Published |
| Mobilizing the Finance for achieving Summit agenda (SDG2 goals) | IFPRI | Ongoing |
| Developing the trade agenda and resilient food systems | FAO | Ongoing |

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| Pricing in support of efficient, and resilient food systems (incl. addressing subsidy and distortion issues) | OECD (Subsidies) | |
| Governance of Food System | IFPRI | Ongoing |
| Public and corporate policies facilitating food industries' contribution to food systems improvement | | Ongoing |
| F. <u>Actions in Regions and Countries</u> | | |
| <p>Policy options for food systems transformation in Africa – from the perspective of African universities and think tanks</p> <p>by Fadi Abdelradi, Assefa Admassie, John Asafu Adjaye, Miltone Ayieko, Ousmane Badiane, Katrin Glatzel, Sheryl Hendriks, Mame Samba Mbaye, Fatima Ezzahra Mengoub, Racha Ramadan, Tolulope Olofinbiyi, Simbarashe Sibanda (April 2021)</p> | African think tanks group, facilitated by Akademiya2063 and Malabo Montpellier Panel; FARA African Academies of Sciences | Published |
| <p>The Role of Science, Technology, and Innovation for Transforming Food Systems in Africa</p> <p>by Sheryl L. Hendriks, Endashaw Bekele, Thameur Chaibi, Mohamed Hassan, Douglas W. Miano and John H. Muyonga (April 2021)</p> | IAP, NASAC | Published |
| <p>The Role of Science, Technology and Innovation for Transforming Food Systems in Latin America and the Caribbean</p> <p>by Elizabeth Hodson de Jaramillo, Eduardo J. Trigo and Rosario Campos (April 2021)</p> | IAP, IANAS | Published |
| <p>The Role of Science, Technology, and Innovation for Transforming Food Systems in Asia</p> <p>by Paul J Moughan, Daniel A Chamovitz, S Ayyappan, Morakot Tanticharoen, Krishan Lal, Yoo Hang Kim (April 2021)</p> | IAP, AASSA | Published |
| <p>The Role of Science, Technology, and Innovation for Transforming Food Systems in Europe</p> <p>by Claudia Canales, Robin Fears (April 2021)</p> | IAP, EASAC | Published |

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| <p>Transforming Chinese Food Systems for both Human and Planetary Health by Shenggen Fan, Jikun Huang, Fusuo Zhang, Wenhua Zhao, Hongyuan Song, Fengying Nie, Yu Sheng, Jinxia Wang, Jieying Bi and Wenfeng Cong (April 18, 2021)</p> | <p>CDC (National Institute for Nutrition and Health (CAAS, Peking University (CCAP) & China Agricultural University, Research Center for Rural Economy under the Ministry of Agriculture</p> | <p>Published</p> |
| <p>Russia food systems and innovations</p> | <p>Russian Academy of Sciences, and National Research University, Inst. For Agric. Science</p> | <p>Ongoing</p> |
| <p>Food System in India. Challenges, Performance and Promise by Ashok Gulati, Raj Paroda, Sanjiv Puri, D. Narain, Anil Ghanwat (March 30, 2021)</p> | <p>ICRIER</p> | <p>Published</p> |
| <p>The Role of Science, Technology, and Innovation for Transforming Food Systems in Europe by Claudia Canales, Robin Fears (April 2021)</p> | <p>IAP, EASAC</p> | <p>Published</p> |
| <p>European food systems paper</p> | <p>FACCE</p> | <p>Ongoing</p> |