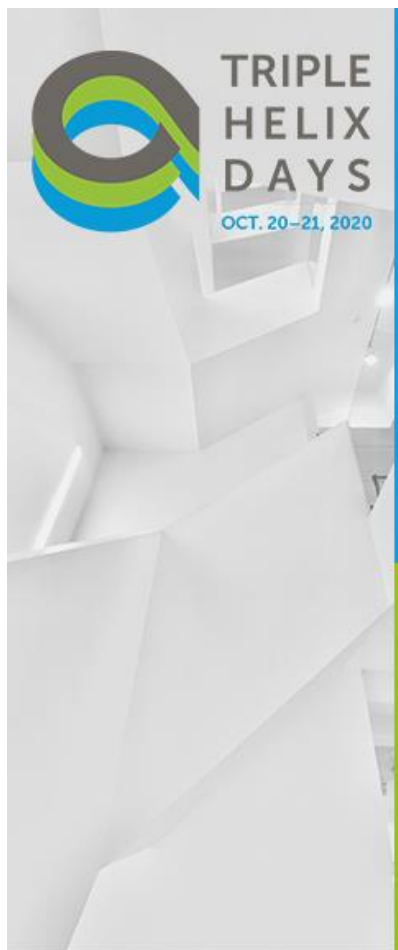




Strengthening
University-Industry
Partnerships



FFAR's Investment to Fund Actionable Food and Agriculture Research Solutions

October 20, 2020 11-11:45 AM EDT



Kathryn Ellis
University of
Massachusetts Amherst



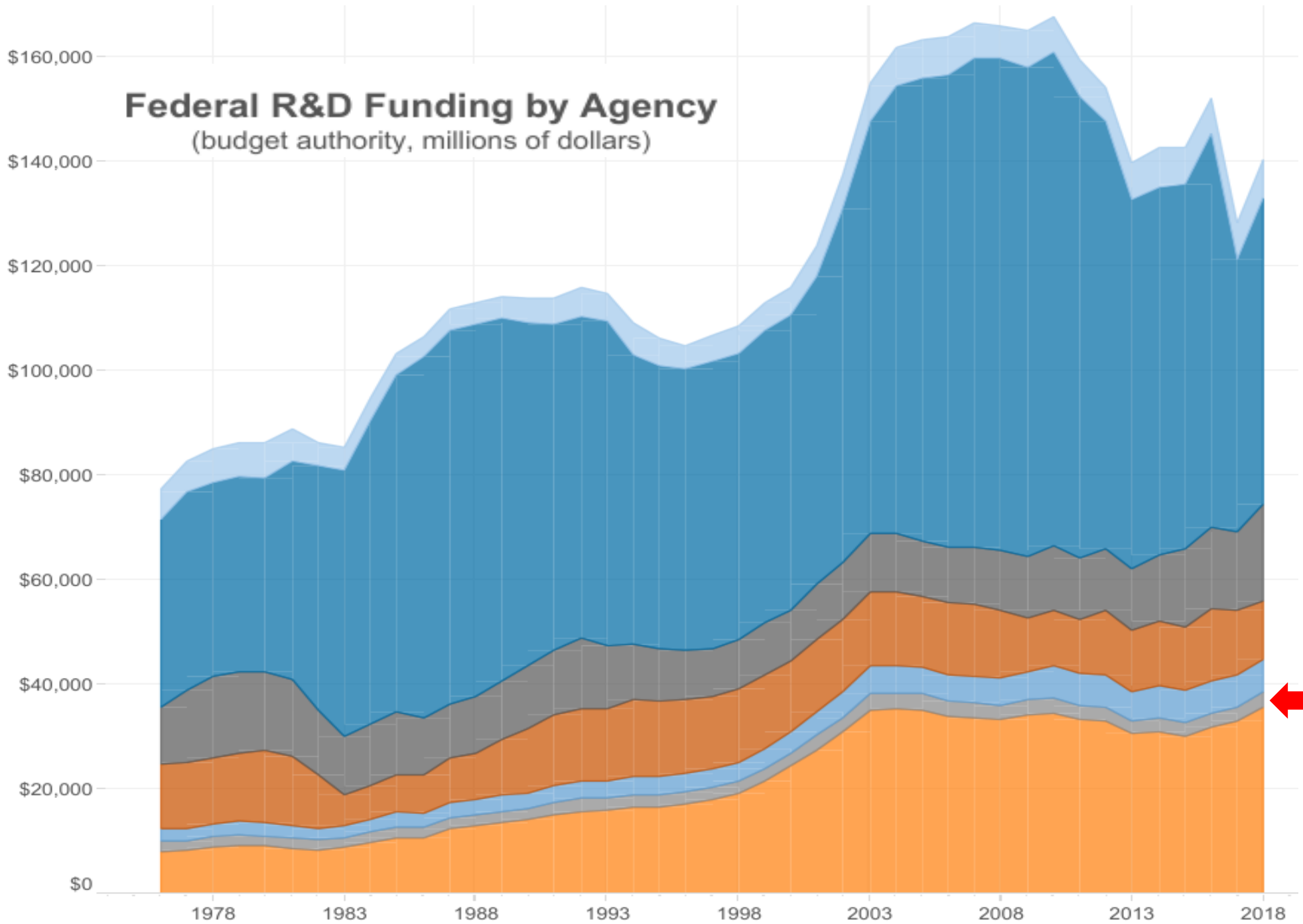
Sally Rockey
Foundation for Food and
Agriculture Research

UIDP

**Sally Rockey, Ph.D., Executive Director
Foundation for Food and Agriculture Research**

October 20, 2020





- Agency**
- All Other
 - DOD
 - DOE
 - NASA
 - NSF
 - USDA
 - NIH

Select Agency
Multiple values

"All Other" includes the Depts. of Transportation, Veterans Affairs, Homeland Security, and State, the Environmental Protection Agency, and others.

Based on agency budget documents and data, supplemented with NSF survey data. Last updated May 2018. FY 2018 data are estimates. (c) AAAS



How We Work



Private-Public Partnerships

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

\$385M + **\$385M**

FFAR
Investment

Non-Federal
Match



The model of **public private partnership** is a really important space that wasn't previously filled in the US [food and agriculture] R&D world before FFAR.



-FFAR Stakeholder

The FFAR Paradigm

- **Creates novel research partnerships**
- **Works nimbly** to efficiently address emerging issues
- **Leverages public dollars** with private dollars to expand research impact
- **Fills research gaps** to support farms, reduce food insecurity and improve health



FFAR CHALLENGE AREAS



Next
Generation
Crops



Advanced
Animal
Systems



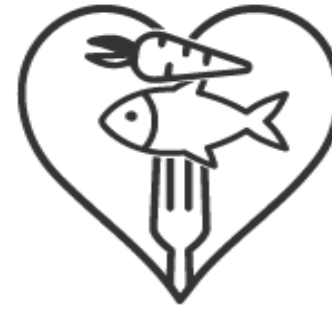
Urban
Food
Systems



Soil
Health



Sustainable
Water
Management



Health-
Agriculture
Nexus

Thriving Farms

Environmental Resilience

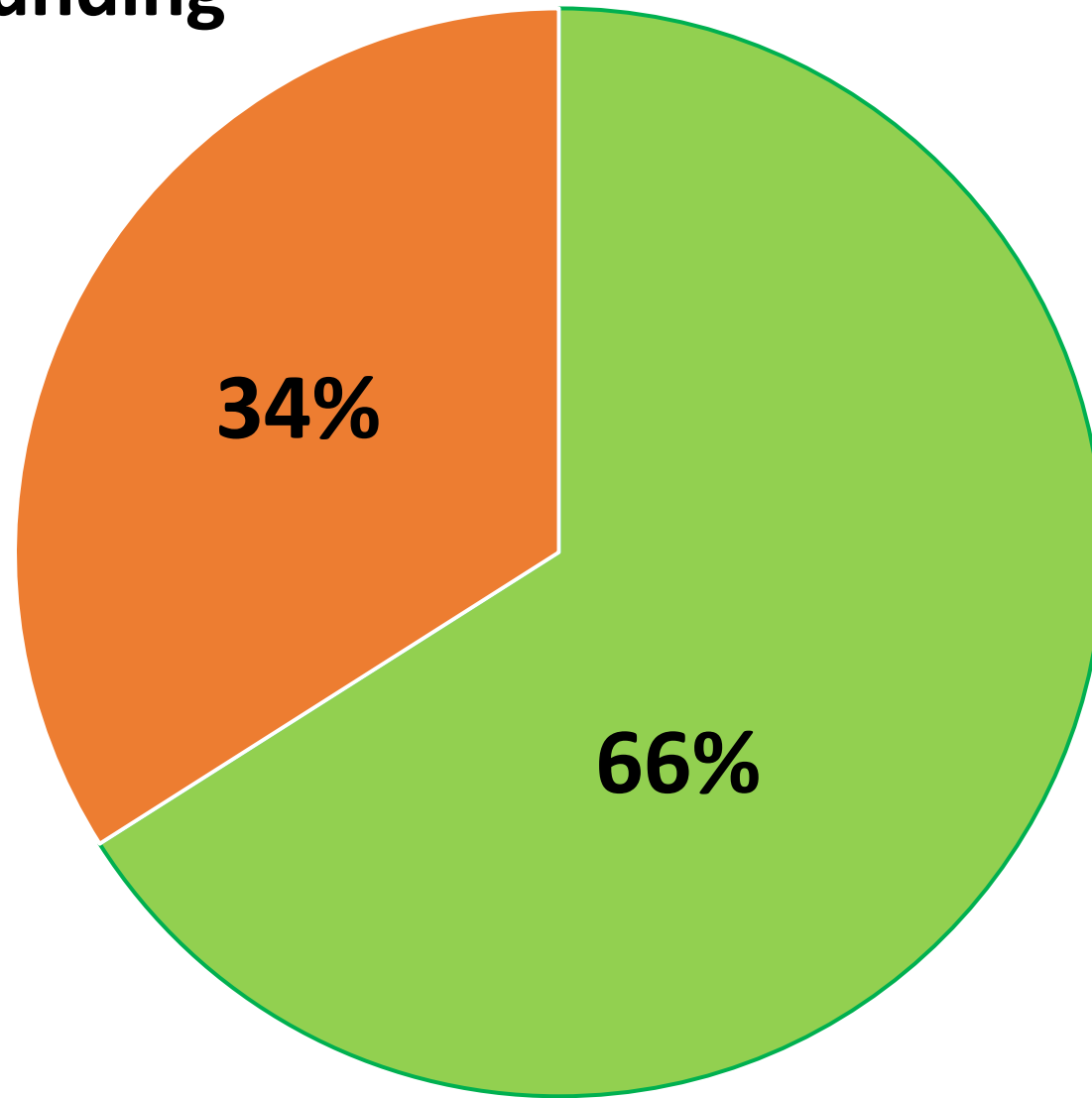
Wellbeing

FFAR Funding Models

Applicants may engage with FFAR through several mechanisms :

- Competitive Grants
- Direct Awards
- Prizes
- Consortia

Division of FFAR Funding



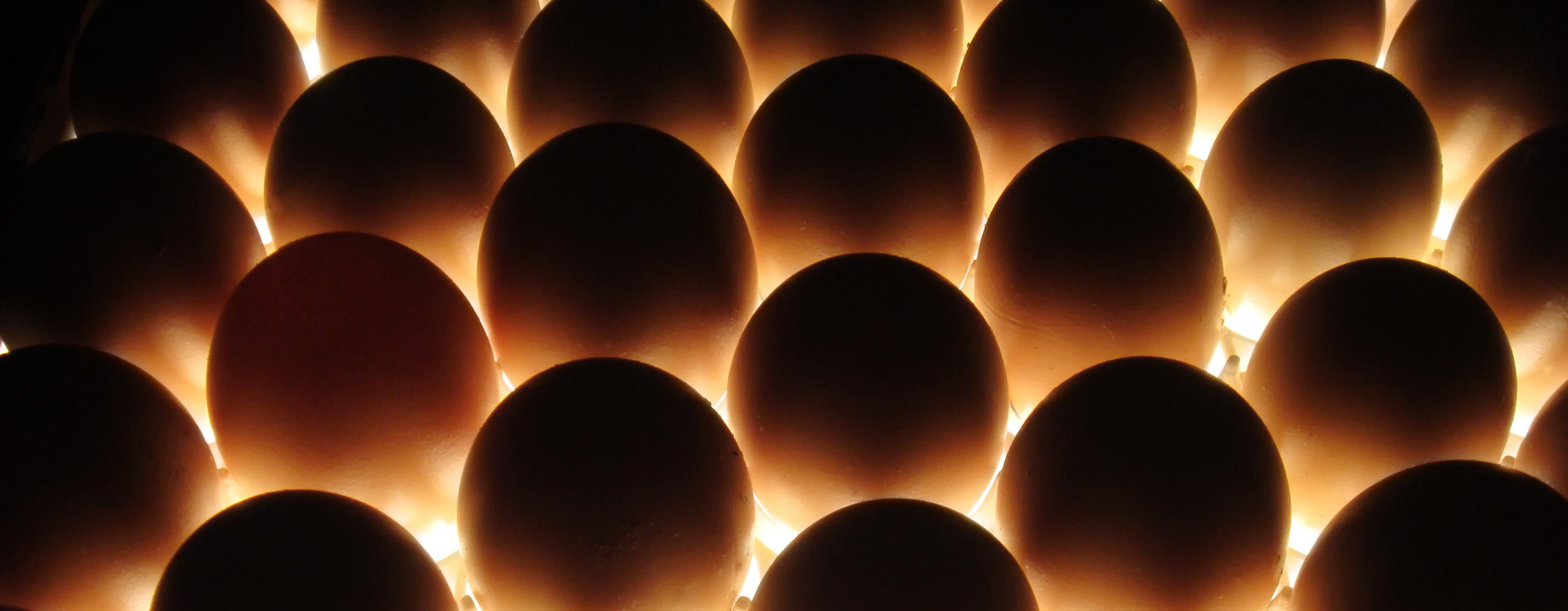
Universities

Other (companies, trade association, federal)

SEEDING SOLUTIONS



Open competition once a year
in all Challenge Areas for \$1.0m



Egg-Tech Prize

The Prize is a \$6M investment by FFAR and Open Philanthropy to develop a technology solution that can accurately and rapidly determine an egg's sex as early as possible in the egg production process.



Scientific Workforce Development

FFAR supports the next generation of food & agriculture scientists



The 2020 Class of FFAR Fellows



2020 FFAR Fellows

We were thrilled to award the FFAR Fellowship to 23 doctoral students this year. The following companies are sponsors for our outstanding 2020 FFAR Fellows:



Industry and Foundation

Partners Include:



Over 400 distinct funding partners!

FFAR Consortia

**Consortium for Innovation
in Post-Harvest Loss and
Food Waste Reduction**



**Ecosystem Services Market
Research Consortium**



**IRRIGATION INNOVATION
CONSORTIUM**
A FFAR COLLABORATIVE



Precision Indoor Plants (PIP)

GreenVenus

Accelerating the Green Revolution™



BY **OSRAM**



International Consortium for Antimicrobial Stewardship in Agriculture (ICASA)



Crops of the Future (COTF)



Posture 012 C Posture 354 C



Public-Private Partnerships

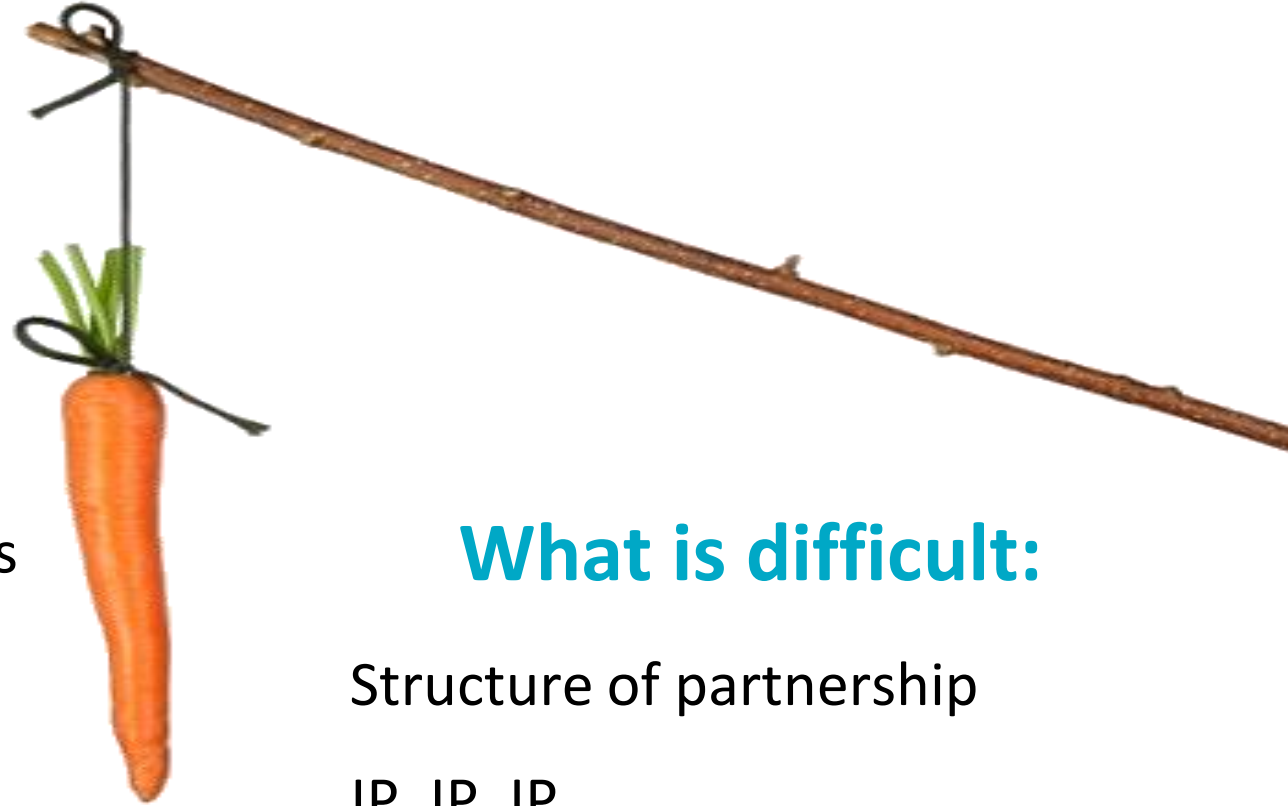
What is less difficult:

Many groups share goals

More desire to work together because of costs

Good ideas for the precompetitive space

Want access to basic science



What is difficult:

Structure of partnership

IP, IP, IP

Release of results

Competing interests

Managing risks

How to Make Public-Private Partnerships Work

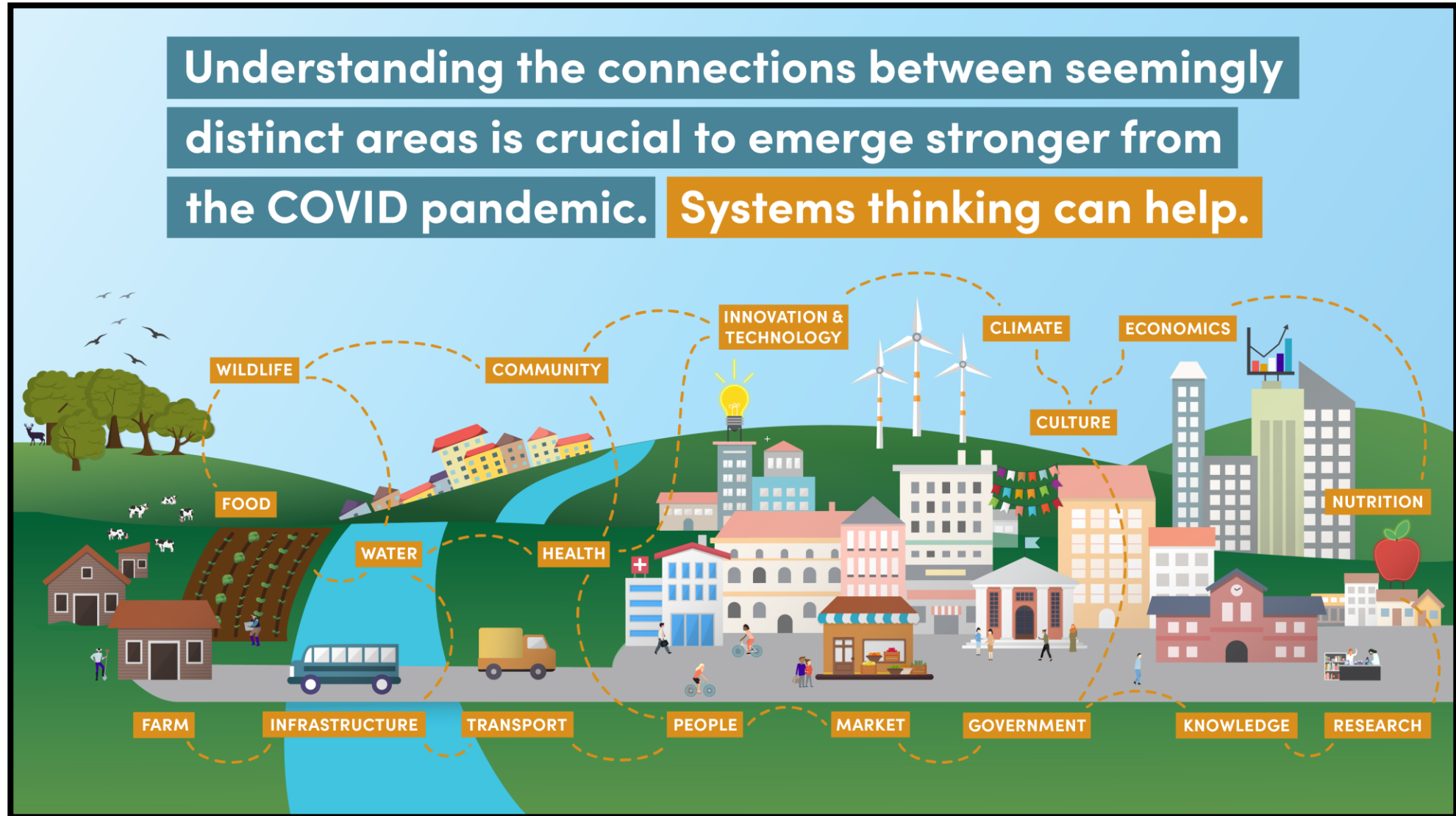
- Shared Goals and Values
- Agreement on responsibilities and rules of engagement (including IP)
- Transparent value proposition for each partner
- Synergy (goals cannot be achieved by any partner working alone)
- Skin-in-the-game from all partners
- Joint celebration of successes
- Shared responsibility for failures



Rapid Shifts in The Pandemic Era

- Consumer Behavior, Supply & Demand Issues
 - Panic-buying/Stocking/hoarding
 - Food waste
 - Changing diets
- Production Issues
 - COVID in meat processing plants
 - Animal depopulation
- Nutrition
 - Food access
 - Nutrition
- Infectious Diseases
 - One Health and diseases in agriculture

Can Research Improve Food Systems Resilience?



COVID-19 Takeaways

- **The Pandemic Era has caused shocks and disruptions to global food systems.**
- **Pandemics and weather-related disasters are increasing in frequency.**
- **Many people are or will be food insecure.**
- **Agricultural research is more important than ever for food and nutritional security, economic viability and environmental sustainability.**
- **We want to work with you:** Collaborations and systems approaches are key to addressing complex problems.

Relevant Funding and Partnership Opportunities at FFAR

- Seeding Solutions. \$300K - \$1M per award. 1-2 awards per Challenge Area.
- Harvest for Health
- Ag- Climate Partnership
- ROAR: \$150K for 1 year projects on emerging infectious diseases/pests of plants or animals.
- Get involved with any of our consortia.
- Visit <https://foundationfar.org/> for more info.

“Take it to the farmer”



Thank You

Dr. Sally Rockey
Executive Director

Foundation for Food and Agriculture Research

srockey@foundationfar.org

 @RockTalking

Connect with FFAR

www.foundationfar.org

 @FoundationFAR

