CGIA Conversation Series on GIS & Equity: Session 1- Tribal GIS

Presenter: Dr. Donna Miranda-Begay, CEO – CA Tribal GIS CGIA – Board Member

Tribal Affiliation: Tübatulabal, Paiute, Tule River Yokut, and Dine'

CA Tribal GIS – new non-profit: Focus on assisting California Native American Tribes (Both Federally and Non-Federally recognized Tribes) with GIS knowledge build to help with Cultural and Environmental Protection and Land Management.



This presentation provides CA Tribal GIS initial GIS work with CA Native American Tribes.

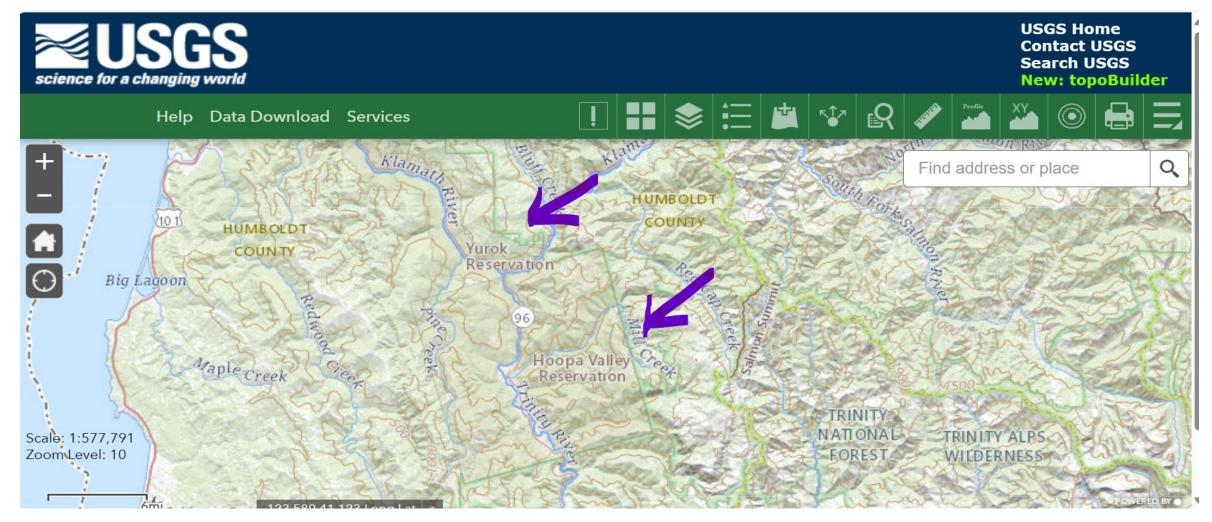
Four major topic areas will be discussed:

- 1) Use of Tribal land representation in maps,
- 2) Tribal Data Sovereignty,
- 3) Access to GIS resources for California Tribes, and
- 4) One Tribal GIS Case Example



Use of Tribal land representation in maps

Federal Government use of Tribal Land include federally recognized tribal lands (i.e., reservations, rancherias, colonies, villages, reserves, communities, pueblos).



California

GIS

Tribal

Use of Tribal land representation in maps

California Tribal GIS

A good equity related policy for California State

California State Government may include both federally recognized tribal lands and non-federally recognized tribal lands (CA Tribes listed with Native American Heritage Commission).

Important to note: CA Government Code § 65092: Public notice to **California Native American Indian Tribes -** Includes California Native American tribe that is on the contact list maintained by the Native American Heritage Commission in the definition of "person" to whom notice of public hearings shall be sent by local governments. Source: <u>State Laws and Codes – California Native American Heritage Commission</u>

Use of Tribal land representation in maps

An Equity Related Issue

Allotment Lands may or may not be included on public entity maps. CA Tribal GIS organization recommends that allotment lands be included in CA public maps for improved equity in planning, cultural resource preservation, and funding.

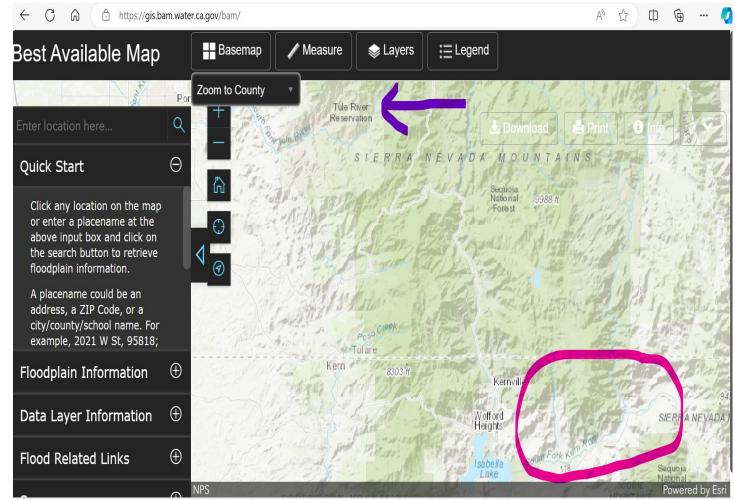
CA Flood Risk Assessment Map

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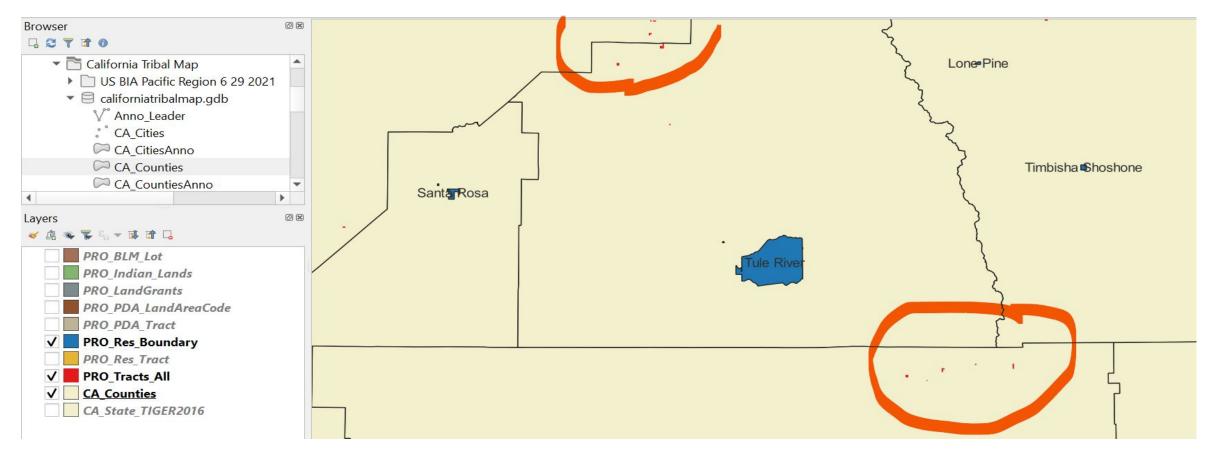
Includes Reservations and Rancherias, but no allotment lands.



Note: The use of ESRI on-line mapping – no allotment lands included.

U.S. Bureau of Indian Affairs – Pacific Region (includes California) GIS Map and Data

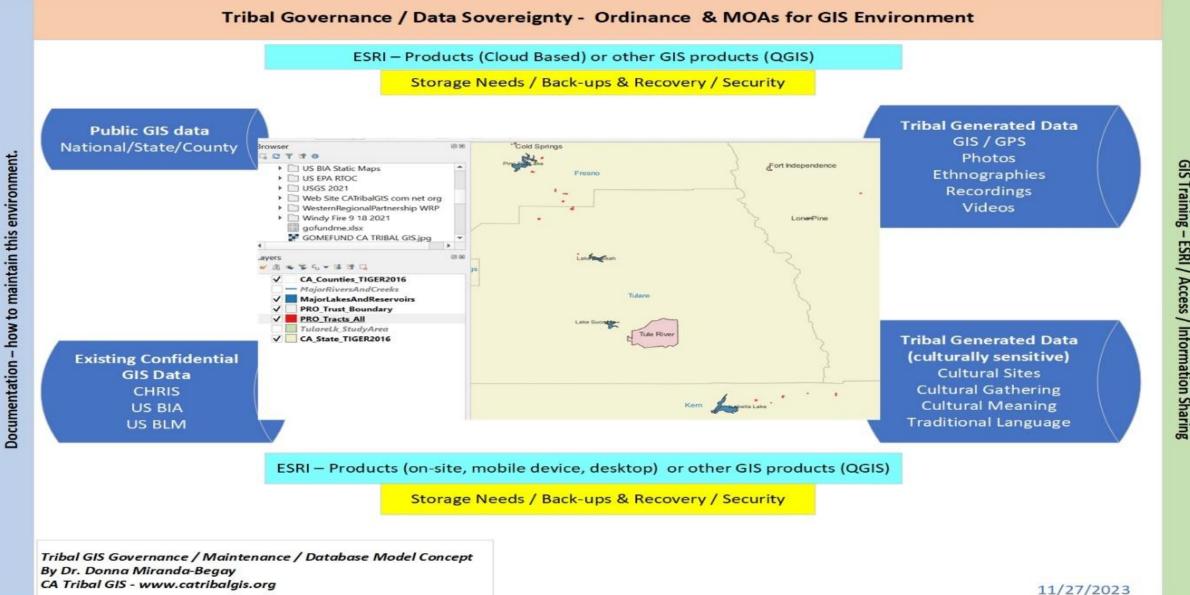
June 29, 2021 - California Based - Reservations, Rancherias, Colonies, Villages, and Allotments – GIS data. <u>https://www.bia.gov/sites/default/files/dup/assets/bia/pacreg/PRO_Indian_Lands.gdb_.zip</u>



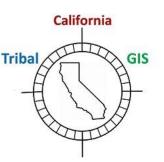
PRO_Res_Boundary layer includes Tribal Names
PRO_Tracts_All includes allotments / public domain lands (circled "red" dots)

Tribal Data Sovereignty

Proposed Tribal GIS sovereignty and database model



Proposed Tribal GIS sovereignty and database model components:



Proposed Tribal GIS sovereignty and database model components:

- 1) Tribal Governance Data sovereignty: ordinance and memorandum of agreement for GIS environment. What, Why, Who, and How the build, data use access, public vs confidential, maintenance, training, and resource support.
- 2) Maintenance documentation of the environment to ensure not just one individual with support knowledge
- **3) Training** on-going funding and support to keep GIS environment up-to-date, secured, and back-up and recovery works properly.
- 4) Database major four areas: Public GIS data, Existing Confidential Data from public entity, Tribal Generated Data that can be later shared, and Tribal Generated data that is sensitive and/or confidential.

<u>Important to note:</u> Cloud based and on-site / local applications and data should all have a good back-up and recovery strategy, procedure, and documentation.

Access to GIS resources for California Tribes

CA Tribal GIS web site – download CA Tribal GIS Resource Document located at this web link site: www.catribalgis.org (Scroll to bottom of web page for download – spreadsheet or PDF format)

This website also has two forms – 1) CA Native American Tribe needing any assistance with GIS and 2) If you can provide support or resources to assist CA Native American Tribes with GIS needs.

Existing CA Native American GIS needs: A need for GPR services, Introduction to GIS, current LiDAR of newly acquired Pathways 30 by 30 conservation lands, and CA Native American Cultural Monitoring training.

CA TRIBAL GIS - INFORMATION SHARING / DOWNLOADS

California	
Tribal GIS	

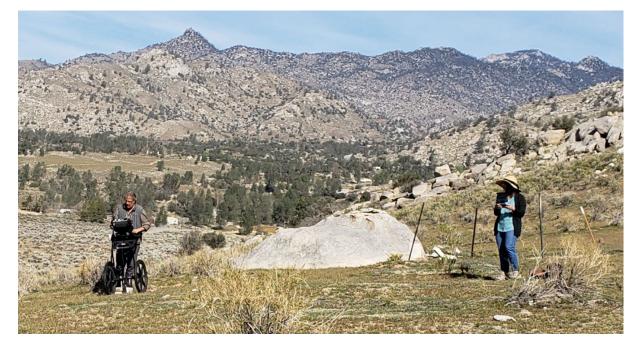
CA Tribal GIS research GIS use and needs of CA Native American Tribes. To provide updates for these downloads - email DonnaBegay@yahoo.com



Case Example of GIS Use by CA Native American Tribe

Case Example of GIS Use by CA Native American Tribe

In March 2022, Tübatulabal Tribal cemetery expansion project required current day GPR (Groi Penetrating Radar) survey completed on existing Tribal Historic Cemetery. Also, Drone fly over was also performed. Both GPR and Drone fly over were conducted by external services. Tribal Council had arranged for these services and with support of Tribal Members and local landowner(s), a two-day gathering was planned. Tribal families held a ceremony, conducted a small reburial of funerary objects, and watched the GPR service representative. There was several unmarked grave sites, but most of the sites were within the boundaries of the historic cemetery boundary makers.





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tuu-wuu (Thank you)

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Utilizing GIS to assist with protection of cultural landscape and natural resources management. Assisting CA Native American Tribes with improved GIS knowledge build.

Happy Native American Heritage Month (Nov 2023)