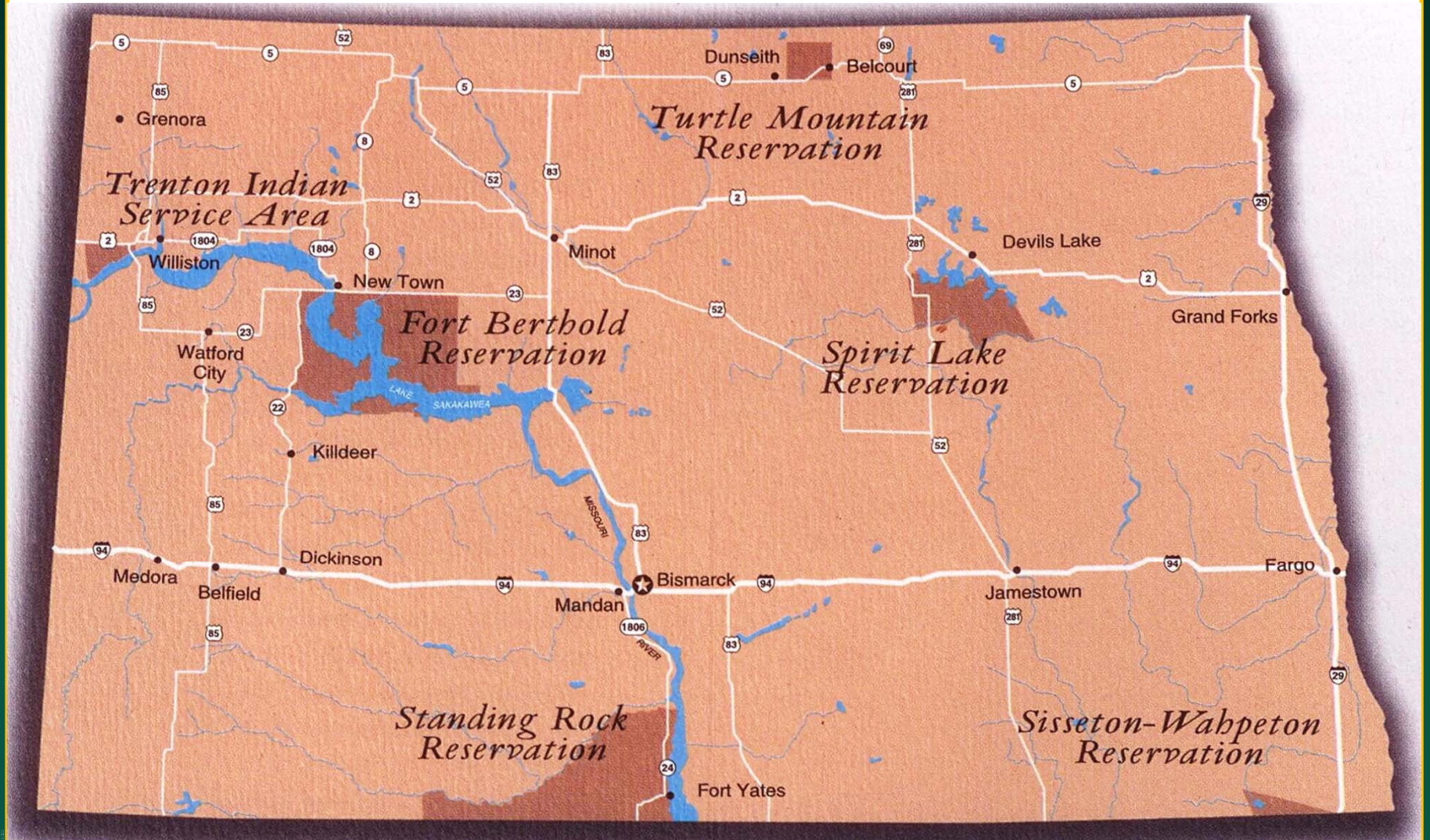# Involving Native American Indians in Transportation

Denver Tolliver

Mountain-Plains Consortium
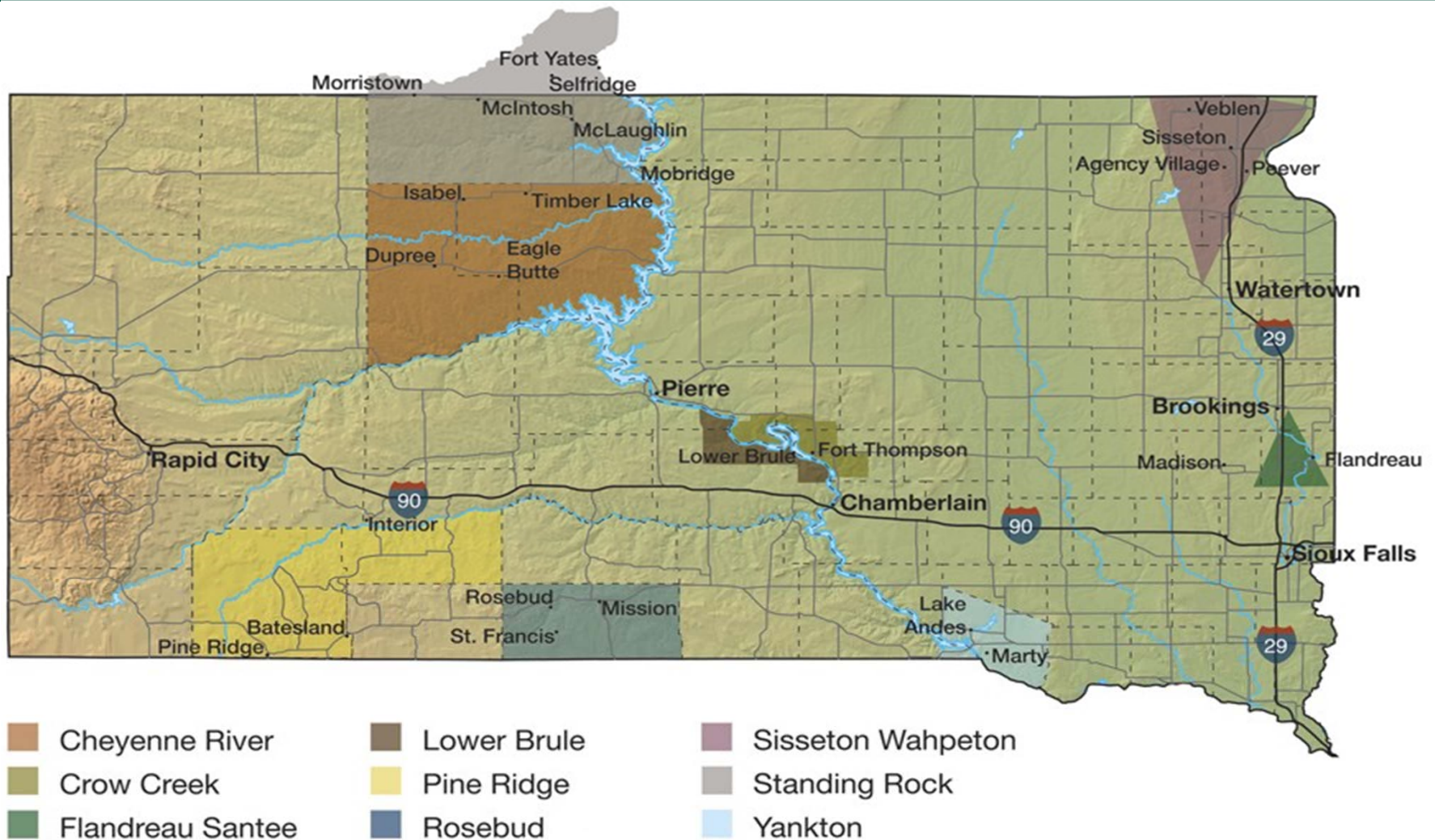
North Dakota State University

Focus Areas

- Dimensions of effort
  - Technology transfer
  - Technical assistance
  - Workforce development
  - Education
  - Research

- Key partners
  - TTAP centers (NPTTAP, NWTTAP); LTAP centers; Federal Lands Highway; BIA

North Dakota's Reservations

South Dakota's Reservations

Legend:
- Cheyenne River
- Crow Creek
- Flandreau Santee
- Lower Brule
- Pine Ridge
- Rosebud
- Sisseton Wahpeton
- Standing Rock
- Yankton

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Primary Tribal Partnerships

- Ft. Berthold (Three Affiliated Tribes: Mandan, Hidatsa, & Arikara)

- Standing Rock (Dakota & Nakota Sioux)

- Spirit Lake/Ft. Totten (Dakota & Nakota Sioux)

- Turtle Mountain Band of Chippewa

- Wind River (WY): Shoshone and Arapaho

NDSU Tribal College Partnership Program

- Primary tribal college linkages
  - Cankdeska Cikana Community College (Ft. Totten)
  - Sitting Bull College (Ft. Yates)
  - Turtle Mountain Community College
  - United Tribes Technical College (Bismarck)
  - Ft. Berthold Community College
- All Nations Louis Stokes Alliance for Minorities Program (ANSLAMP or AMP): STEM stipends
- Tribal Food Science (NDSU Food Science Department)
- Pre-Engineering Collaboration Program

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NDSU Pre-Engineering Education Collaboration

Pipeline for Tribal Pre-Engineering to Society

- Student finishes preliminary degree at tribal community college

- Can transfer to NDSU into engineering major of choice

- Have opportunities to meet with professors at NDSU before they transfer

NDSU Pre-Engineering Education Collaboration (cont.)

- Student centered program

- Cohort approach

- Mentors: student and professional

- Summer internships / co-ops in local communities

- Financial aid/stipends available to help with financial needs

- Curriculum designed for more personalized approach to speed of classes

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Current Projects

- Building a Sustainable GIS Framework for Supporting a Tribal Transportation Program
- Regional Implementation of Tribal Transportation Safety Program
- Developing Statistical Models for Crash Severity
- Evaluation and Development of Livability and Sustainability Programs for Indian Reservations
- IRR Database and Models

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Approach

- Long-term commitment: not a project, or series of projects
- Must build trust; make personal connections
- Knowledge of unique context
  - Sovereign nation
  - Tribal governance
  - Land ownership: trust land, restricted fee land, fee land purchased by tribe
- Technical assistance must go with technology transfer

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