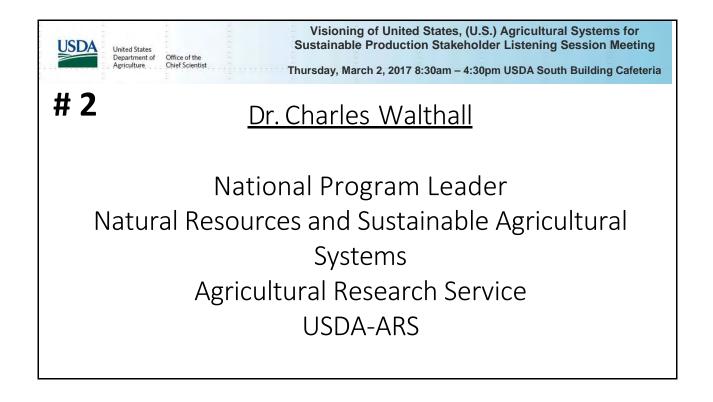
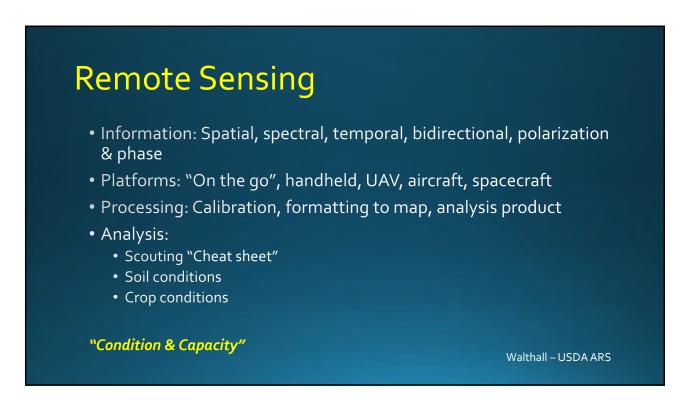


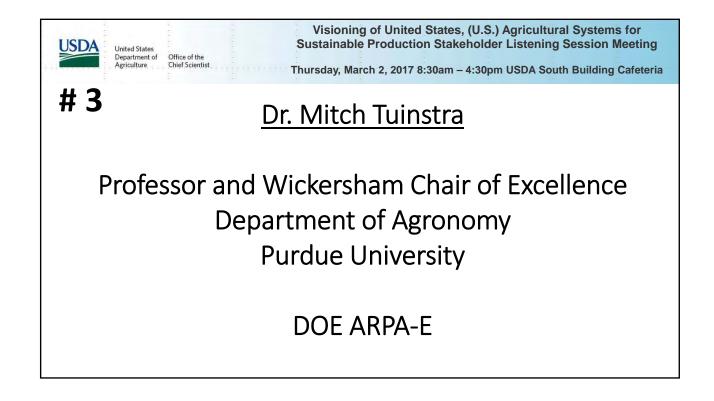
Usioning of United States, (U.S.) Agricultural Systems for Sustainable Production Stakeholder Listening Session Meeting Thursday, March 2, 2017 8:30am – 4:30pm USDA South Building Cafeteria
https://www.usda.gov/oce/sustainable/definitions.htm
Farm Bills: The 1977 and 1990 "Farm Bills" describe sustainable agriculture as an
integrated system of plant and animal production practices having a site-specific
application that will, over the long term:
 satisfy human food and fiber needs;
• enhance environmental quality and the natural resource base upon which the
agricultural economy depends;
• make the most efficient use of nonrenewable resources and on-farm resources
and integrate, where appropriate, natural biological cycles and controls;
 sustain the economic viability of farm operations;
 enhance the quality of life for farmers and society as a whole.

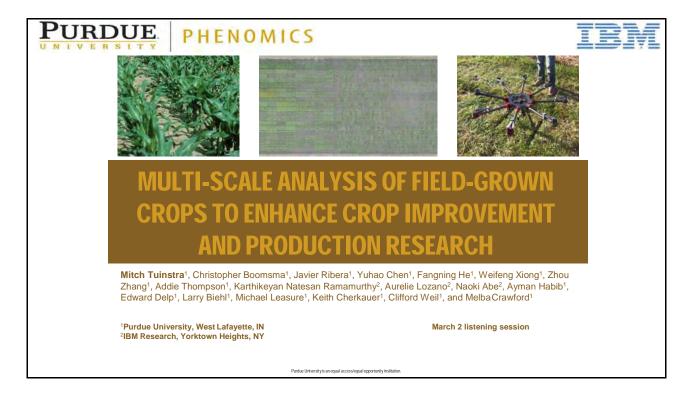


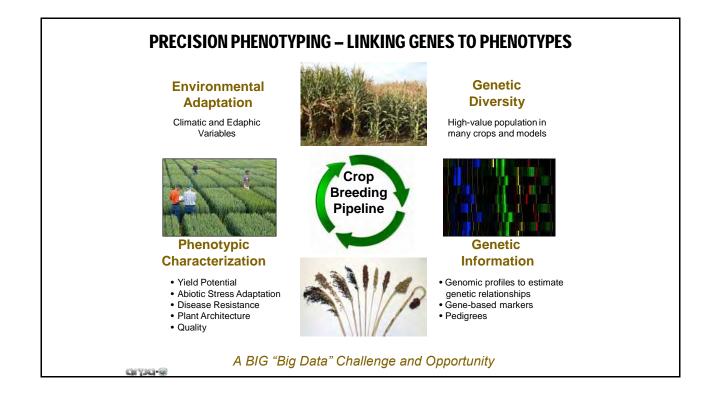


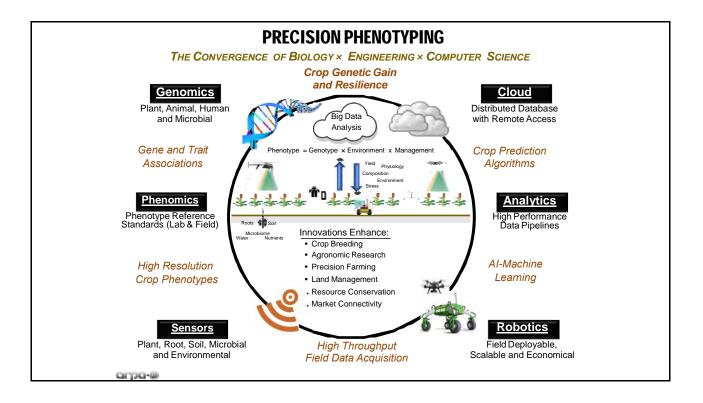


Decision Support" Information for producer, land manager: "Options" Real-time & Retrospective analysis Genetics x Environment x Management interactions: GxExM Information of the state of

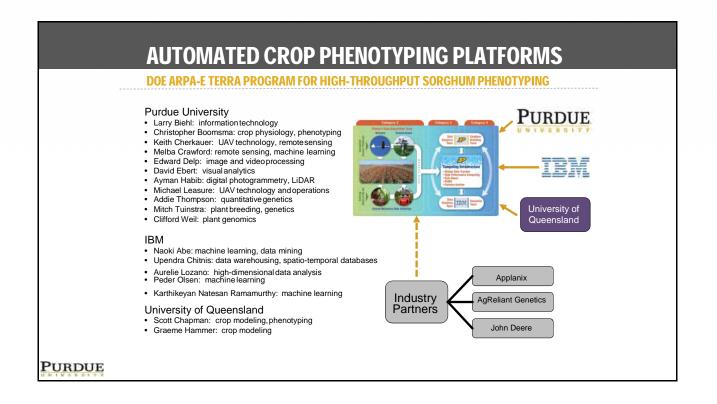




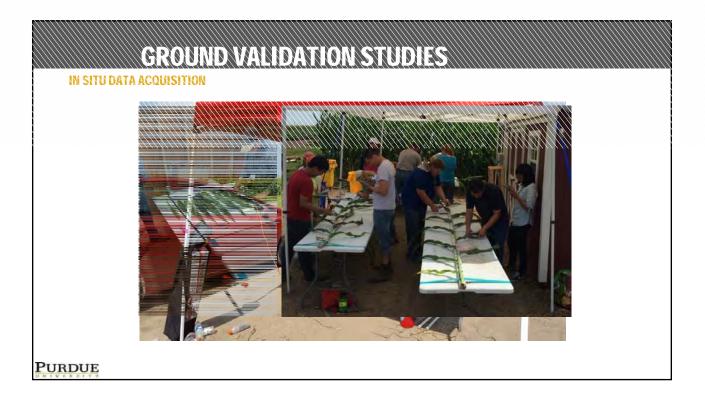


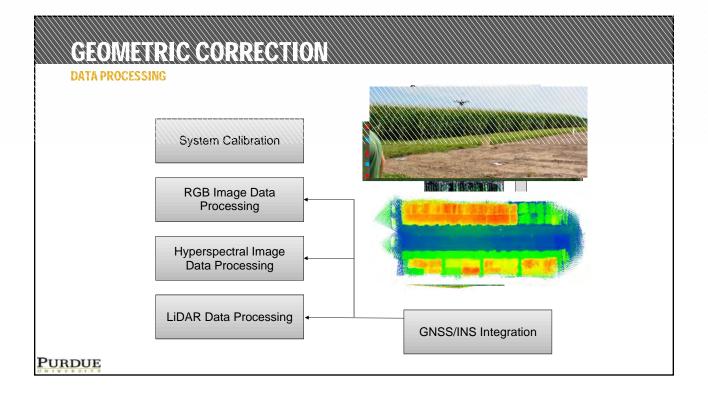


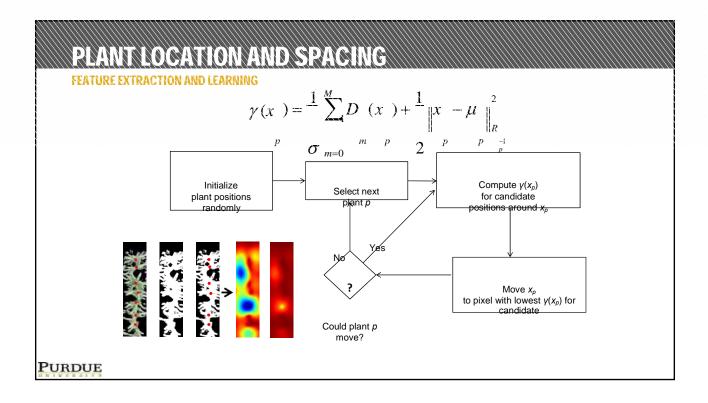


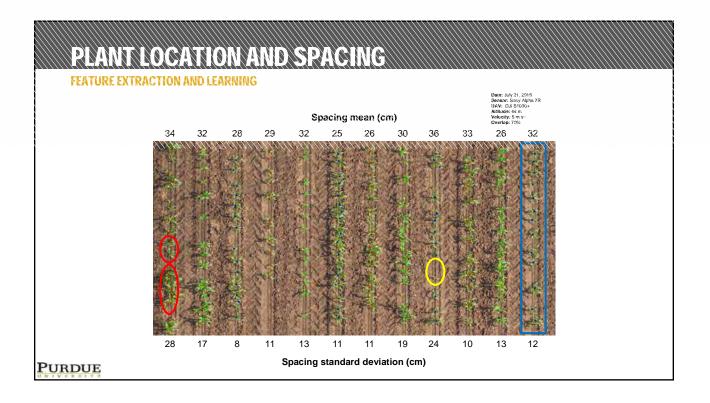


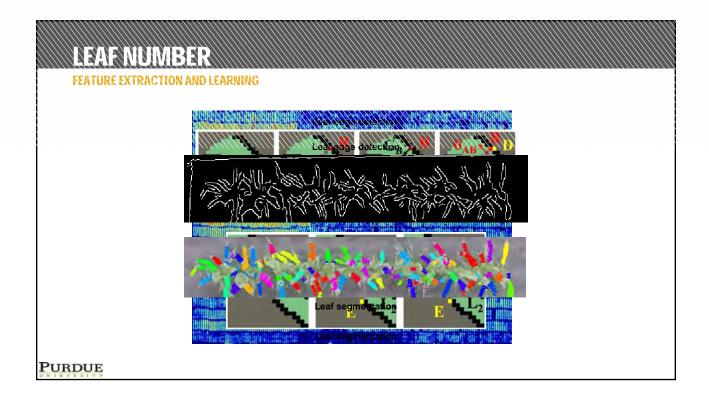


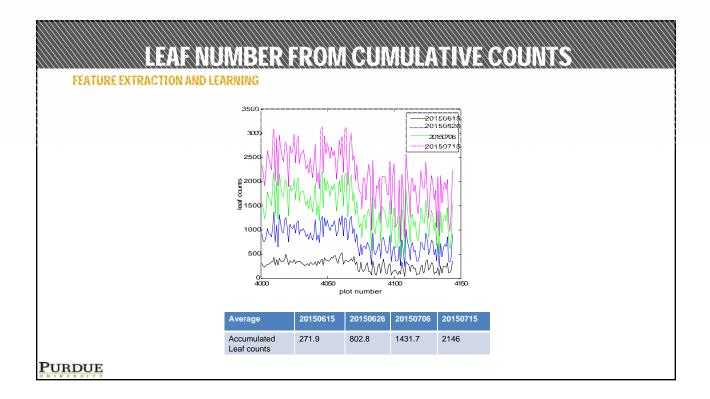


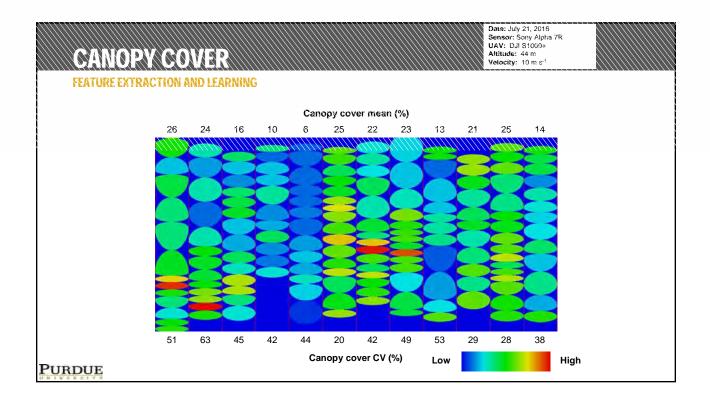




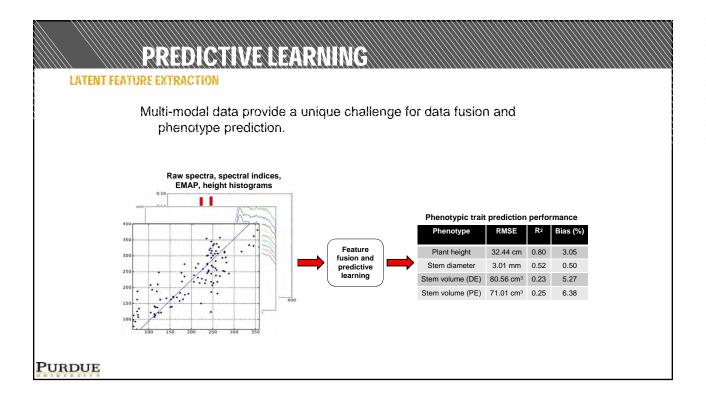




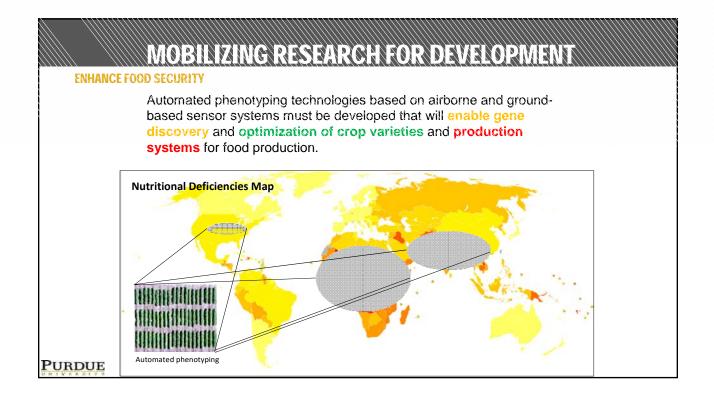


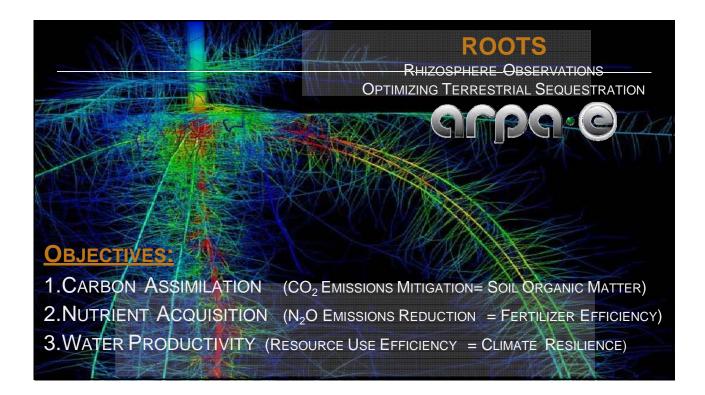


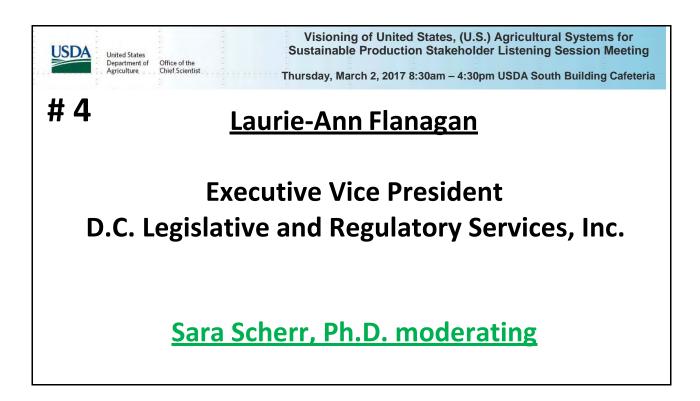
PLANT HEIGHT AND LODGING FEATURE EXTRACTION AND LEARNING	
August 9, 2016 215 m 220 m	
August 17, 2016	
PURDUE	

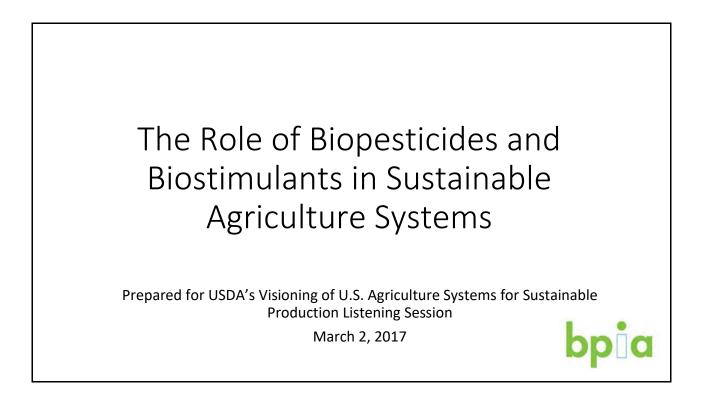


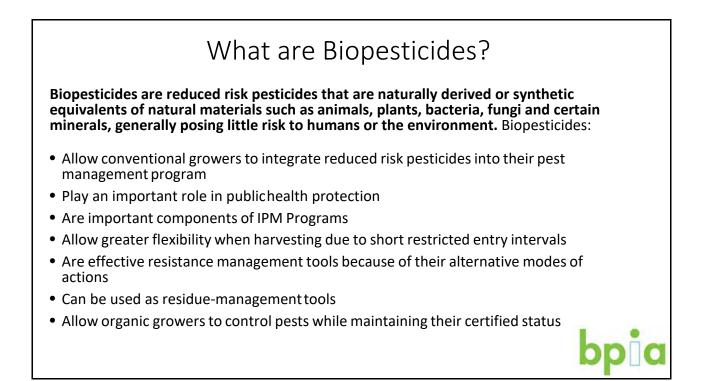
GENE GENOME WIDE ASSOCIATI	DISCOVERY STUDIES – PLANT HEIGHT
Manhatta	n plot for height histogram features
(angado) Gotoriano Gotoriano	A Bin 19 (203 S-cm) Bin 21 (225 S-cm)
PURDUE	5.5e+07 5.6e+07 5.7e+07 5.8e+07 5.9e+07 6.0e+07 6.1e+07 6.2e+07 Chromosome 7 Position (bp)







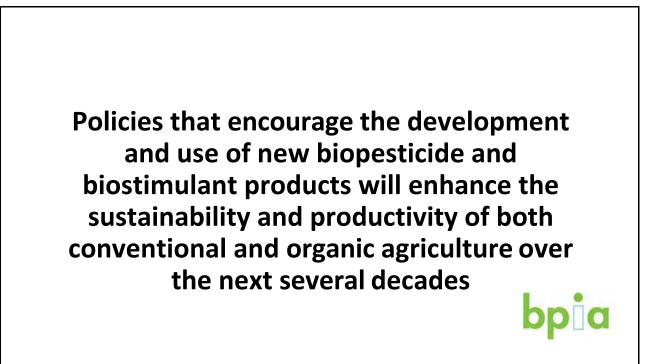


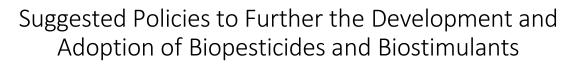




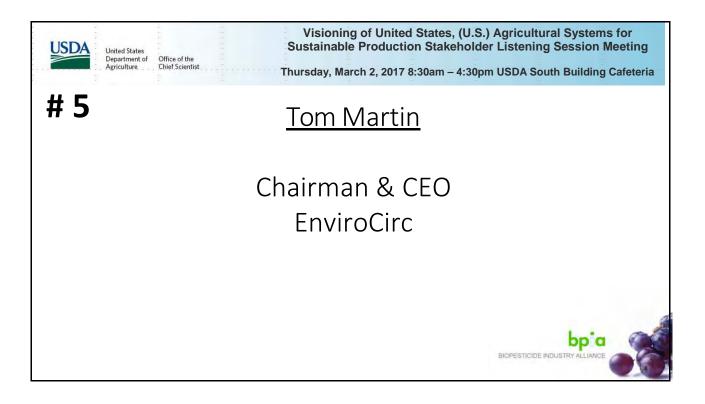
Biostimulants are derived from natural or biological sources such as bacterial or microbial inoculants, biochemical materials, amino acids, humic acids, fulvic acid, seaweed extract and other similar materials. These products improve agricultural sustainability and soil health. Biostimulants:

- Enhance plant growth and development
- Improve the efficiency of plant nutrients, as measured by either improved nutrient uptake or reduced nutrient losses to the environment, or both; and/or
- Act as soil amendments, with demonstrated ability to help improve soil structure, function or performance and thus enhance plant response





- Increase funding for USDA's Minor Crop Pest Management (IR-4) Program's Biopesticide and Organic Support Program and other research programs related to pest control
- Add an input provider's seat to the National Organic Standards Board
- Clarify the definition of biostimulants and consistently apply that definition across all associated regulatorystructures
- Encourage the use of biopesticides and biostimulants in USDA Conservation Programs
- Task the USDA BioPreferred Program and BPIA to develop criteria for certifying biopesticides as USDA BioPreferred



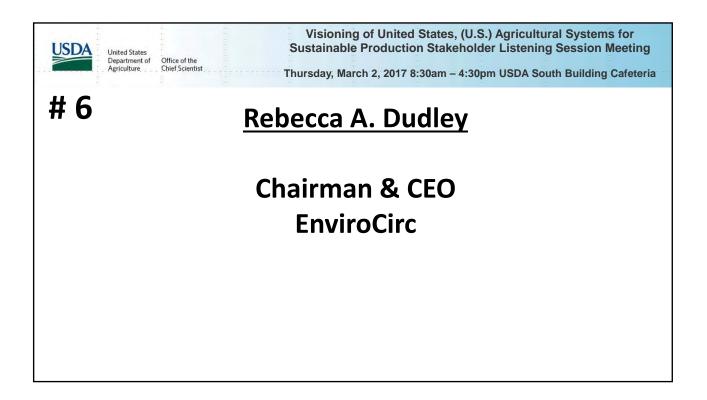






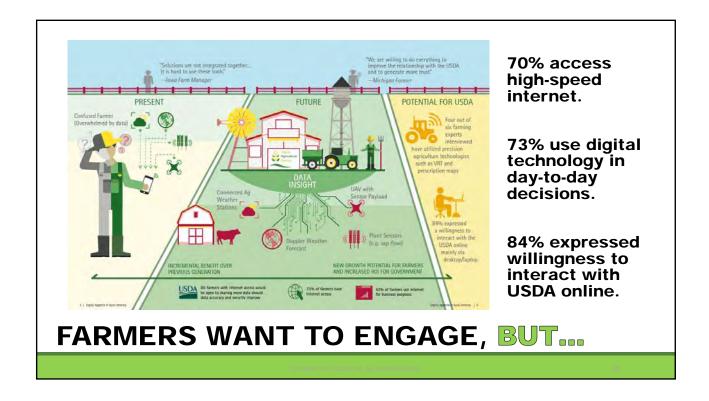


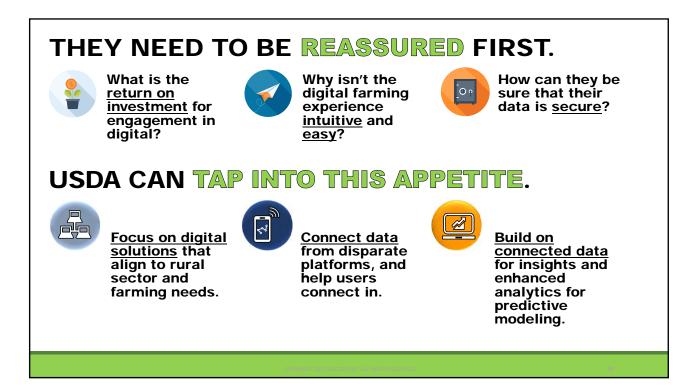


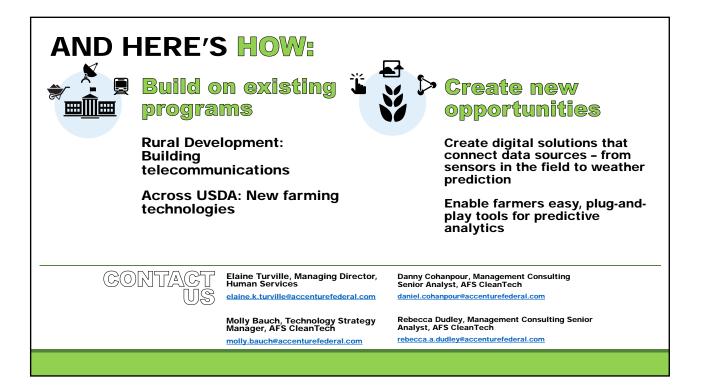


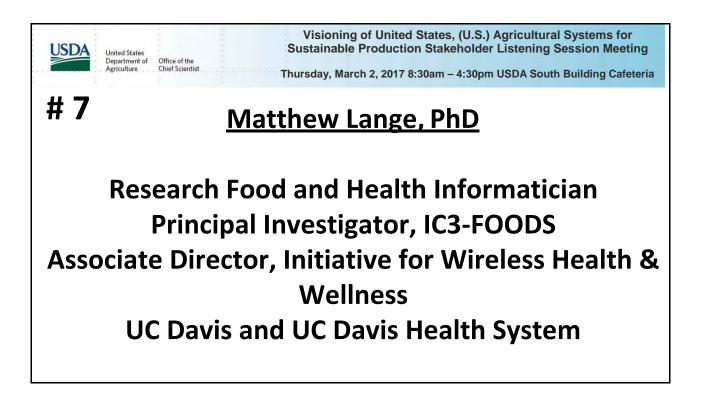


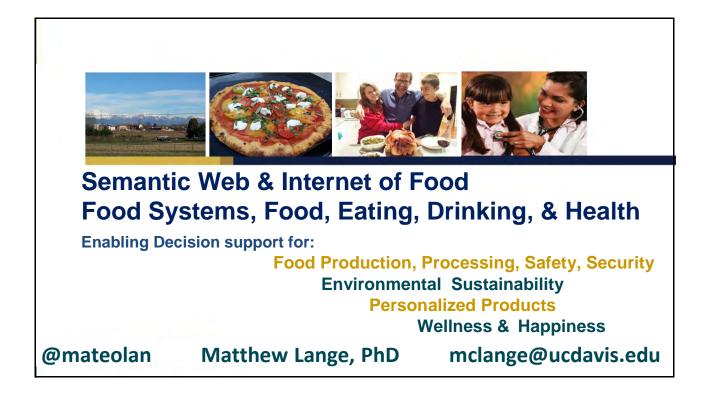






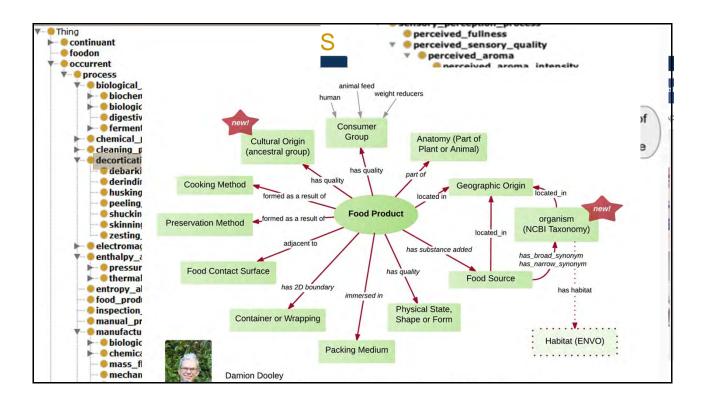




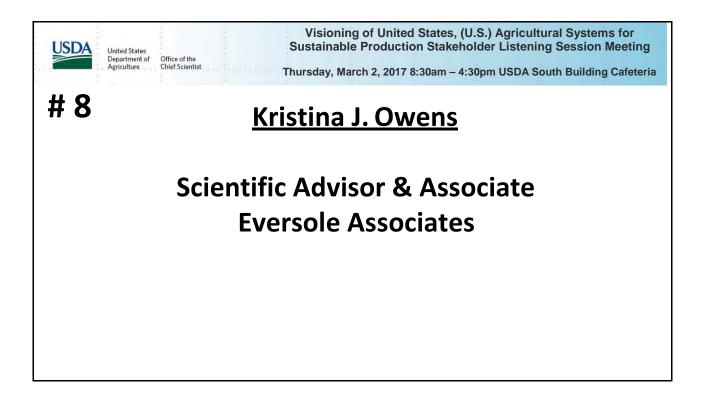






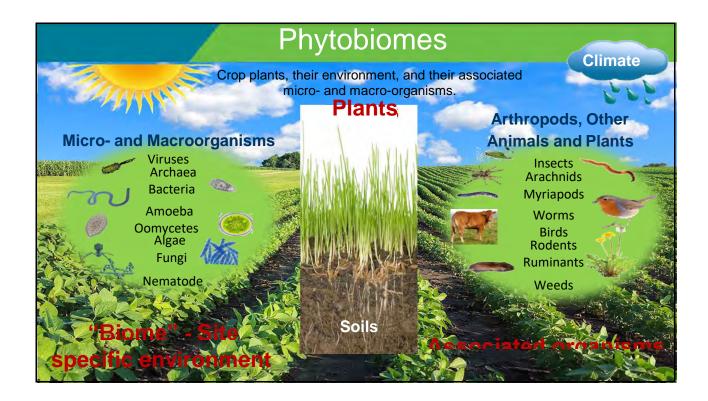


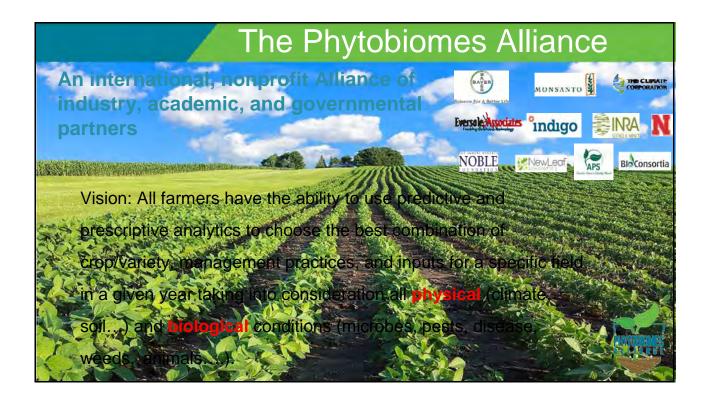












Alliance Priorities

- A whole genome sequence database for microbes that includes geospatial data
- · Accessible, curated strain repository for all agriculturally relevant microbes
- with back-up at ARS genetic resources preservation labs
 - Multidisciplinary phytobiomes research coordination networks.
 - Standards development sampling, storage, reference communities
 - , reference datasets for analytical tool development

hologicals, including biopesticides and

· Research linking site-specific physical & biological data for crops, forests

mitting

and grasslands

The comments and opinions expressed herein are those of individual stakeholders made publicly and do not necessarily represent those of USDA

Science to support the regulations that may exist for agr





