West Big Data Innovation Hub Overview

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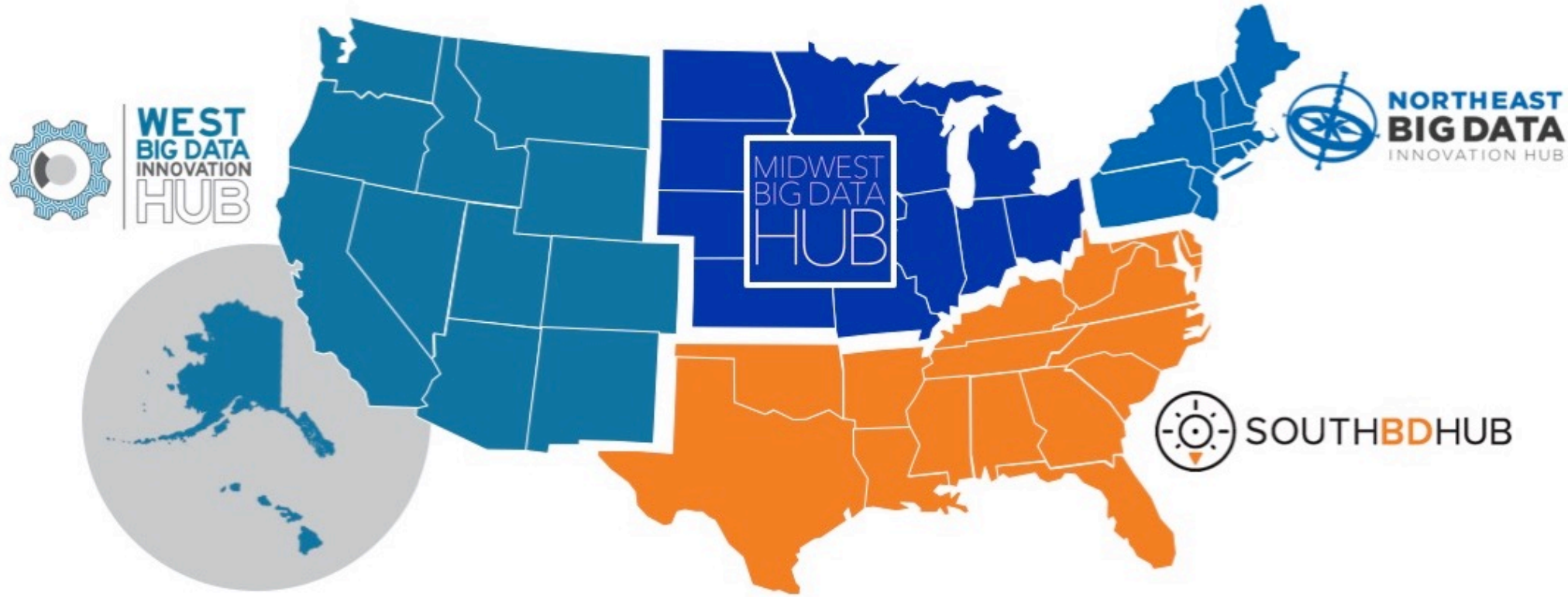
Big Data Hubs: What We Do

Build and strengthen partnerships across industry, academia, nonprofits, government

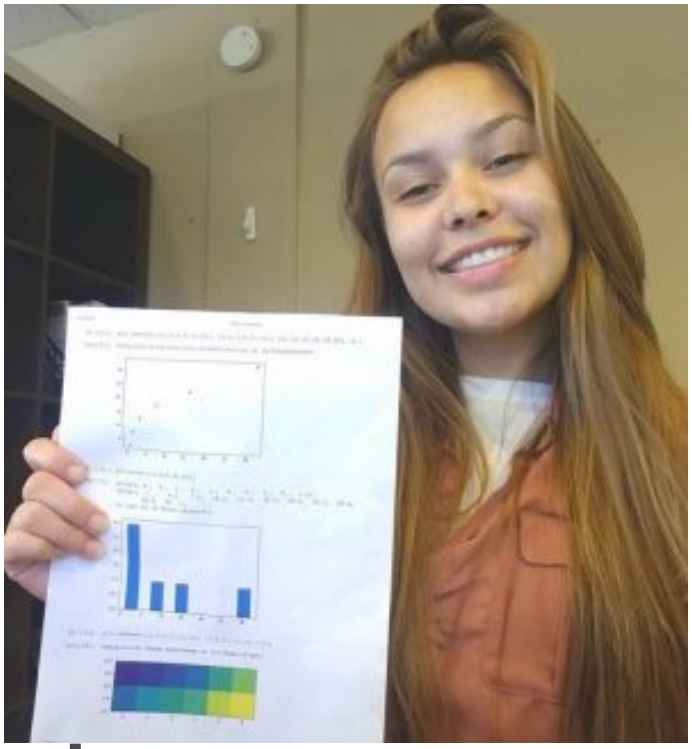
- to address societal + scientific challenges,
- spur economic development,
- and accelerate innovation in the big data ecosystem

Four hubs, one mission



Regional Big Data Innovation Hubs are supported through the National Science Foundation Awards 1550312, 1550224, 1550328, 1550320, 1550284, 1550305, 1550291, 1916481, 1916573, and 1915774

Local: Carpentry & Data Awareness Event Pala Reservation

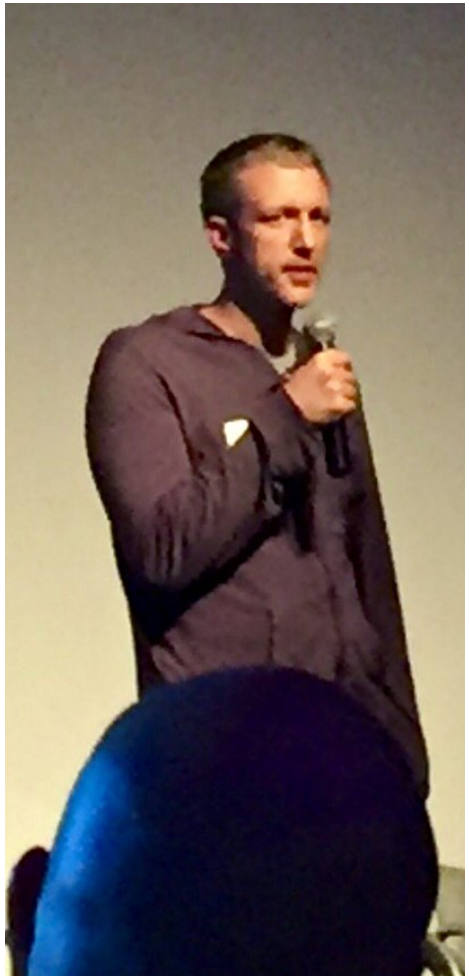


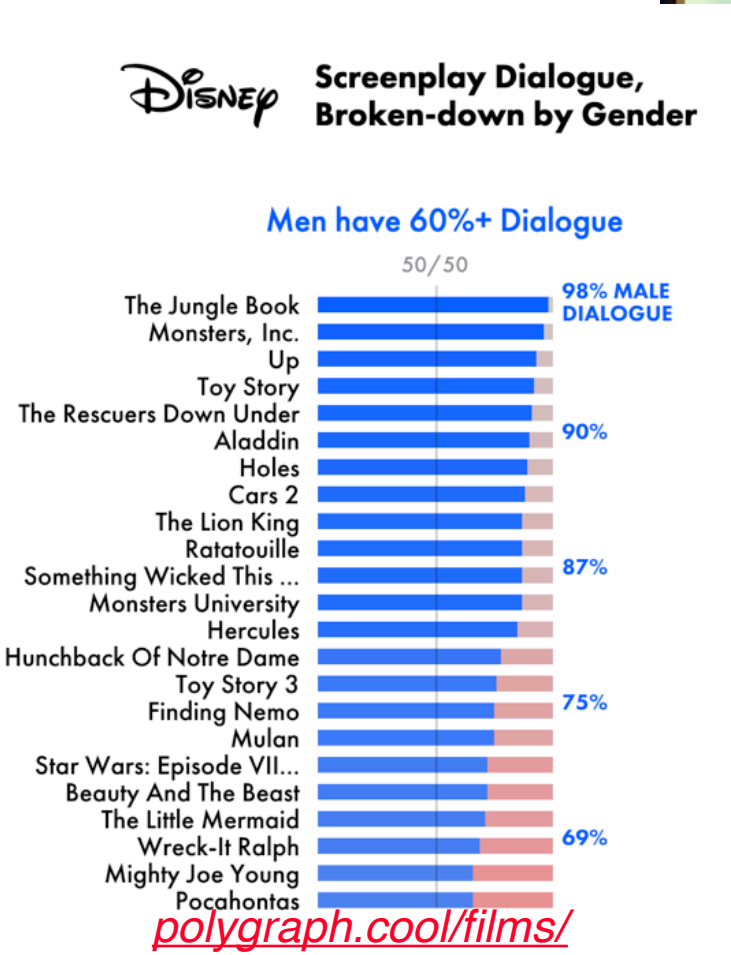
- Co-hosted with San Diego Tribal Digital Village
- 2 day workshop
- Topics: python, intro to data, git, visualization
- Microsoft Jupyter notebook platform, Chromebooks
- Spotlight: Shianne Elam https://bit.ly/2MyRHaK

THE CARPENTRIES

Regional: Data Storytelling

Science of Storytelling with data (and great stories!)





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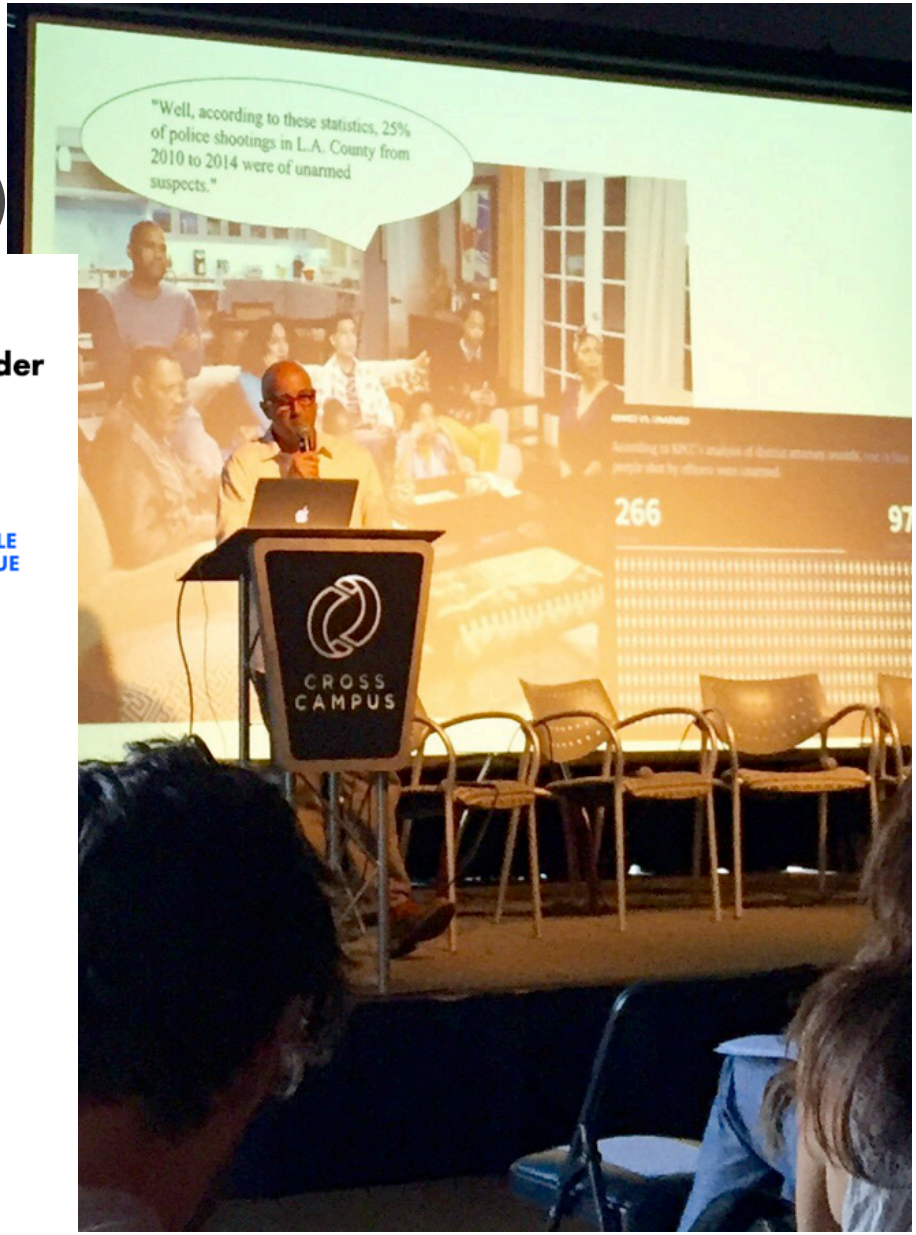
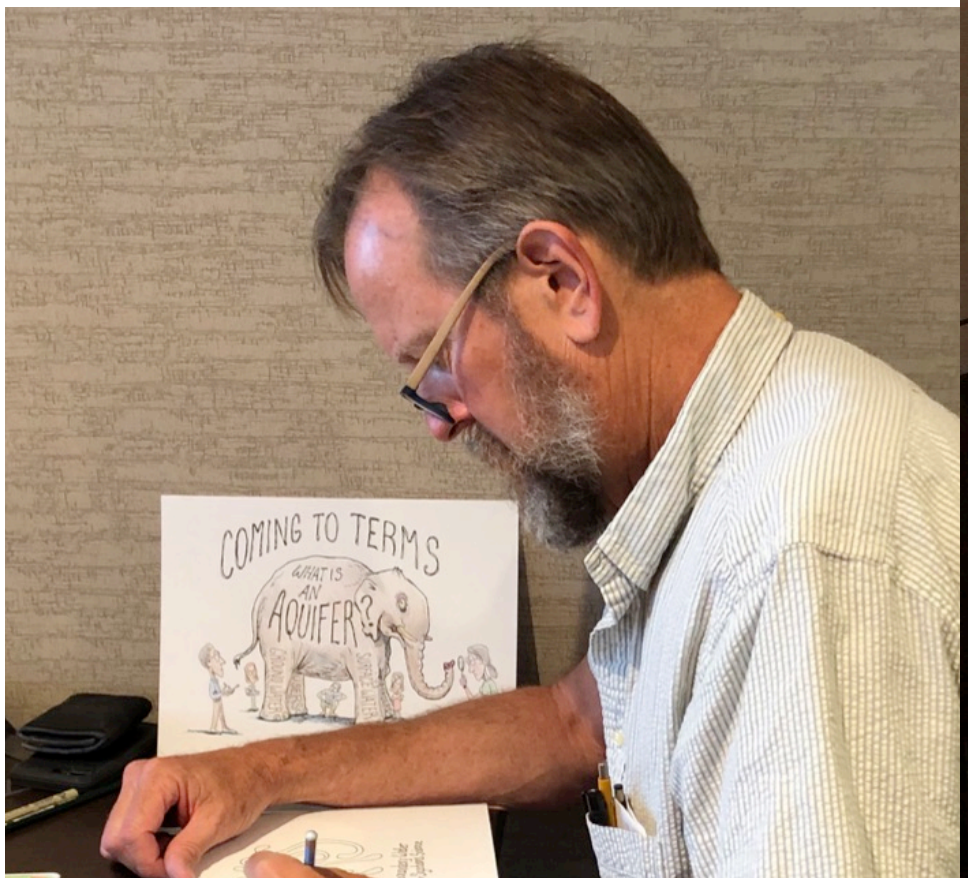


Regional: Water (Data)

- Border Solutions Alliance
- Transboundary aquifer research



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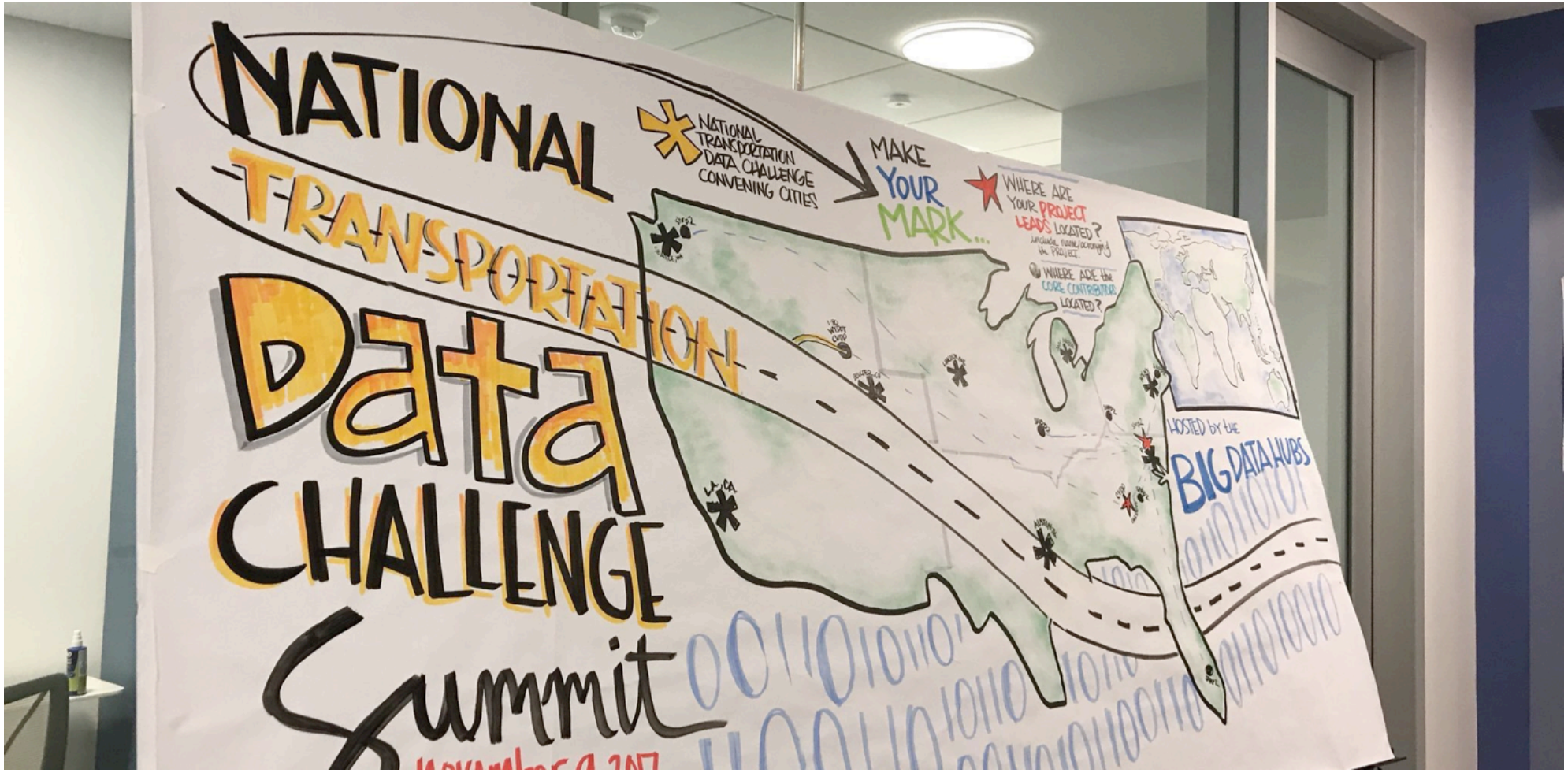
AB685 Human Water Bill

National: Partnership with DOT, 4 Hubs



National:
All Hub Infrastructure Working Group

- **Virtual meetings every first Friday at 3 PM ET**
  - Anyone can attend, no registration or affiliation needed (Jeremy Zollars jzollars@renci.org)
  - Come listen in on what everyone is doing
  - Bring a problem, or an idea
  - Or give a lighting talk in the future

    Come for the Lightning Talks, leave with some CI

- **PEARC 2019 - July 29 CI WG Affinity Group reception**
- **YouTube playlist – ~40 presentations**
  http://tinyurl.com/bdhub-videos

National: Open Storage Network
Six Prototype Deployment Sites

Funded by NSF

Funded by Schmidt Foundation

- **Distributed storage for research**
- **Sites**
  - Johns Hopkins University
  - Massachusetts Green HPC Center
  - Northwestern University (Starlight)
  - University of CA San Diego (SDSC)
  - University of Illinois (NCSA)
  - University NC Chapel Hill (RENCI)
- **1 Petabyte of storage per site**
- **Data search, discovery, replication**

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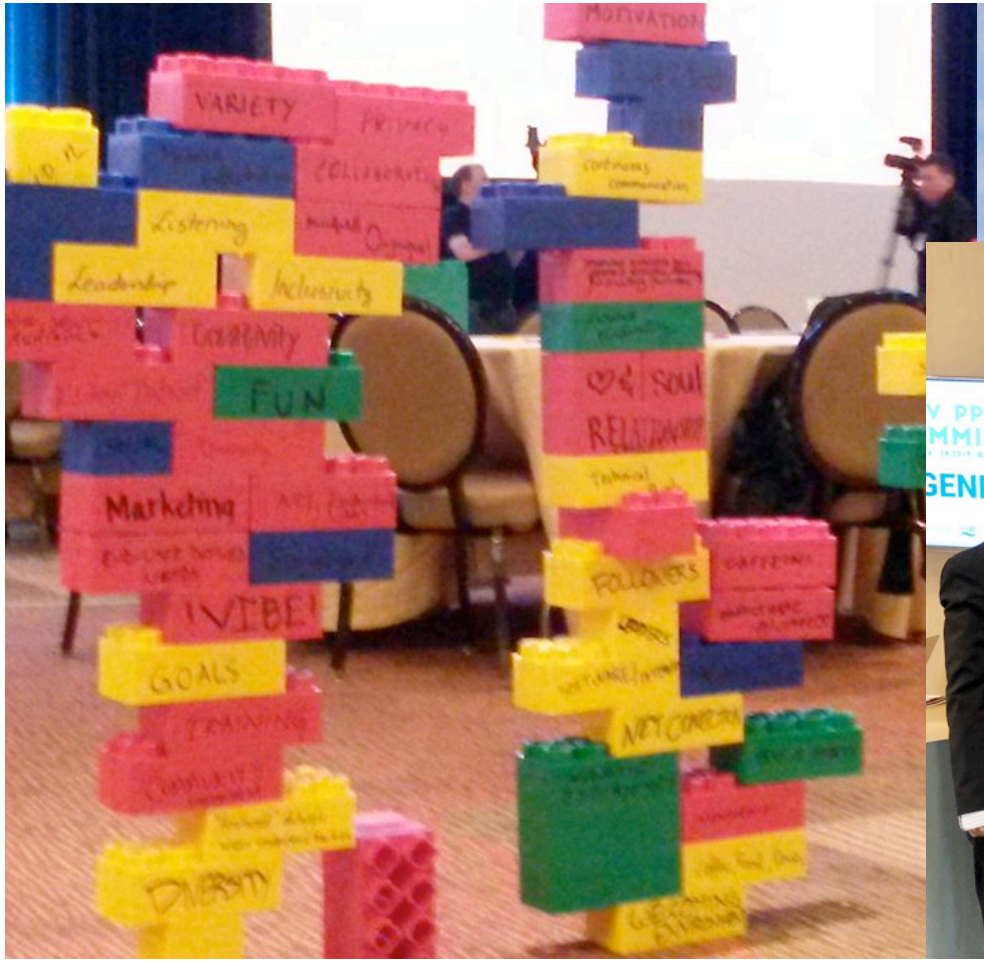
International: Hackathons & BVDA

- International Data Week
- Big Data Value Association



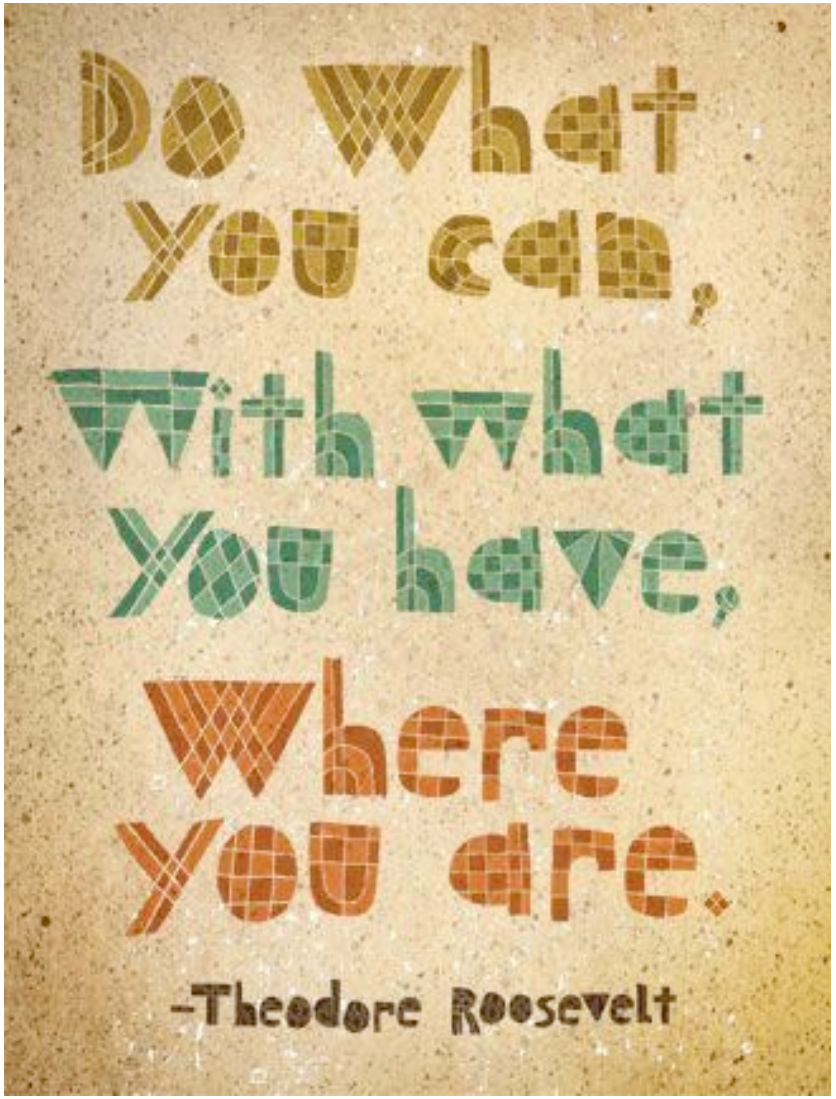
What's Next for WBDIH

- More carpentry! Instructor training, data awareness, public access
- Data Science for Social Good, Data Science Corps
- (GO) FAIR/data reuse workshops
- Data science storytelling
- Cloud access

Findable
Accessible
Interoperable
Reproducible

How Can We Help You?

- Letters of collaboration for proposals
- Partner on, colocate events and workshops
- Promote data-related events, tools, news
- Matchmaker for partnerships
- … and more!



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Some content courtesy of Niall Gaffney, Meredith Lee, Alainna White