Welcome to the Midwest Big Data Hub

This space provides documentation, resources, and discussion related to the Midwest Hub (MBDH), which is based at the University of Illinois at Urbana-Champaign.

Overview

A diverse and committed network of partners has created a nimble and flexible regional Midwest Big Data Hub (MBDH) to address increasing challenges in collecting, managing, serving, mining, and analyzing rapidly growing and increasingly complex data and information collections to create actionable knowledge and guide decision-making. MBDH will capture special opportunities, interests, and resources unique to the Midwest.

MBDH has formed a distributed hub and governance structure. The hub supports activities that aggregate expertise, projects, and resources, enabling communities to assemble and function along multiple *spokes*, including specific themes of importance to the Midwest (across three broad themes of society, natural/built environments, and biomedical sciences). Integrative *rings* connect all spokes and are organized around themes of data sciences, tools, and services needed to collect, store, link, serve, and analyze complex data collections, and educational activities to advance the knowledge base and train a new workforce in the practice and use of data science and services. Groups across the region are naturally incentivized to work together as they all realize that the challenges they face are larger than any single group, institution, state, or region can adequately address alone.

NSF-led Initiative on Big Data Regional Innovation Hubs

- **NSF leads 10 Year initiative to enable**
    - Big Data Research (BIGDATA research program),
    - Cyber-Infrastructure (DIBBs, CC-DNI),
    - Education (NRT) and
    - Partnerships (BD Hub)

- **To build partnerships, BD Hub Initiative started**
    - Four National Regions – South, Northeast, Midwest, West
        - **NORTHEAST**: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont;
        - **MIDWEST**: Illinois, Indiana (Co-lead), Iowa (Co-lead), Kansas, Michigan(Co-lead), Minnesota, Missouri, Nebraska, North Dakota (Co-lead), Ohio, South Dakota, and Wisconsin;
        - **SOUTH**: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and
        - **WEST**: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.
    - Website for information sharing: https://bdhub.info/

- **Three phases of BD Hub Initiative within each Region**
    - Phase 1 – Build BD Hub Partnerships
        - Funding in this phase has only funds to support cooperating mechanisms for creation of strong partnerships (executive director, staff person to organize meetings/workshops /webinars, to enable portal for document sharing, etc
    - Phase 2 – Build BD Spokes
        - Spokes are regional themes (e.g., smart cities, transportation, food-water-energy)

Resources

Search

- Spoke and Node proposals in Phase 2 and Phase 3 will be funded by NSF, NIH, … (depending on the topic of the spoke, e.g., health-related spoke will go to NIH)
  - Phase 3 – Build BD Nodes
    - Nodes are local themes within a spoke (e.g., Chicago smart city theme)
    - Spoke and Node proposals in Phase 2 and Phase 3 will be funded by NSF, NIH, … (depending on the topic of the spoke, e.g., health-related spoke will go to NIH

Project Dates: 9/1/2015 - 3/30/2019

(first 3yr funding)

Website: http://midwestbigdatahub.org/

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