Midwest Big Data Hub

Accelerating the Big Data Innovation Ecosystem



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Funded by the National Science Foundation (award #1550320)

Our mission:

Develop effective cross-sector, data-enabled networks to solve shared problems of regional and societal interest.

Cultivate communities

- Convene meetings; accelerate partnership development; catalyze new research; increase access to data tools & services
- Shared use cases and data sets to train cross-functional teams

Reduce friction in Data-to-Decision systems

- Sharing and access arrangements (policy; use agreement templates)
- Pilot and Demonstration projects

Help drive regional economic development & inclusion

- Data literate society
- Workforce development, training and education
- Leverage economies of scale (infrastructure)



MBDH projects & partnerships

> Open Commons Consortium

Demonstration project with the ROGER cyberGIS resource on opening ~200TB of NOAA environmental data

tranSMART Foundation

> Enable the development of precision medicine – by opening biomedical data

National Data Service

> MBDH community access to hardware/software test-bed environments

> Inclusion in the NDS Labs Workbench catalogue

HealthDataMatters.org

Health data resource for government, academic, non-profit, community and industry partners in Cleveland & Cuyahoga County, Ohio.

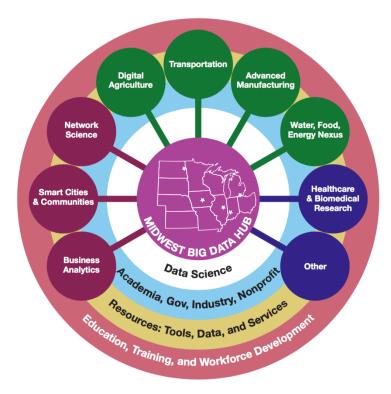
Regional Big Data Innovation Hubs

NTIS Joint Venture Partnership: rapid deployment of expert data teams



Thematic Communities in the Midwest Hub

- Digital Agriculture
- Food, Energy, & Water
- > Metro/Urban Sciences
- Transportation
- > Network Sciences
- > Advanced Manufacturing
- Business Analytics
- > Health & Biomed Research
 - Materials Sciences
 - Unmanned Systems, robotics, and sensors







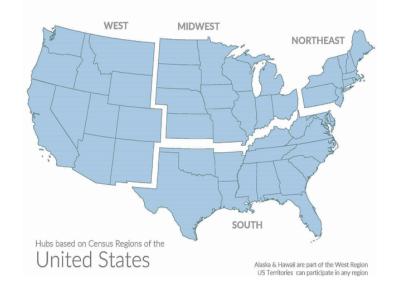
Regional Data Innovation Hubs

History

2012: White House "Big Data Research and Development Initiative" → \$200 million

2015: NSF \rightarrow \$6 million to four Hubs and set to award another \$10 million to the Spokes, this year.

#BDHubs











Thank you



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