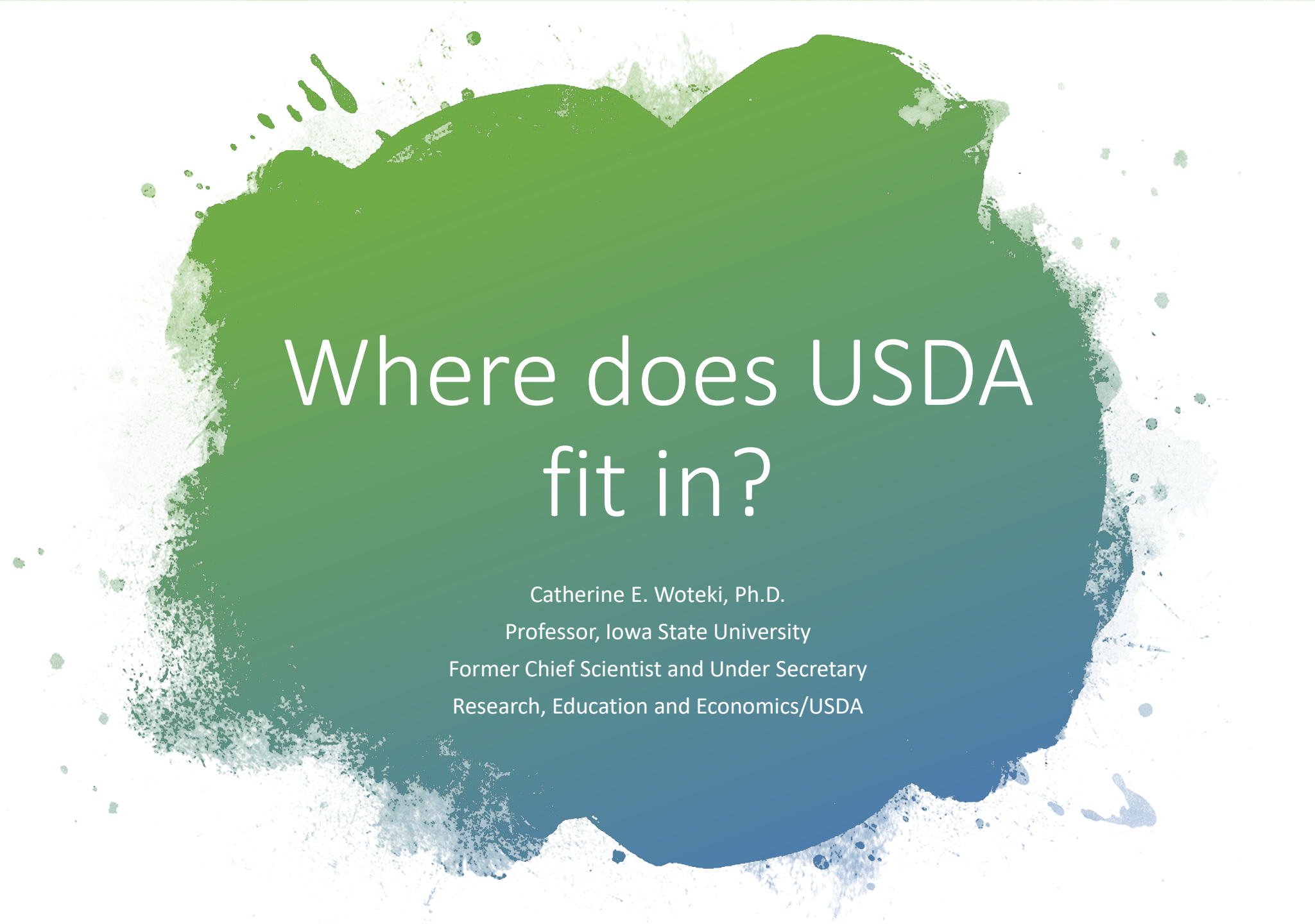




Where does USDA fit in?

Catherine E. Woteki, Ph.D.

Professor, Iowa State University

Former Chief Scientist and Under Secretary
Research, Education and Economics/USDA



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 in 2050. Achieve market-driven demand for biomass and biodiesel.





USDA SCIENCE BLUEPRINT

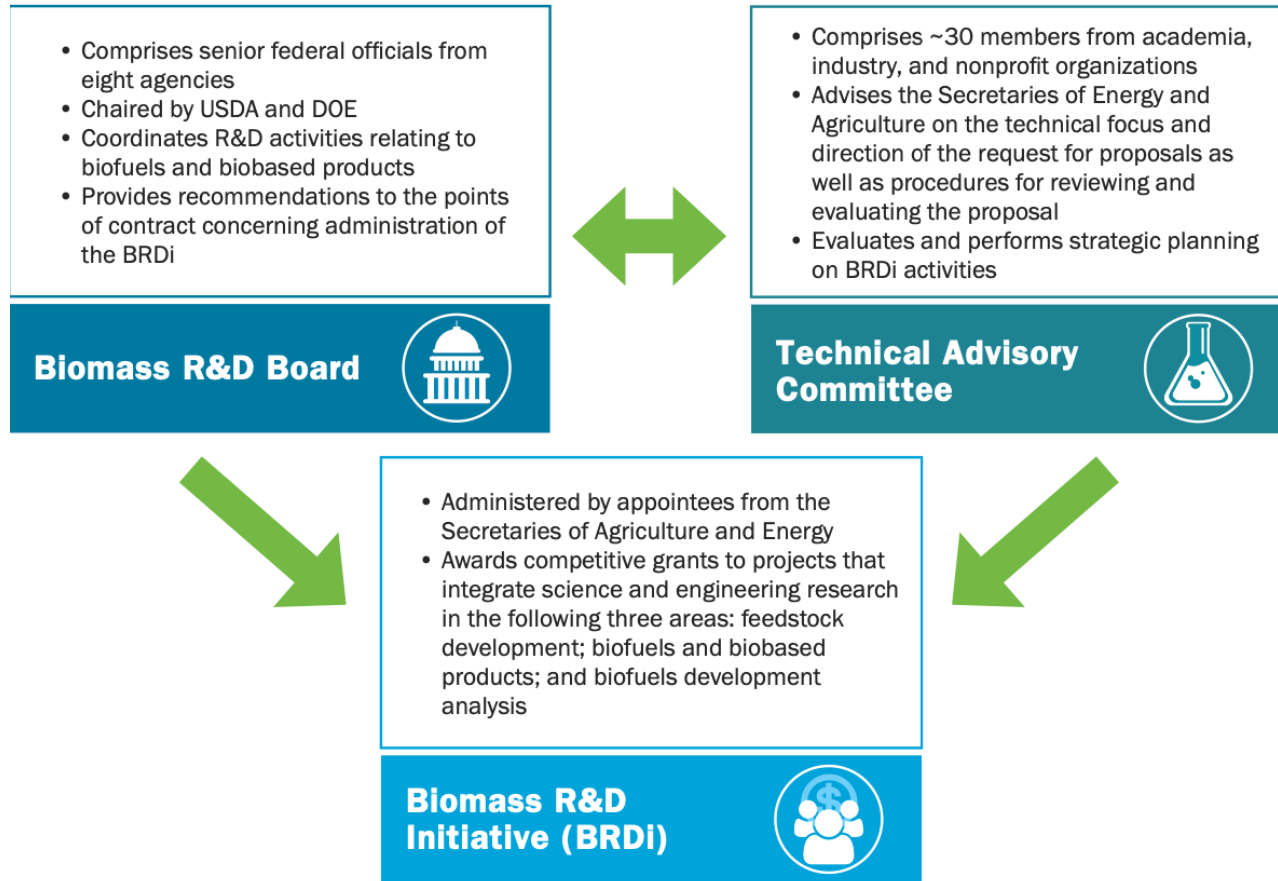
A ROADMAP FOR USDA SCIENCE FROM 2020 TO 2025

- 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



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