MS-CC CI Planning Community of Practice

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THE VISION

MS-CC envisions a transformational partnership to promote advanced cyberinfrastructure (CI) capabilities on HBCU, HSI, TCU, and MSI campuses. We are advancing connections across campuses around data, research computing, teaching, curriculum development, professional development, and capacity-building.

We will learn and grow as a consortium, lifting up all participating institutions by advancing cyberinfrastructure for research and education across diverse fields, disciplines, and communities in ways that reflect the unique voices and interests of our communities.

We will engage as full contributors to the global R&E community.
TIMELINE

2018
- NSF CI Empower grant Clemson, SCSU, JSU, Claflin, Morgan State
- June Atlanta workshop creates MS-CC

2019
- Fall Initial conversations with Internet2 leadership
- Summer Dialogue with Internet2
- December Initial MS-CC charter Stakeholder survey 1

2020
- March Webinars on stakeholder survey results
- April Letter of Collaboration with Internet2
- July Proposal to NSF for pilot CoE
- October Pilot CoE award (2yrs) The Missing Millions report

2021
- March Stakesholder survey 2
- June NCAT workshop
- July Proposal to NSF for PoCGs
- August SKC workshop
- October PoCG award (5yrs) CLB retreat
- November JSU workshop
- December Updated charter adopted, CLB officers elected

2022
- January Stakeholder survey 2
- June NCAT workshop
- July Proposal to NSF for PoCGs
- August SKC workshop
- October PoCG award (5yrs) CLB retreat
- November JSU workshop
- December Updated charter adopted, CLB officers elected

2023
- February Stakeholder survey 3; CLB Retreat
- March Claflin workshop
- May Inaugural MS-CC Annual Meeting Student Hackathon
- May CI Planning Community of Practice Launched
- June UMES workshop
- September Science DMZ & Networking for All workshop
- October Supplemental funding for Collaboratory in Climate Science
- October Cybersecurity Community of Practice Launched
- November Dillard and SUNO workshops
- December Director of Program Development hired

2024
- January CLASS Essentials Training
- March Benedict College Student Workshop
- March Assistant Director for Climate Science Program hired
- April Prairie View A&M University Workshop
- April Program Manager for Climate Science Program hired
- May Second MS-CC Annual Meeting
- June MS-CC Climate and Data Science Internship begins at UMES*
- June Virginia Union University Workshop*

*denotes future activity
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2024
HBCUs (71)

Alabama A&M University
Alabama State University
Albany State University
Alcorn State University
American Baptist College
Benedict College
Bennett College
Bethune-Cookman University
Bishop State Community College
Bowie State University
Cheyney University
Claffin University
Clark Atlanta University
Coppin State University
Dillard University
Elizabeth City State University
Fayetteville State University
Florida A&M University
Florida Memorial University
Fort Valley State University
Grambling State University
Hampton University
Harris-Stowe State University
Howard University
Huston-Tillotson University
J.F. Drake State Community & Technical College
Jackson State University
Jarvis Christian University
Johnson C. Smith University
Knoxville College
Langston University
LeMoyne-Owen College
Livingstone College
Mecklenburg Medical College
Miles College
Mississippi Valley State University
Morehouse College
Morehouse School of Medicine
Morgan State University
Morris College
North Carolina A&T State University
North Carolina Central University
Oakwood University
Paul Quinn College
Prairie View A&M University
Savannah State University
Savannah State University
Spelman College
St. Augustine’s University
St. Philip’s College
Stillman College
Tennessee State University
Texas College
Texas Southern University
Tougaloo College
Tuskegee University
University of Arkansas – Pine Bluff
University of Maryland Eastern Shore
University of the District of Columbia
University of the Virgin Islands
Virginia State University
Virginia Union University
Voorhees University
West Virginia State University
Winston-Salem State University
Xavier University
Winston-Salem State University
Xavier University
York College
York College

HSIs (26)

California State University – Dominguez Hills
California State University – Sacramento State
Essex County College
Florida Atlantic University
Florida Atlantic University
Goshen College
Housatonic Community College
Howard University
Houston Community College
Knoxville College
Langston University
LeMoyne-Owen College
Livingstone College
Mecklenburg Medical College
Miles College
Mississippi Valley State University
Morehouse College
Morehouse School of Medicine
Morgan State University
Morris College
North Carolina A&T State University
North Carolina Central University
Oakwood University
Paul Quinn College
Prairie View A&M University
Savannah State University
Savannah State University
Spelman College
St. Augustine’s University
St. Philip’s College
Stillman College
Tennessee State University
Texas College
Texas Southern University
Tougaloo College
Tuskegee University
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University of Maryland Eastern Shore
University of the District of Columbia
University of the Virgin Islands
Virginia State University
Virginia Union University
Voorhees University
West Virginia State University
Winston-Salem State University
Xavier University
Winston-Salem State University
Xavier University
York College
York College

TCUs (11)

Aanish Nakoda College
Carikdeska Cikana Community College
College of the Muscogee Nation
Fond du Lac Tribal and Community College
Little Big Horn College
Navajo Technical University
Nueti Hidalska Sahnsih College
Salish Kootenai College
Sinte Gleska University
Turtle Mountain Community College
United Tribes Technical College

Affiliate – Institutional (43)

Arizona State University
Brandeis University
Chicago State University
Clayton State University
Clemson University
College of the Marshall Islands
Colorado State University
Fordham University
Georgia State University
Georgia Tech
Harvard Medical School
Harvard University
Indiana University
Louisiana State University
North Carolina State University
Penn State University
Purdue University
Thomas Edison State University
University of Alberta
University of British Columbia
University of California – Berkeley
University of California – Davis
University of California – San Diego
University of Colorado – Boulder
University of Delaware
University of Illinois – Urbana-Champaign
University of Maryland – Baltimore County
University of Maryland – College Park
University of Michigan
University of Texas Health Science Center – San Antonio
West Texas A&M University
William Paterson University

Affiliate – Not for Profit (29)

American Indian Higher Education Consortium
Air Force Office of Scientific Research
Arkansas Economic Development Commission
Bill & Melinda Gates Foundation
Campus Research Computing Consortium (CaRCC)
CI Compass
Coalition for Academic Scientific Computation
Edge, Inc.
HBCU Library Alliance
Internet2
Lawrence Berkeley National Lab
MARY
MDREN
Network Startup Resource Center
NTIA
Ohio Supercomputer Center
Pacific Northwest Grappop
Regulated Research Community of Practice
San Diego Supercomputer Center
Sicangu Lakota Treaty Council
South Carolina Commission for Minority Affairs
Southern Crossroads (SoX)
TACC
The Quilt
TrustedCI
UCAr
United Negro College Fund
United State Research Software Association
Waymak Analytics

www.ms-cc.org
Strength in Numbers. Power of Community.

- Join a vibrant community where you can collaborate, receive support, and advocate for our collective needs.
- Participate in MS-CC governance and committees.
- MS-CC organizes workshops at HBCUs, TCUs, and Internet2 events, and provides funding support for MS-CC participants.
- MS-CC facilitates community-driven experience sharing to support and raise awareness around key topics of interest to MS-CC participants.
- Participate in regional workshops about the importance of IT for Research.
- Stay apprised of funding, collaborator and community offerings.

Join NOW: [https://www.ms-cc.org/join](https://www.ms-cc.org/join)
MS-CC CI Planning CoP Objectives

- Originated to continue discussion from the MS-CC Virtual Webinar Series: Cyberinfrastructure 101
- Share knowledge & experience around grant supported CI Cyberinfrastructure development
- Discuss creation of Cyberinfrastructure Plans for applying for CC* Proposals and communicating current and future CI capabilities
- Discuss Cyberinfrastructure Strategic Planning development
- Provide platform for collaboration with other research and infrastructure initiatives
### Past CI Plan CoP Topics

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 16, 2023</td>
<td>CI Plan COP Kickoff Meeting</td>
</tr>
<tr>
<td>June 20, 2023</td>
<td>CI Plan Show &amp; Tell</td>
</tr>
<tr>
<td>July 21, 2023</td>
<td>Influence Mapping for a CI Plan</td>
</tr>
<tr>
<td>Aug 15, 2023</td>
<td><strong>What aspects of CI Plan development would you like to discuss next?</strong></td>
</tr>
<tr>
<td>Sep 19, 2023</td>
<td>CI Plan Infrastructure Component Deep Dive</td>
</tr>
<tr>
<td>Oct 17, 2023</td>
<td>CI Plan Template and Deep Dive</td>
</tr>
<tr>
<td>Dec 5, 2023</td>
<td>Cybersecurity &amp; Network Infrastructure details to include in a CI Plan</td>
</tr>
<tr>
<td>Jan 16, 2024</td>
<td>Brainstorming Topics for 2024</td>
</tr>
<tr>
<td>Feb 20, 2024</td>
<td>Faculty Engagement - Identifying Cross Campus CI Priorities</td>
</tr>
<tr>
<td>Mar 19, 2024</td>
<td>Panel: Faculty engagement to inform CI Priorities</td>
</tr>
<tr>
<td>April 16, 2024</td>
<td>Science Driver Tables</td>
</tr>
<tr>
<td>May 21, 2024</td>
<td>Cybersecurity &amp; Network Infrastructure Details to Include in a CI Plan</td>
</tr>
<tr>
<td>July 16, 2024</td>
<td>Deep Dive on Networking Components of a Pre-ScienceDMZ and Pre-REN Campus CI Plan</td>
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Draft Template for a NSF CI Plan


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Purpose and Goals

This document is an introduction to developing a Cyberinfrastructure Plan (CI Plan), usually in support of an NSF grant proposal. We describe the purpose of CI Plans, some approaches and examples, and present an annotated template for gathering the content elements you will need. We hope this will demystify the process and make you confident that this need not be a daunting task, and can be an easily-achievable first step in a strategic planning journey.

[Skip to the CI Plan Template]

Before you start

1. It is important to understand the difference between a CI Plan and a full Research and Education CI Plan or IT Strategic Plan. CI Plans are a relatively short document in support of a grant proposal, while Research and Education CI Plans and IT Strategic Plans are much more extensive documents with an associated greater investment to develop. Table 1 below summarizes some key differences. 

Understanding and Leveraging Influences as you build a Campus CI Plan

https://youtu.be/sl3xa7ITJ3k
Faculty Engagement - Identifying Cross Campus CI Priorities

A brief walkthrough by Russell Hofmann

Purpose

This is intended to be a guide for engaging faculty with the general goal of understanding current cyberinfrastructure needs and usage, rather than for any targeted CI activity. To get a picture of cross-campus CI priorities, you are going to need to do more than one engagement, it can take between 10-30 individual meetings with faculty across various departments before you have clear CI priorities identified. This guide does not address individual faculty CI facilitation.

Potential Outcomes

- **Insight into Needs and Pain Points**: By engaging with faculty, you can gain valuable insight into the specific needs and challenges related to cyberinfrastructure, enabling targeted improvements and solutions.
- **Strategic Alignment**: Understanding faculty's future goals allows organizations to align their cyberinfrastructure efforts with broader strategic objectives and academic priorities.
- **Facilitating Future Discourse**: These engagements also serve to open doors for ongoing discussions and collaborations to improve campus cyberinfrastructure.
- **Science driver identification**: If any faculty member is engaged in a research or education activity which would directly benefit from cyberinfrastructure improvements, they are a science driver.

CI Plan Community of Practice
Every 3rd Tuesday @ 2pm ET

Join the conversation!
www.ms-cc.org/join

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