

The Evolution of a Local Level GIS in Rural Oklahoma

Where We've Been, Where We Are & Where We're Going

Beginning

State Capital Improvement Planning Act: 1992 (HB 2375)

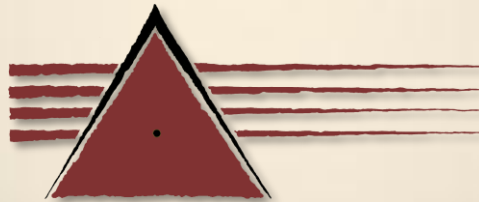
- “There is hereby created a *Long-Range Capital Planning Commission* to advise & assist the Legislature in providing for capital facilities in this state....”
 - Oklahoma legislative request
 - Commerce administers CDBG
 - CDBG funds are highly flexible
 - Planning is an eligible activity
 - CDBG helps improve rural communities
 - Improvements begin with planning

Geographical Information Systems (Geo) & Capital Improvement Planning (CIP)

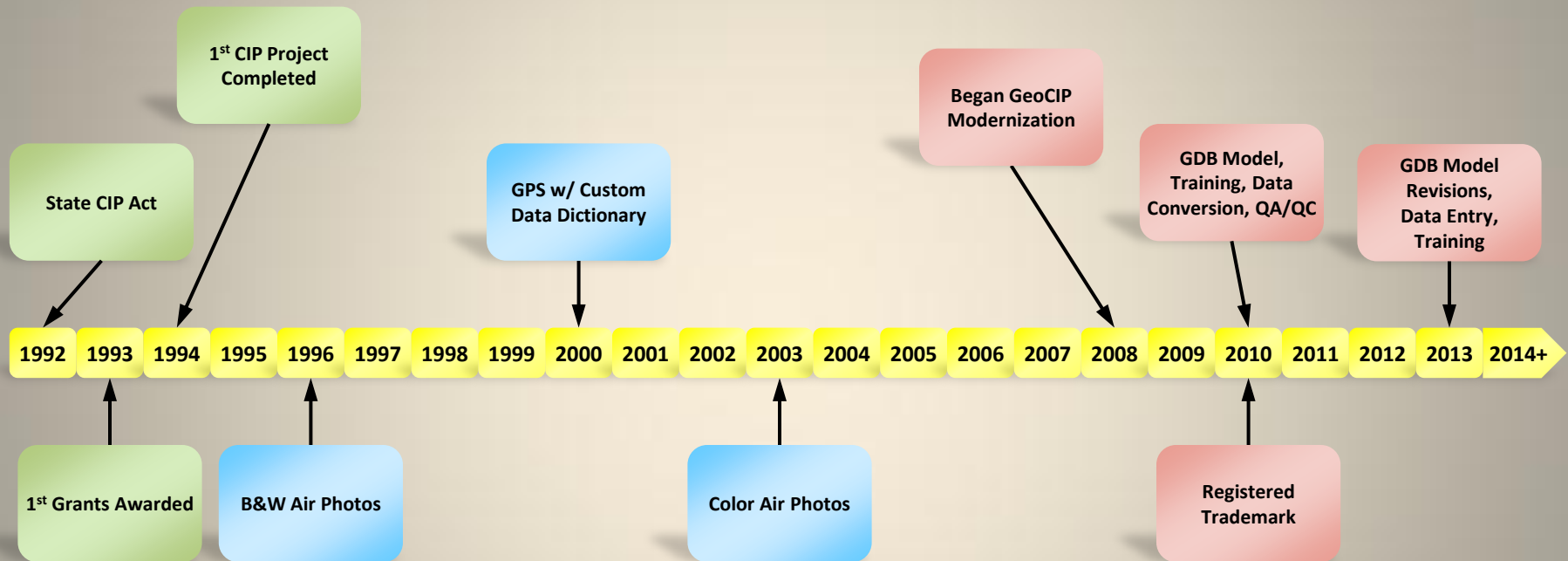
GeoCIP® is a standardized process for creating a GIS based inventory of local government assets to be used in annually evaluating asset conditions, setting improvement priorities for assets & updating the local government capital budget.

Branding

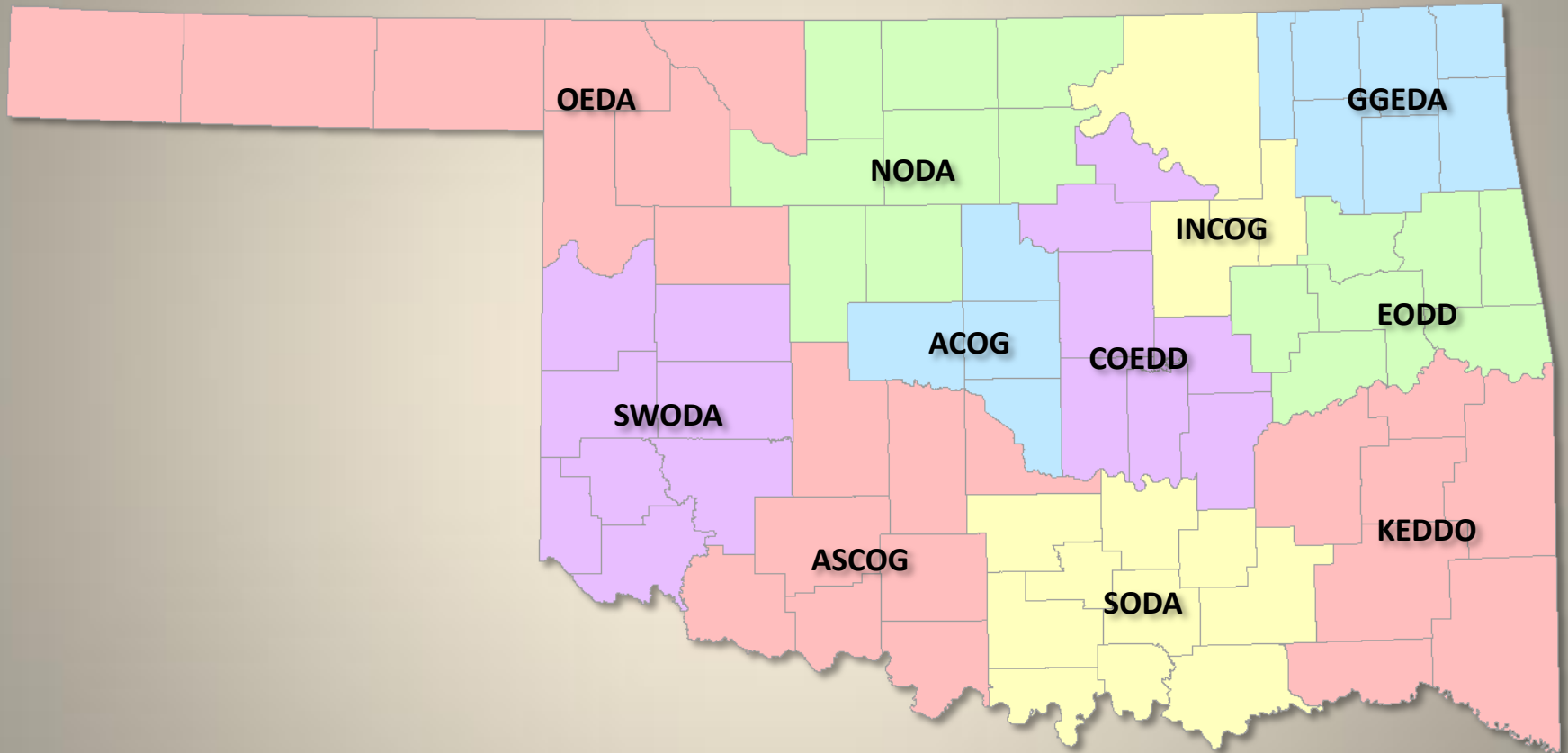
GeoCIP®



History

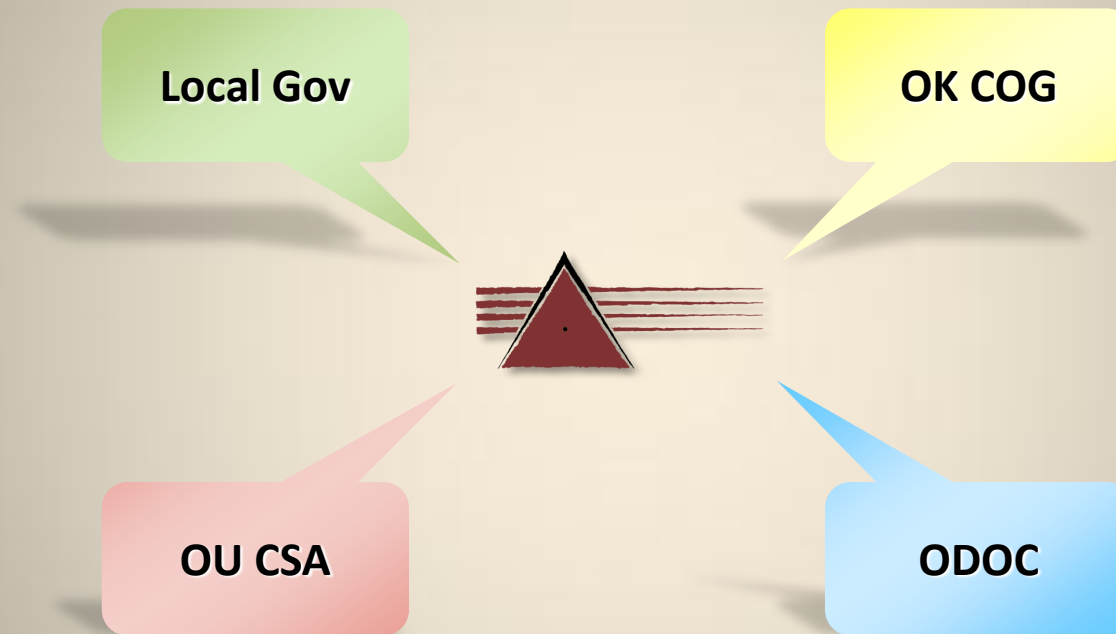


COG

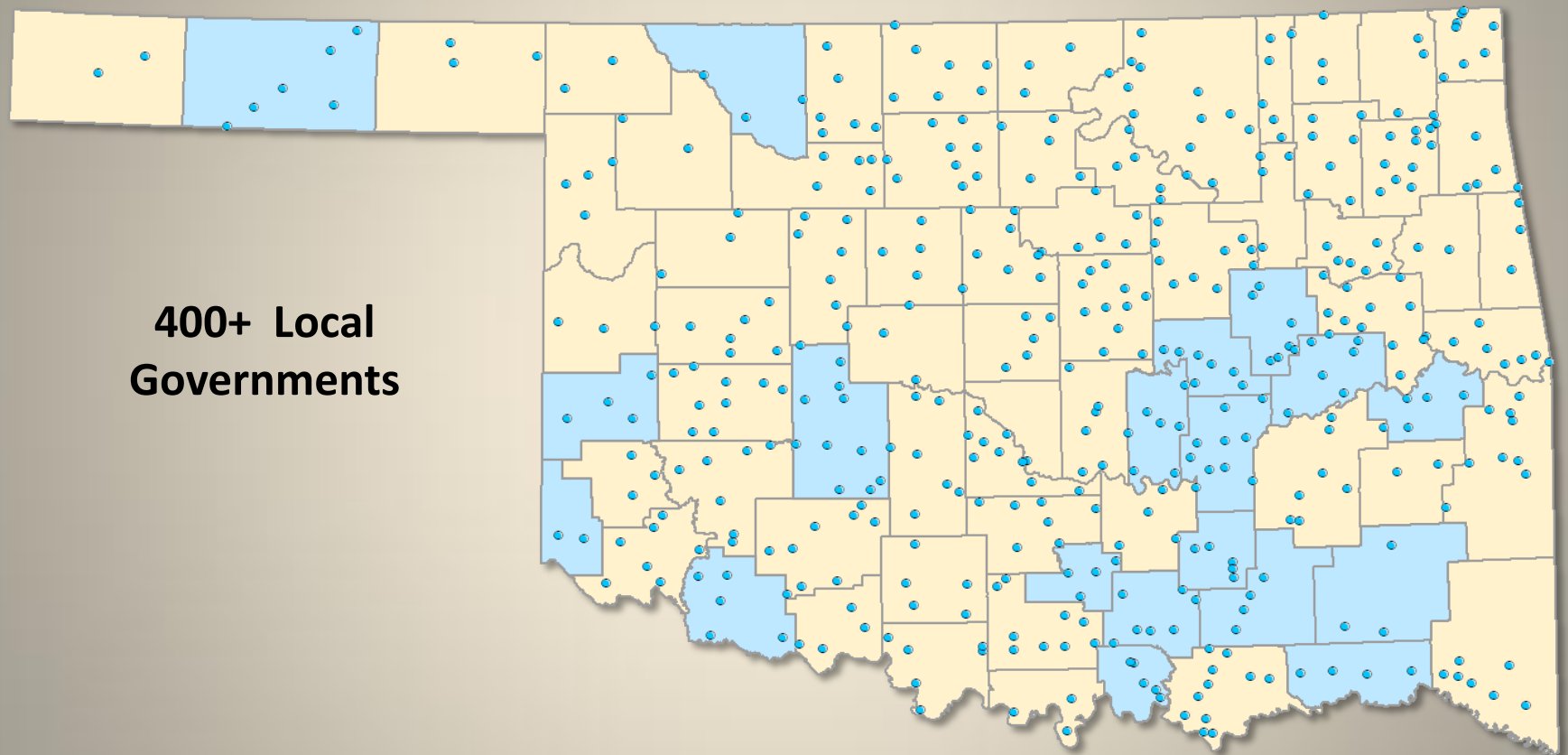


11 Regional Partners

Partners



Participants



**400+ Local
Governments**

(local governments that have participated in the GeoCIP program)

Typical Small Town Scenarios

- Existing information is old & outdated
- No information exists
- Few persons know about the town infrastructure
- Knowledge & information lost or forgotten
- Crisis management mode
- Do nothing

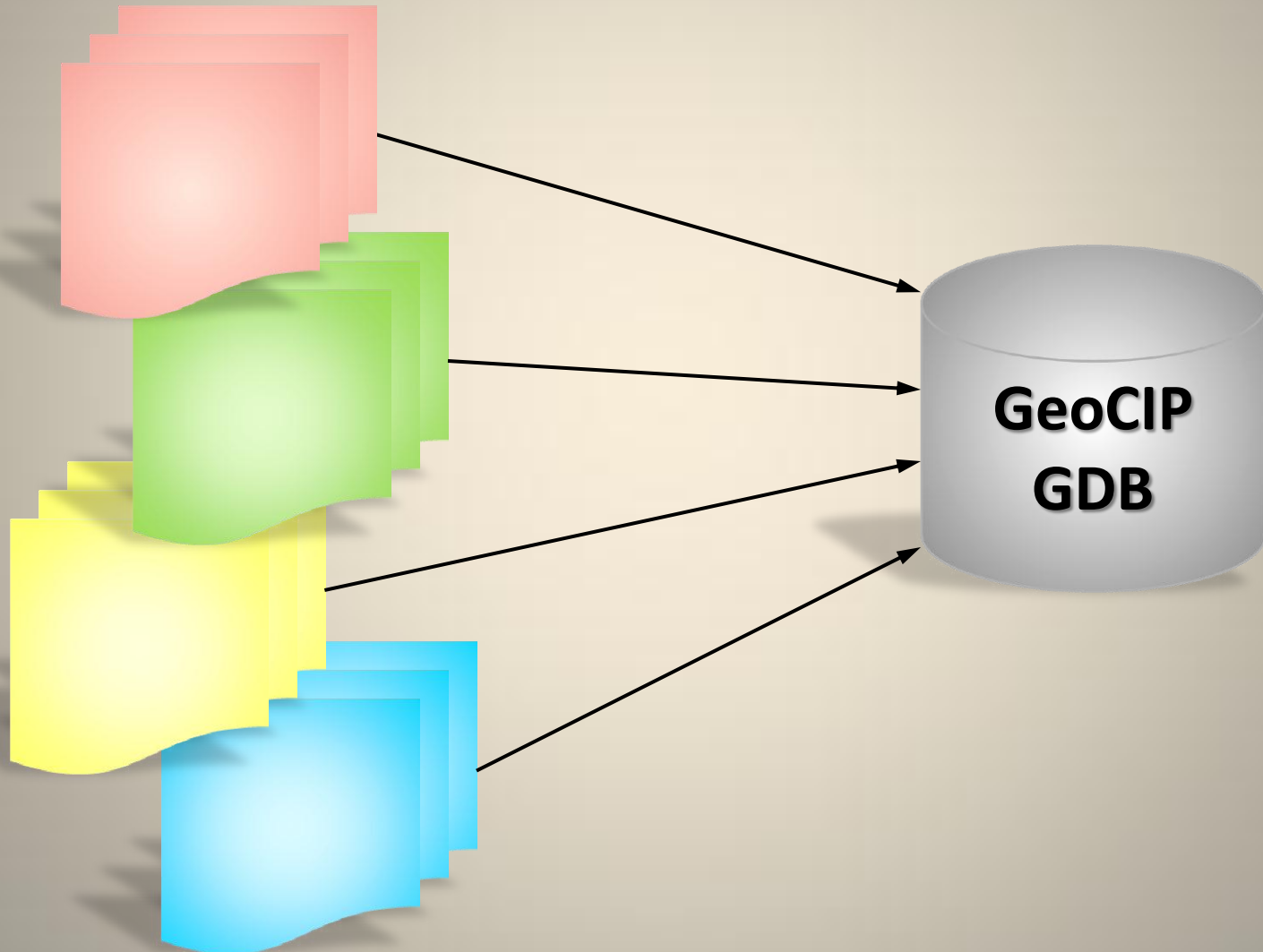
GeoCIP Asset Categories

- Electric System
- Gas System
- Parks
- Public Safety
- Solid Waste System
- Storm Drainage System
- Transportation
- Wastewater System
- Water System
- Structure
- Equipment
- Rolling Stock
- Space Use
- 13 Asset Categories
- 63 Features
- 1071 Attributes

Program Modernization

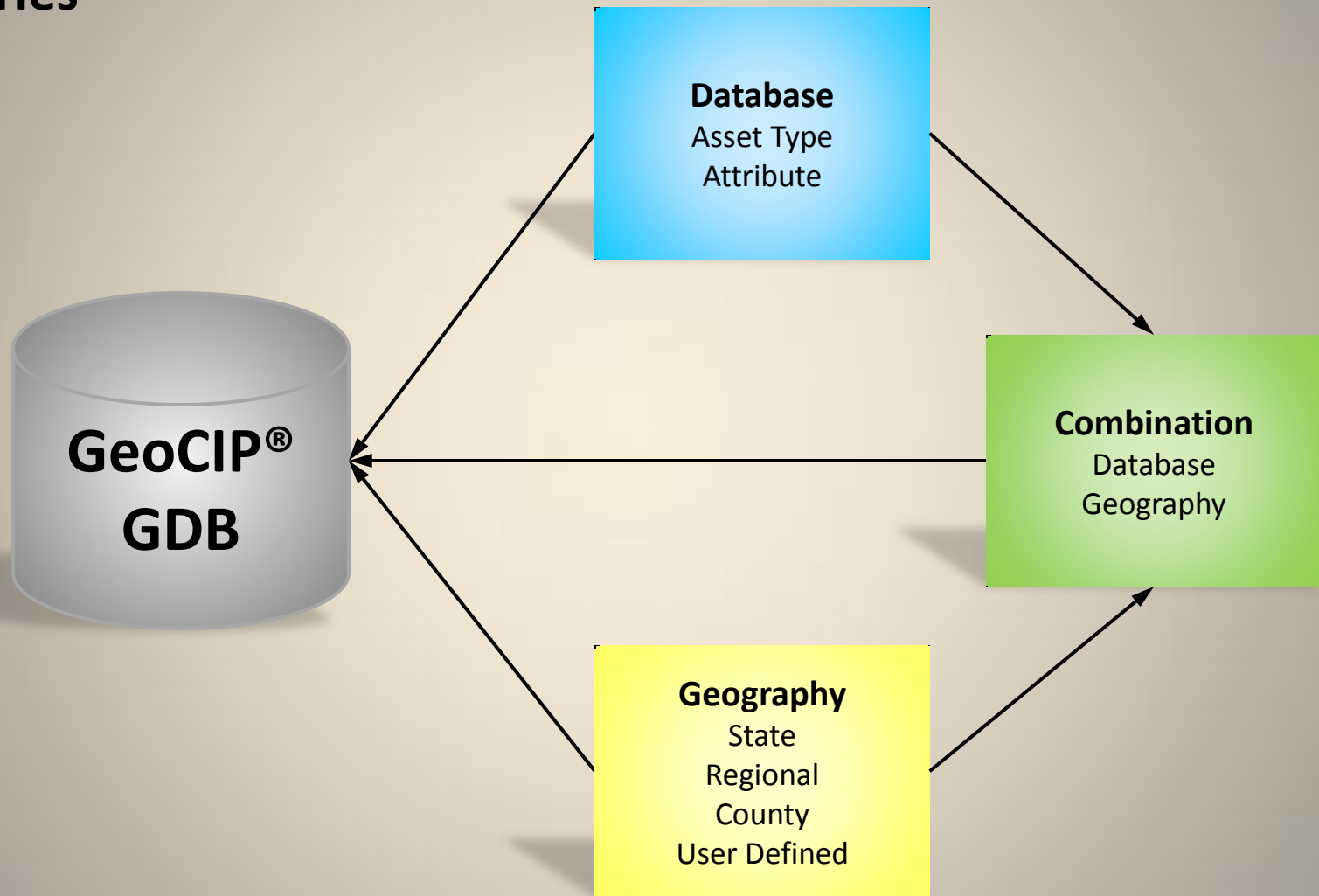
Unconnected Data

Relational Data



GeoDatabase

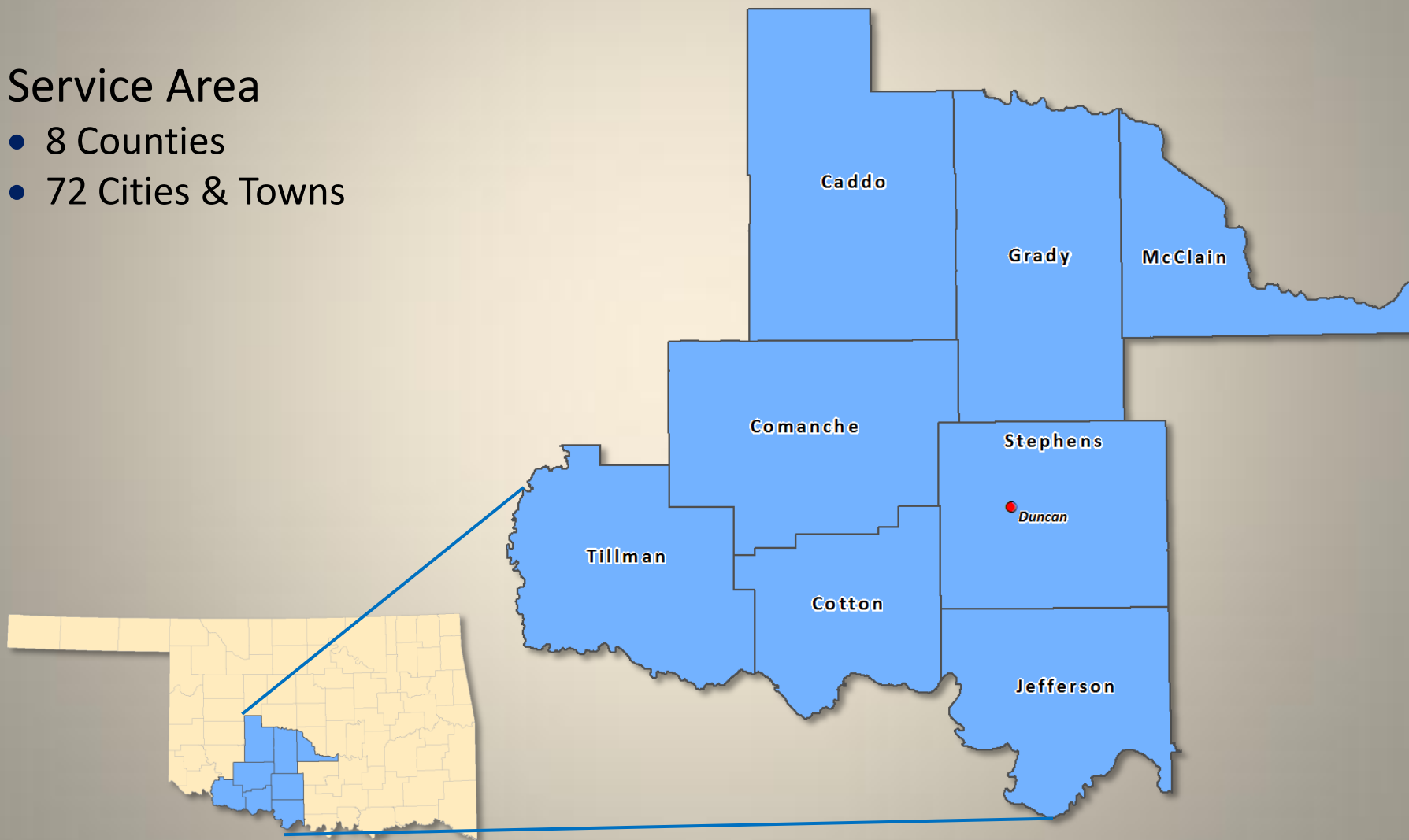
Queries



Association of South Central Oklahoma Governments

Service Area

- 8 Counties
- 72 Cities & Towns



- Population: 278
- Area: 0.33 sqmi (192 acres)
- Located: Tillman County
- Current CIP: 2012
- Completion: Late Summer 2013

Scenario:

- At start of project, mayor passed away
- Project put on hold until new mayor elected
- Re-explain to new mayor & town board what CIP is
- Proceed with project
- GeoCIP used for points on CDBG & REAP Applications
 - Goes toward getting projects funded

Waterlines:

- Started working with old paper maps & working with town “Water Guy”
- “Water Guy” ONLY person in town who has slightest idea locations & conditions
- Walked & GPS’d water valves & fire hydrants ascertain line locations
- Updated locations & conditions using paper maps & “Water Guy” knowledge

Town of Manitou

15 Assets Mapped & Inventoried

- Fire Station/City Hall
- Electric Lines
- Electric Appurtenances
- Wastewater Appurtenances
- Wastewater Lines
- Water Supply
- Water Lines
- Water Appurtenances
- Lagoon
- Parks
- Street Lights
- Street Name Signs
- Stop Signs
- Speed Limit Signs
- Street Segments
- City Limits
- Base layer is 2010 county aerial mosaic

MANITOU WATER LINES

W
S
E
N

FIRST
SECOND
THIRD
FOURTH
FIFTH
SIXTH

KIRKPATRICK
BELL
MATHER
BROADWAY
BARNES
DOWNING
DURBON
PALMER

STATE HIGHWAY 5 C
CR N2240

Legend

Water_Lines
SIZE

4
6

Street_Segments
TYPE

Gravel
Oil & Chip

Disclaimer -

Materials and data collected in this plan were verified to the best of our ability. The figures are for visualization purposes only, and are intended for planning purposes only. Any project should be approved by a certified engineer and/or surveyed by a licensed surveyor prior to beginning any work. This plan in no way implies permit to begin work. All Federal, State, County and Local ordinances must be followed at all times.

Date:


ASCOG


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Date: _____


Legend


Water_Lines
SIZE

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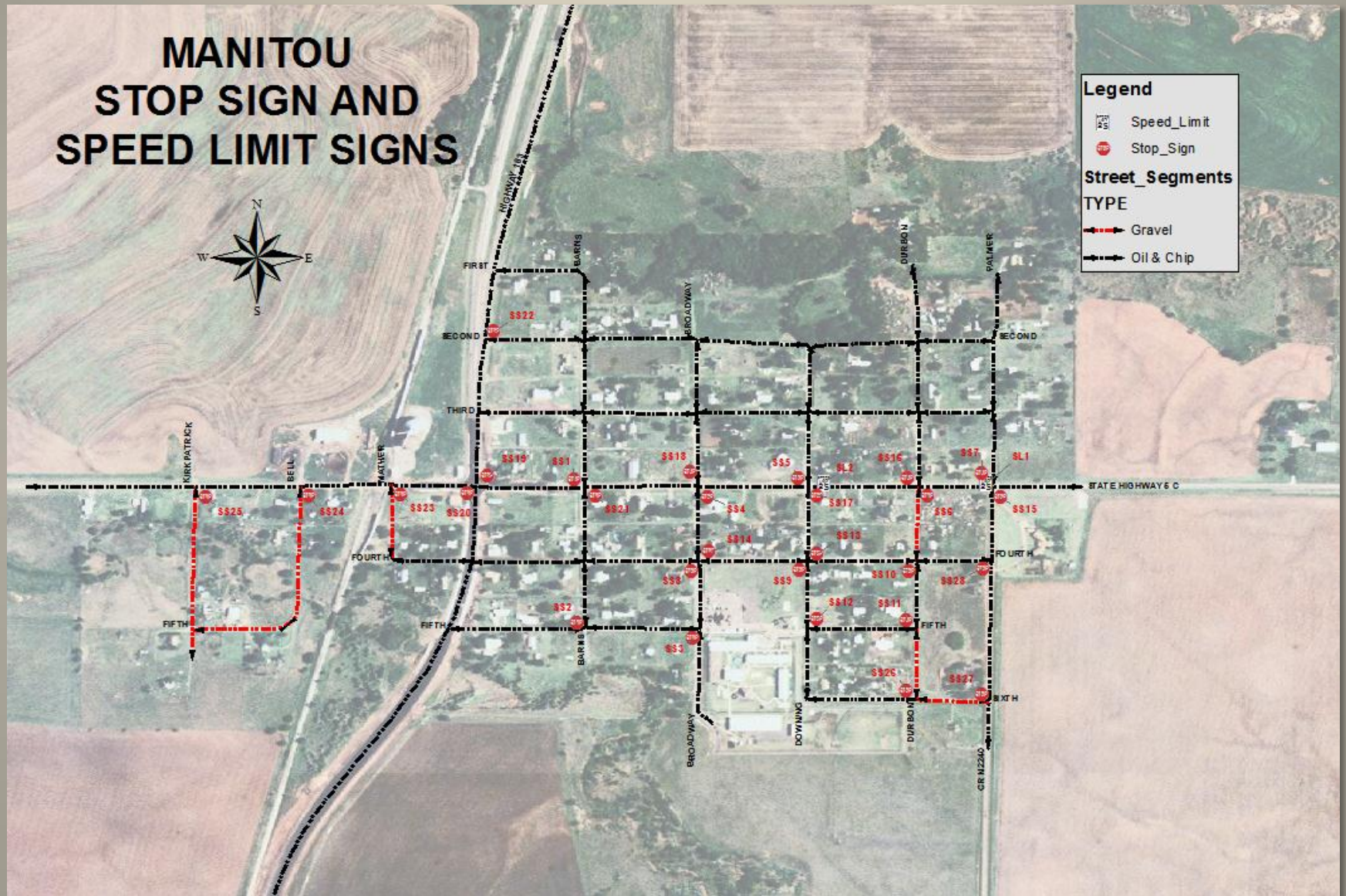
Street_Segments
TYPE

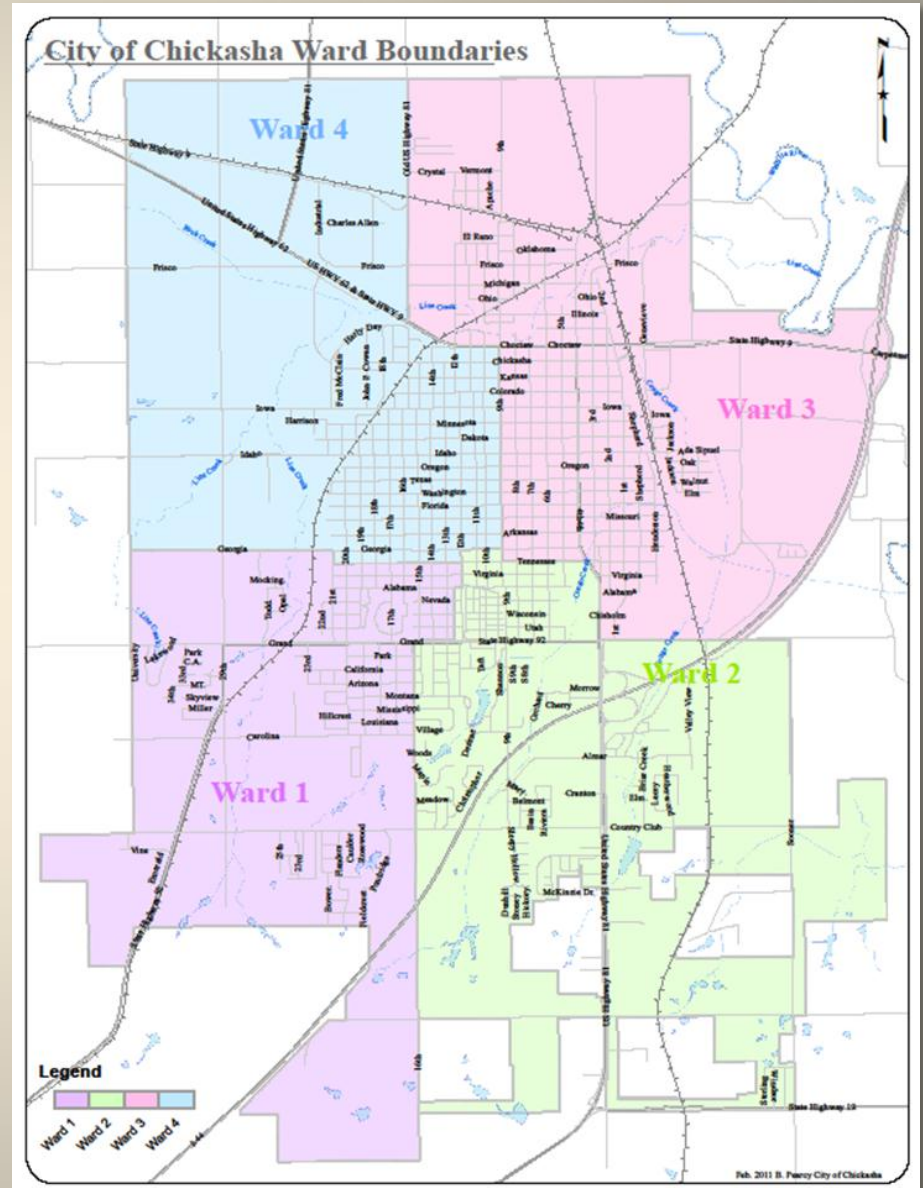
 Gravel

 Oil & Chip

ASCOG

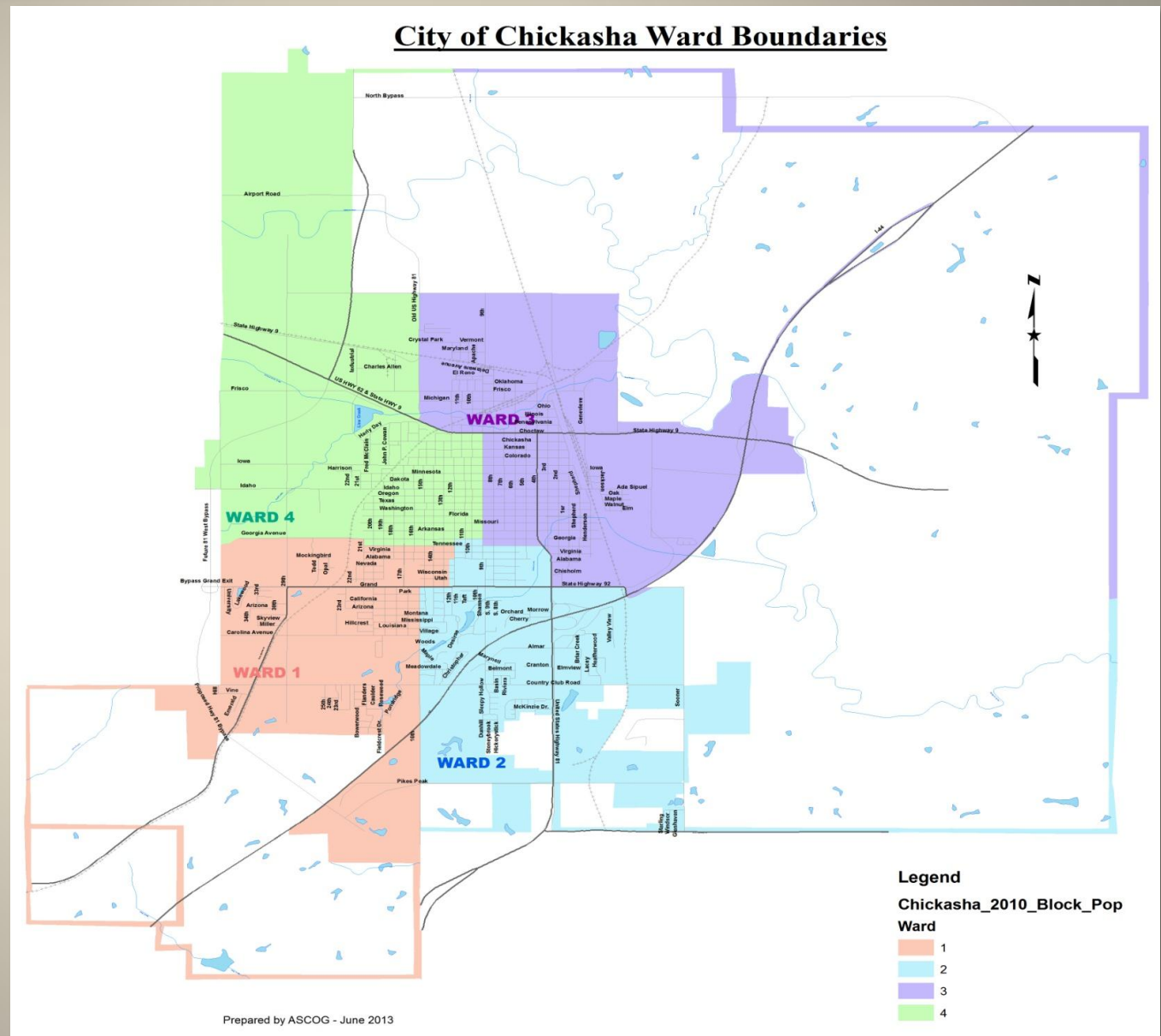
Town of Manitou





City of Chickasha

- Digitize new incorporated limits
- Assign additional areas to wards
- Calculate population for each ward
- Present results to City for evaluation
- Finalize & create new ward boundaries



COG GIS Applications

- Asset Inventory Control
- Capital Asset Management
- Cemetery Mapping
- Census Mapping
- Disaster Management
- E911
- Floodplain Management
- Grant & Project Tracking
- Hazard Area Identification
- Hazard Mitigation
- Housing
- Infrastructure Planning (CIP)
- Property Inventory
- Redistricting
- Residential Evaluation
- Commercial Evaluation
- Rezoning
- Urban/Incorporated Area Planning
- Rural/Unincorporated Area Planning
- Site Location/Business Location

Benefits

- **Partnerships**

- Share the Load
- Broaden the “Brain Pool”

- **Standardized Process**

- All Doing the Same
- Uniform Training

- **Integrated GIS Shop**

- GeoCIP Good Foundation
- Launch Other Programs
- Initiate Additional Projects

- **Intelligent Budgeting**

- Identify Needs
- Encourage Planning
- Target Documented Needs

Challenges

- **Regional Differences**

- Political
- Environmental
- Personnel

- **Limited Funding**

- More Competitive
- Plan Ahead

- **Evolving Technology**

- Justify Costs
- Improvement?

- **Training & Education**

- Who
- What
- When
- Where

Contact Info

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