



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

September 23 – 25, 2019 | Minneapolis, MN

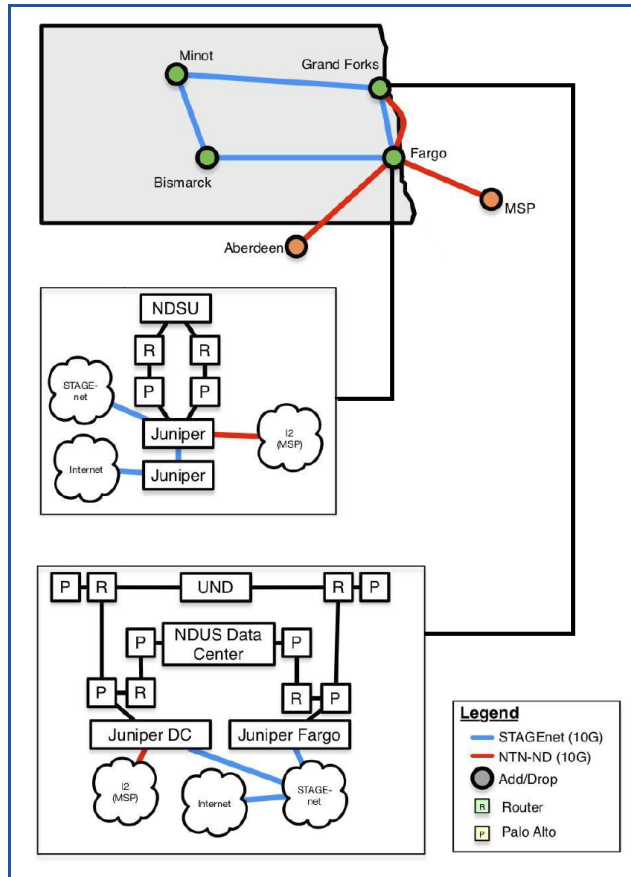
Quad Chart for: NDILLI: North Dakota Internet Leadership Level Infrastructure

Challenge: Enhance regional research network to enable North Dakota collaborations with colleagues at other regional, national and international institutions.

- Design ScienceDMZ with input from North Dakota stakeholders: UND, NDSU, STAGEnet and NDUS CTS.
- Synergistically coordinate efforts with regional & national partners: I2, Northern Tier, SD-REED, and Boreas.

Deliverables: The primary deliverables of NDILLI are:

- Connect NDSU CCAST machine room to ScienceDMZ using 100 Gbps Cisco Nexus Switch
- Connect UND CRC machine room (located in NDUS Data Center) to ScienceDMZ using 100 Gbps Cisco Nexus Switch
- Demonstrate network data flows at rate using SLATE, Globus, and PerfSonar



Simplified STAGEnet, UND, NDSU and Internet2 North Dakota connectivity diagram.

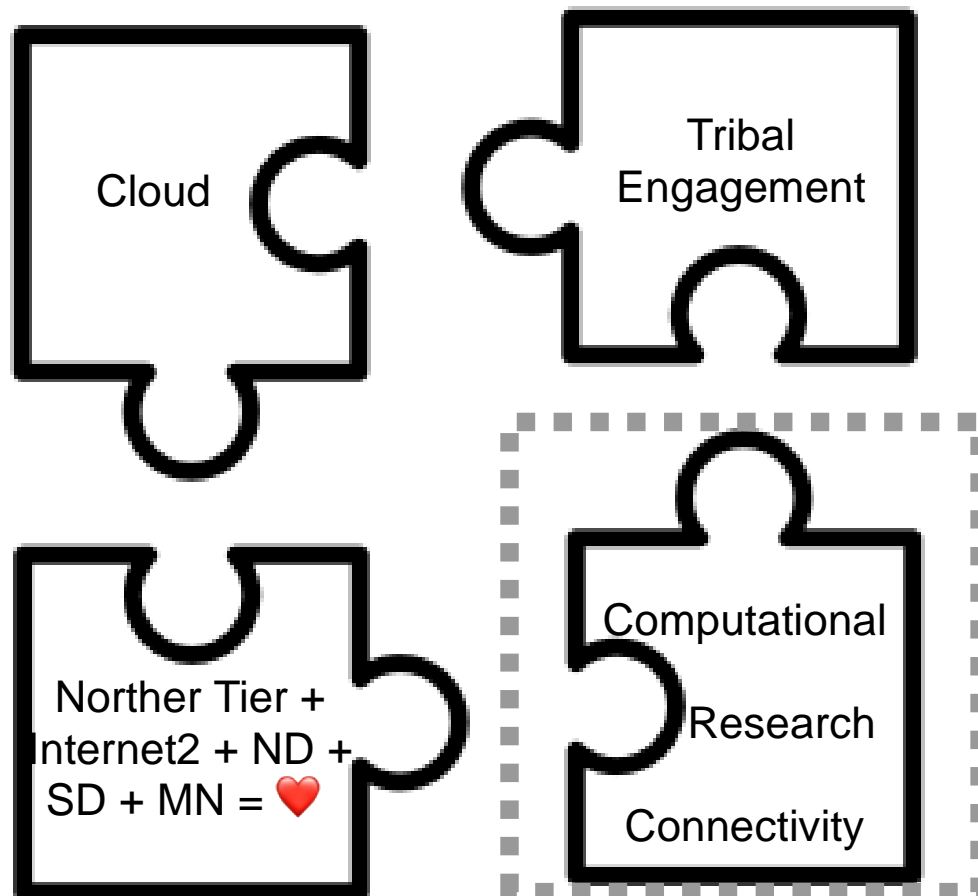
Broader Impacts: NDILLI will enable robust data communication among ND CI stakeholders, both at the main research institutions and the state's primarily undergraduate institutions.

- Envision 2030 - Program from the ND University System designed to align the state's institutions with the emerging CI needs of future ND economy – UAS, Cybersecurity, and High-Performance Computing.
- Emerging Sectors - Facilitate education and research opportunities to train a CI skilled workforce capable of supporting emerging sectors and diversifying the ND economy beyond the Ag and Energy.

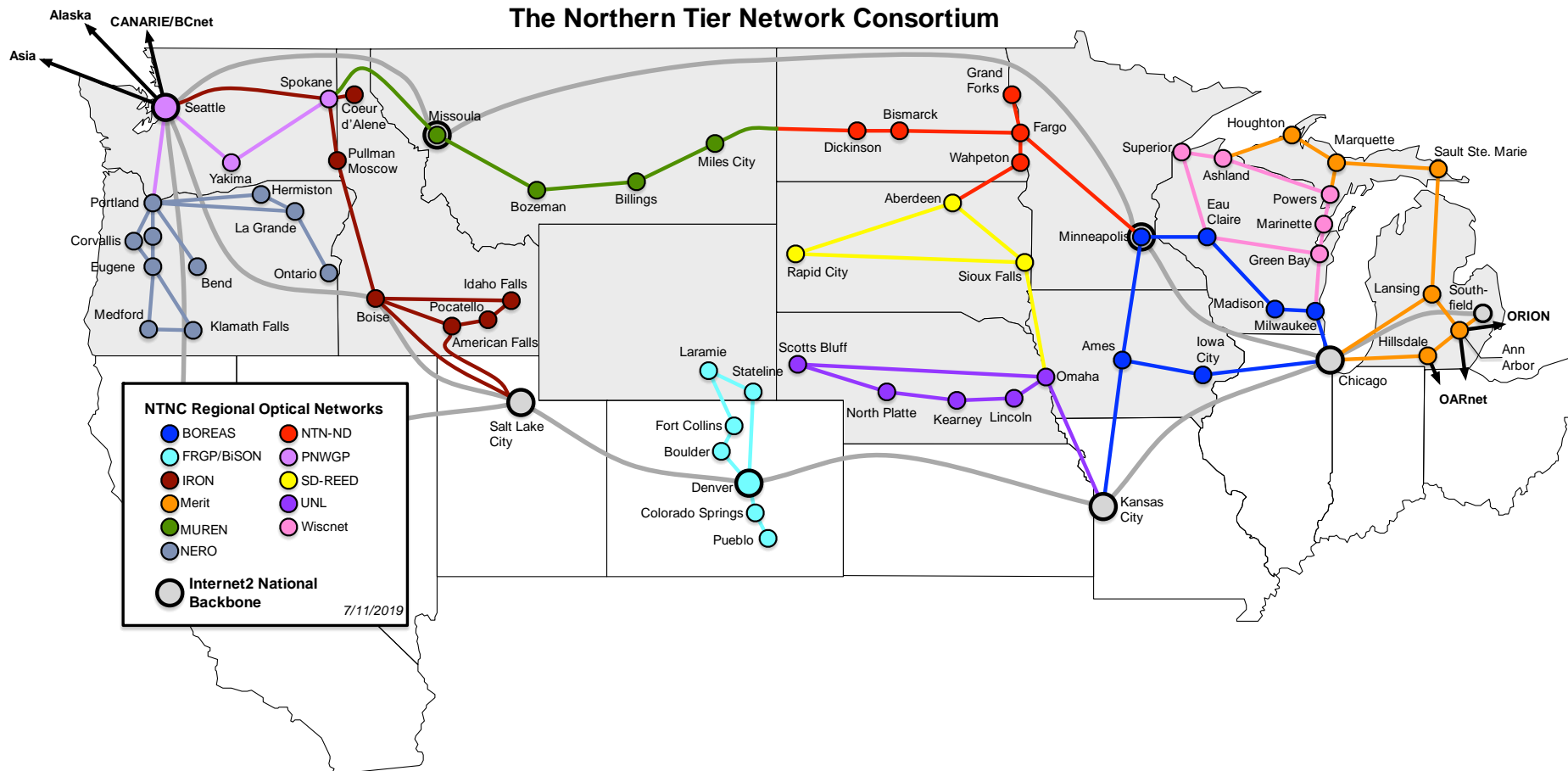
Metadata tags:

- <ScienceDMZ>
- <Research Network>
- <Emerging Sectors>
- <CI Skills Workforce>
- <Enable Collaboration>
- <Synergistic Coordination>

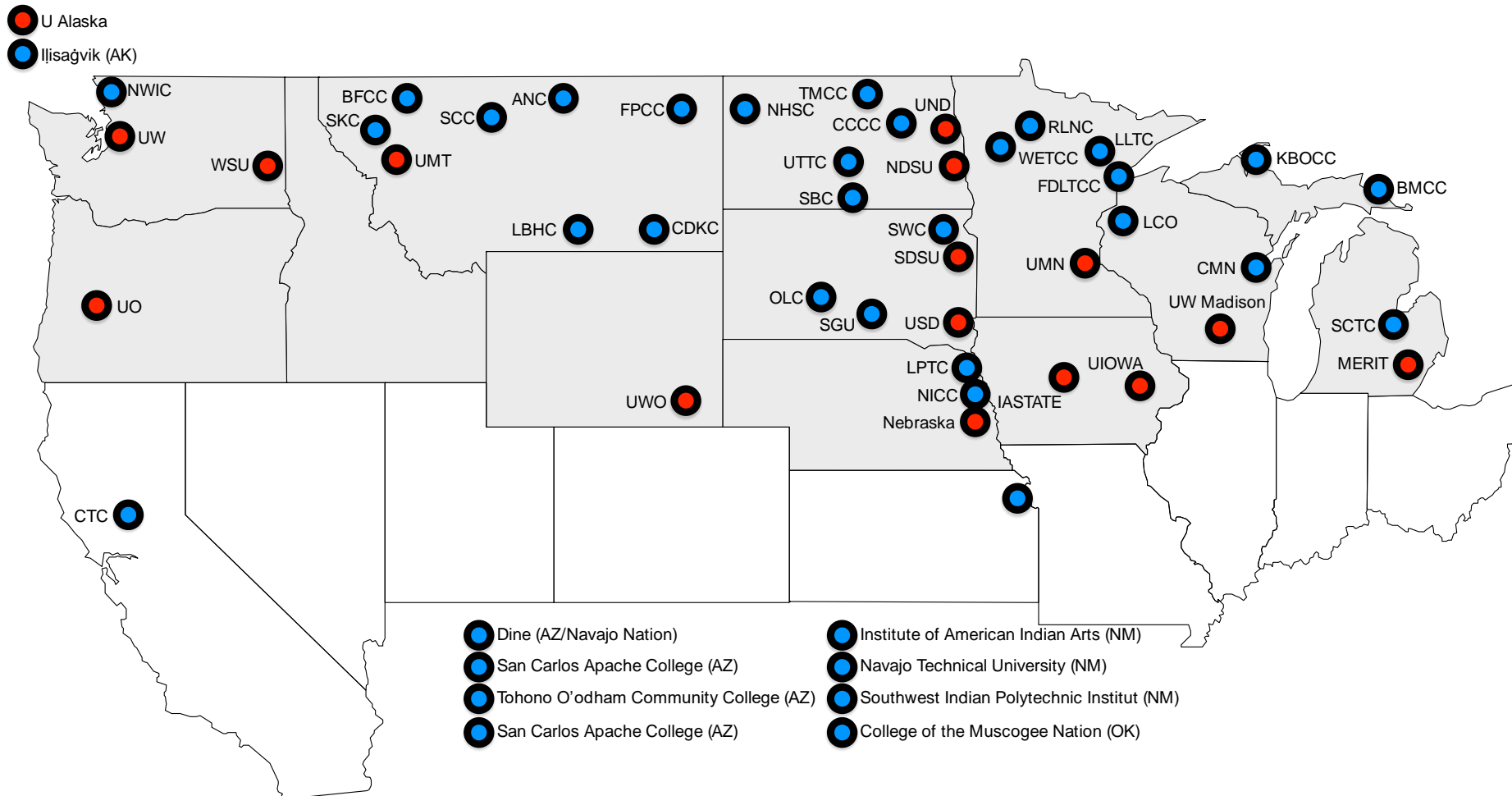
The Larger Picture in ND



Northern Tier Network Consortium



Tribal Colleges + NTNC Institutions



Recent Topics on Cybersecurity & Infrastructure at NTNC Meetings

Year	Speaker	Topic
2019	Sidney Pearl, Chief Intelligence Officer for Global Situational Awareness Center, NASA Kennedy Space Center	Cyber Resilience Intelligence
2019	Dave Froslic, Microsoft	Cloud Services Deployment Strategies
2019	Jared Ribble, Assistant Director of IT, Navajo Tech; Joe Johnson, Director of Cloud Strategy, Univ Wisconsin-Madison	Best Practices and Challenges Moving to the Cloud.
2019	Al Anderson, CIO, Salish Kootenai College; Chad Davis, IT Director, Turtle Mountain Community College; Matt Riley, CTO, Univ OR; Jeff Gimbel, Senior IT Security Analyst, NDSU	Data Management and the Cloud: Security Practices of Data Management when using Cloud Services.
2019	Various	Compute, Storage, and Networking- the view from HPC Centers.
2018	Jim Bottum (AIHEC?)	Building a Cyberinfrastructure Plan at a TCU
2018	Jacob Brabbs, MERIT	Security Workshop