

Cadastral Data Work Group Recommendations (draft)

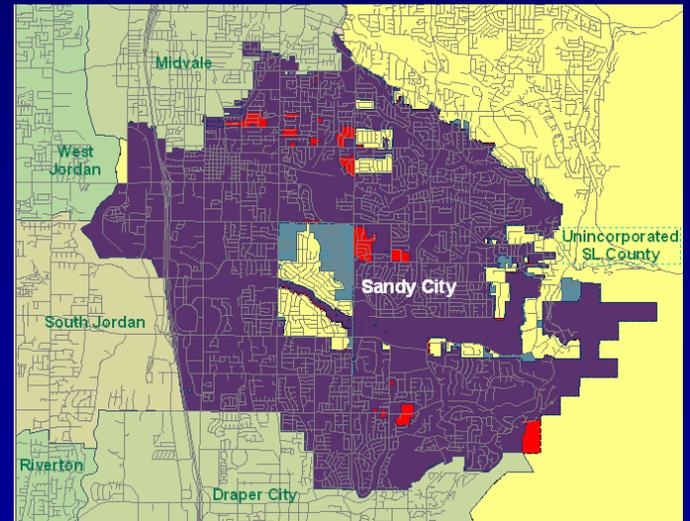
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(AGRC)

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What is Cadastral Data?

- Cadastral: PLSS, Boundaries, Parcels
- Boundaries addressed in recommendations:
 - County
 - Municipal
 - School Districts
 - Special Districts(17A & 17B)
 - RDA's
 - Library Districts
 - Voting Districts*



Work Group Input

- League of Cities & Towns
- Utah Association of Counties
- Utah Association of Special Districts
- State Government
 - Legislature, USTC, UDOT, Office of Ed., AGRC, etc.
- Representation:
- Surveyors, Recorders, Political Sub Divs, GIS Users, Data Users, Reps., etc.

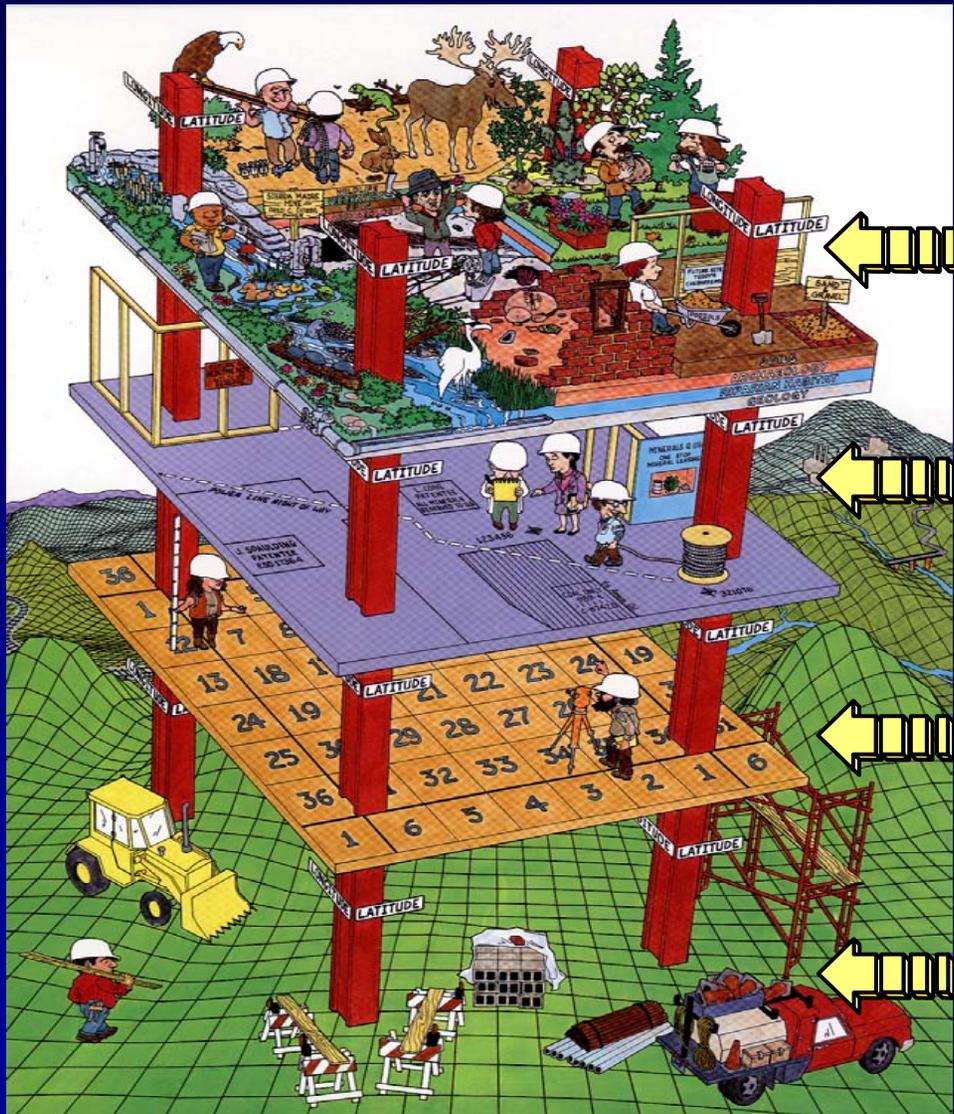


Major Boundary Issues:

- **Technical issues:** descriptions of shared boundaries do not coincide leaving unintended overlaps or gaps.
- **Procedural Issues:** boundary change approval/notice process inconsistent, unclear, or sometimes not followed
- **Geodetic and geographic feature framework data issues** (which form building blocks for most boundaries)



Importance of Cadastral Data: Geographic Information Systems (GIS)



Application Layers

Ownership, Boundary Layers

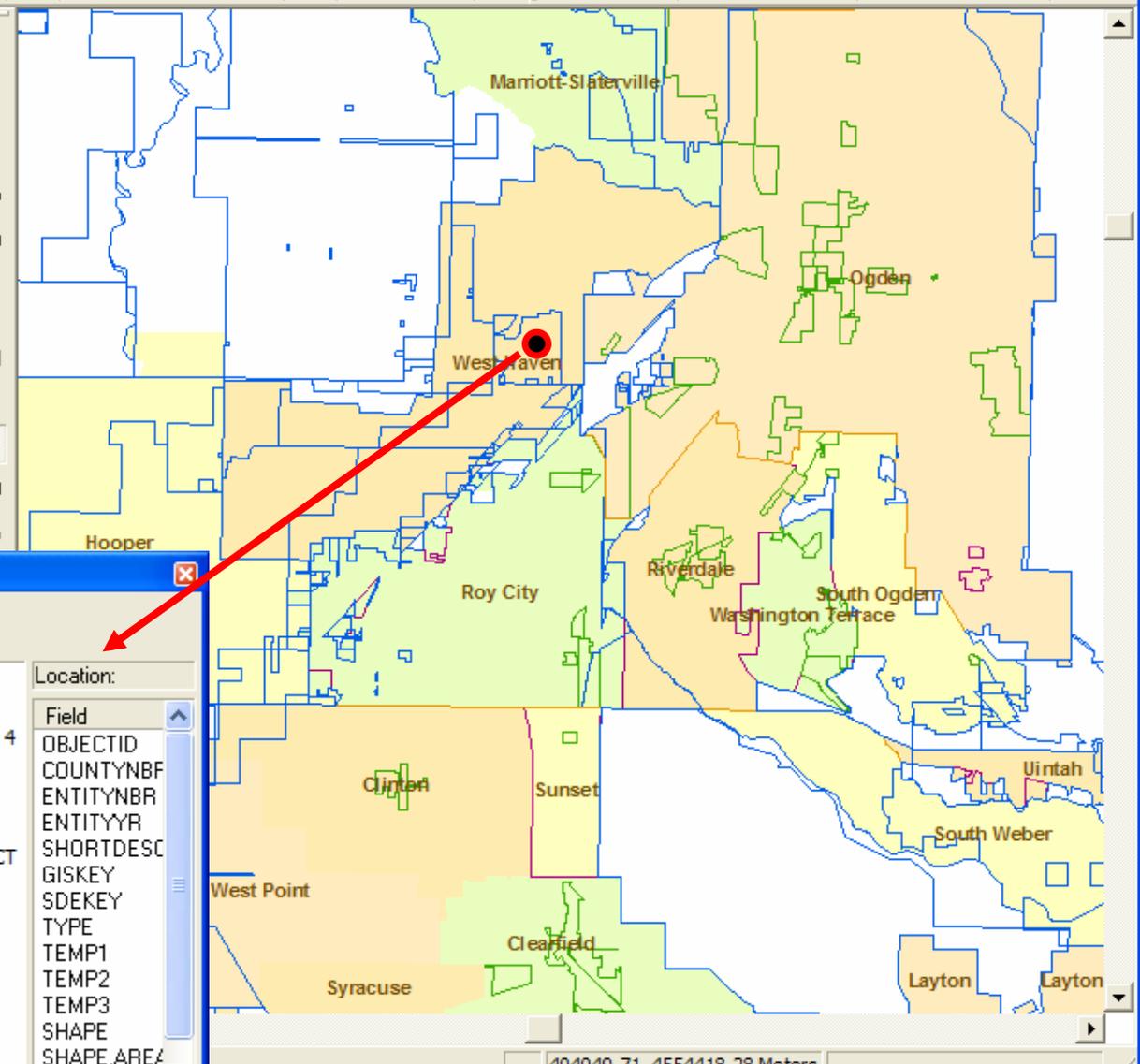
Survey Reference Layer

Surface of the Earth



Layers

- SGID024.TaxEntities2004
 - ENTITYNBR
 - County
 - School
 - Special Dist
 - Misc
 - RDA
- SGID024.Municipalities2004
 - IMSCOLOR
 - 1
 - 2
 - 3
 - 4



Identify Results

Layers: SGID024.TaxEntities2004

- SGID024.TaxEntities2004
 - WEBER COUNTY SCHOOL DISTRICT
 - WEBER COUNTY FIRE PROTECTION SERVICE AREA NO. 4
 - WEBER BASIN WATER CONSERVANCY DISTRICT
 - WEST HAVEN
 - WEBER
 - WEST HAVEN WASTE WATER SPECIAL SERVICE DISTRICT
 - WEBER COUNTY MOSQUITO ABATEMENT DISTRICT
 - WEBER FIRE DISTRICT
 - CENTRAL WEBER SEWER IMPROVEMENT DISTRICT

Location:

Field
OBJECTID
COUNTYNBR
ENTITYNBR
ENTITYYR
SHORTDESC
GISKEY
SDEKEY
TYPE
TEMP1
TEMP2
TEMP3
SHAPE
SHAPE.AREA
SHAPE.LEN

404049.71 4554418.28 Meters

Increasing Importance of Accurate Boundaries

- MTSA, SST tax collection
 - Find each address's geographic location using street centerlines that contain address range info
 - Find tax rate, collect & distribute using boundary data
- Centrally Accessed Property Tax
 - Utility, Railroad, Mining, etc. (assets that span county boundaries)



Recommendation Areas

- 1) Ensure uniformity in the creation & modification of boundaries
- 2) Define State Roles
- 3) Accuracy in GIS Representation
- 4) Enabling technology & processes

Key:

- » May Require Legislative Action: statute or rule changes
- » No Legislative Action except appropriation, if needed



1) Ensure uniformity in the creation & modification of boundaries

- Require a surveyor to create legal boundary description (not clear in current code)
- Lt Gov certification with technical review assistance from AGRC (add depth)
- All boundary changes recorded with County
- Complete distribution of recorded boundary



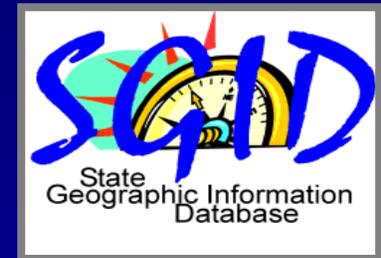
2) Define State Roles:

- Lt Gov (certification & political issues)
- AGRC (technical assistance to Lt Gov and local government coordination)
 - Surveyor Position at AGRC
 - SGID role as survey repository
- USTC / AGRC (maintain boundary database for SGID)
- Administration of Statewide GPS Reference Station Network (SWRN): UDOT / ITS ??



3) Accuracy in GIS Representation

- Improve accuracy and completeness of geographic features in SGID that build boundaries (centerlines, streams, PLSS)
- Utilize SGID for error detection & conflict resolution (current & historical boundary data)
- Define and document all boundary dependencies
 - Boundary to Geographic Feature
 - Boundary to Boundary



4) Enabling Technology

- Support Statewide GPS Reference Station Network (SWRN) enhancements
 - Real Time Kinematic (RTK) Differential Correction broadcast to GPS users
 - RTK Network: survey grade accuracy for GPS, great foundation for boundary descriptions, + *many ancillary applications areas*
- Fund GIS capacity in local government & districts
 - Current \$500K US Congress Appropriation
- Define “rules” (common practice) for new boundary descriptions and resolution of existing issues



The Road Ahead:

- Next meeting of the Cadastral Work Group scheduled:
 - October 5th, 3pm
 - Finalize Boundary Recommendations
 - Discuss Statewide Parcel Database:
 - Obstacles
 - Opportunities
 - Data Standards



Questions, Discussion

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