

MY HORIZON



BIG IDEAS + BOLD ADVENTURES

2017 NSF Campus Cyberinfrastructure (CC) & Cybersecurity Innovation for Cyberinfrastructure (CICI) PI Workshop

Montana State University's Bridger-A Science Driven Network Cyberinfrastructure, Project Update


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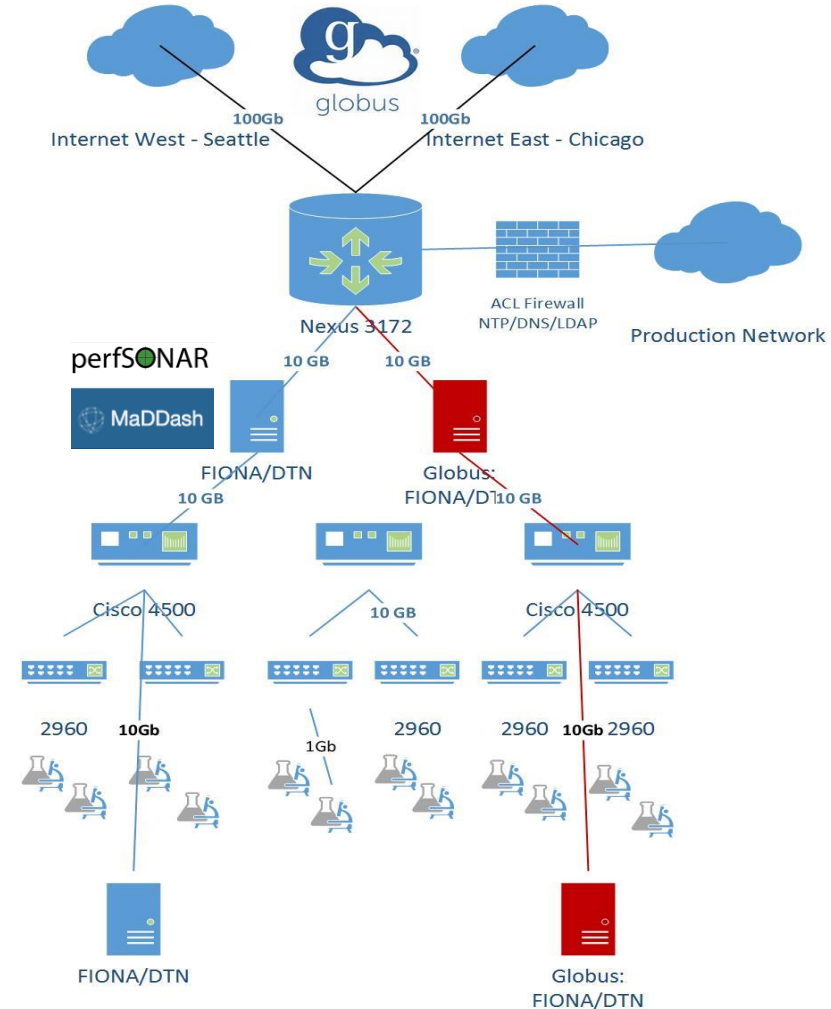
October 3, 2017

The Bridger Data Intensive Science Network

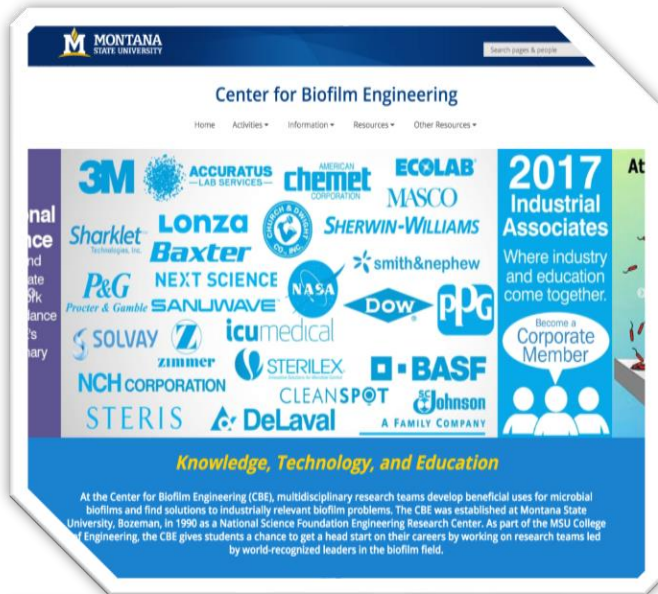
Montana State Science Drivers

-  **Climate Modeling {Ben Poulter}**
-  **Virology {Mark Young}**
-  **Optical Remote Sensing {Joe Shaw}**
-  **Marmoset Vocalization {Ross Snider}**
-  **Science Outreach Via Film {Dennis Aig}**
-  **Digital Microscopy {Phil Stewart}**
-  **Carbon Sequestration {Lee Spengler}**
-  **GIS {Rick Lawrence}**
-  **Vegetation Modeling {Dave Roberts}**

A Seven Building Purposed Research Network



The Network Enabling Science



New Partnerships and Collaborations



Unexpected Outcome/Success: Better Research Data Hygiene



Bridger's “Killer App” is Off-Site Research Data Storage

- Our “stickiest” conversations with researchers have been in helping provide solutions to data storage needs.
- Use Cases-Actively Working On
 - “If it is Lost It is Gone”
 - Life on Terra Video Database
 - “We Could Remake it But it Would Take Time”
 - Big Sky Carbon Digital Models
 - “We Should Have Another Copy Somewhere”
 - Marmoset Vocalization & Library
- Pending Partnerships with Indiana University and the Texas Advanced Computing Center

Challenge: Sustaining Engagement with Users

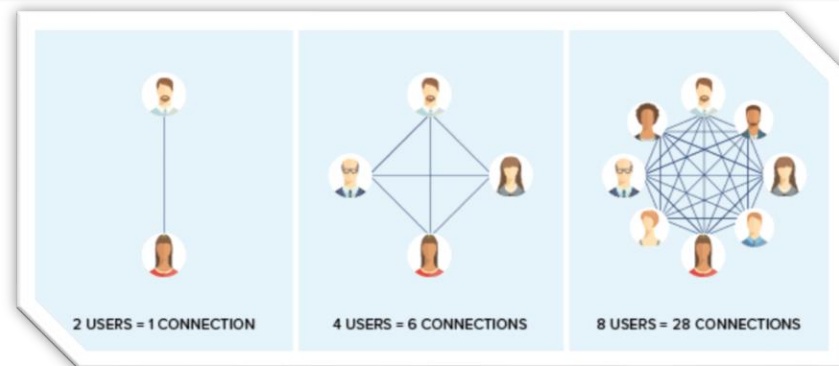
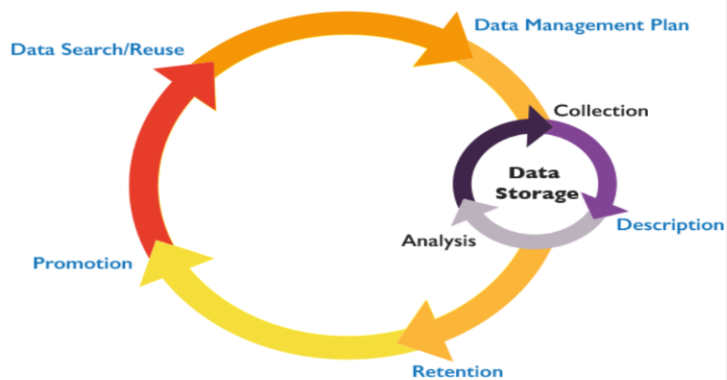


Image from: <https://www.cornerstoneondemand.com/rework/why-network-effect-secret-formula-your-associations-success>

The Research Data Management Lifecycle



Adapted original source: The University of California, Santa Cruz, Data Management LibGuide, *Research Data Management Lifecycle*, diagram, viewed 15th September 2015
<<http://guides.library.ucsc.edu/datamanagement>>

