

As the world's population grows and incomes rise, how can we ensure universal access to plentiful, nutritious and affordable food while safeguarding the environment? Achieving global food security in the 21st century requires an understanding of interconnected issues, including energy, water, climate, health, technology, education, gender, national security and governance.

WE ARE

The Center on Food Security and the Environment (FSE) is a collaborative, interdisciplinary team from diverse fields, including economics, earth science, medicine, law, education, engineering and political science. The center is a joint effort of the Stanford Woods Institute for the Environment and the Freeman Spogli Institute for International Studies. Center scholars implement an applied research portfolio, a robust teaching program, and direct science and policy advising.

WE REACH

The center connects with policymakers, governments, international development organizations, think tanks, students, future agricultural and environmental leaders, private sector firms and the media. As the world's population and income grows, how can we ensure universal access to plentiful, nutritious and affordable food while safeguarding the environment?

Mission

The Center on Food Security and the Environment addresses critical global issues of hunger, poverty and environmental degradation by generating vital knowledge and policy-relevant solutions.

Goals

- Design new solutions to help solve global hunger and environmental degradation through an interdisciplinary research portfolio that evolves with the most important issues in food security
- Be a premier destination for students, faculty and scholars interested in food and nutrition security, intensive food systems, climate impacts, food-energy linkages and policy interventions
- Emerge as the go-to center for science and policy advice on global food security issues



Core Research Themes

- Water resources
- Aquaculture and fisheries
- Tropical oil crops
- Climate impacts and adaptation
- Crop and livestock systems
- Food, nutrition and health
- Data science for food security

For more information:

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Research Highlights

- Climate change, nutrition and population health
- Poverty alleviation through sustainable palm oil production
- Solar market gardens as a tool for rural development in Benin
- The importance of marine fisheries and ecosystems for food security in China
- Climate and global poverty
- Remote sensing to improve aid targeting and effectiveness
- Lead-contaminated topsoil and food in rural Bangladesh
- Globalization, Trade and the Environment: The Case of Brazil
- Climate and agriculture: models, impacts and adaptation strategies
- Analyzing the role of subsidies in growing the Kenyan aquaculture sector
- Understanding fertilizer effectiveness and adoption in Zambia

FSE is also home to the Rural Education Action Program (REAP), dedicated to improving education and health outcomes for children in rural China.

