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46th Annual Taxation Conference APPRAISAL for AD VALOREM TAXATION

of Communications, Energy and Transportation Properties

July 24 - 28, 2016

Allocation Issues – Where and How Much?



- Importance of making accurate jurisdiction assignments
- Overview of GIS to relate assets to jurisdictions
- The 4 key processes that must be in place to make accurate jurisdiction assignments
- Common mistakes to avoid

What is Apportionment?

The process of assigning a portion of a state's value to a geographic area within a state (usually a taxing district or a tax code area).



Importance of accurately relating assets to jurisdictions

- Required for tax compliance
- Needed when apportioning value
- Ability to do so quickly builds credibility with tax authorities, and within one's own organization

Accuracy wins credibility

Inaccurate assignments cost time and money

Wasted time

 Correcting returns, re-filing due to wrong jurisdiction, taking calls from assessors and jurisdictions ...

Wasted money

- More expensive to fix later
- Increased labor costs
- Unplanned audits, penalties and interest
- Cost of filing amended return

Loss of Credibility

What is GIS?

Geographic Information System: Lets you visualize, analyze data to understand geographic relationships

Accurately relate assets to jurisdictions

GIS: Taxing Jurisdictions

Spatial Data

TCA 102 City School Districts Fire Districts

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JurName	JurCode	CountyCode	StateCode	StateAbbr	CountyName	FIPSSTCO	BillingJurType	SpecialJur
Tax Area 5	5	5		co	Delta	08029	taxunit	
Tax Area 51-	51-	51-		co	Delta	08029	taxunit	
Tax Area 54-	54+	54-		co	Delta	08029	taxunit	
Tax Area 5A-	5A-	5A-		co	Delta	08029	taxunit	
Tax Area 5A1	5A1	5A1		co	Delta	08029	taxunit	
Tax Area 5R-	5R-	5R-		со	Delta	08029	taxunit	

Jurisdiction Information

Tax Area Boundaries



Tax Entities

GIS: Assets & Jurisdictions

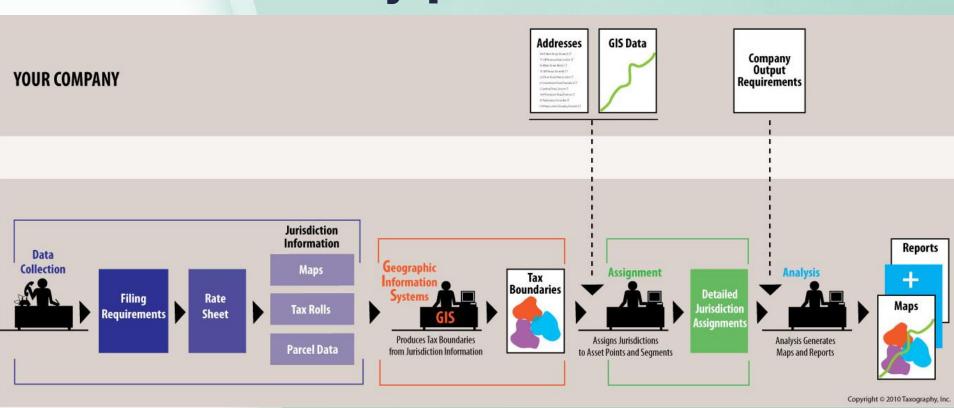
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ID	LEN	JurName	JurCode	CountyCode	StateCode	StateAbbr	CountyName	FIPSSTCO	BillingJurType	SpecialJurTy
2	58,880.78	Tax District 30205	30205	30205		со	Mesa	08077	taxunit	
3	14,474.76	Tax District 13405	13405	13405		со	Mesa	08077	taxunit	
4	3,292.95	Tax District 30405	30405	30405		со	Mesa	08077	taxunit	
5	3,586.52	Tax District 11405	11405	11405	~	CO	Mesa	08077	taxunit	
6	1,366.88	Tax District 11400	11400	11400		со	Mesa	08077	taxunit	
7	4,061.32	Tax District 11800	11800	11800		60	Mesa	08077	taxunit	
8	40,368.52	Tax District 13400	13400	13400		co/	Mesa	08077	taxunit	
9	907.199	Tax District 13000	13000	13000		00	Mesa	08077	taxunit	
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Meeting these challenges

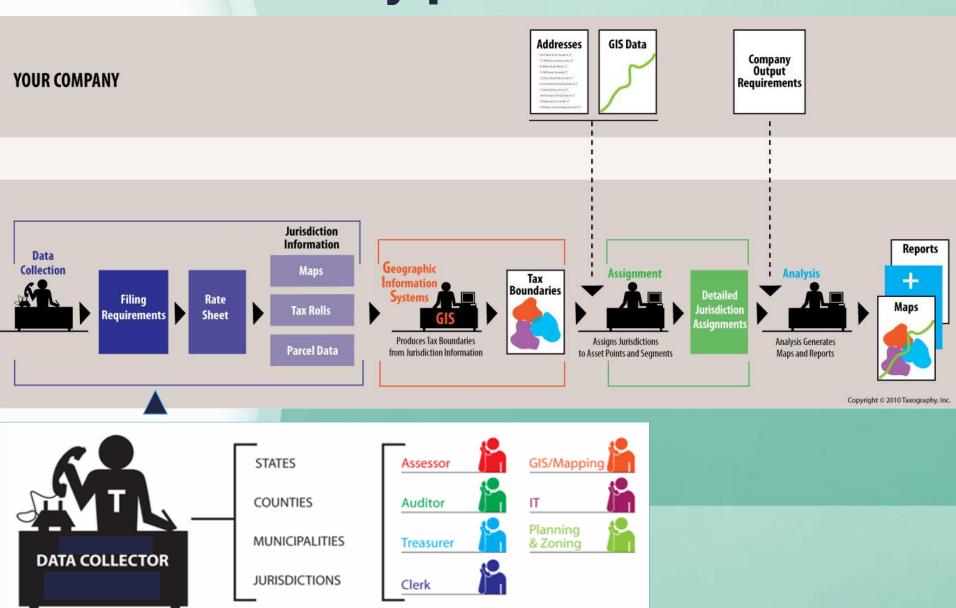
Accurately relating assets to jurisdictions and keeping up with jurisdiction changes requires:

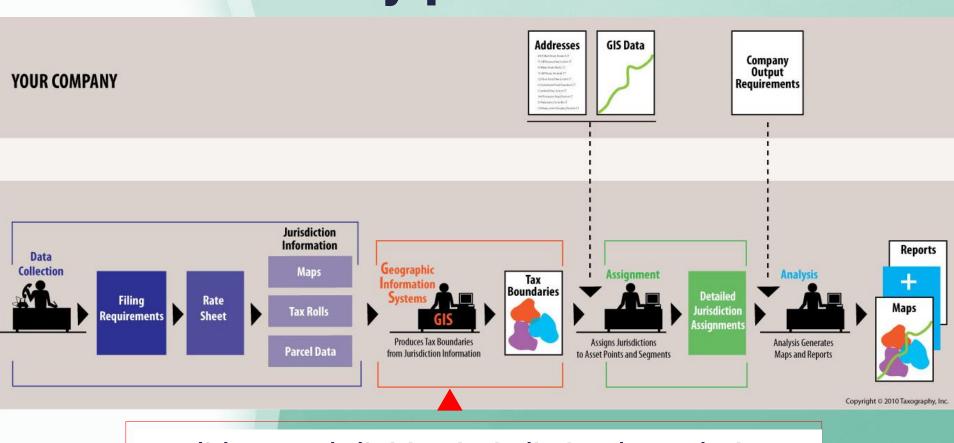
- 1. Skilled people
- 2. Time
- 3. Defined and tested processes
- 4. Specialized tools and systems

Challenging! Let's see how we do it

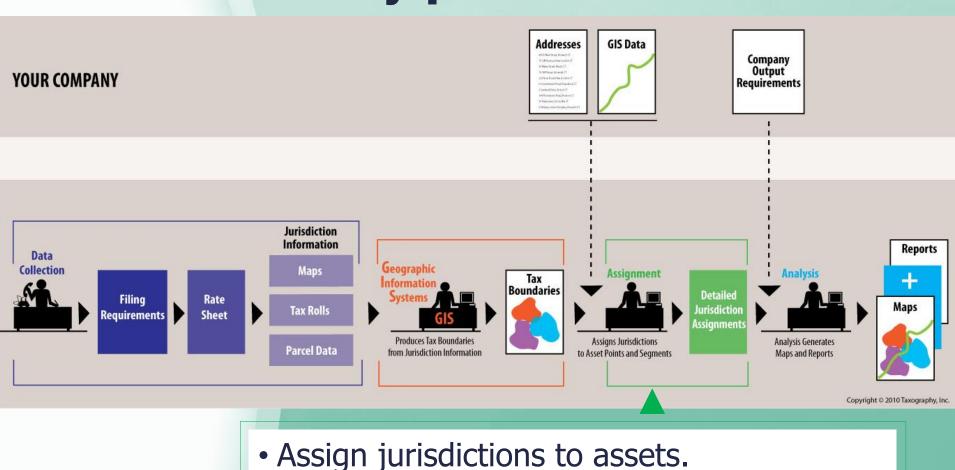


Data Collection
 Geographic Information Systems
 Assignment
 Analysis and Reporting

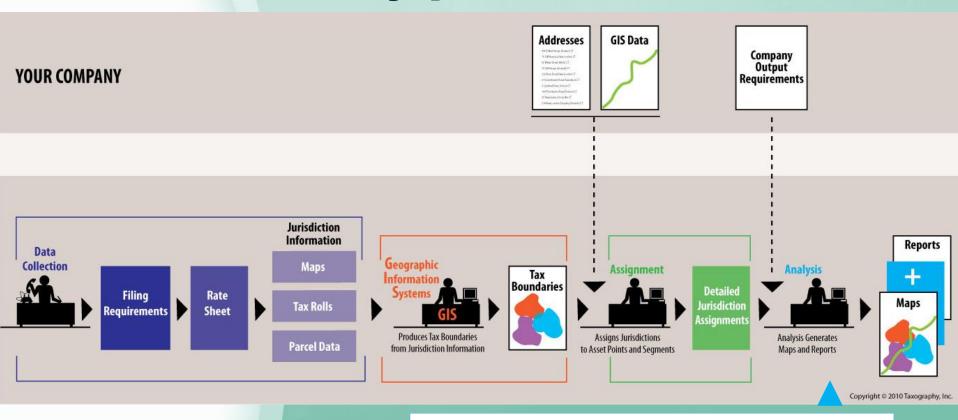




- Validate and digitize jurisdiction boundaries.
- Assure complete: No unwanted gaps.
- Assure boundaries align with map features and with one another.



- (linear assets) Measure lengths of each cut segment.
- Reconcile the lengths.



- Report in the form the Tax Department requires.
- Provide maps of the assigned assets in their jurisdictions.

What causes inaccurate jurisdiction assignments?

- Poor quality asset information
- Incomplete jurisdiction boundaries
- Topological invalidities

Jurisdictions change...

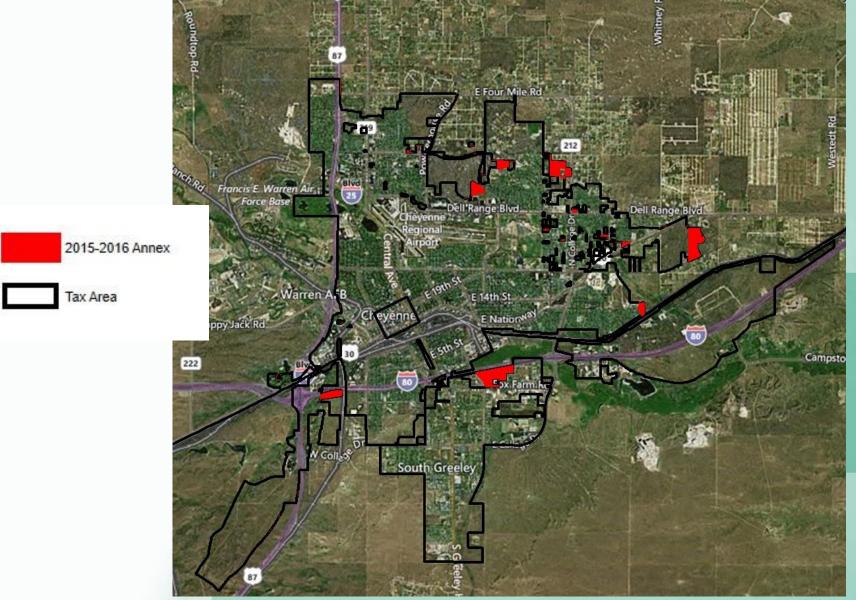
- New jurisdictions are added each year as new taxes and fees assessed by different governmental bodies
- >180,000 property taxing jurisdictions

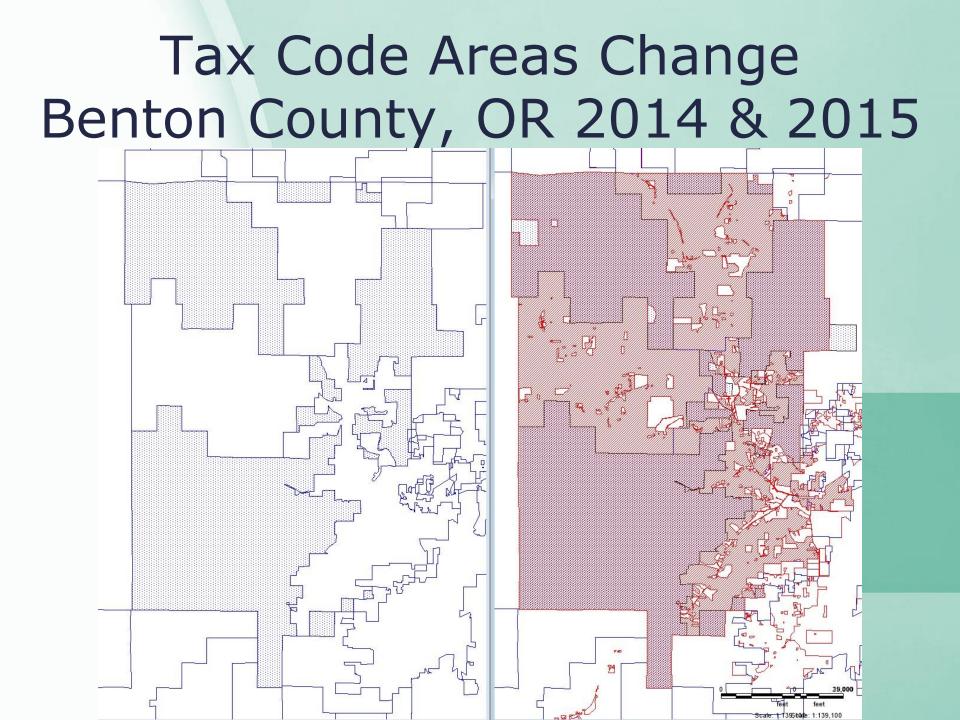
...Jurisdictions change

- Each year, on average:
 - 25% of municipality boundaries change
 - 6-10% of individual Jurisdiction and 10-30+% of Tax
 Code Area boundaries change within a state

Changes compounded over time!

City Limits - Cheyenne, WY





Conclusion

- Accurate jurisdiction assignments saves everyone time and money
- Jurisdiction boundaries change frequently
- YOU can build processes to achieve accurate jurisdiction assignments!