

NTGISC & BIA

GIS Route Centerline Alpha Pilot Project Update

Introduction



Presenters



Garet Couch, GISP
NTGISC - Board President
Wind Environmental Services



Byron Bluehorse
NTGISC – Advisory Committee Member,
Transportation Working Group Coordinator
Alaska TTAP

NTGISC

The National Tribal Geographic Information Support Center

- The web site TribalGIS.COM is run by the National Tribal Geographic Information Support Center (NTGISC)
- The NTGISC organization is a 501c3 nonprofit organization that was organized in 2008
- NTGISC currently has over 400 members from over 175 tribes throughout the US



NTGISC is an organization for Tribal Personnel, tribal members, faculty and students of tribal colleges/universities and supporting organizations to share professional forward thinking views, progressive knowledge and continuous education within a community of active GIS users serving Tribal Communities.

What do we do at NTGISC



- Facilitate the national Tribal GIS Conference
- Maintain a national Tribal GIS list server to communicate information between Tribes
- Assist in communication between NTGISC members and partner organizations and federal agencies on issues relating to GIS
- Provide recommendations or connect Tribes to resources relating to GIS
- Assist in organizing regional Tribal GIS meetings
- Develop working relationships with other Tribal organizations to be their resource regarding GIS technology

MEMBER SPOTLIGHT



Southwestern Indian Polytechnic Institute

To learn about SIPI and their GIS activities click here

Click here to view previous member spotlight articles

TRIBAL GIS LINKS

What is GIS

SIPI GIS Program

Haskell GIS Program

LCO Ojibwa College

BIA Geospatial

Tribal GIS Videos

Conference PowerPoints

WHO'S ONLINE



Welcome to TribalGIS.com!

First and foremost, please take a look around the website and TribalGIS.com has just begun and I like you all we look forward to new techniques and especially meeting new folks. As we continue to together I encourage all tribal personnel, members, faculty, students organizations to use TribalGIS.com as a technical organization to be answers you need from others within Indian Country.

As promised we have established our website for all to get an idea of organization is about. We will continue to add general content with the website as well as adding exclusive technical content and adding to our secured member login area. Please check back periodically for

So what is TribalGIS.com really about?

GIS, as we all know is an industry that can be applied to and from the world, but what about within Indian Country. From collecting GPS data communities to performing advanced analysis for tribal economic development Indian Country has some pretty advanced GIS activities going on.

Our questions begin with curiosity we then become intrigued and become Who orchestrated such a project? What technology or tools did the project end/begin? Where was this implemented? Why was the project the project take?

Why not find out what other Tribal folks are doing with GIS and GPS here within TribalGIS.com!

Our goal with Tribal GIS.com is to establish "The Best Practices and Geographic Information Systems within Indian Country".

Tribal GIS Forum

Forum Profile Mailbox History: 4h 6h 12h 24h

Welcome to the Tribal GIS Community Forum

Forum

- General Forum**
Feel free to talk about anything and everything in this board.
- Oklahoma Regional Tribal GIS Group**
Regional group of Tribal GIS professionals. This group meets quarterly to discuss GIS on a regional level.
- New Mexico Regional Tribal GIS Group**
Regional group of Tribal GIS professionals. This group meets to discuss Tribal GIS regional level.
- FGDC Cultural Resource Workgroup Forum**
Forum for the discussion of issues related to the Federal Geographic Data Committee Resource Work Group. This committee is seeking to set common standards for all collected on Public lands. Please join the conversation and help to establish standards allow us to all talk the same geographic language.
- Forum for Tribes to discuss and convey comments to the N.G.A.C. Tribal representatives**
The National Geospatial Advisory Committee (NGAC) is a Federal Advisory Committee of the Department of the Interior under the Federal Advisory Committee Act. The NGAC Chair of the Federal Geographic Data Committee (Secretary of the Interior or designee) and objectives of the NGAC are described in the NGAC Charter. The Committee will and recommendations related to management of Federal and national geospatial development of the National Spatial Data Infrastructure, and the implementation of Management and Budget Circular A-16 and Executive Order 12906.
- Desktop GIS**
Topics related to desktop GIS applications
- Mobile GIS**
Topics related to Mobile GIS hardware & software applications

Recent activities

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Say what is on your mind...

Friends

Garret Coughlin **Oklahoma Regional Tribal GIS Group**
Two of the presentations from the upcoming Oklahoma Regional Tribal GIS Meeting (December 5th) will be webcast for those who can't make the meeting.
Geospatial Technology Competence Model and updates from GISCI (Sheila Wilson)
USDA NRCS, National Geospatial Management Center, High Resolution Elevation Program (Bill Mariken)
Sign up below:
<https://www4.gotomeeting.com/register/679516119>
8 days ago • Like • Comment

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8 days ago • Like • Comment

Robert Largent **Frank Harjo**
You're active. LOL
13 days ago • Like • Comment

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Save the Date November 16–20, 2015

2015 National Tribal GIS Conference

Southwestern Indian Polytechnic Institute
9169 Coors Road NW., Albuquerque, NM

Tribal GIS is pleased to announce its 6th year of fostering education and professional connections at its annual conference. Join a prestigious group of industry leaders and Tribal GIS Professionals who provide valuable information about real world applications of geospatial technologies. Visit www.tribalgis.com for up-to-date information. Registration coming soon.

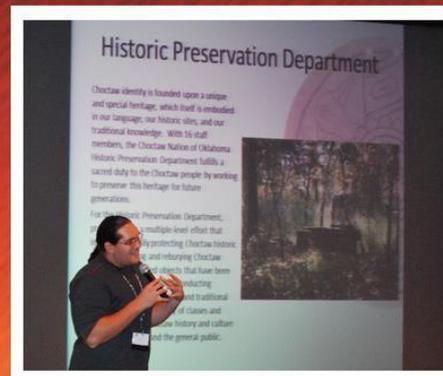
CONFERENCE HIGHLIGHTS:

- Networking Opportunities
Join Tribal GIS Professionals and Industry leaders to discuss resources and technologies.
- Informative Presentations
Enjoy valuable presentations within an Educational Environment.
- Hands-on Workshops
Sign up for pre-conference workshops to gain the hands on experience.
- Sponsorship Opportunities
Contact us for more information about how to show your support.

"The pre-conference workshops and conference presentations were outstanding! This conference was very beneficial by developing and maintaining close relationships with other Tribes and by providing valuable information needed to allow our Tribe to continue to grow."



– 2014 Conference Attendee



NTGISC & BIADOT

“GIS Pilot Project”

TTPCC
5/5/2015



Background

Memorandum of Understanding

Entered into between BIADOT and the National Tribal Geographic Information Support Center

- Conversations started around 2010
- Draft MOU presented to BIA for review in 2012
- Finalized – October 9, 2014

Mutual Interest and Benefits

- Both Parties consider the increased use of GIS by Tribal transportation departments as a best practice which would improve the overall management of transportation programs, assets, and facilities on federal trust lands and Tribal lands, as well as other TTP facilities serving Indian Communities.



“Alpha Pilot Project”

Objectives:

- **Gather available data under a singular POC and create a “working environment” for pilot project purposes**
- **Establish criteria or standards that are compatible with new version of RIFDS**
- **Begin the preparation of “preliminary atlas maps”**
- **Determine short and long term use of spatial environment and application towards transportation programs.**
 - **i.e. Road Maintenance and asset management programs**

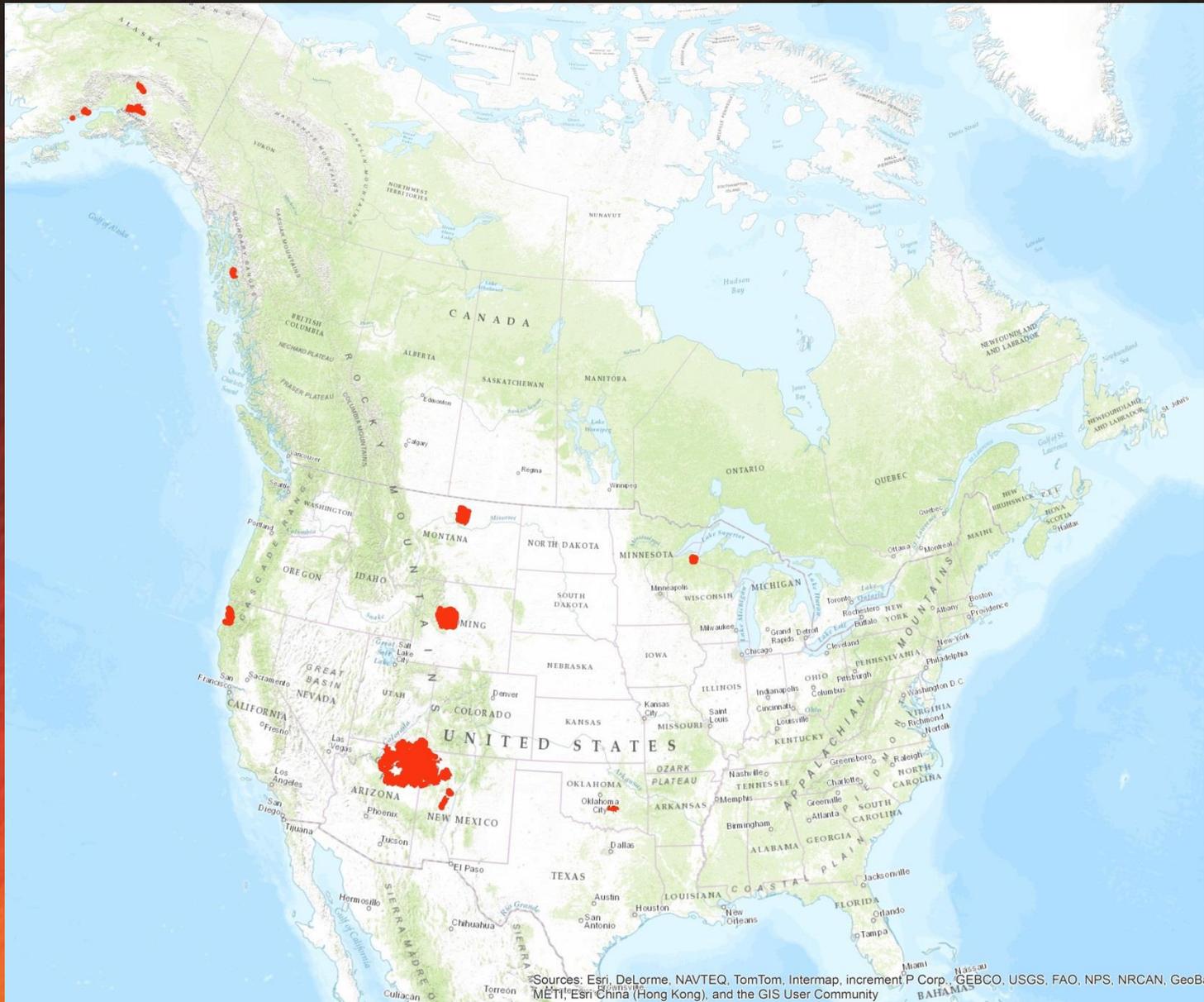


“Alpha Pilot Project”

- ***Call for data closed 1/9/2015***
- ***Submittals were received from 9 tribes***
 - ***Bad River – Wisconsin***
 - ***Chickaloon – Alaska***
 - ***Chickasaw – Oklahoma***
 - ***Fort Belknap – Montana***
 - ***Navajo – Arizona, New Mexico, Utah***
 - ***Petersburg Indian Community- Alaska***
 - ***Seneca Tribe – New York***
 - ***Wind River – Wyoming***
 - ***Yurok - California***
- ***Initial comparison of data to establish in common attributes.***
- ***Begin to draft standardized data schema (structure) document and template geo-database***



Live look at the submitted data, draft fields and documentation



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBC, METI, Esri China (Hong Kong), and the GIS User Community



Next Steps

- *Complete draft standardized data schema document*
- *Send draft document out for comment*
- *Review and incorporate comments*
- *Release standardized data schema & documentation*

- *Develop guidance documents and or instruction videos on how to crosswalk existing data into the new standard*
- *Open “Beta” pilot project where Tribes submit actual centerline data in the new standard format which will be aggregated into a national dataset.*

- *Meet with BIA leadership to determine next steps*



Long Range Goals

NTGISC Transportation Workgroup

- *Develop full Tribal Transportation GIS Data model*
- *Develop Training specifically for Tribal Transportation staff*
- *Advocate for the integration of a GIS upload into RIFDS and or other asset management systems to streamline data flows (once pilot projects conclude)*

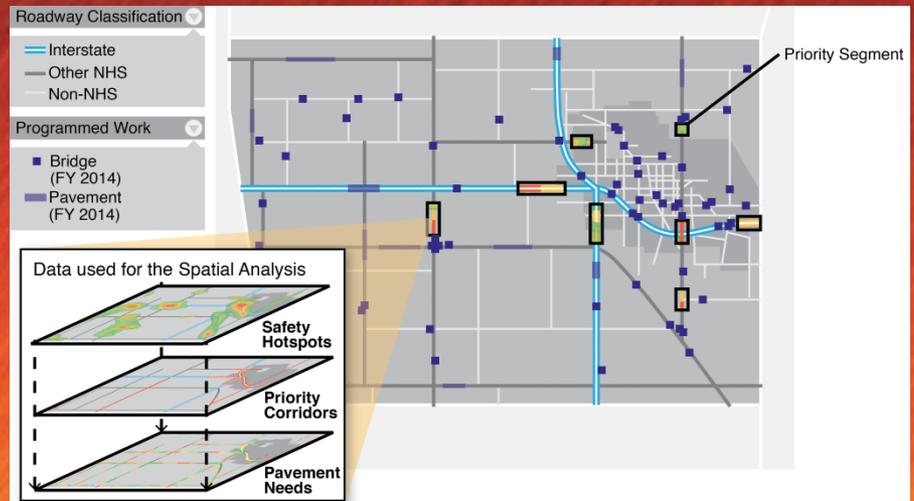


Image source: NCHRP 8-87
Implementing GIS for Transportation Asset Management

Data Layers for Physical Assets



Questions ?



Thank You



For More Information Please Visit

www.tribalgis.com