



Midwest Big Data Hub

Mobilizing Partnerships for Data Innovation

October 25, 2016

12th IEEE International Conference on eScience
Baltimore, MD

Digital Agriculture - Unmanned Aircraft Systems, Plant Sciences and Education

Travis Desell, University of North Dakota



Images captured from YouTube videos, Digital Ag Spoke All-Hands Meeting, May 2016

www.midwestbigdatahub.org

National Science Foundation through award #1636865

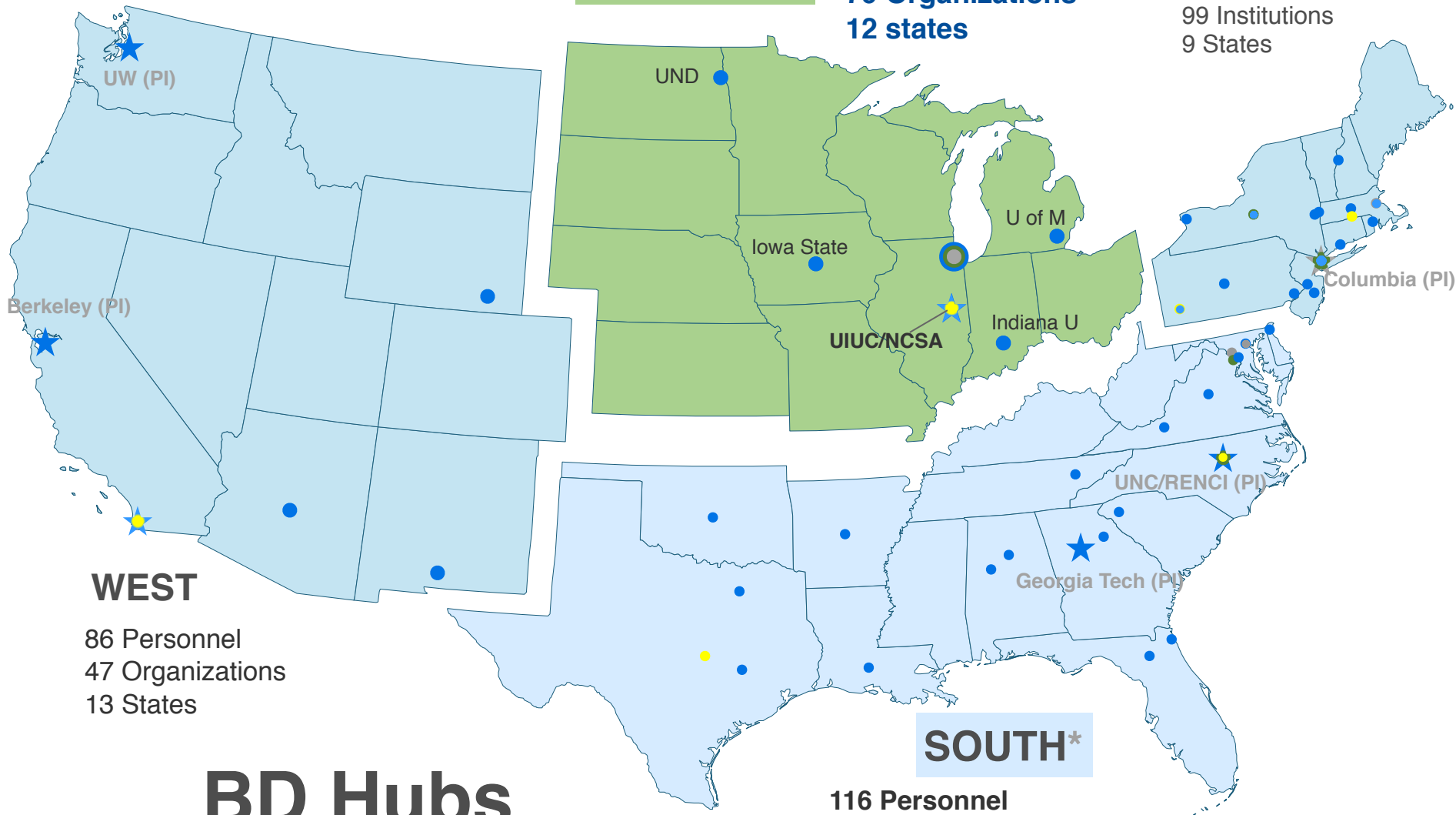
NSF Big Data Hubs

MIDWEST

106 Personnel
79 Organizations
12 states

NORTHEAST

193 Personnel
99 Institutions
9 States



WEST

86 Personnel
47 Organizations
13 States

BD Hubs

SOUTH*

116 Personnel
95 Organizations
15 States + DC

*South points indicate Senior Personnel

Alaska & Hawaii are part of the West region
US Territories can participate in any region



Midwest Big Data Hub



Ed Seidel
PI (Illinois)



Beth Plale
Co-PI (Indiana)



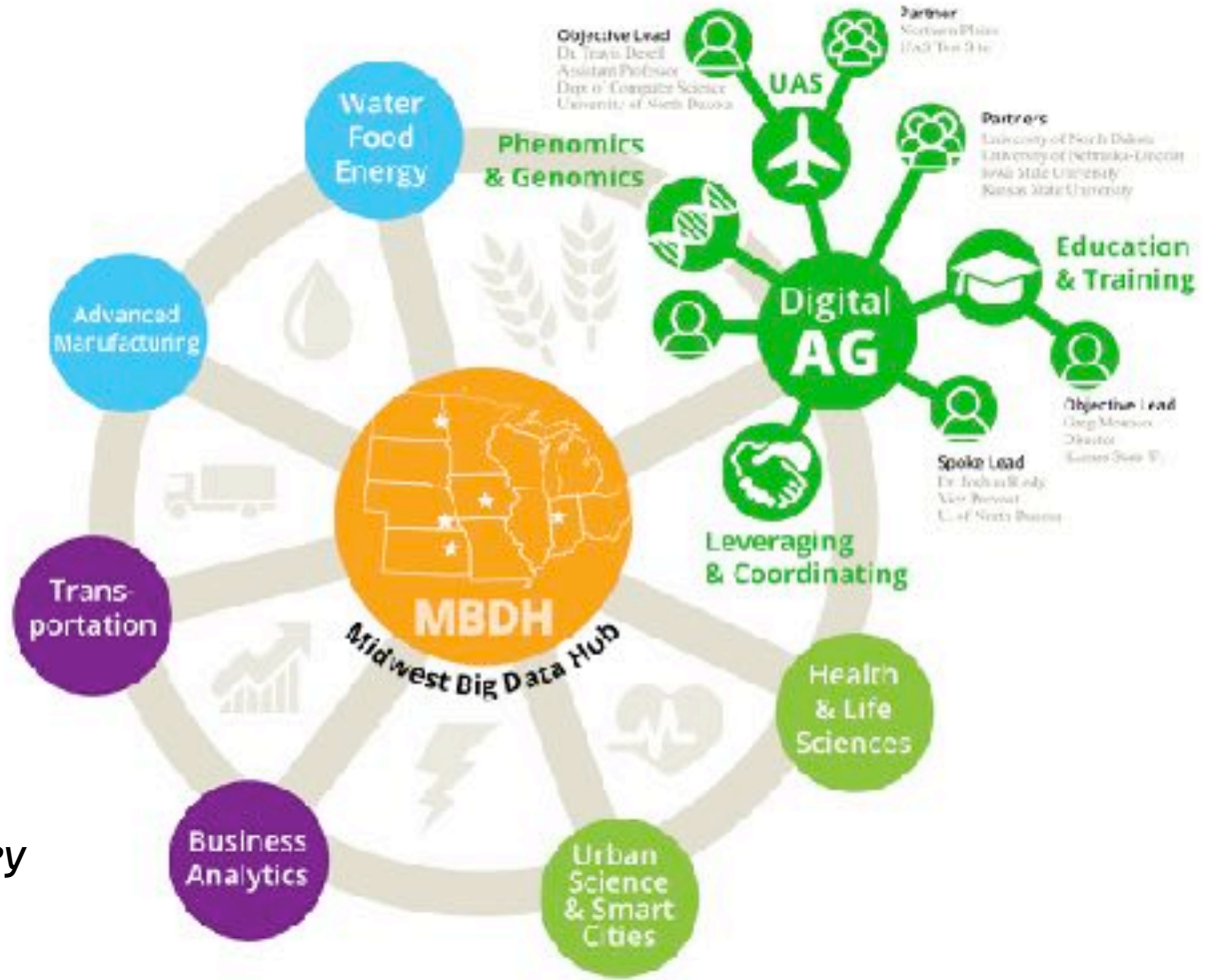
Sarah Nusser
Co-PI (Iowa State)



Brian Athey
Co-PI (Michigan)



Grant McGimpsey
Co-PI, (UND)



Digital Agriculture Spoke





Digital Ag Spoke Activities: Fall 2015 – Fall 2016

- Organized initial leadership; list of participants;
- Provide funding opportunities document
- Engaged with Hub on NSF Spoke solicitation stewardship activities
- Assisted with MBDH All Hands meeting, March 21-22
- CCC funding - 3 events: UND Early Career Big Data Summit, ISU Digital Ag Spoke All Hands, U of IA Midwest Big Data Hackathon
- 2 NSF Spoke \$1 mil submissions
 - UND, U of Neb., Kansas State, Iowa State awarded - NSF Spoke: Digital Agriculture - Unmanned Aircraft Systems, Plant Sciences, and Education
- Digital Ag All Hands meeting, May > 100 participants; approx. 20% early career
- Formal & informal connections - e.g., Purdue (North American Plant Phenotyping Network Inaugural Convening Event)

DA Future Activities

- Formalize leadership & governance
- Operationalize NSF Spoke award
- U of Iowa Environmental Digital Data workshop
- Prepare for next NSF Spoke solicitation
- Knit together Plant science databases - genomic-phenomic
- Workshops: DataFOUR Big Data Summit - May, 2017- DA component
- Hub can assist with master lists, communication of Spoke activities, sharing funding opportunities
- Spoke can share information, results of events, tools & datasets

