



# Agriculture = working lands and waters

- Crops
- Pasture
- Range
- Forests
- Fresh- and saltwater aquaculture

# Research

- Enhance carbon sequestration through soil health and forestry, leverage the agricultural sector's renewable energy benefits for the economy, and capitalize on innovative technologies and practices to achieve a net reduction of the agricultural sector's current carbon footprint by 2050 without regulatory overreach
- Increase biofuel feedstock production and biofuel production efficiency and competitiveness to achieve market-driven blend rates of E15 in 2030 and E30 in2050. Achieve market-driven demand for biomass and biodiesel.





#### **USDA SCIENCE BLUEPRINT**

A ROADMAP FOR USDA SCIENCE FROM 2020 TO 2025

- Intramural programs
  - Agricultural Research Service
  - Economic Research Service
  - National Agricultural Statistics Service

- Extramural programs = NIFA
  - Competitive grants
  - Formula funds to State Agricultural Experiment Stations
  - Cooperative Extension

## Incentives/Loans/Grants

- Biopreferred program: mandatory Federal agency acquisition of biobased products
- Rural Development Energy Loans:
  - Advanced Biofuel Payment Program;
  - Biorefiner, Renewable Chemical and Biobased Product Manufacturing Assistance Program;
  - Higher Blends Infrastructure Incentive Program;
  - Rural Energy for American Program Energy Audits & Renewable Energy Development Grants;
  - Rural Energy for American Program Renewable Energy Systems & Energy Efficiency Improvement Loans & Grants

### Coordination Mechanism: Biomass Research and Development Initiative

- Comprises senior federal officials from eight agencies
- Chaired by USDA and DOE
- Coordinates R&D activities relating to biofuels and biobased products
- Provides recommendations to the points of contract concerning administration of the BRDi



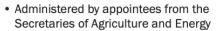
- Comprises ~30 members from academia, industry, and nonprofit organizations
- Advises the Secretaries of Energy and Agriculture on the technical focus and direction of the request for proposals as well as procedures for reviewing and evaluating the proposal
- Evaluates and performs strategic planning on BRDi activities

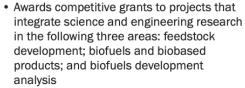
#### Technical Advisory Committee













Biomass R&D Initiative (BRDi)



- Biomass R&D Act of 2000
- Food, Conservation and Energy Act of 2008
- Agricultural Improvement Act of 2018