GIS and NativeView @ Sinte Gleska University

GIS with a vision...

James Rattling Leaf

Western Region Space Grant Meeting

September 26, 2003
Sinte Gleska
(Spotted Tail)

Strengthening the Sicangu Lakota Oyate through Education
Native GIS Application
cir.1890
Partnerships for Innovation Program
Creating awareness for all ages of Learners on Rosebud

Demonstration Interactive Mapping and Data Project

Sinte Gleska University, Sicangu Policy Institute
Rez Mapper

A Geo-spatial/temporal Information System with a Vision:

An ability to integrate, view and apply
USGS Topo Maps, Satellite Imagery,
Aerial Photographs, Digital Ortho Quads
with Lakota Data

for:

Lakota Cultural Resource Management
Reservation Land Use Determination
Community Growth and planning

"Unci Maka na nahin Wichapi Oyate na nahin Wamakaskan Oyate
wolakota glusutapi."

Interactive Community Mapping Program
for the Rosebud Lakota Nation

"Unci Maka na nahin Wichapi Oyate na nahin Wamakaskan Oyate
wolakota glusutapi."

Sinte Gleska University, Sicangu Policy Institute

jamesl@sinte.edu or www.spatialedgetech.com
Strategic Enterprise Alliance (SEA) Program

GOALS:
• Create long term, sustainable relationships with technology-based partners resulting in mutual organizational benefits
• Establish innovative educational programs that provide earth science experiences for students and faculty
• Promote cooperative geo-spatial research programs that strengthen the health and welfare of Native communities throughout the USA
• Develop a learning culture that supports systemic change in the ways mathematics and science are taught and integrated with technology

Keeping Spirituality at the center

Interdependencies of Plans
NASA REASoN CAN-02-OES-01
A Geospatial Extension to the NASA Information Power GRID

- Education and Science
- Rangeland Management Model/Service
- eSINTE Decision Support System
- NASA IPG
- Tribal Enterprise Business Development
Indian Lands in the United States

NativeView

33 Native American Tribal Colleges

Applications:
- Education
- Community Development
- Treaty and Trust Responsibility
- Economic Development
- Natural Resource Management
- Cultural Resource Management
- Disaster Management
- Collaborative Research

Satellite Imagery
Cartographic Data
Aerial Photography
Geology

EROS Data Center
Sioux Falls, South Dakota
Final Thoughts

Sinte Gleska University was started by its founding fathers ... to strengthen the Sicangu (Rosebud) Nation in all aspects of life. As such, this Initiative will assist us in bringing two of the essential points of life, the sky and the earth, together spiritually and technically."

Dr. Lionel Bordeaux, President, SGU
Thank You