Developing a Modern GIS Land Record System from Federal Land Records

Eastern Band of Cherokee Indians
Team

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• Jessie Hanson-McFarlane – Esri Technical Manager (Parcel)
• John Young – Esri Account Executive
Presentation Overview

• Why is a modern system needed

• Know what you are getting your Tribe and Self into

• What's the goal of the project
  - Who benefits

• Know the documents, workflows and current filing system

• Develop a Plan & GIS schema

• Start scanning Take your time

• Begin GIS conversion

• Understand the overall picture
Parcel Boundary Issues (gaps/overlaps)

- Gaps
- Overlaps
Parcel Boundary Issues (boundary closure)
Parcel Boundary Issues

Tribal Lands Vs. Park Lands

Tribal Lands Vs. Graham County Parcels

Gaps

Overlaps

Gaps

Overlaps
Parcels with unknown locations

Were unable to place:
- > 350 Parcels
- > 100 Easements
- > 80 Leases
No parcel ID

No information about where the ROW crosses the parcel.
Duplicate Documents

Two different documents... have same document date, but show different parcel information, signed by BIA.

Which document is the ‘correct’ or ‘current’ one?
Locating All Documents for a Parcel

Community C
- Parcel 3
  - Parcel 2
    - Parcel 1
  - Parcel 9
    - Parcel 8
    - Parcel 3

Community B
- Parcel 3

Community Y
- Parcel 7
- Parcel 6
- Parcel 3
Complex Parcel Lineages

Extensive Family Histories

Person 1
   Person 2
   Person 3
   Person 4
   Person 5
   Person 6
   Person 7
   Person 8
   Person 9
   Person 10
   Person 11
   Person 12
   Person 13
   Person 14
   Person 15
   Person 16
   Person 17
   Person 18
   Person 19
   Person 20
   Person 21
   Person 22
   Person 23
   Person 24
   Person 25
   Person 26
   Person 27

Complex Parcel Divisions

= ?
Recommendations
Understanding the results
Questions