

# Global Food Security *and* Agriculture

Enhancing food security, strengthening resilience, and alleviating poverty



[www.rti.org/food-security](http://www.rti.org/food-security)



# WHAT WE DO

RTI International is both a global research institute and a leading international development organization. We combine these powerful capabilities with those of our partners to co-create smart, shared solutions for a more prosperous, equitable, and resilient world.

One of RTI's core areas of expertise is supporting global food systems to improve food security, spur inclusive and sustainable economic growth, and reduce the impact of climate change.



**WE EMPOWER** actors throughout the food system—from smallholder farmers to micro, small, and medium enterprises (MSMEs) to government ministries—to overcome market constraints and inefficiencies, increase productivity and sales, and inform policy.



**WE STRENGTHEN** the resilience of systems, communities, and people to better manage shocks and adapt to changing circumstances.



**WE FACILITATE** access to markets and finance that enables farmers and MSMEs—including those owned by women and youth—to start or grow their businesses.



**WE INTEGRATE** nutrition solutions that improve the availability, accessibility, and affordability of safe, nutritious food, especially for women and children.



**WE LEVERAGE** innovative tools to generate and utilize data that empower farmers to reduce risk, improve production, and adopt climate-smart agriculture (CSA) practices.



# THE RTI DIFFERENCE

RTI combines the research expertise of a university, the innovation and implementation capabilities of a private enterprise, and the mission focus of a nonprofit.

## ANALYTICAL EXPERTISE

We strive to build the evidence base around, and develop innovative solutions to, food security, nutrition, and market systems challenges facing countries around the world.

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RTI internally funds research on topics ranging from exploring the resilience capabilities of MSMEs to reevaluating the connection between agriculture and nutrition with a resilience lens. One of the many tools we have developed is the Food Environment Toolkit, which we use to align food systems to locally available nutritious foods that match consumer preferences.

## CLIMATE-SMART SOLUTIONS

We strengthen food systems to reduce greenhouse gas emissions while simultaneously helping improve productivity and resilience in a more volatile and changing climate. We take a long-term view of climate impacts, recognizing that today's solutions must be effective for decades to come.

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In West Africa, we provide training to farmers on utilizing GPS mapping to create local crop data, which we combine with global climate data. We analyze and disseminate the findings to farmers to enhance their knowledge of climate impacts affecting their agricultural productivity. Farmers are empowered to use this information to strengthen their resilience against the effects of climate change.

## EMPOWERING LOCAL PARTNERS

We promote local voices in defining development challenges while co-creating shared solutions through strong partnerships. We are committed to learning and adapting as we build long-term relationships with local partners around the world.

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In Ethiopia, we are partnering with local organizations to implement locally led, market systems-based approaches that strengthen systemic capacity, incentivize private sector investment in underserved communities, promote innovation, and foster key policy reforms that address market failures.



## Feed the Future Ethiopia Transforming Agriculture

- Advancing Ethiopia's food and agriculture systems to be more competitive, inclusive, resilient, and sustainable.
- Achieving a 30% increase in the availability of nutritious foods and sustainably improving diets of millions of men, women, and children.
- Increasing household incomes by as much as 40% by applying improved management practices and technologies and catalyzing local private sector growth.

## Feed the Future Liberia Food Security, Nutrition, and Resilience

- Partnering with cooperatives, farmers groups, and the private sector to reach 15,000 farmers to increase incomes, adopt CSA approaches, and improve nutritional outcomes.
- Strengthening agricultural practices, diversifying livelihoods, and improving market access to nutritious foods year-round, while prioritizing women and youth groups.

## Feed the Future Mali Sene Yiriwa

- Strengthening farmer cooperatives to deliver inclusive, diversified nutrition extension and advisory services to better link farmers to markets.
- Increasing the adoption of CSA technologies and practices resulting in 80,000 hectares farmed with increased productivity, enhanced resilience, and reduced emissions.
- Supporting 58,000 farmers with field-based digital solutions to improve decision-making.



## USAID Somalia Growth, Enterprise, Employment, and Livelihoods (GEEL)

- Promoted economic growth in high-potential value chains across Somalia, including renewable energy solutions for sustainable private sector growth.
- Spurred more than \$33.5 million in new private sector capital investment and over \$51.5 million in new sales by Somali companies exporting livestock, fish, and agricultural products to create at least 24,600 primary and secondary jobs.
- Provided technical assistance to over 800 microenterprises to improve business practices, enhance productivity, and increase access to finance, with a focus on the inclusion of youth.

## Feed the Future Rwanda Kungahara Wagura Amasoko

- Increasing high-value agricultural exports by 168% to inclusively and sustainably advance economic growth.
- Creating 1,150 jobs along the targeted value chains and increasing incomes by 50% for 127,000 Rwandan households.
- Collaborating with public and private sector actors to attract and leverage financing, targeting up to \$300 million in new private investments.

## Feed the Future Senegal Dooleel Mbay

- Strengthening market systems by developing key agricultural and small ruminant value chains that support local businesses and create job opportunities.
- Reaching 170,000 households and 230,000 MSMEs through an inclusive and sustainable market systems approach to reduce poverty and increase rural incomes.
- Facilitating \$89 million in agriculture financing and leveraging new private and public investment.

## Feed the Future Kenya Crops and Dairy Market Systems (KCDMS)

- Partnered with over 4,100 local organizations to increase productivity and expand income-generating opportunities in horticulture and dairy markets in 12 counties.
- Helped market actors achieve over \$163 million in sales through access to finance, adoption of improved technologies and management practices, capacity building, ICT services, and linkages to markets, services, and technology suppliers.

# HIGHLIGHTS

Through recent projects, we have worked with local partners to:

Catalyze more than

**\$ 141  
Million**

in investment from the local  
private sector

Help more than

**3.5  
Million**

farmers apply improved  
management practices  
and technologies

Facilitate access to nearly

**\$235  
Million**

in agriculture and rural loans  
for farmers and MSMEs

## More information

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RTI International is an independent, nonprofit research institute dedicated to improving the human condition. Clients rely on us to develop solutions that demand an objective and multidisciplinary approach—one that integrates expertise across the social and laboratory sciences, engineering, and international development. We believe in the promise of science, and we are inspired every day to deliver on that promise for the good of people, communities, and businesses around the world. For more information, visit [www.rti.org](http://www.rti.org).

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