

FFAR's Research Strategy 2024-2028



**FOUNDATION FOR
FOOD & AGRICULTURE
RESEARCH**

Bold science for big challenges



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Who We Are & What We Do

At the Foundation for Food & Agriculture Research (FFAR), we envision a world in which pioneering, collaborative science provides every person access to affordable, nutritious food grown on thriving farms and ranches.

Since 2014, FFAR has been working to realize this ambitious vision by building partnerships that support bold, actionable science informed by stakeholder engagement. We fund research to fill critical knowledge gaps, develop solutions previously deemed impossible and prepare today's scientific workforce to address the food and agriculture challenges of tomorrow. Our work requires significant collaboration across the food and agriculture system to foster multidisciplinary expertise, input from stakeholders and support from a range of funding partners.

Our agile approach leverages public funds by building public-private partnerships. Congress created FFAR in

the 2014 Farm Bill and provided \$200 million with the requirement that we match each federal dollar with at least \$1 from a non-federal source. The 2018 Farm Bill provided the Foundation with \$185 million and the same matching requirement. FFAR's model greatly exceeds this matching requirement, bringing in more than \$1.40 from non-federal partners for every federal dollar allocated to research.

In addition to our successful funding model, FFAR catalyzes dynamic science by bringing multiple stakeholders together throughout the research process. Our convening capabilities and the depth of our relationships with wide-ranging stakeholders foster collaboration that is unique within the food and agriculture community. It is not every day that competitors join forces to address common challenges, yet our mission helps unusual partners work together for the common good.

Focusing on What We Do Best: Partnerships & Research



FFAR and the Innovation Center for U.S. Dairy (DMI) established the [Greener Cattle Initiative](#) in 2021 to unite partners across the public and private sectors to support pioneering research that aligns with beef and dairy industry sustainability goals to reduce enteric methane emissions. Since then, the Consortium has awarded three grants totaling \$7.2 million to address the following knowledge gaps in enteric methane mitigation:

- Testing enteric methane inhibitors and delivery methods and optimizing dietary conditions that maximize reductions in enteric methane emissions;
- Studying how diets and different methane inhibitors alter enteric fermentation and how they affect the amount of enteric methane produced; and
- Developing genomic evaluations for methane traits to selectively breed low methane emitting cows.

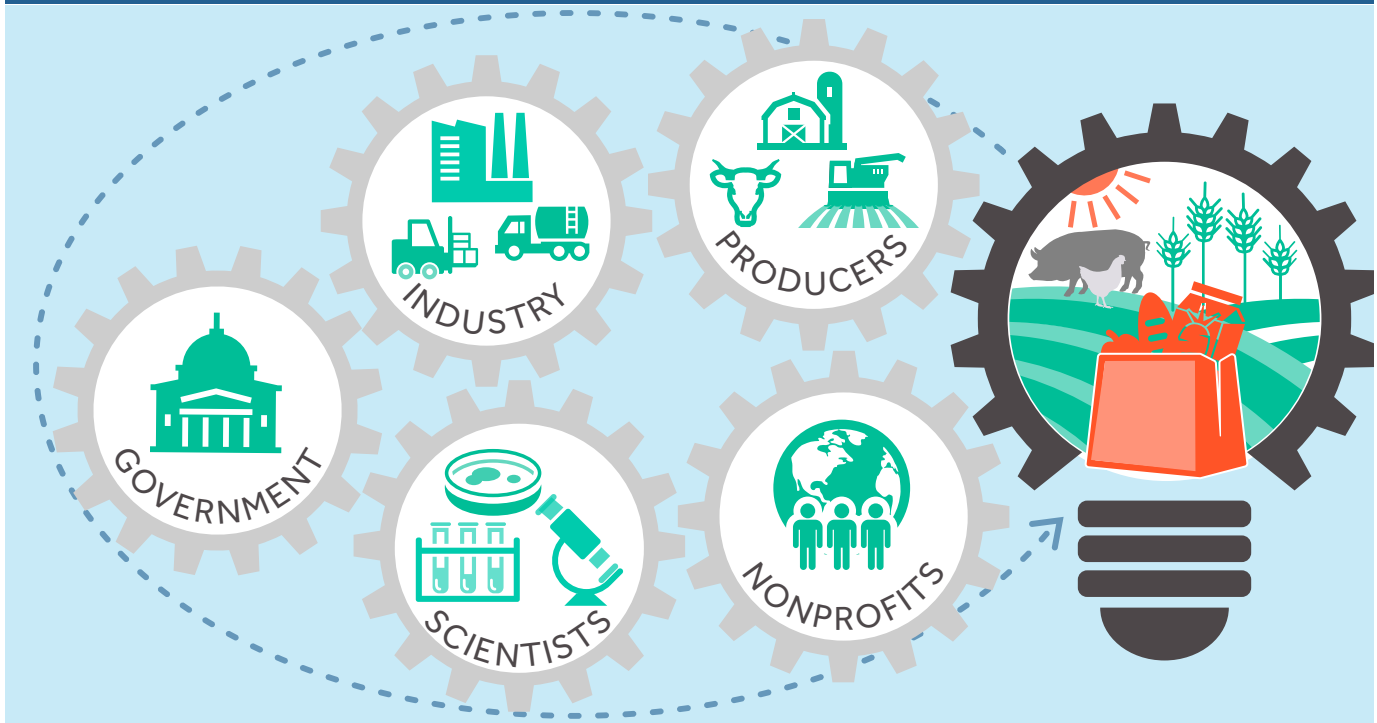
The Greener Cattle Initiative, through its collaborative public-private partnership approach, is significantly changing the research landscape around enteric methane:

1. This is the first consortium to leverage investments and accelerate research to develop scalable and commercially feasible solutions that specifically reduce enteric methane emissions.
2. The Consortium brings together a unique combination of industry expertise, including producers and animal health, genetic, feed and nutrition research organizations and companies.
3. Lastly, with an initial investment of \$2,352,628, and additional contributions from the Consortium's 11 partners and co-funders, the Consortium will invest at least \$14 million into cutting-edge research.

“The Greener Cattle Initiative consortium exemplifies how FFAR’s public-private partnership model propels innovation and creates effective options to complex, urgent challenges. FFAR partnered with the Innovation Center for U.S. Dairy to convene a wide range of stakeholders through the Greener Cattle Initiative to develop enteric methane mitigation options for the beef and dairy industries.”

Dr. Juan Tricarico, Senior Vice President, Environmental Research at the Innovation Center for U.S. Dairy

FFAR's Collaborative Approach



As we approach our 10-year anniversary, FFAR is redoubling our efforts to deliver solutions to a U.S. food and agriculture system facing some of the world's greatest challenges. We are strengthening existing partnerships while identifying new partners in the scientific community, philanthropic organizations, the private sector and throughout the food and agriculture system, and we will collaborate with these partners to work toward our vision, building on the notable results we have achieved thus far.

In 2019, FFAR issued a [Strategic Plan](#) that described the Foundation's value proposition as our ability to leverage public dollars to mobilize private investment, form partnerships between public-private entities, identify and address important

gaps in food and agriculture science and facilitate the translation of research into impact. It further noted that FFAR's public funding from Congress is essential to bringing partners to the table and allows FFAR to serve as an independent, neutral third party. The Strategic Plan advanced FFAR's previously established [Challenge Areas](#), which were created with stakeholder input to address urgent food and agricultural concerns, as our primary research focus areas; however, the Strategic Plan did not include an overarching Research Strategy.

The Research Strategy documented herein builds upon the Strategic Plan by outlining a research goal and redefining our research priorities. This Research Strategy seeks to refine what we do and how we work to ultimately make FFAR more impactful.

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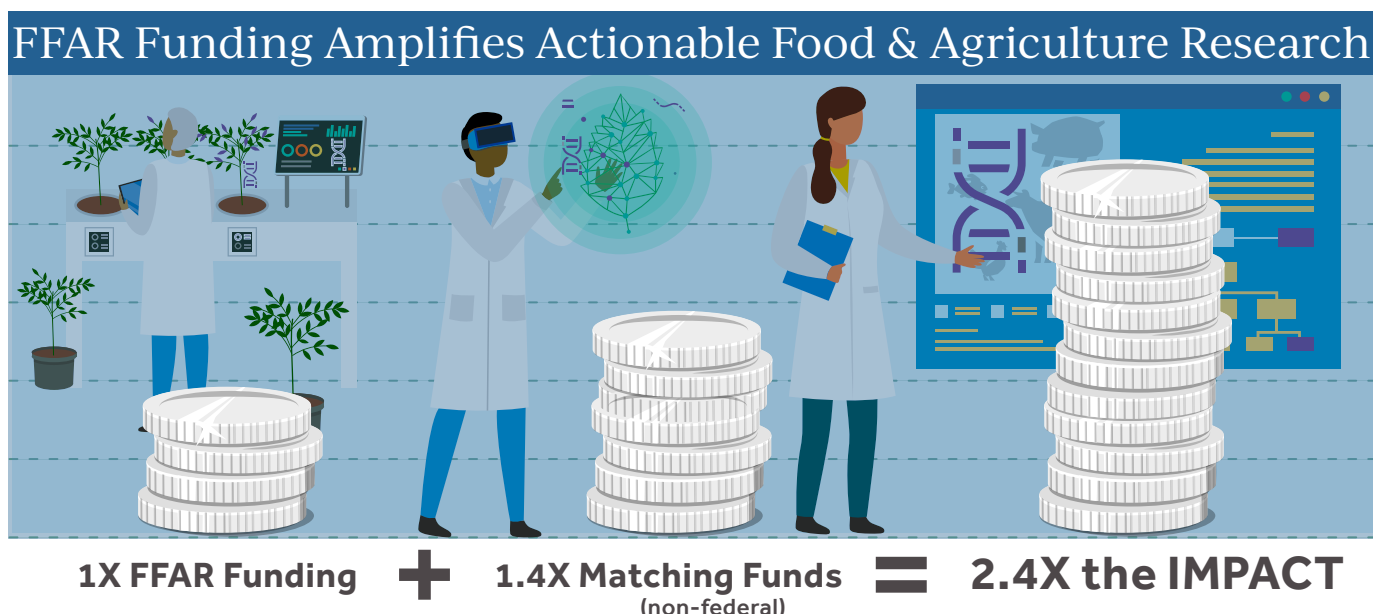
Providing Returns on Public & Private Investments

Together with our 550-plus funding partners, FFAR has awarded more than 350 grants. The Foundation has invested over \$730 million into pioneering food and agriculture research, including more than \$300 million in federal funds and \$430 million from matching partners as of October 2023. FFAR first awarded grants in 2016.

Food and agriculture research takes time. While some projects yield results in a few years, most agricultural research investments take a decade or longer to accrue full benefits. These investments are worth the wait, as results can secure the global and U.S. food supply, increase farmer profits, lower consumer costs, address market challenges, improve animal health and wellbeing, deliver more nutritious crops, build

resilience and provide significant environmental benefits. The full impact of FFAR's investments is still being realized, and some have already [yielded impactful results](#). Many of these investments and their results are detailed in our annual [Impact Reports](#), further highlighting FFAR's proven value for the food and agriculture sectors.

Additionally, public agriculture research offers significant returns on investment. USDA Economic Research Service [found](#) public agricultural research spending generated, on average, \$20 in benefits to the U.S. economy for every dollar spent. We expect our investments will similarly add to economic growth.



Future Challenges for the U.S. Food & Agriculture System

The U.S. food and agriculture system is a great American success story and has not only provided consumers safe, affordable and convenient food, its exports have also played a pivotal role in the world's food security.

Nevertheless, consumers' expectations of the food and agriculture system are changing. They want to know the history of their foods from farm to table. They want to ensure that farm workers and ranchers thrive and that farm animals are

treated well. They want safe, nutritious food made with few, familiar ingredients, and they want to know that their food was produced, processed and delivered sustainably.

Consumer expectations, manifested in their purchases from food retailers, permeate the value chain through branded food manufacturers who, in turn, expect their ingredient suppliers, farmers and ranchers to help in meeting these consumer wishes.



FFAR's research priorities span the whole value chain. We partner with a range of stakeholders, including input suppliers, farmers, ranchers, processors, food companies, retailers and many more to identify and address whole-of-value-chain challenges to sustainably deliver safe, nutritious food to consumers.

Global concerns about environmental impacts are increasingly leading industries to improve their environmental footprint. Increased sustainability across industries requires companies to work across the whole supply chain to address direct and indirect environmental impacts. Achieving this level of

sustainability further requires significant new research and technology, which FFAR is leading in many areas, and the need for increased sustainability is often a catalyst that drives the private sector to partner with us.

Meeting these challenges demands that all food system players engage in developing, testing and deploying research and technology. As highlighted in FFAR's 2019 Strategic Plan, we are uniquely positioned to bring relevant players together. FFAR's mandate, neutral status, agility and congressional funding allow us to form consortia and partnerships with the relevant parties needed to tackle industry-wide and value chain-wide problems.

Poised for the Future

In early 2023, FFAR launched a process to document our Research Strategy and ensure we continue prioritizing research that addresses new challenges and leverages new opportunities while also partnering with new stakeholders. We began by [soliciting input](#) from numerous stakeholders, which involved a public webinar with 76 written comments; mixed panel discussions with 24 representatives from industry, nonprofits, academia and international actors; and interviews with 74 stakeholder organizations from across the value chain, including 23 companies, 13 commodity groups, 10 producer trade associations, six foundations, seven nonprofits, five federal agencies, the National Association of State Departments of Agriculture, six research universities, four scientific societies and the Association of Public and Land-grant Universities. The Acknowledgement Section at the end of this document includes a full list of organizations that contributed to our strategy.

Through this engagement, the following themes emerged:

When asked about the current state of U.S. food and agriculture, stakeholders recognized the urgency to address severe weather impacts and broader ecosystem health. Stakeholders foresee solutions to these challenges through value chain connections supporting producer actions and fulfilling strong environmental and social commitments. We further heard calls for broadly accepted metrics and standards to empower producers and provide predictability for business decisions across value chains. Stakeholders identified specific emerging concerns and promising new technologies across production and post-harvest, emphasizing supply chain, automation, artificial intelligence and bioeconomy opportunities along with more traditional areas of research investment.

Based on the input we heard, FFAR is exploring research across the following interrelated areas:

- Improvements in crop and animal production systems for multiple productivity, environmental, welfare, health and bioeconomy traits;
- Agriculture-specific data science and artificial intelligence/ machine learning for automation, modeling, genetic analysis and decision tools;
- Systems approaches for ecosystem and human health;
- Circular bioeconomy;
- Nutrition, food quality and food safety;
- Tools and metrics for environmental and social impact; and
- Tools for understanding decision-making and adoption.

The Research Strategy outlined below was informed by stakeholder input as well as an internal review of scientific literature.

Stakeholders confirmed that we are investing in areas of critical importance, and overall, our previously established Challenge Areas reflect stakeholders' research priorities. FFAR will continue our meaningful work — ensuring our research achieves defined impacts and delivers on the overarching goal outlined below.

However, we heard from stakeholders that more integration is needed to better address critical research. To foster greater collaboration across disciplines, FFAR's Research Strategy will be organized around the four Research Priorities, outlined below, rather than specific Challenge Areas.





FFAR's Research Strategy

Setting an Ambitious Goal

The U.S. food and agricultural enterprise, like that of the rest of the world, is facing new and accelerating challenges, including greater competition for limited resources, water scarcity, increased weather variability, rising input costs, the constant threat of pests and pathogens and the imperative to have a positive or neutral impact on the environment. Meanwhile, demands on the food system necessitate increased efficiency and improvements in food safety and nutrition. Continued investment in innovative research and a well-trained scientific workforce drawn from multiple disciplines is critical to address these unprecedented global challenges urgently.

Recognizing this, and considering the input FFAR received from stakeholders, our research will seek to support this ambitious goal:

A U.S. food and agriculture system that supports producers and their communities, sustains the environment and enables processors and retailers to deliver foods that nourish our population.

FFAR's Research Strategy works toward this goal by focusing our research around four central priorities that together aim to provide the specific impacts stakeholders need to improve and advance the food and agriculture system. Our strategy also accounts for external drivers that allow us to better align FFAR's research with that conducted by others.

Research Priorities

Beginning in 2024, FFAR will focus on four interrelated, strategic research priorities as we strive toward our goal. These priorities reflect a systems approach — recognizing the complex relationships between primary production systems, agroecosystems and the food system as a whole. Collectively, these priorities drive transformational systemic change by taking a broad view of U.S. agriculture, considering its social, environmental and economic benefits and impacts.



Cultivating Thriving Production Systems

Production systems thrive when input providers and producers have the information and technologies (novel germplasm, digital tools, pest and disease solutions, etc.) necessary to manage their enterprises efficiently and profitably — which includes selecting animals, crops and management practices that support site-specific business, social and environmental goals.

Approach

FFAR will support animal and crop systems research to develop knowledge and tools that increase productivity, combat pest and disease threats, support animal welfare and safeguard producers' return on investment. We will do this in ways that advance economic, social and environmental benefits and producers' ability to make tradeoffs informed by biophysical conditions and market demands and opportunities.



Sustaining Vibrant Agroecosystems

Tools, technologies and integrative models designed at scales needed for site-specific decision making allow producers to create, build and maintain healthy, productive agroecosystems that meet consumer expectations under different environmental conditions. Such solutions must provide flexibility to deal with future uncertainty and clarify trends and trade-offs in productivity, environmental considerations and resilience.

Approach

FFAR will support research to deepen our understanding of agricultural system interactions with surrounding ecosystems. This research will focus on how changes in environmental conditions, production systems and practices affect biodiversity and water systems to support efficiency.



Bolstering Healthy Food Systems

In a healthy food system, food processors, distributors and retailers have the information and technologies needed to produce nutritious, environmentally sustainable and culturally appropriate food for consumers. Likewise, consumers require convenient access to safe, nutritious, desirable foods with a balance of macronutrients, micronutrients and protective phytochemicals — chemicals plants produce for their protection that also benefit human health.

Approach

FFAR will support research that promotes the availability of nutritious, quality foods; promotes human health and nutrition outcomes; improves food safety; reduces loss and waste; develops novel food processes and products; increases understanding of social and cultural dimensions of food security and nutrition; and advances the overall functionality of the food system.



Strengthening the Scientific Workforce

Addressing the accelerating and unprecedented global challenges faced by the U.S. food and agricultural enterprise will require a dynamic and highly skilled scientific workforce. Moreover, developing a well-trained workforce drawn from different disciplines is critical to drive innovation, foster creative solutions and lead pioneering science.

Approach

Since its inception, FFAR has prioritized and will continue to support scientific workforce programs that center on working with public and private stakeholders to understand, evaluate and address current needs in research and scientific workforce training. Based on those needs, FFAR is co-creating unique training opportunities for future food and agriculture leaders.

The Impacts We Seek

In alignment with funding research necessary to meet the goal outlined in this Research Strategy, FFAR also aims to design research that will deliver one or more of the following impacts.

Sustainably Intensified Productivity

Agricultural productivity has long been understood as a powerful driver of economic growth. Indeed, the USDA [reports](#) that the U.S. agriculture and food industry contributes \$1.1 trillion to the country's economy and represents nearly 11% of total U.S. employment. To meet the needs of our dynamic food and agriculture system, research investments must provide adaptive and responsive solutions. FFAR will invest in research and scientific workforce development that enables more efficient animal and crop production systems, sustainably increasing profits and benefiting producers and processors of all sizes and their communities while delivering the products that underpin our food system.

Increased Environmental Sustainability

While agriculture can have significant environmental impact, the sector can also be a powerful solution to increasing sustainability. Research is the linchpin to developing practices and tools that reduce emissions and minimize negative environmental impacts. Furthermore, increasing adoption of these practices and tools can bolster the ability of sustainable food and agricultural systems to produce a sufficient quantity and choice of food in ways that protect the environment. Through the creation of innovative partnerships with all parts of the food and agriculture system, we will support research and scientific workforce development programs that produce evidence-based guidance and tools to enhance productivity and enable sustainable water and nutrient management, improve soil health, mitigate climate change and deliver other ecosystem benefits.

Improved Human Health

To successfully nourish our population, more research is needed to understand the inefficiencies in current systems and opportunities to develop crops and foods with improved nutrition, as well as how the food system impacts human health more broadly. To improve human health, FFAR will invest in food and agriculture system research and scientific workforce development opportunities that provide proven approaches and tools to deliver positive health and wellness outcomes for people.

Key Drivers

To ensure we are well positioned to deliver the impacts we seek, FFAR will use the key drivers below to prioritize research investments.

Sources of Matching Funds

FFAR seeks every opportunity to proactively collaborate with funding partners to identify matching funds or secure a match commitment prior to issuing research opportunities or calls for proposals, rather than relying on applicants to identify matching funds. FFAR recognizes that requiring applicants to identify matching funds prior to submitting a proposal may prevent some researchers from engaging with us, especially when their institutions are not well resourced or do not have strong industry connections. FFAR has successfully reduced reliance on applicant-match over time and we aim to continue this trend to further broaden our potential pool of research partners.

In addition to industry, foundations are important partners for FFAR and are often a source of match commitment that allows researchers to bring their best science to a challenge regardless of their ability to identify matching funds. There is strong alignment between FFAR's mission and the missions of many other foundations. We will increasingly seek to partner with foundations, as well as with industry players, nonprofits and non-federal entities to proactively secure matching funds.

Some FFAR funding opportunities may still require applicants to secure matching funds. For example, applications to our rapid-response research program, [Rapid Outcomes from Agricultural Research](#), will still require applicants to secure matching funds, as FFAR cannot anticipate the need for this research in advance.

Complementarity With Federal Agencies

FFAR's research agenda seeks to complement USDA's research investments as well as those of other federal agencies investing in food, nutrition and agriculture research. We will continue to maintain this complementarity and avoid duplicating efforts by:

1. Filling knowledge gaps by investing in areas that federal research agencies do not prioritize or are unable to fund;
2. Employing different funding models to address shared priorities; for example, utilizing public-private partnerships, prizes or other approaches to incentivize development and adoption of research outcomes; and/or
3. Providing funds in a manner that federal agencies cannot typically support or on an expedited timeline; for example, rapid response grants to urgent or emerging challenges.

Industry Collaborations

FFAR provides a unique opportunity for food and agriculture companies to collaborate and advance outcomes of shared interest, both by bringing competitors together and by connecting players along the value chain. FFAR establishes consortia to support research on common challenges recognized across the sector, where working in the precompetitive space provides solutions beneficial to all members and society. Consortia participants jointly determine research priorities, provide necessary funding, pool resources and knowledge and share research results. We will leverage our proven success in establishing impactful consortia to help meet consumer demand for sustainably grown, safe, nutritious and convenient food products. By bringing industry together to support actionable, user-driven research, FFAR's consortia deliver the solutions that producers, processors and others need to meet market demands.

Centering U.S. Benefits

FFAR recognizes that challenges faced in the U.S. food and agriculture system are often shared globally. To ensure that we are taking advantage of the best of global science, our opportunities are open to researchers across the world. In recognition of FFAR's funding model and our efforts to provide U.S. taxpayers a strong return on investment, however, the Foundation's investments will always benefit U.S. food and agriculture systems.

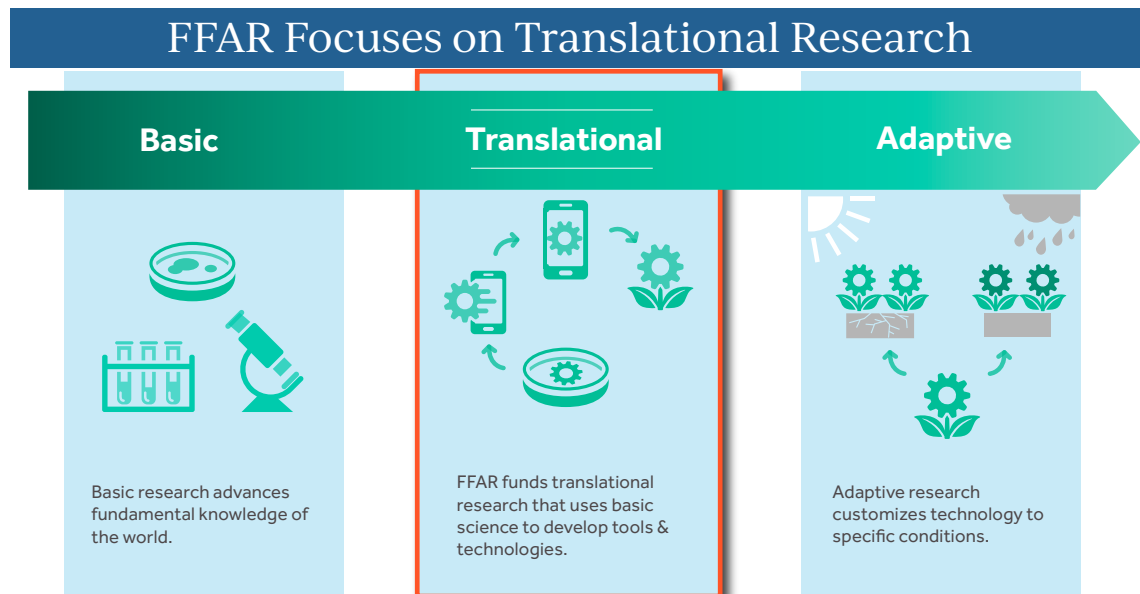
Excellence Through Competition

When possible, FFAR will prioritize competitive grant opportunities to identify and support diverse ideas, approaches and researchers. However, to remain agile and support innovative approaches, we also employ other funding mechanisms such as prizes, direct fund awards and consortia, and we accept unsolicited proposals. The Foundation employs a peer review process for all research proposals as part of our commitment to funding rigorous science.



Actionable Science, Translational Research

FFAR strives to balance research activities designed to deliver near-term outputs and research that is perceived as longer term or higher risk. Additional food and agriculture research is necessary along the entire continuum — from basic to translational to adaptive — and FFAR will emphasize translational research in its research portfolio. Moreover, our research will seek to build upon and translate the research outputs from federal science agencies where there is a greater focus on basic research. In addition, the Foundation will continue to quickly fund certain unanticipated research activities when situations require a rapid response.



While FFAR-supported research activities span the research continuum, the majority are characterized as translational. Informed by our stakeholders and funding partners, we will focus on research that translates outputs and knowledge from basic science to tools and technologies our stakeholders will adopt.

A Convergence Approach

Recognizing that diverse areas of expertise are necessary to solve complex problems, we will bring a convergence approach to our work. As [defined](#) by the National Science Foundation, convergence research “entails integrating knowledge, methods and expertise from different disciplines and forming novel frameworks to catalyze scientific discovery and innovation.” Our convergence approach will bring scientists from a range of disciplines together to engage in new and creative partnerships to address food and agriculture challenges.

Next Steps

As we begin to implement our Research Strategy, our work will be organized around our four overarching Research Priorities and incorporate our previously established Challenge Areas portfolios as follows:

- Work previously included in our Advanced Animal Systems and Next Generation Crops Challenge Area portfolios will merge and be complemented by new research that cultivates thriving production systems.
- Research to sustain vibrant agroecosystems will encompass activities that were previously grouped within the Soil Health and Sustainable Water Management Systems Challenge Areas and [AgMission™](#), as well as new programming.
- The Health-Agriculture Nexus and the Urban Food Systems Challenge Areas will merge to develop research that bolsters healthy food systems.
- Our ongoing and future scientific workforce development efforts will be elevated and serve to strengthen the scientific workforce.

We will use an interdisciplinary approach as we focus on these four priorities and work toward our research goal. Through robust internal collaboration and new and enduring external partnerships, FFAR will continue to tackle current and emerging food and agriculture challenges.

Acknowledgements

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AgNext	CIMMYT	National Association of State Departments of Agriculture	The Fertilizer Institute
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American Farm Bureau Federation	Crop Science Society of America	National Grape Research Alliance	The Nature Conservancy
American Peanut Council	CSIRO	National Milk Producers Federation	The Ohio State University
American Seed Trade Association	Cultivian Sandbox Ventures	National Peanut Board	Tribal Agriculture Fellowship
American Society of Agronomy	D'Arrigo Brothers	National Pork Board	U.S. Agency for International Development, Bureau for Resilience and Food Security
American Society of Animal Science	Dairy Management Inc.	National Pork Producers Council	U.S. Dairy and Export Council
American Society of Plant Biologists	Danone	National Science Foundation	U.S. Department of Agriculture, Agricultural Research Service
Animal Digestible Food Packaging Initiative	Driscoll's	Nature Ripe	U.S. Department of Energy, Bioenergy Technologies Office
Anitox Corp	E. & J. Gallo Winery	Netafim	U.S. Department of Energy, Biological Systems Science Division
Association of Public Land Grant Universities	Ecosystem Services Market Research Consortium	New Harvest	U.S. Environmental Protection Agency
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Bayer	Ferry Cove Shellfish	Novo Nordisk Foundation	United Soybean Board
BEAM Circular	First Nations Development Institute	Open Philanthropy	University of Georgia
Bill & Melinda Gates Foundation	Food and Agriculture Climate Alliance	PepsiCo	University of Illinois
Bioceres Crop Solutions	Galvanize Climate Solutions	Pig Improvement Company	University of Rhode Island
Biochar Policy Project	General Mills	Re-Nuble Inc.	USA Rice
Blue Diamond Growers	GeoVisual Analytics	ReFED	Utah State University
Braga Fresh	Good Food Institute	Resource Innovation Institute	Walton Family Foundation
Breakthrough Institute	Google X	The Rockefeller Foundation	Washington Tree Fruit Research Commission
California Cherry Board	Institute of Food Technologists	S Research Partners LLC	Western Growers Association
California Leafy Greens Research Board	International Fresh Produce Association	Savanna Institute	Zoetis
California Prune Board	Intertribal Agriculture Council	Soil and Water Conservation Society	
California Tomato Research Institute	Iowa Corn Growers Association	Soil Science Society of America	
Carbon 180	Irrigation Association	Swine Health Information Center	
	JBS USA		
	LI-COR Biosciences		



FFAR

Bold Science for Big Challenges

Connect with us to learn more about funding opportunities, awards, impacts and news.

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