

EBCI: PARCEL DATA CONVERSION PROJECT

David Wyatt

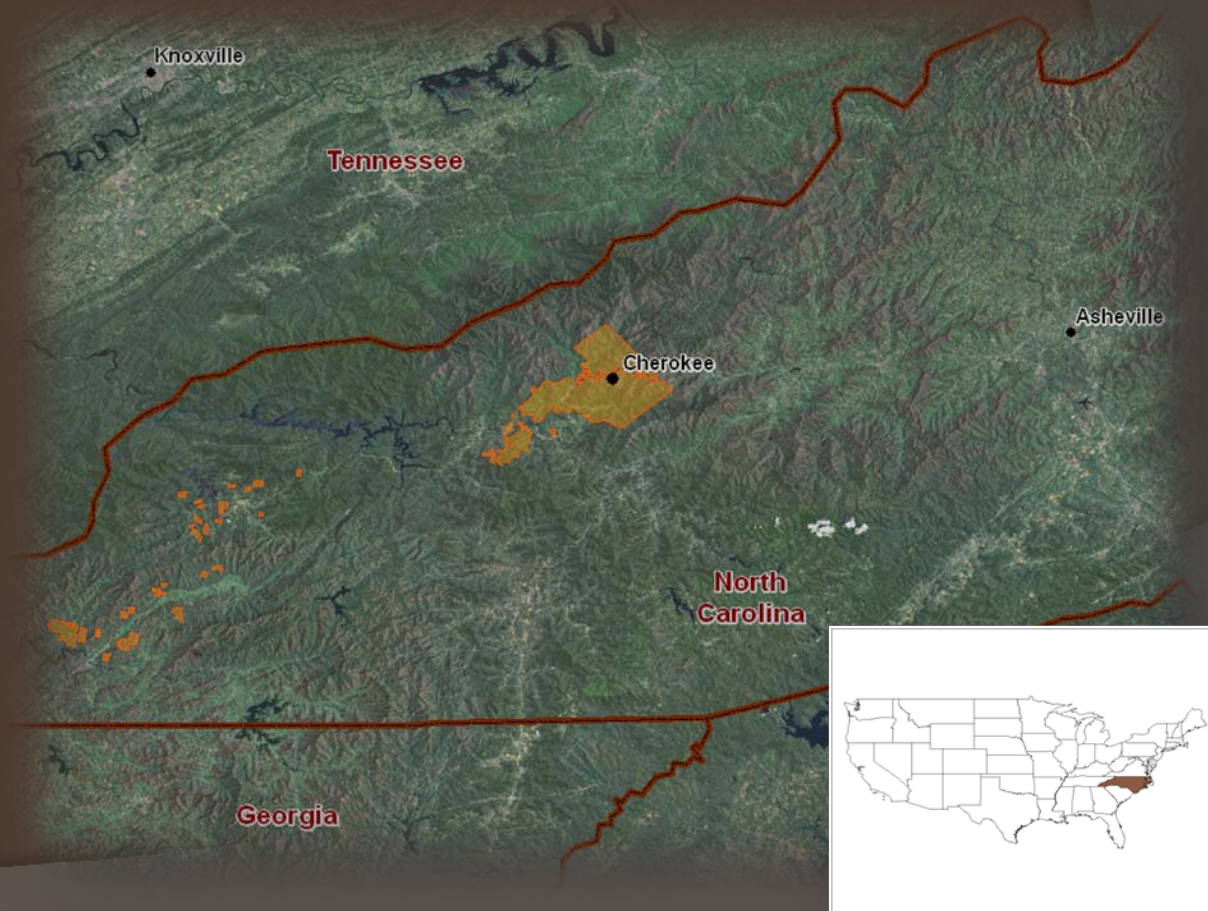
Eastern Band of Cherokee Indians

Cherokee NC

June 2011 NGAC Meeting

About the Eastern Band of Cherokee Indians

- Located in western North Carolina
- Reservation borders the Great Smokey Mountains National Park
- Comprised of approx. 13,000 recognized tribal members

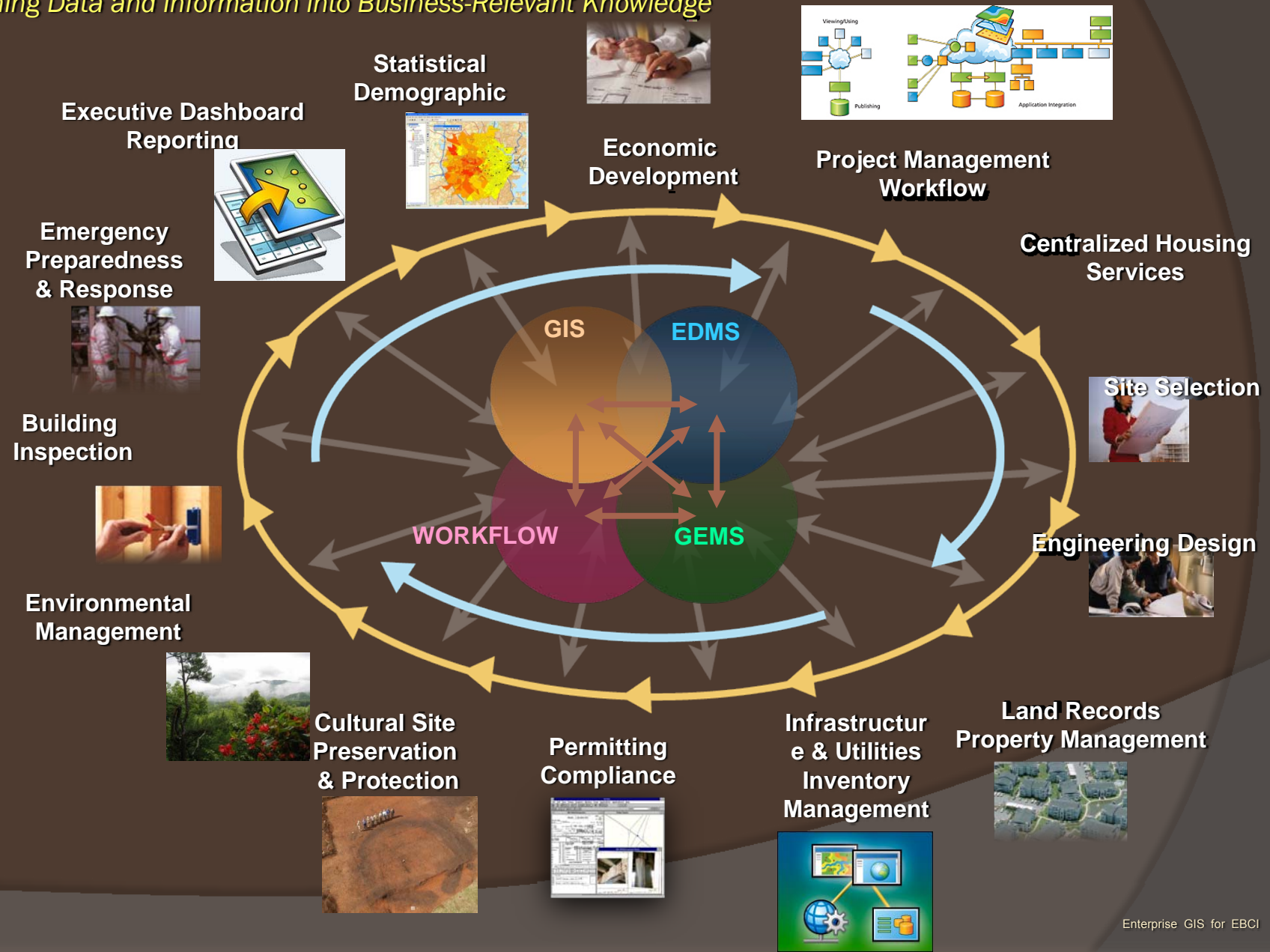


Cherokee



Tribal Integrated Geographic Information System

Turning Data and Information into Business-Relevant Knowledge



1.8 Million pages of Land Records (130 years)

- ⦿ Local Bureau of Indian Affairs (BIA) files
- ⦿ Tribal Documents
- ⦿ National Archives
- ⦿ State Archives
- ⦿ Land Title Records Office (LTRO)
 - Trust Asset and Accounting Management System (TAAMS) (US DOI, Indian trust accounts)



FIELD NO. 2.
 OF
 THE RECAPTURE OF THE BOUND
 OF
 THE "LOVE TRACT" IN THE QUALIA INDIAN
 OF
 THE EASTERN BAND OF THE CHEROKEE INDIANS
 IN THE
 STATE OF NORTH CAROLINA
 FOR
 THE PURPOSE OF DETERMINING ITS AREA
 BY
 REQUEST OF THE BUREAU OF INDIAN AFFAIRS OF APRIL 8, 1910
 IN
 PURSUANCE OF A RESOLUTION OF THE COUNCIL OF THE EASTERN
 BAND OF CHEROKEE INDIANS, DATED CHEROKEE, N.C. MARCH 4, 1910
 EXECUTED BY
 CHAS. M. PIDGEON, U.S. Surveyor, under instructions of the
 Commissioner of the General Land Office, dated April 26, 1911
 at. 30
 Survey commenced
 * COMPLETED
 which Indian, May 3, 1911,
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 or is 1°25' to the West
 true Meridian thus determined by a center
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T. L.

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inlies etc.

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collected from the servants on
the Dominion Lands

R E Carter
M P Sneed
Brown Low Young
W B Palmer

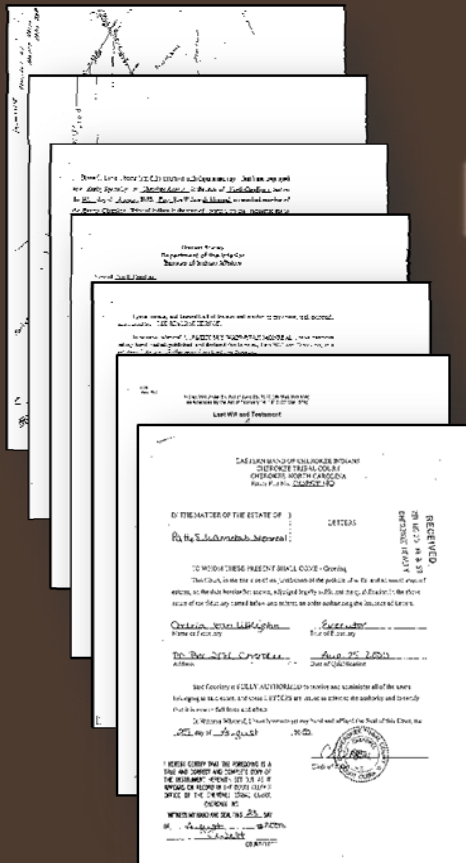
\$ 8.00
1.25
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5902

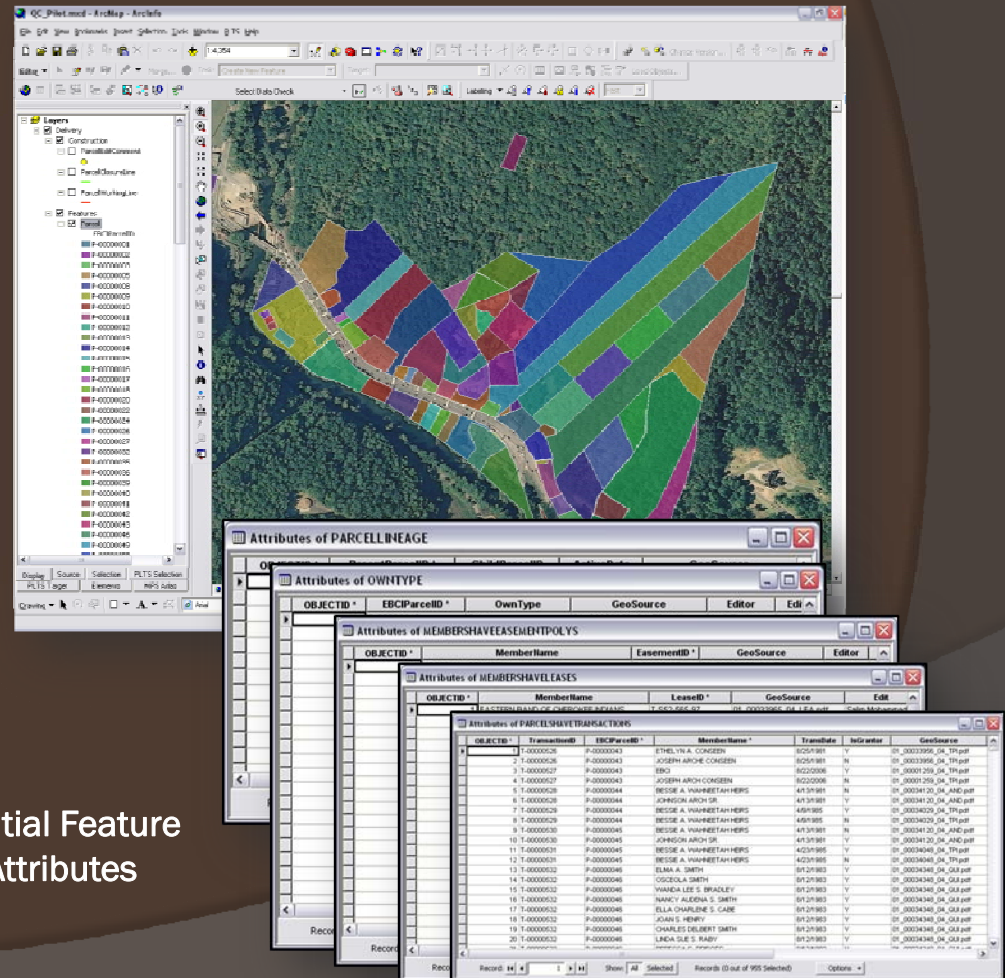
349

The goal of this Parcel Data Conversion project is to convert the Federal/ Tribal hardcopy legal land records into spatial features.

Source Legal Deed Documents



Spatial Features



Spatial Feature Attributes

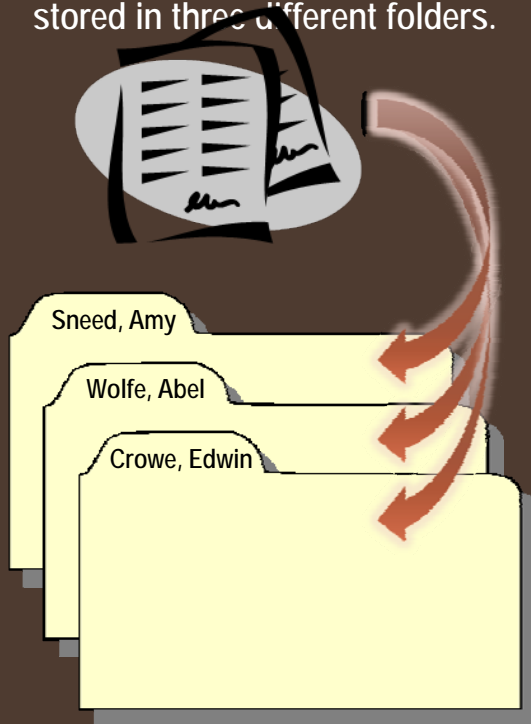
Tribal Land Records Challenge

- Documents organized by Community(?) / individual tribal member name vs. individual parcel
- Parcel numbering /naming conventions
- Duplication of documents
- Identifying the most current version of a document
- Non-standardized terminology and procedures associated with possessory holdings documents
- Ownership practices unique to a tribal land ownership and transaction system
- Documents lack sufficient information to accurately locate, capture or attribute features
- Orphan /missing documents from land holdings files
 - 140,000 documents missing basic information (parcel #, date, Community) = Costly research

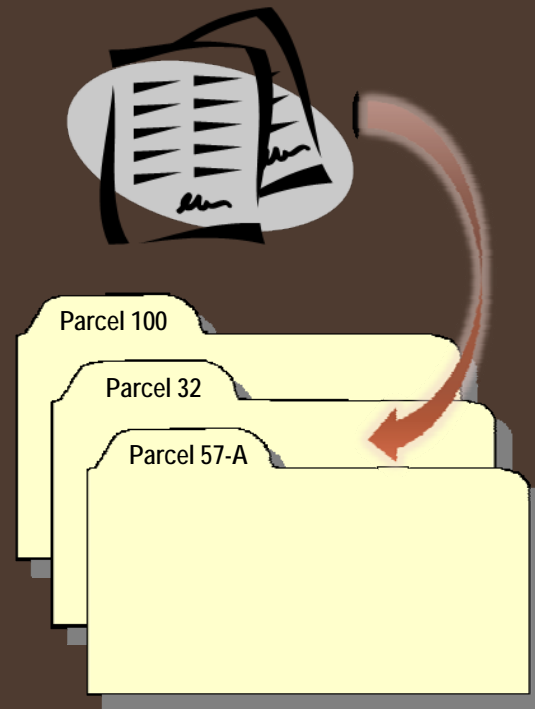
Document describes sale of Parcel 32 from Edwin to Abel and Amy...

BIA Filing System

If the documents are organized by individual, a copy of the document must be stored in three different folders.

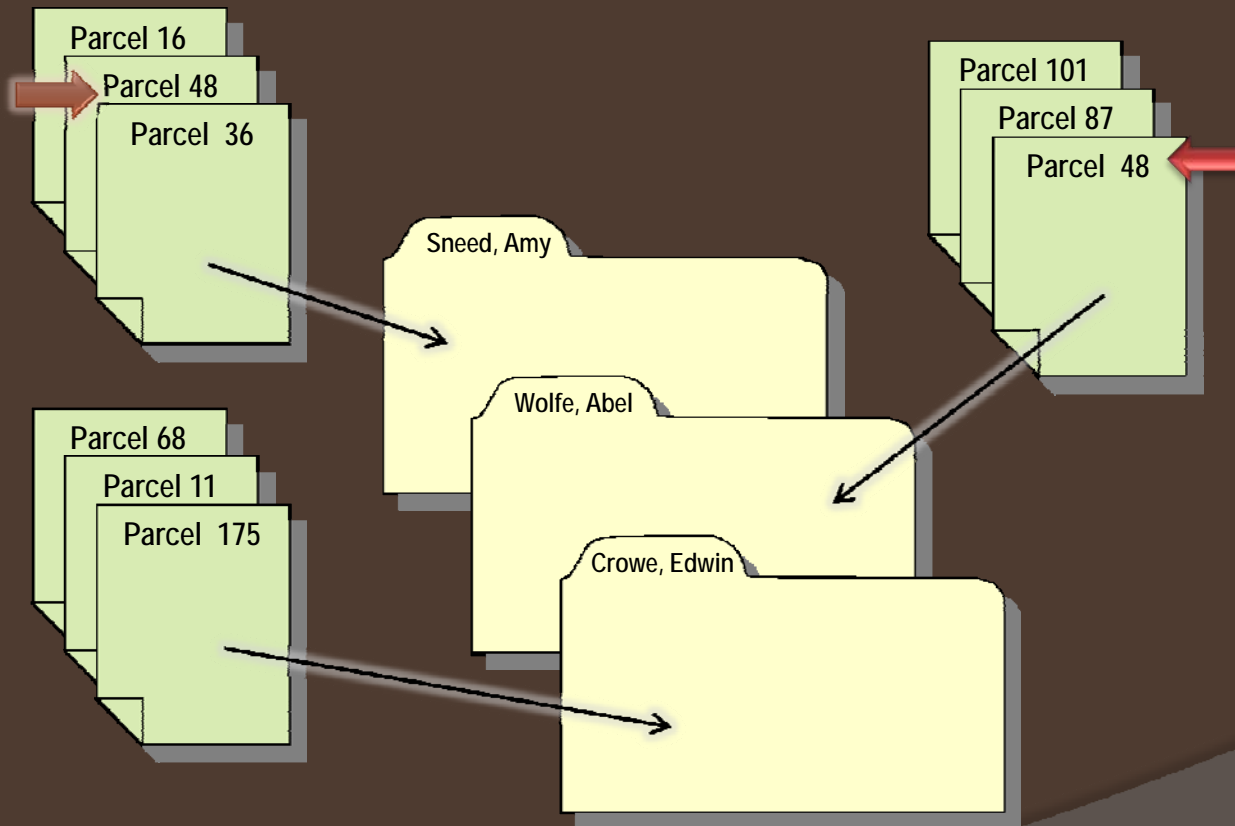


If the documents are organized by parcel, a copy of the document only needs to be stored in one folder.



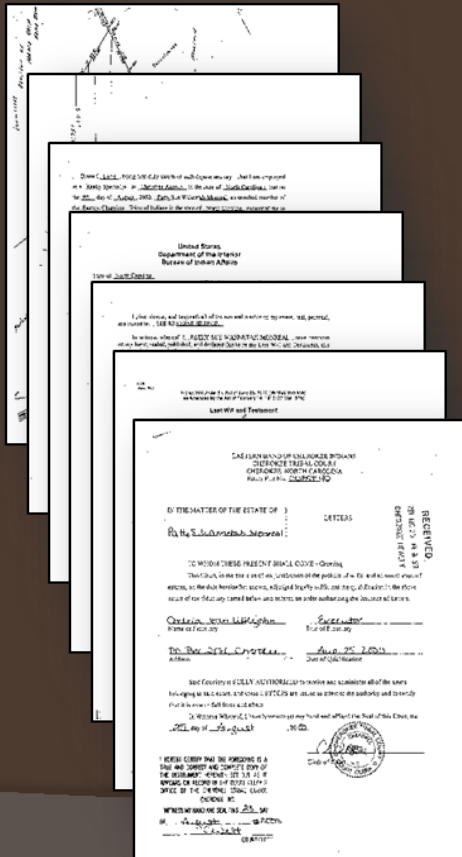
In order to capture the lineage of Parcel 48, need to find all associated documents...

If the documents are organized by individual, finding all documents related to a single parcel is difficult and inefficient.

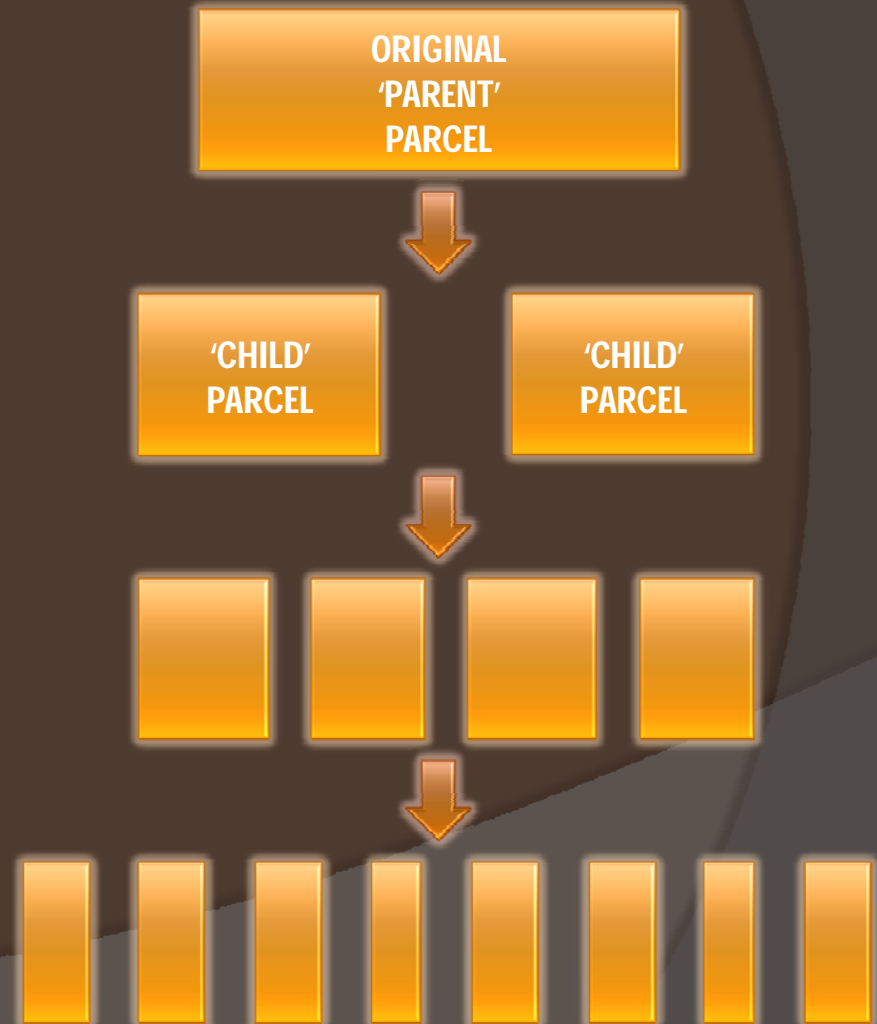


The focus of the Parcel Data Conversion Project, is to capture the lineage of each parcel in the Tribe's Integrated GIS.

Scanned Source Legal Deed Documents

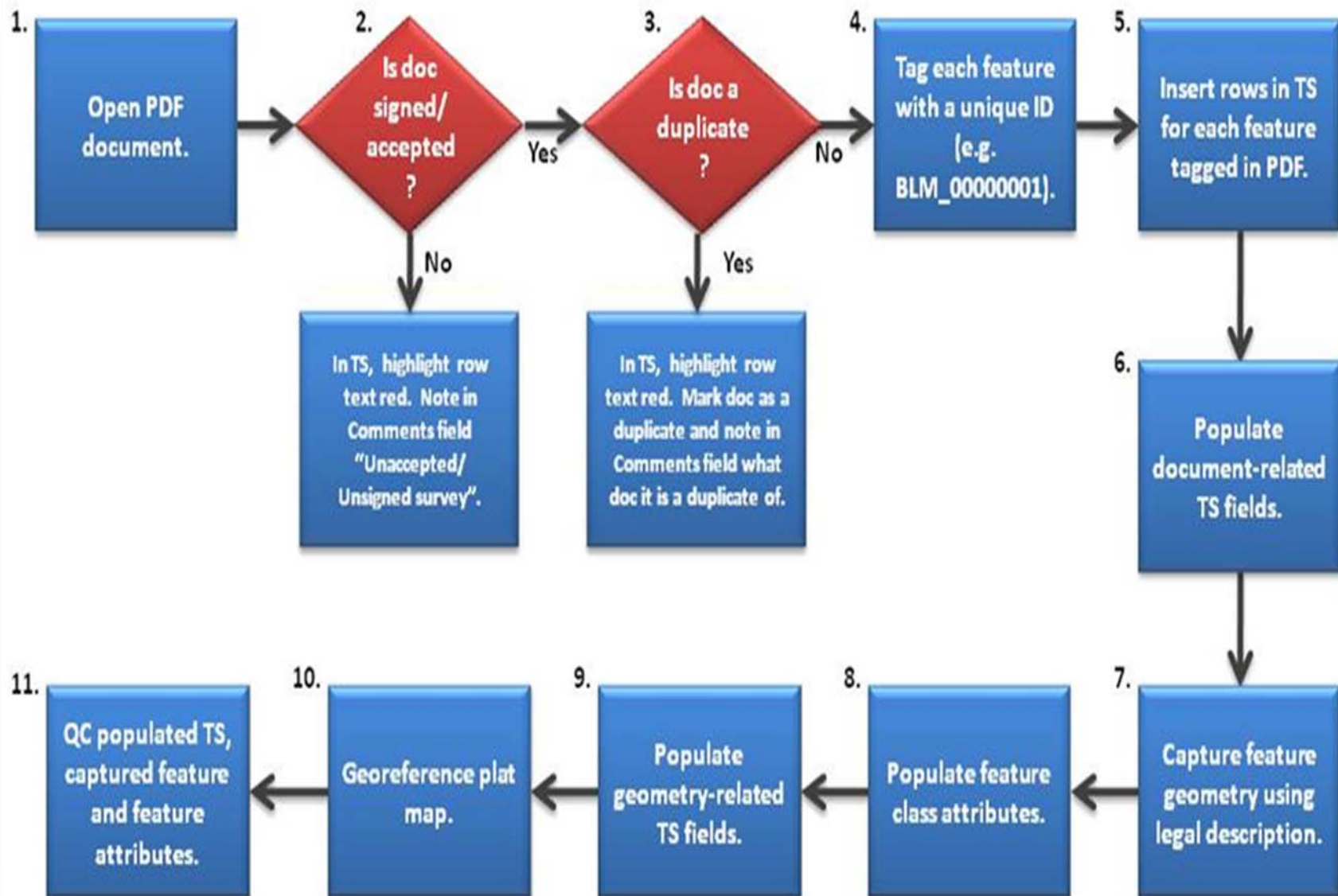


Conversion

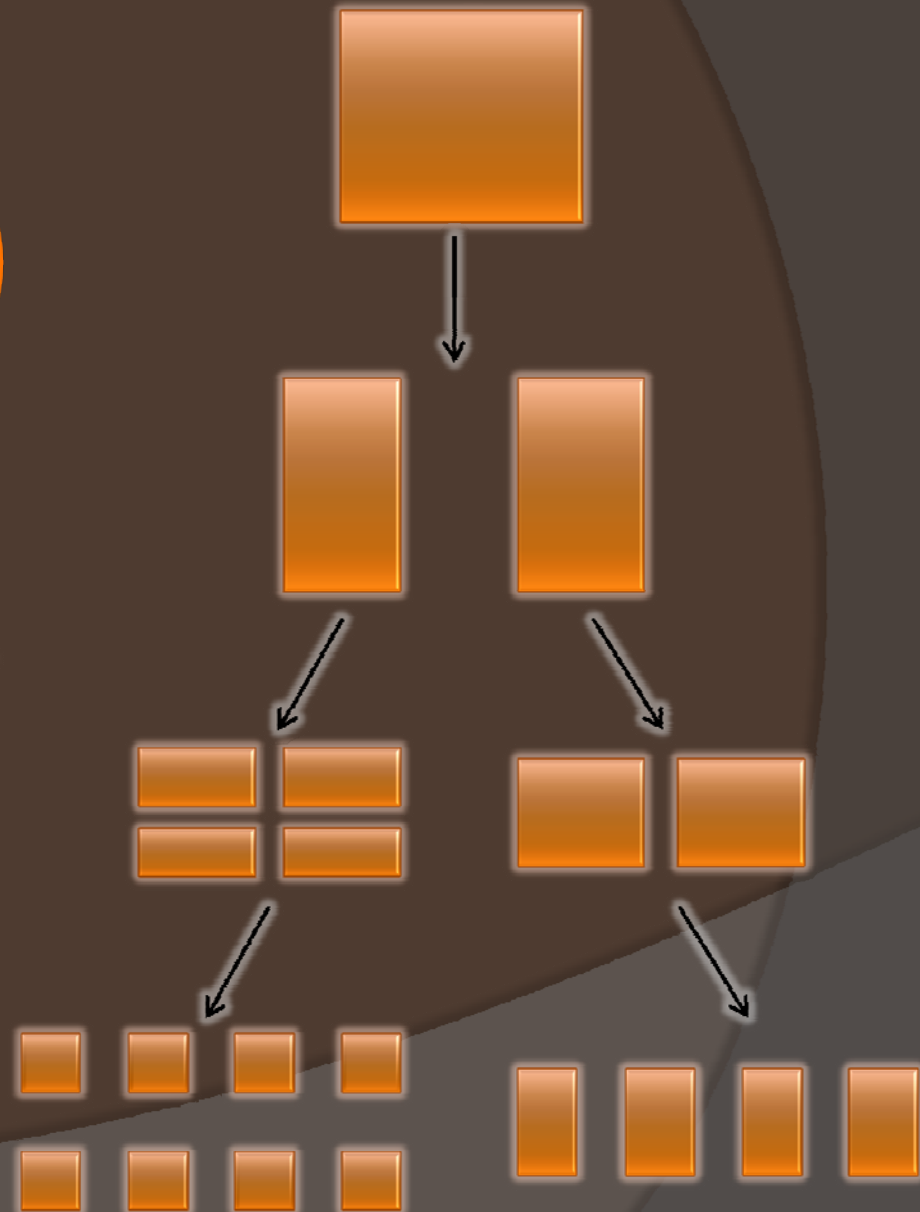
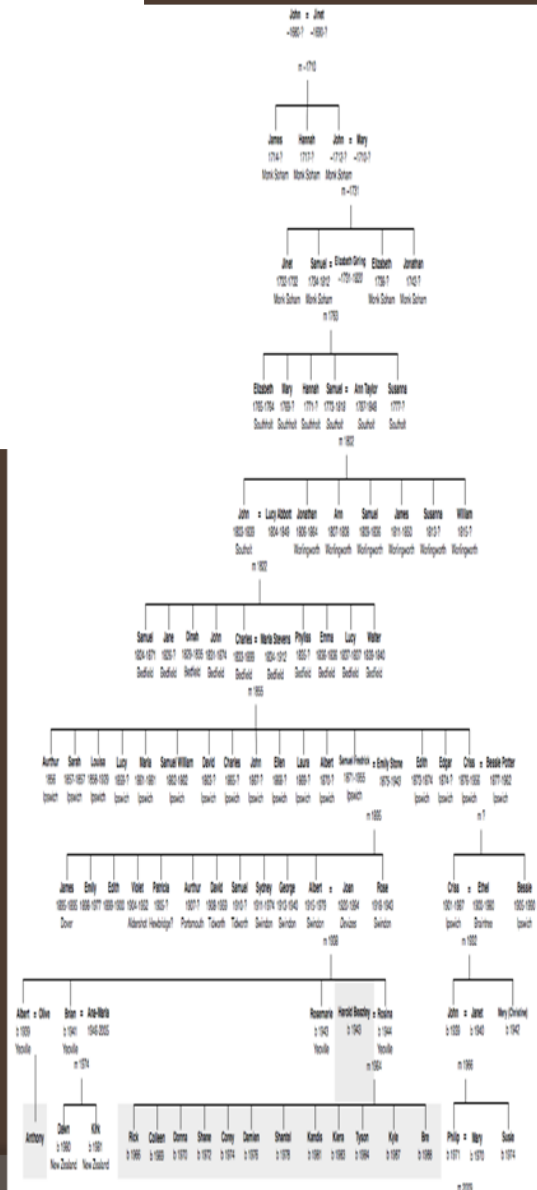


As part of the parcel lineage, information is being capture for...

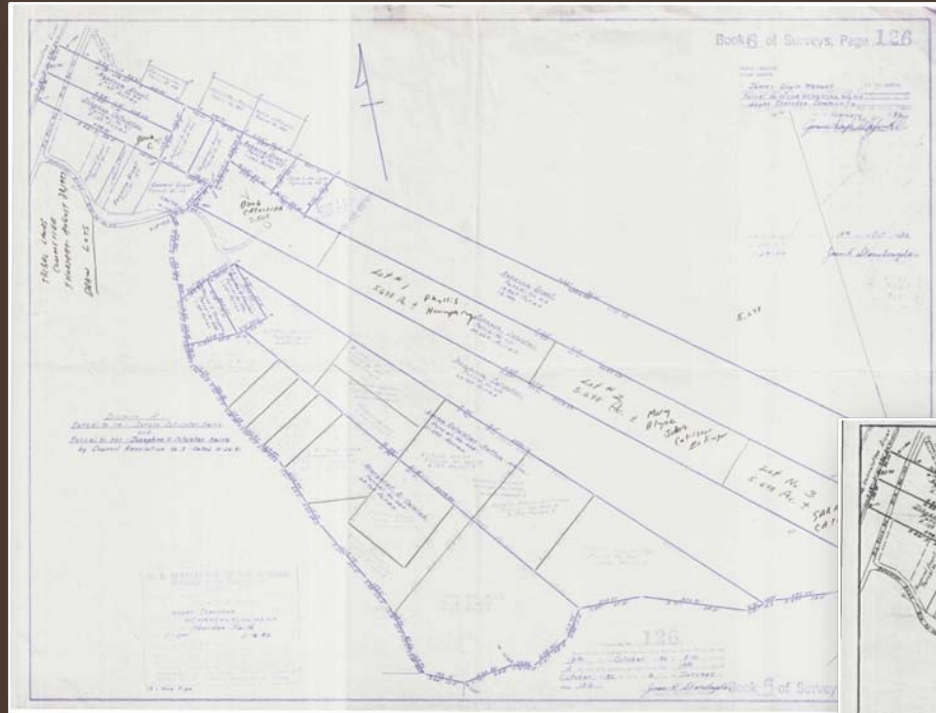
- Current vs. Historic Parcels
 - Does this parcel exist today?
- Parent and Child Parcels
 - What parent parcel was a child parcel subtracted from?
 - What child parcels were subtracted from a parent parcel?
- Land Transactions:
 - What tribal members were involved in each land transaction?
 - When did the transaction occur?
 - Who was the grantor and who was the grantee?
- Ownership Types
 - Sole, Tenants In Common, Life Estate, etc.



Tribal members often leave their land to their children. Over several generations this can result in a very extensive and complicated parcel lineage.

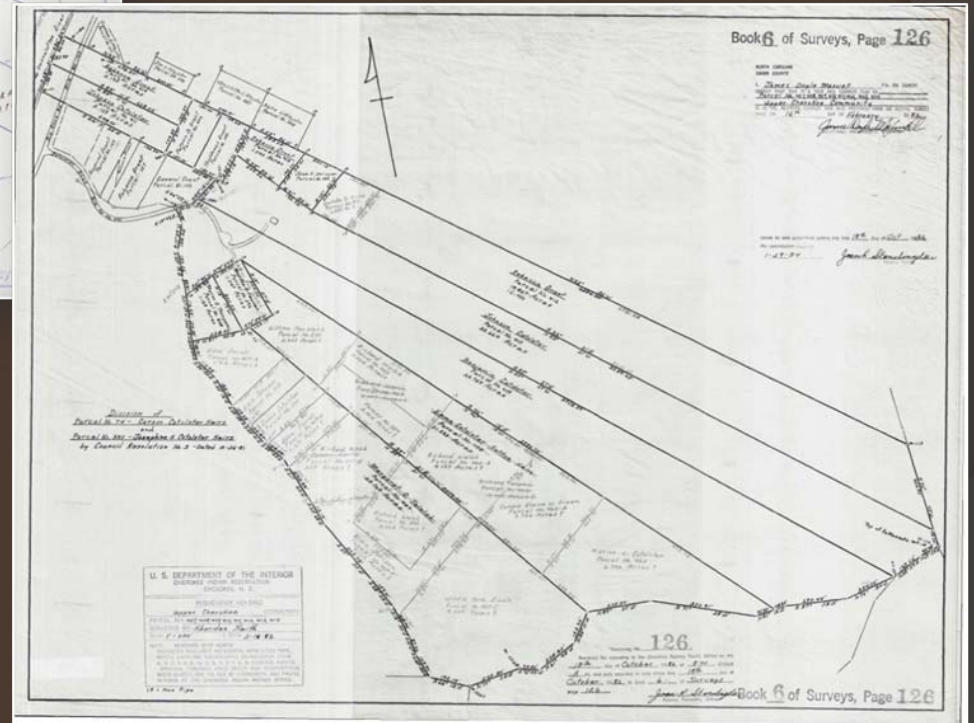


Document # 4471



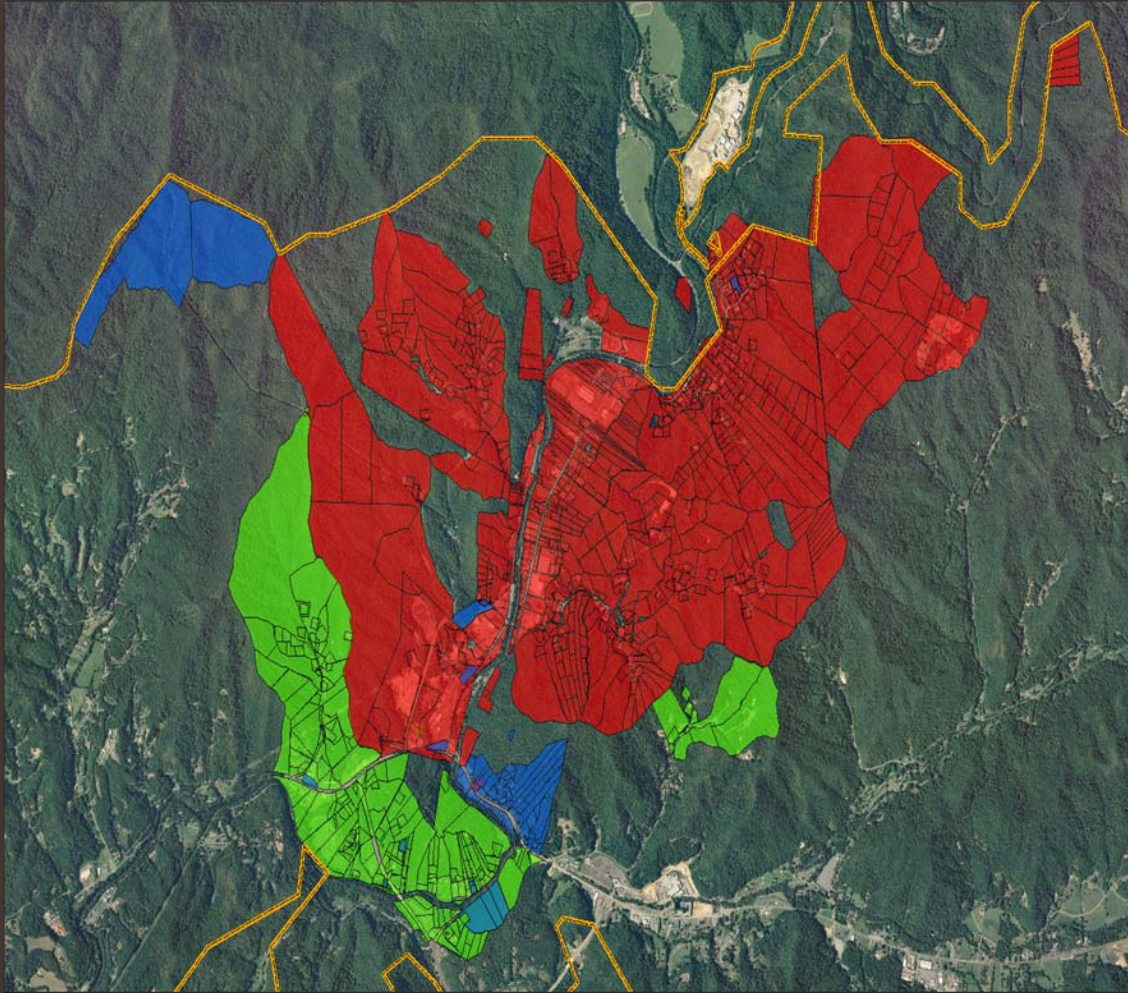
Two different plat maps. Both have the same document date signed by BIA. Each document shows different parcel information.

How do we determine which is the 'correct' or 'current' version?



Document # 5433

Features captured



Primary Tribal Area...

Primary Tribal Area
zoomed in...

... with Cherokee
Community features...

... and Upper
Cherokee features...

... and Lower
Cherokee features.

Land Title Records Office (TAAMS data)



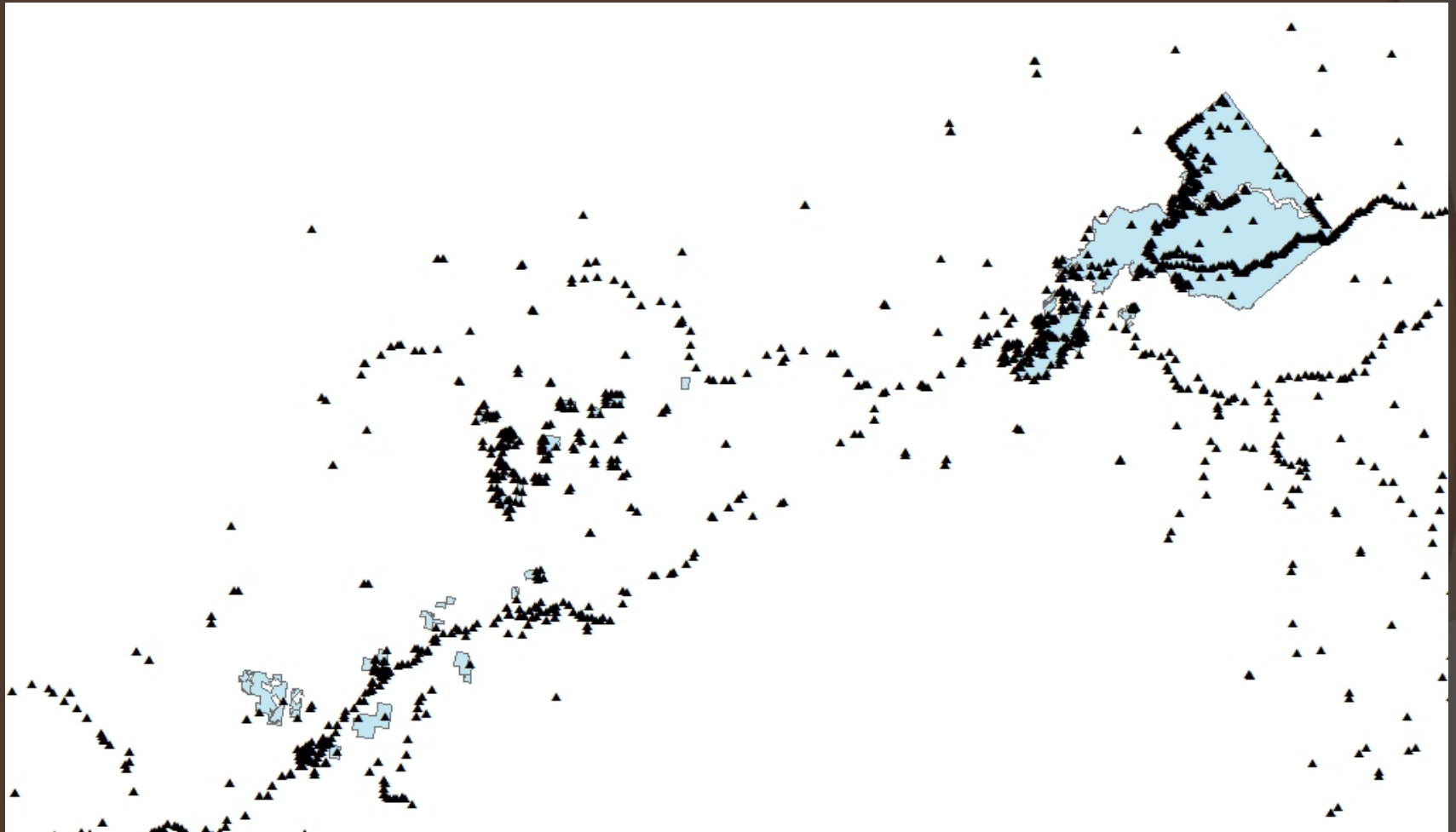
BLM Cadastral Surveys



Land Title Records Office (TAAMS



Survey Control Monuments



NGAC Gov to Gov Relationship With Tribes

- ◉ Improve Relationships
- ◉ Current and Planned Activities
 - Input from Tribes on DOI Projects
 - Tribal Land Records / TAAMS
 - Promote Apps for Gov To Gov collaboration
 - Fee to Trust facilitation
 - Tribal Boundary Encroachment
 - Cultural Site Protection “Permitting”
 - FGDC Cultural Resources Standards
- ◉ TWO way Communication

ESRI and EBIC Project Teams

EBIC

**David
Wyatt**
(GIS Manager)

LeChay Arch
(GIS Tech)

**Temporary
Staff**

ESRI

Jan Mares
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**Jessie
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(Technical Lead)

ESRI India
(Sub-Contrator)

ESRI

John Young
(Federal)

**John
Karagiannis**
(Developer)