

Welcome to FFAR's Public Conversation

October 5, 2023



Vice Chair's Remarks



FFAR Grants By The Numbers

360

GRANTS AWARDED

1:1.4

MATCHING RATIO

\$713M

FUNDING AWARDED

FFAR Board Members

- Kyle Bridgeforth
- Joe Del Bosque
- Doug Buhler
- Doug Cameron
- Nancy Creamer
- David Donnan
- Hon. Dan Glickman
- Krysta Harden
- Denise Heard
- Venkata Kishore
- Michael Ladisch
- Carolyn Lawrence Dill
- Chris Mallett
- Pam Marrone
- Ben Noble
- Donald Nkrumah
- Stanley Prusiner
- Danita Rodibaugh
- Polly Ruhland
- Alton Thompson

Ex-Officio Members

- Tom Vilsack
- Chavonda Jacobs-Young
- Susan Marqusee
- Manjit Misra
- Simon Liu



USDA's AIM for Climate Summit



USDA Secretary Tom Vilsack and Former Vice President Al Gore



FFAR staff exploring a virtual reality exhibit



From Left: FFAR's Executive Director Dr. Saharah Moon Chapotin, DMI's Dr. Tim Kurt, NuCicer's Kathryn Cook and Lakner Farms' owner Jeff Lakner

FFAR's Congressional Reception



Senate Agriculture
Committee Chairwoman
Debbie Stabenow
(D-MI)



Sen. Mike Braun (R-IN)



Rep. Jim Baird (R-IN)



Welcoming Secretary Tom Vilsack



Tom Vilsack
Agriculture Secretary



Executive Director's Address



Our Mission

We build unique partnerships to support innovative science addressing today's food and agriculture challenges.

Our Vision

We envision a world in which ever-innovating and collaborative science provides every person access to affordable, nutritious food grown on thriving farms.



We Fund Pioneering Research

BY FOCUSING ON THESE KEY CHALLENGE AREAS:



Next Generation
Crops



Advanced Animal
Systems



Sustainable Water
Management



Health-Agriculture
Nexus



Urban Food Systems



Soil Health

We also fund climate-smart research through our  AgMission™ initiative

FFAR Consortia

Our consortia convene partners to fund research for the common good.



We Invest in the Scientific Workforce



BY FOSTERING THESE PROGRAMS:

NAS Prize in
Agriculture Science

New Innovators in
Food and Agriculture

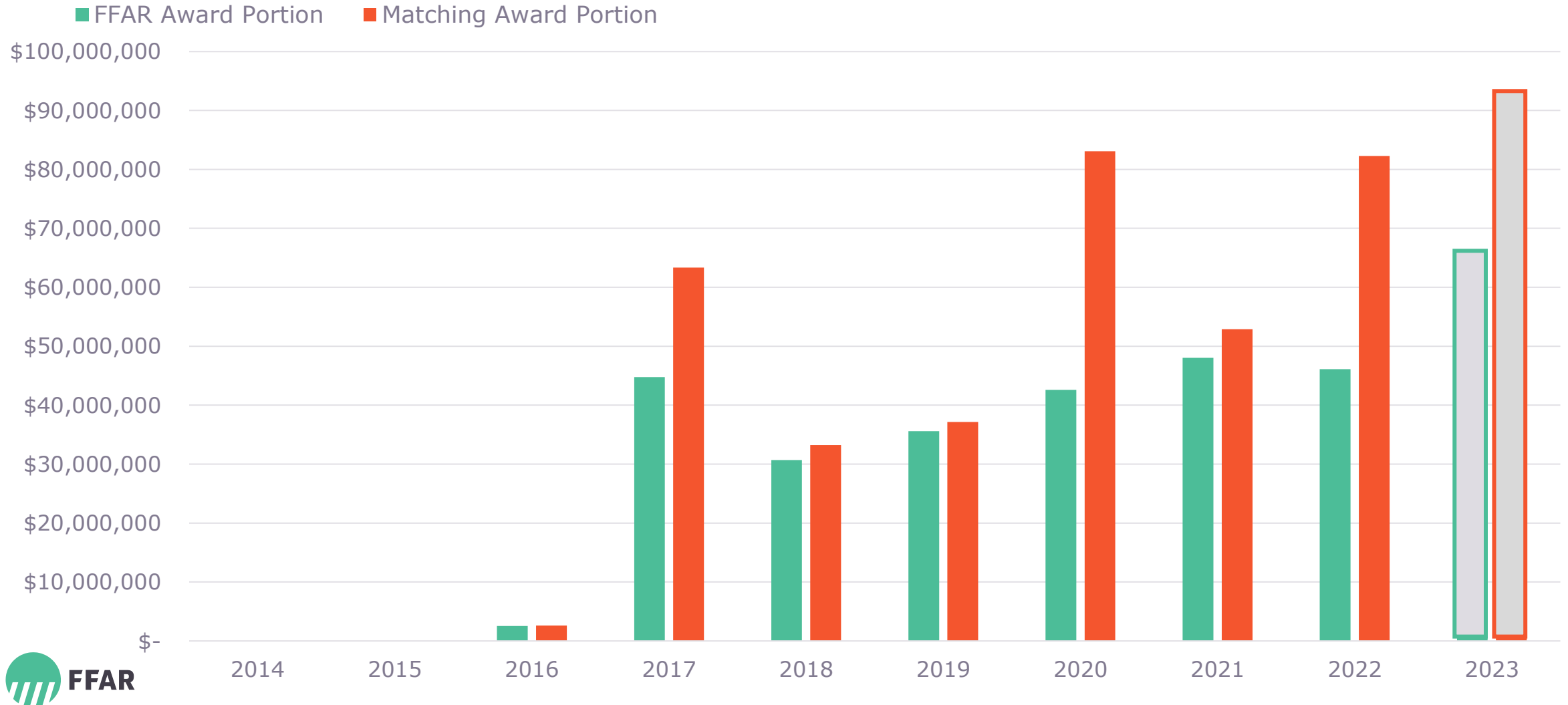
Kirchner
Food Fellowship

FFAR Fellows

Veterinary Student
Research Fellows

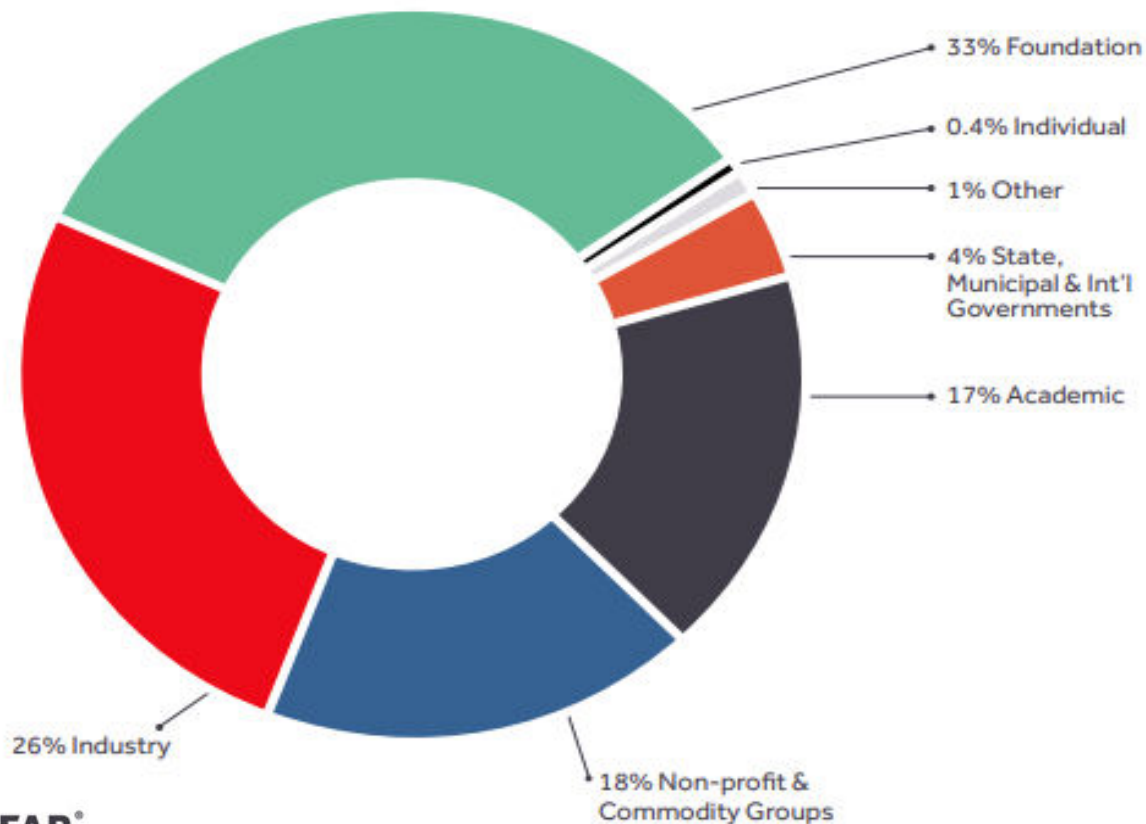
OCP Fellowship

FFAR Awards 2015 - 2023

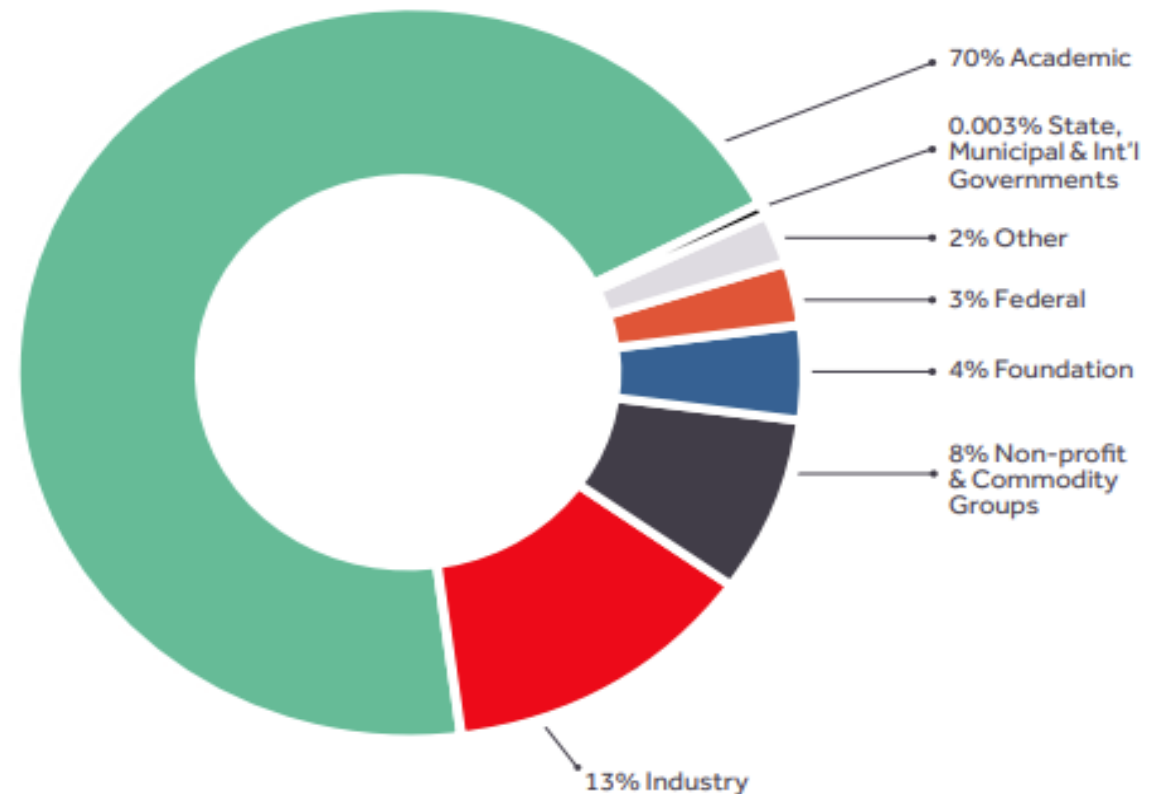


Matching Funders & Grantees

Percent Matching Funds Received, by Donor Type
Inception through 2022



Percent of Total FFAR Grantees, by Institution Type
Inception through 2022



Impacts & Updates



Impact in Action

FFAR's Impact Report highlights:

- FFAR awarded 68 new grants in 2022 totaling \$128M of which \$82M amount was leveraged from non-federal sources
- 92% of FFAR grantees secured additional funding from a variety of sources during and after receiving FFAR funding.
- Read our Impact Report for project impacts including how OpenTEAM is developing soil health management tools, progress on responding to coffee leaf rust disease, breeding cattle for heat tolerance & more



AIM for Climate Summit

- FFAR supported the [AIM for Climate Summit](#), hosted by USDA in May 2023.
- FFAR staff supported this successful global event from planning stages through execution.
- We also led a plenary session on the importance of agriculture climate research that featured remarks from several FFAR stakeholders.



Efficient Fertilizer Consortium

- Funding research to help farmers use novel and current fertilizers more efficiently, improve soil fertility, decrease input costs, reduce nitrous oxide emissions and improve global food security.
- **Cotton Inc., Pivot Bio, United Soybean Board** and **UK FCDO** have signed on; additional members will be announced this Fall.



Reducing Emissions in Cattle



The Global Methane Hub recently joined as a partner and existing steering committee members contributed additional funds.

- GCI recently awarded its first three grants:
 - The University of Illinois is leading an international research study on how diets and different additives in beef and dairy cattle affect enteric methane production.
 - The University of Madison-Wisconsin is combining interventions that address selective breeding, data on milk composition and rumen microbes to reduce enteric methane emissions.
 - Penn State University is developing new enteric methane inhibitors and efficient delivery methods to decrease enteric methane emissions.
- The Consortium is exploring further partnerships to coordinate additional grantmaking.
- Additionally, a Seeding Solutions grant to Pennsylvania State University researchers is investigating using an anti-methanogenic compound derived from plant and fungal sources as a feed additive to reduce enteric methane in ruminants.



OCP Fellows

- The FFAR-OCP Disruptive Fertilizer Technology Fellows Program is enhancing fertilizer efficiency research & technology development
- In June 2023, FFAR & OCP North America announced three fellows as our first cohort



Tuskegee University Endowment



- In Nov. 2022, FFAR awarded \$1M to Tuskegee University to create an endowment to advance organic agriculture and farming practices.
- Clif Bar & Company provided a matching \$1M for a total \$2M investment.
- This award will fund future research opportunities & activities that increase organic farming practice adoption in the Southeast.



ACTION RFA

- The Achieving Conservation through Targeting Information, Outreach and Networking (ACTION) program promotes projects that increase farmer & landowner adoption of conservation practices.
- Walton Family Foundation provided matching program funds.
- Three awardees to be announced soon.
- Research seeks to understand how to best support farmers' use and adoption of conservation practices including edge-of-field practices such as wetlands, buffers and controlled drainage.

AgMission™ Research Agenda | High Priority Topics

Intersection of climate mitigation and adaptation: *this overarching topic is mission critical*

- How can we build the knowledge base for a resilient agriculture system that can cope with climate impacts?
- Targeted research on diversification of production systems as a climate solution for resilience both economically and physically.

Agroforestry as a climate solution

- Identify practical agroforestry solutions, the economic value to farmers and benefit for emissions /sequestration/resilience and what it would take to scale these solutions.

Pasture and grazing lands

- Look for key questions of interest for both mitigation and adaptation, as well as biodiversity co-benefits.

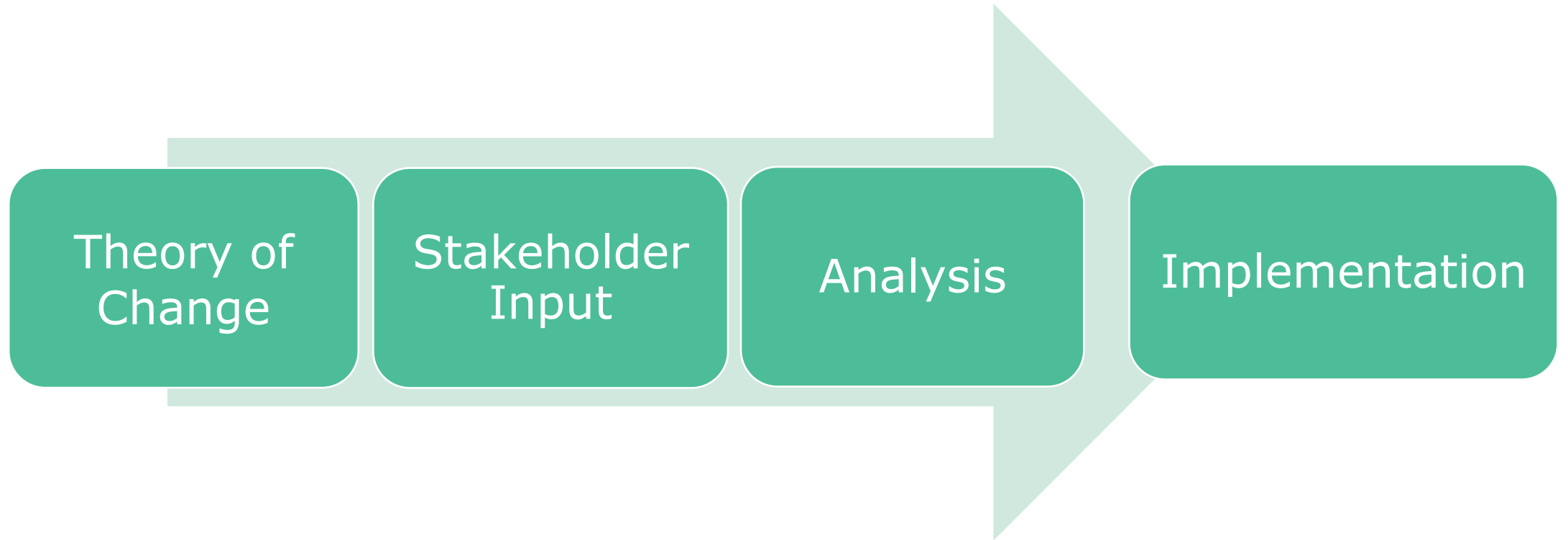
Social science research


- Barrier to supply chain action is farmer recruitment. Can evaluation of existing/past programs help inform new program design?

Research Strategy



Research Strategy Development Process





Stakeholder Input By the Numbers

76

WRITTEN COMMENTS SUBMITTED

17

EXPERTS IN PANEL DISCUSSIONS

50+

FOOD AND AGRICULTURE STAKEHOLDER
ORGANIZATIONS INTERVIEWED



Our Research Goal

A U.S. food and agriculture system that supports producers and their communities, sustains the environment and equitably nourishes our population



Priority 1: Cultivating Thriving Production Systems



Priority 2: Sustaining Vibrant Agroecosystems



Priority 3: Bolstering Healthy Food Systems



Priority 4: Strengthening the Scientific Workforce



The Impacts We Seek

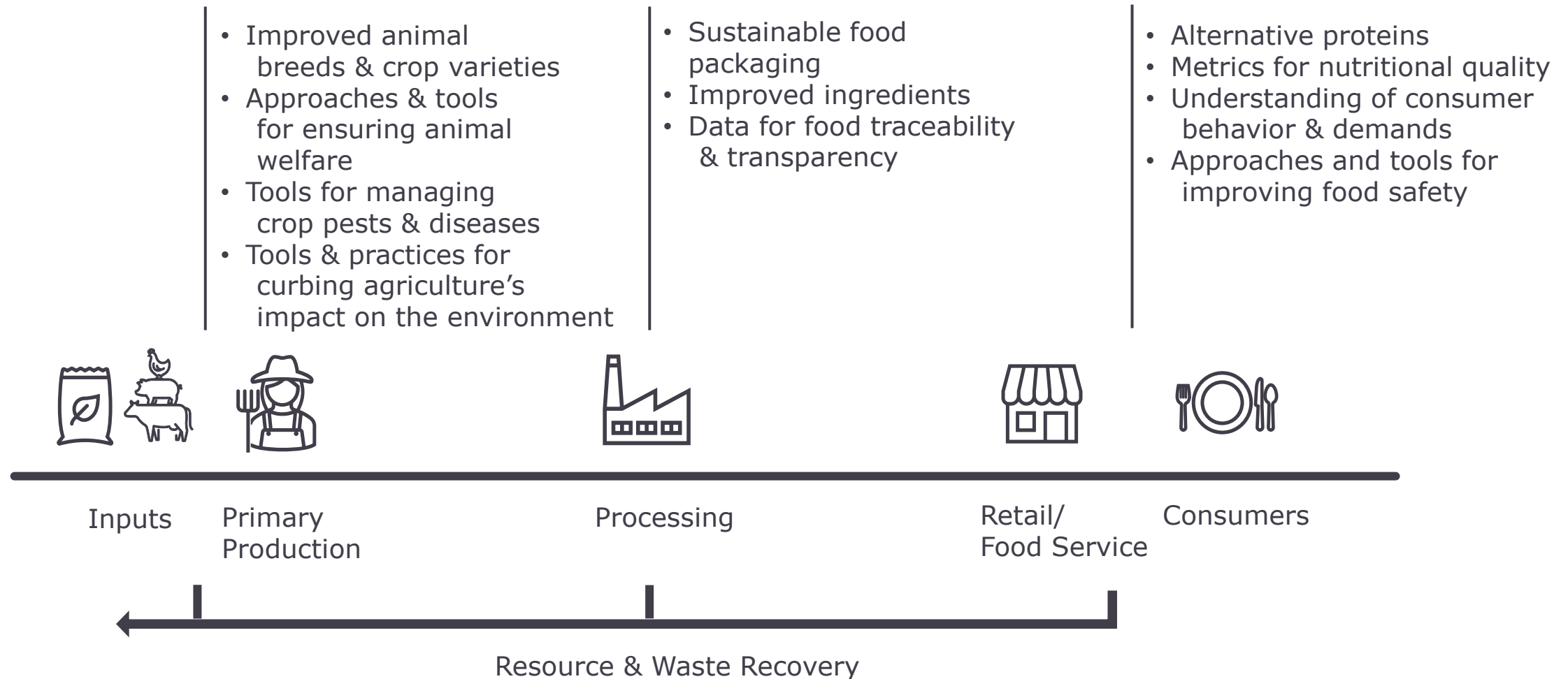


Sustainably Intensified Production

Increased Environmental Sustainability

Improved Human Health

Working Across the Whole Value Chain



Key Drivers

Diversity, Equity & Inclusion



Complementarity with Federal Agencies



Matching Funds



Industry Collaborations



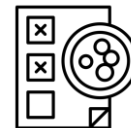
Geographic Scope



Excellence Through Competition



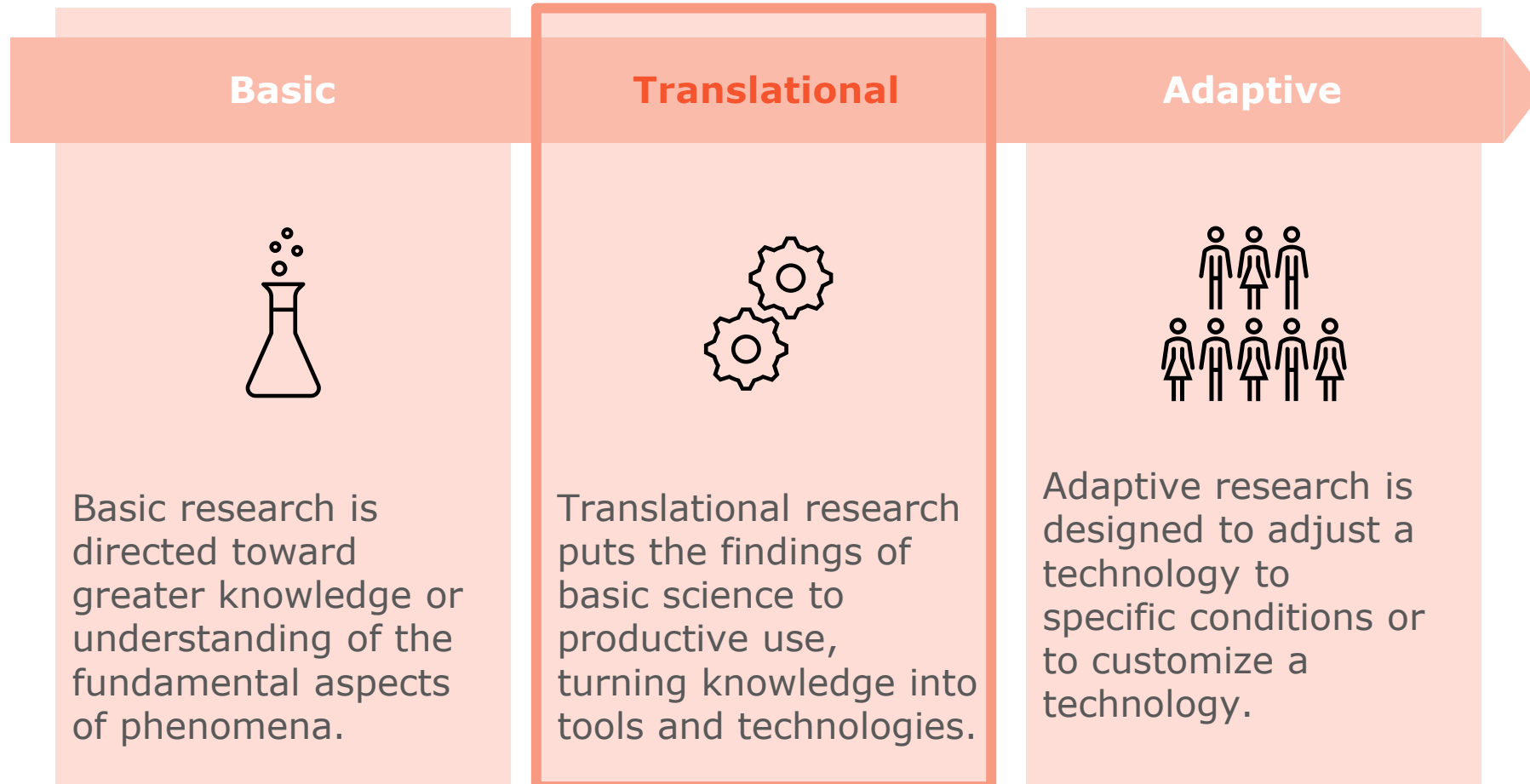
Actionable Science, Translational Research



A Convergence Approach



The Research Continuum



Research Strategy Implementation

Research Strategy	Workplan
2024-2028	Annual
High-level	Identifies specific objectives
Lays out priorities, key drivers and desired impacts	Aligns with priorities, key drivers and desired impacts
Informed by stakeholder input	

Looking Forward

- We will continue to communicate the results from our Research Strategy Refresh in the coming months and are looking forward to funding new bold research that aligns with our refreshed strategy.
- FFAR is continuing to expand our investment in climate research. We remain engaged as AIM for Climate partners and will be present at COP28.
- We look forward to growing our Scientific Workforce Development programs by supporting existing fellowship programs and developing new opportunities.
- We are continuing to track and communicate our impacts.
- FFAR is dedicated to enhancing our DEI efforts and continuing to build programs and relationships that reflect inclusivity and equity.



Public Comments & Questions





Thank You

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