NSF Program (either CC or CICI): CC

Program Area: CC* network Design   Award Number: 1827199

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Project Title: "Nilch' bee naa alkaa go ohooa doo eidii t'įį. Translation: Using air (technology) to learn and understand new things.

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Quad Chart for: Project Title: "Nilch' bee naa alkaa go ohooa doo eidii t'įį. Translation: Using air (technology) to learn and understand new things.
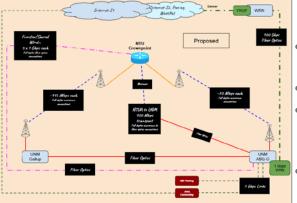
Challenges:

- Tribal colleges and universities prepare for participation in regional and national networking.
- TCUs faculty and students are underserved.
- Research networking design for small institutions underway – fiber availability limited and costs prohibitive.
- Collaboration between TCU faculty and information technologies undeveloped.
- Sustainability of the research network.
- Homework gap requires alternative wireless solutions to deliver STEM distance education.

Deliverables:

- NTU research network planning active for small institutions.
- Tribal Consortium fully engaged - New Mexico and Arizona.
- FRGP engineering leadership delivered 2 workshops.
- Network design in development.
- Collaboration with WRN, I2, NAU, ASU, U of South Carolina, EPOC, and Sun Corridor.

Using Air to Learn and Understand New Things
Nilch' bee naa alkaa go ohooa doo eidii t'įį

Broader Impact:

- Tribal college centered research design and planning for small institutions.
  - NTU (Crownpoint, NM)
  - Dine College (Tsaile, NM)
  - Tohono O'odham Comm. College (Sells, AZ)
  - Southwest Indian Polytechnic Institute (Albuquerque, NM)
  - Institute of American Indian Arts (Santa Fe, NM)
  - Ashiwi College and Learning Center (Zuni, NM)
- Tribal College Expansion of NSF TCU CI Project (#1655185)
- Build a regional tribal consortium.
- Deliver science and math instruction to extremely rural and isolated Navajo Nation.
- Supports leadership model with FRGP and regional universities.
- Related NSF CC* awarded.

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