



Collaboration Across Institutions: MS-CC Community Use Cases

Jennifer Kim, CI Engineer (jkim@internet2.edu)

Jessica Johnson, CI Facilitator (jmjohnson@internet2.edu)

Learning Goals

- Envision opportunities for collaboration for your campus
- Understand the value of cross-institutional CI collaboration
- Explore MS-CC examples of collaboration
- Become familiar with MS-CC support pathways



Icebreaker: Community Connections

Design your ideal vision for CI on your campus (e.g., a program, course, internship, lab, model, etc.). Consider the vision's:

- **Goal**
- **Activities and projects**
- **Resources needed**
- **Who benefits?**

After the timer, 1-2 people will share what they designed.



Icebreaker: Community Connections

Design your ideal vision for CI on your campus (e.g., a program, course, internship, lab, model, etc.). Consider the vision's:

- *Goal*
- *Activities and projects*
- *Resources needed*
- *Who benefits?*

05:00

Icebreaker: Community Connections

- ***Goal:*** Launch an introductory data science course for undergraduates
- ***Activities and projects***
- ***Resources needed***
- ***Who benefits?***



Icebreaker: Community Connections

- **Goal:** *Launch an introductory data science course for undergraduates*
- **Activities and projects**
 - *Students access real-world datasets from repositories*
 - *Students run code using Jupyter Notebook*
- **Resources needed**
- **Who benefits?**



Icebreaker: Community Connections

- **Goal:** *Launch an introductory data science course for undergraduates*
- **Activities and projects**
 - *Students access real-world datasets from repositories*
 - *Students run code using Jupyter Notebook*
- **Resources needed**
 - *Open access instance of Jupyter*
 - *Training in R/Python/MATLAB*
- **Who benefits?**



Icebreaker: Community Connections

- **Goal:** *Launch an introductory data science course for undergraduates*
- **Activities and projects**
 - *Students access real-world datasets from repositories*
 - *Students run code using Jupyter Notebook*
- **Resources needed**
 - *Open access instance of Jupyter*
 - *Training in R/Python/MATLAB*
- **Who benefits?**
 - *Undergraduate students*
 - *Faculty who are looking to incorporate computational tools in the classroom*



Icebreaker: Community Connections

- **Goal:** Launch an introductory data science course for undergraduates
- **Activities and projects**
 - Students access real-world datasets from repositories
 - Students run code using Jupyter Notebook
- **Resources needed (this includes people/organizations too)**
 - Open access instance of Jupyter → [OSG/NRP](#)
 - Training in R/Python/MATLAB → [The Carpentries](#)
- **Who benefits?**
 - Undergraduate students
 - Faculty who are looking to incorporate computational tools in the classroom

Opportunity to learn best practices from other institutions that have executed similar CI goals.



Why Collaboration Matters

“Collaboration in science is essential these days because the knowledge base is so huge now [...] Without collaboration, I feel many things would be much harder to accomplish.

We have a lot to learn from each other.”

- Chen Weng, Whitehead Institute



Why Collaboration Matters in CI

- CI is an emerging, interdisciplinary field
- The CI workforce is still small and growing*
 - Thousands of professionals
 - No formal degree programs or certifications
- Collaborative models accelerate the adoption of best practices



Collaboration Across MS-CC Institutions

- Nashville Collaborative (MS-CC POCG)
- Mississippi Research Consortium
- Salish Kootenai College and CHTC @ UW Madison

Multi-Campus CI Collaboration



Collaboration Across MS-CC Institutions

- Nashville Collaborative (MS-CC POCG) shares:
 - CI Coordinator
 - CIO time (ABC & Meharry)
 - CI-focused training seminars

Multi-Campus CI Collaboration



ABC
American Baptist College



TENNESSEE
STATE UNIVERSITY



MEHARRY
MEDICAL COLLEGE



Dear VPs for Research, VPs for Academic Affairs, Deans, Faculty, Researchers, and Distinguished Guests:

Faculty research in higher education is continually evolving due to technological advancements, shifting faculty needs and expectations, emerging demands within disciplinary areas, and broader sociocultural influences. Effectively addressing faculty perspectives and requirements during these changes is essential to creating and maintaining a supportive research environment.

This seminar will present key findings from the recent faculty/researcher information technology assessment report. It will focus on critical factors influencing faculty research success, including access to campus cyberinfrastructure and satisfaction with information technology services. Additionally, we will offer actionable recommendations designed to enhance faculty research support in the context of an increasingly dynamic technological environment. To further enrich the seminar, we will also have several subject matter experts present, who will help the audience gain deeper insights into research and education information technology. Find attached the agenda for the seminar.

Outcomes:

- Gain insights from the faculty/researcher information technology assessment report.
- Understand faculty experiences and satisfaction with current information technology services.
- Identify challenges faculty face due to limited information technology support or inadequate cyberinfrastructure.
- Discuss effective strategies and opportunities for enhancing faculty research productivity.

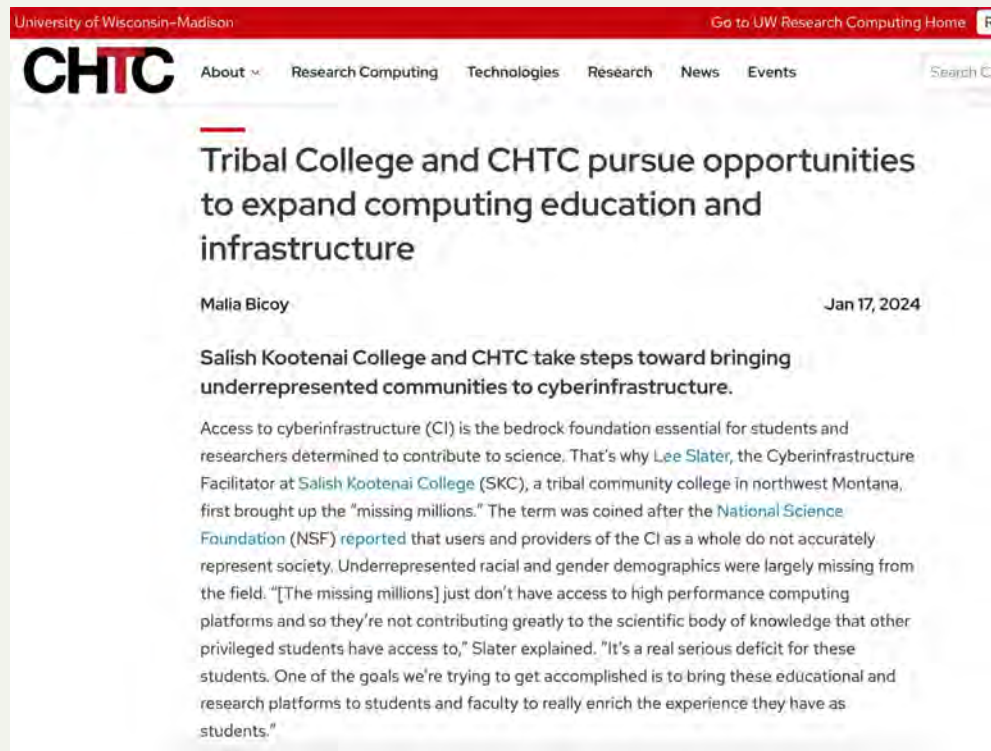
Collaboration Across MS-CC Institutions

- Mississippi Research Consortium (MRC)
 - Mississippi High Performance Computing Conference
 - Shared connectivity via MissiON



Collaboration Across MS-CC Institutions

- Salish Kootenai College and CHTC @ UW Madison
 - Access and training for a web platform for JupyterHub for students and faculty



Collaboration Across MS-CC Institutions: Networking

- Nashville Collaborative and GA Tech (SoX)
- Facilitating engagement with institutional REN for specific support or service exploration



Collaboration Across MS-CC Institutions: Compute

- Jackson State University and UW Madison
- Claflin and Clemson



Honorable Mention
Swarthmore College
and Lafayette
College (*non-MSI*)

How MS-CC works to encourage collaboration:

- Communities of Practice: CI Planning, Cybersecurity, and IT Leaders
- Student Internship - cross-institutional mentors
- All Hands Meetings
- Annual Meetings
- Campus Workshops
- Facilitated introductions

Overall, serving as a neutral bridge for institution-to-institution partnership



Other Opportunities for CI Collaboration Across Institutions

- [NSF ACCESS-CI](#) platform
- University of South Carolina's 'Train-the-trainer' model through their [Cyberinfrastructure Training Lab](#)
- [Campus Champions](#)
- [Campus Research Computing Consortium \(CaRCC\)](#)
- [Ask.CI](#)

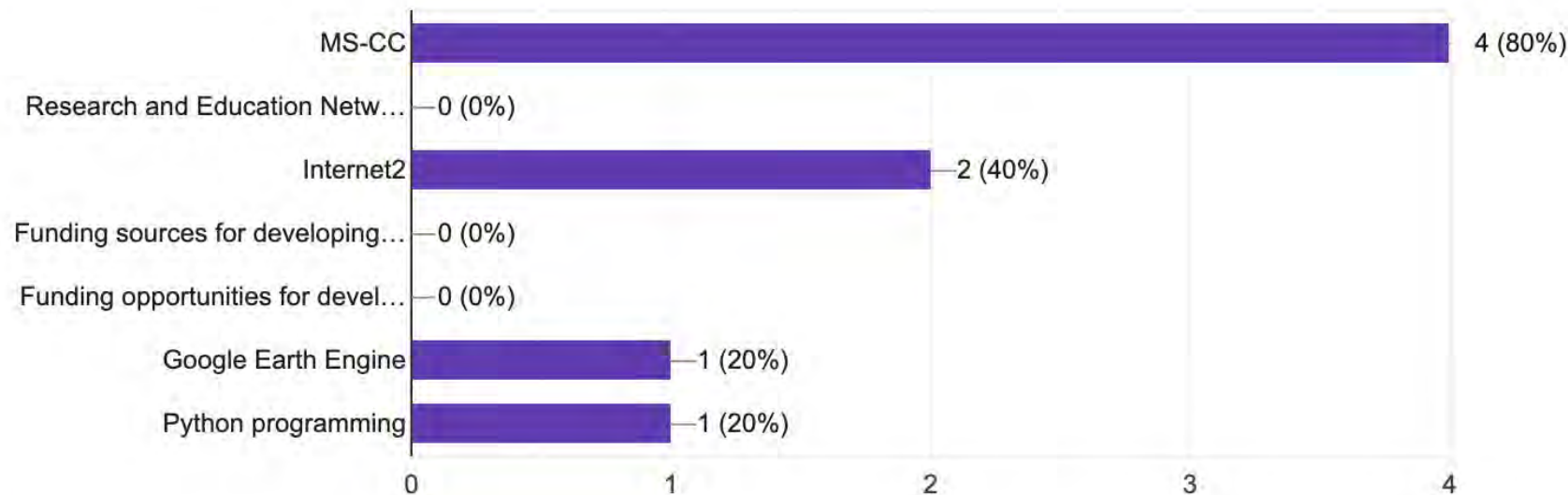


Pre-Workshop Survey:

Which of the following are you already familiar with? (Select all that apply.)

 [Copy chart](#)

5 responses

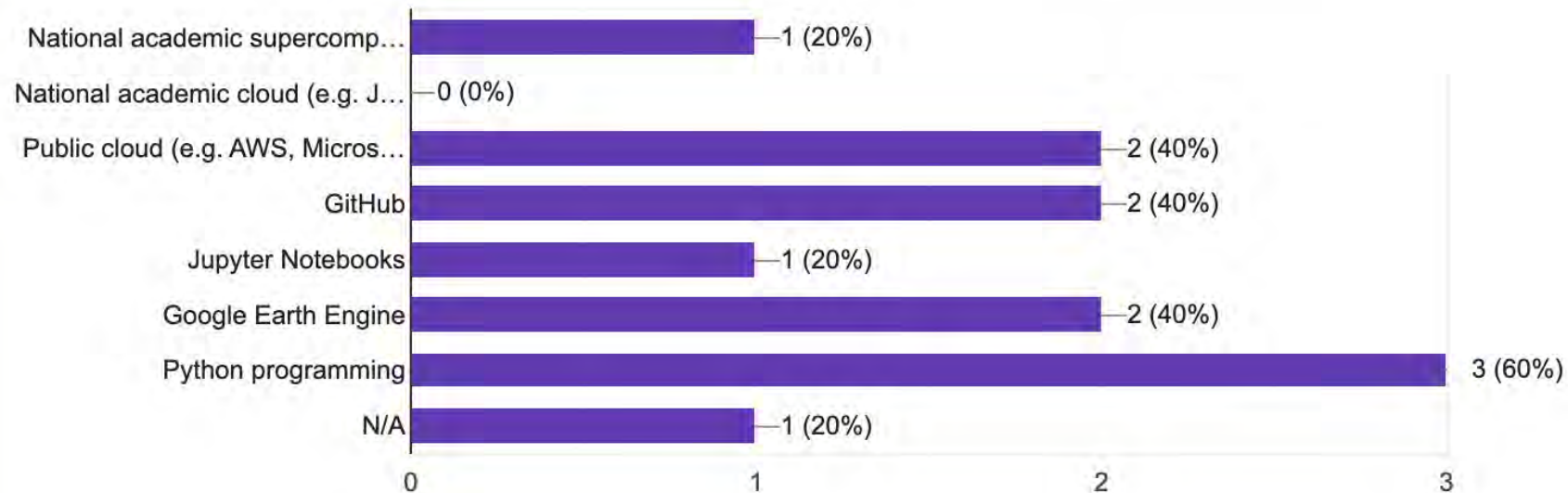


Pre-Workshop Survey:

Which of these tools or CI platforms have you used before?

 [Copy chart](#)

5 responses



Break

CI Quick Poll:



<https://bit.ly/CAUCIQuick>

Workshop Resources:



<https://bit.ly/CAUMaterials>