











Data Summit: Changing the Face, Place, and Space of Agriculture

- 2016
 - Announced NIFA's Food and Agriculture Cyberinformatics and Tools (FACT) initiative (October 2016)
 - Gathered input on needs (Ideas Engine)
 - Chicago overlapping with Midwest Big Data Hub meetings
- 2017
 - Solicited workshop proposals
 - Funded workshops
 - Big Data for (Sm)ALL Farmers, G2F, Privacy)
- 2018
 - Request for Applications



NIFA's Data Opportunity Applications and Humanechnologies Data design and Analysis **Technology-Data Interactions** Implementation Develop data-integration and data-Connect multiscale data Examine how agricultural data and Build scalable data computer systems are used to improve human-human, humaninfrastructure and quality tools to improve analytic management systems conceptualize Open Data FAIR principles (findable, acceptable, interoperable, and re-usable) for data Bridge real-time distributed and parallel data systems technology, and human-decision capability experiences Design and Integrate visualization with Create new methodologies and implement new statistical and analytic techniques to algorithms and frameworks for tracking and support discovery and analysis Develop standards and best methods for depicting processing data identify new approaches to data archiving and practices with other Federal massive data Engage students and professionals, and international teams, universities and 2 public/private sectors organizations sharing Develop decision support tools that use diverse data sources and BigData analytics to create best value to US agriculture



