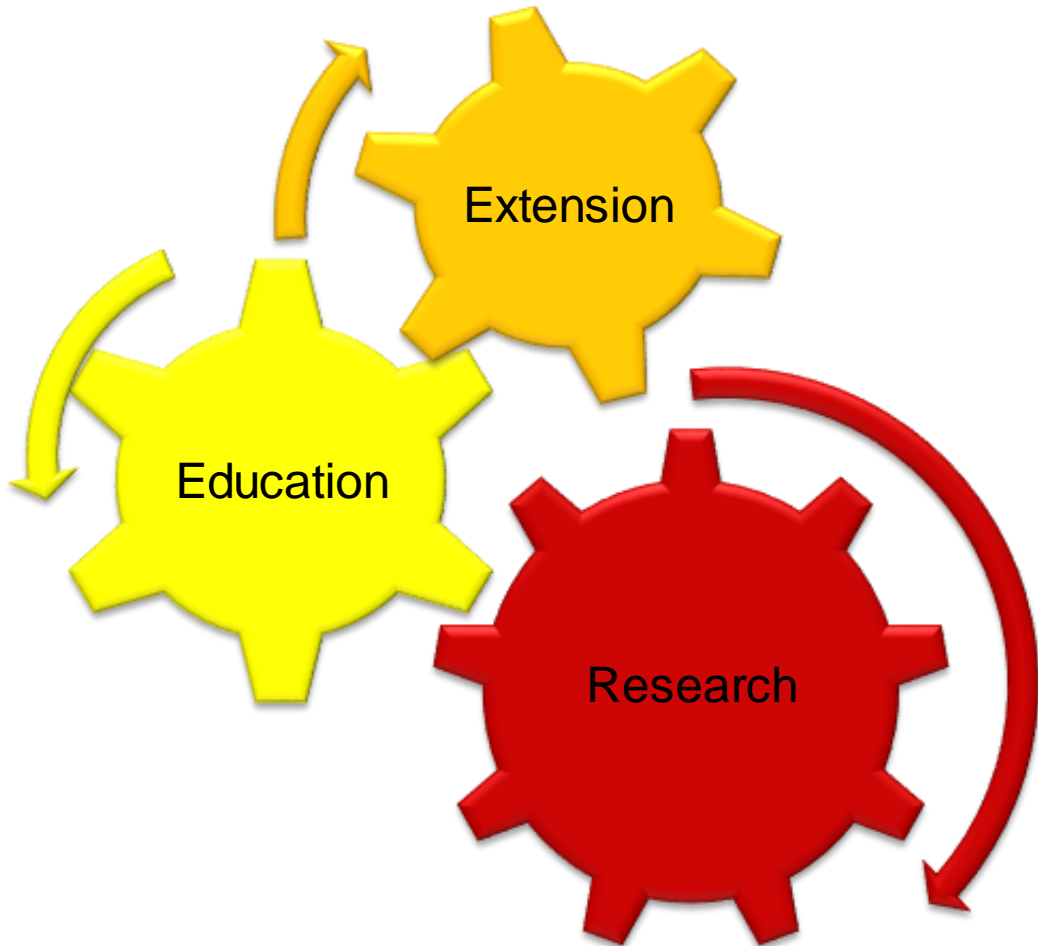


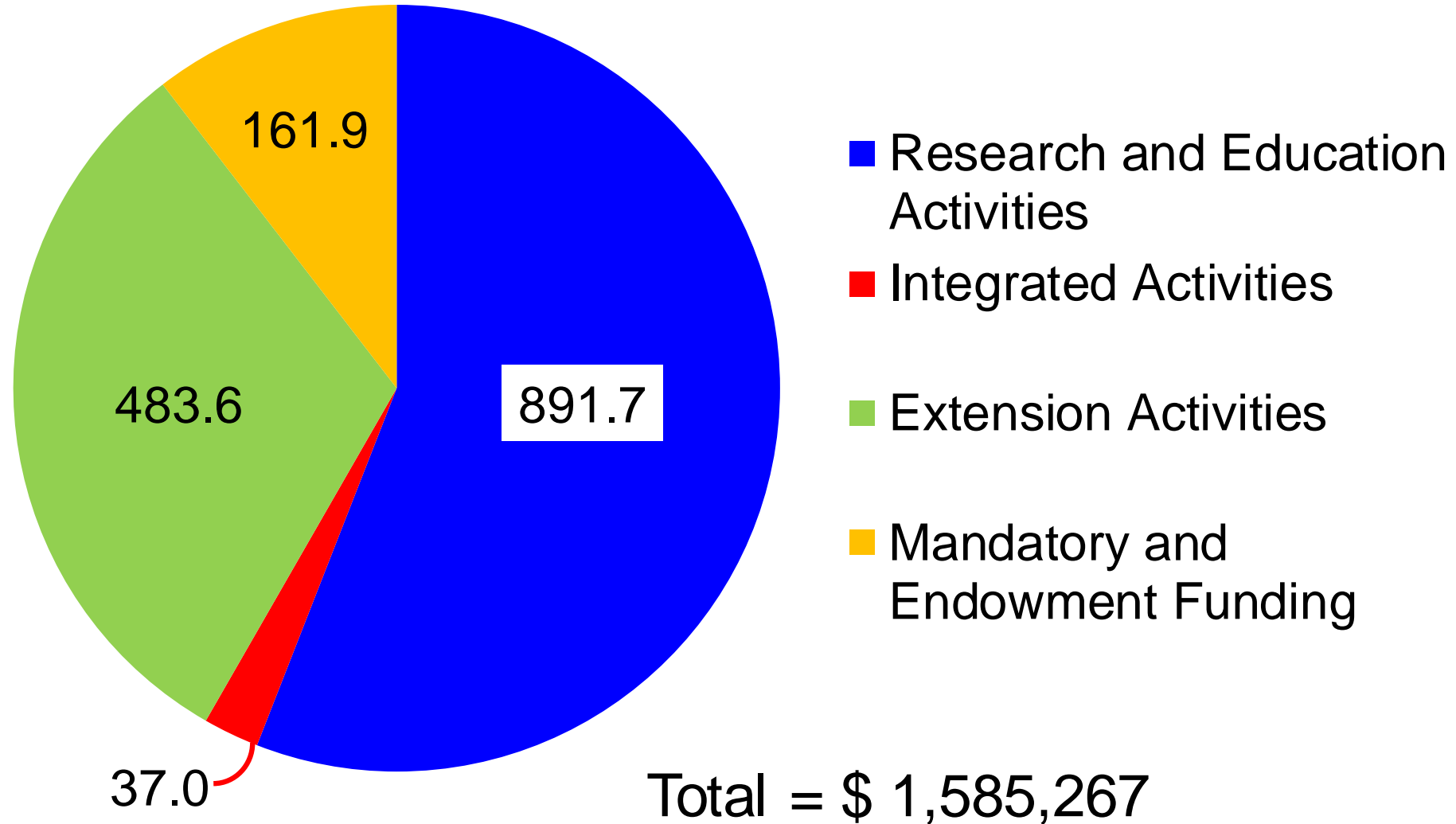


# NIFA Funding Support



- Research - Provide answers to the complex issues facing society
- Education - Support schools and universities in training the agricultural workforce
- Extension - Provide knowledge gained through research to agricultural workforce; theory to practice

## NIFA's FY 2018 Budget (million dollars)





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# Investing in Modeling



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# Why modeling?



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# Strategic Planning

- Gap analysis - What is versus what should be

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- Gap analysis - What is versus what should be
  - How do you see what doesn't exist?

# Strategic Planning

- Gap analysis - What is versus what should be
  - How do you see what doesn't exist?
    - Encounter a problem you can't solve
    - Modeling





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# Why modeling?

- Organize and interconnect what is known
- Makes complex systems more transparent
- Highlight and identify knowledge gaps
  - Areas needing research, next steps
- Better questions

# Does NIFA Invest in Modeling?

- Currently 80 active AFRI livestock projects with a stated modeling component
  - 8 directly involve the dairy enterprise
  - Ruminant metabolism, genomic prediction, whole genome selection, host-pathogen interaction, metabolic diseases, antimicrobial resistance, and nutrition



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# Funding Mechanisms

## Capacity Funding

- Hatch Research
- Evans-Allen
- Animal Health and Disease, section 1433
- McIntire-Stennis Cooperative Forestry
- Smith-Lever Formula for Extension

## Competitive Grant Funding



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# Competitive Grant Funding

## **>30 Competitive Programs with broad eligibility**

- Agriculture and Food Research Initiative (AFRI)
- Specialty Crop Research Initiative (SCRI)
- Organic Agriculture Research and Extension Initiative (OREI)
- Beginning Farmer and Rancher Development Program (BFRDP)
- Biotechnology Risk Assessment Research Grants Program (BRAG)

# AFRI – largest competitive grant program at NIFA

- \$400 million in FY 2018
- Three Request for Applications (RFAs) in FY 2018
  - Education and Workforce Development
  - Foundational and Applied Science Program
  - Sustainable Agricultural Systems - CAPs

<b>Plant Health, Production and Products</b>
<b>Animal Health, Production and Products</b>
<b>Food Safety, Nutrition and Health</b>
<b>Bioenergy, Natural Resources and Environment</b>
<b>Agricultural Systems and Technology</b>
<b>Agricultural Economics and Rural Communities</b>

# Education and Workforce Development

- Professional Development for Secondary School Teachers and Educational Professionals (PD-STEP)
- Research and Extension Experiences for Undergraduates (REEU) - Institution applies for a group of fellowships
- Predoctoral fellowships – Individual applies
- Postdoctoral fellowships – Individual applies



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# AFRI Foundational Program

- Mostly single function research
- Mostly fundamental research
- Don't change markedly from year to year
- Smaller grant size, \$500,000 maximum
- Individual investigators or small teams



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# AFRI Foundational Program

- Modeling is specifically invited in nine of the Foundational program area priorities.



# Newer Program Area Initiatives

- Critical Agricultural Research and Extension (CARE) – projects to yield solutions quickly that can be rapidly implemented by producers
- Exploratory – Innovative ideas not addressed previously; high risk–high reward; preliminary data

# AFRI Sustainable Agricultural Systems

## Sustainable Agricultural Systems:

- Only Coordinated Agricultural Project Grants, and Strengthening Coordinated Agricultural Project Grants
- Projects must be Integrated
- Research component is more applied
- Larger grant size, \$10 million
- Multiple investigators/large teams

# AFRI Sustainable Agricultural Systems

- Modeling is specifically invited in the program area priorities for Sustainable Agricultural Systems.



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# USDA Announces \$8.8 Million Available to Support Agriculture Programs at Hispanic-Serving Institutions



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GRANTS

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Regulations and Guidelines

Grant Training

## Grants

The lifecycle of grants and cooperative agreements consists of four phases: Pre-Award, Award, Post-Award, and Close Out. NIFA's Office of Grants and Financial Management provides support and guidance for award recipients during each of these phases.

### Grants Process





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# Applying for Grants

- Download RFA from NIFA website and obtain the Funding Opportunity Number (FON)

**USDA-NIFA-AFRI-005802**

- Download application package and instructions from [www.grants.gov](http://www.grants.gov) using the correct FON
- Submit electronically through [grants.gov](http://grants.gov)

# What To Do If You Have Questions?



Contact the  
Program Staff!!!

