

Enhancing GIS Accessibility for Local Governments in Southern California

CALGIS Conference

Javier Aguilar, PTP
Research & Analysis

April 16, 2013



Outline



- Southern California Association of Governments
 - Jurisdiction
 - Uniqueness
- SB 375 –Project Catalyst
 - Improve local and regional planning processes
 - Assist SCAG RTP/SCS local implementation process
- SCAG GIS Services (Local Assistance for member agencies)
 - Program Objectives
 - Program Implementation
 - Key Findings
 - What's Next
 - Lessons Learned



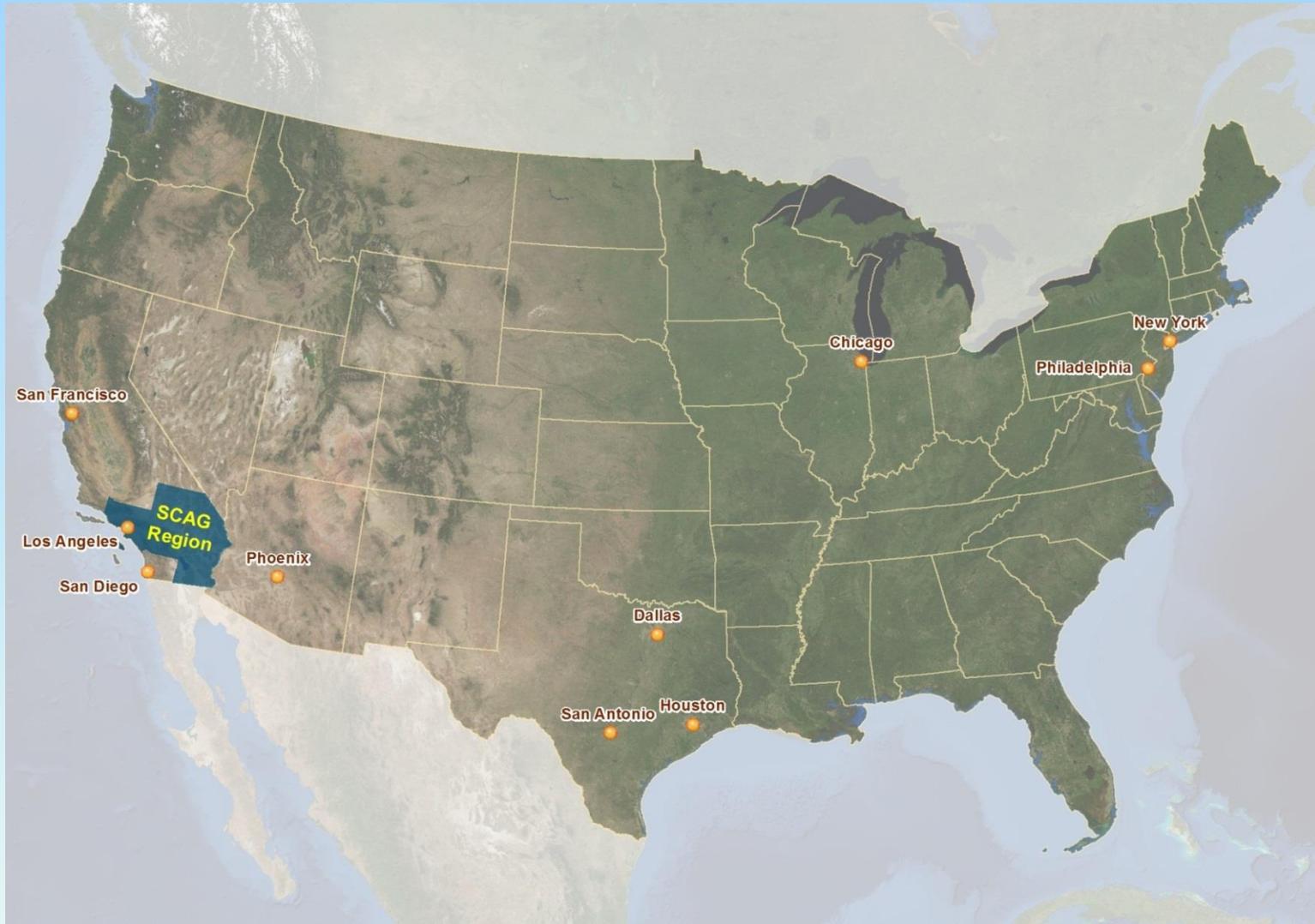
SCAG Region Facts



- Nation's largest Metropolitan Planning Organization (MPO) and Council of Governments (COG)
- Over 38,000 square miles
- 6 counties, 191 cities and over 18 million residents
- Governed by a Regional Council of 84 local elected officials
- 16th largest economy in the world
- 10,000 lane miles of freeway
- 4 major airports
- Nation's global gateway for trade



Southern California Association of Governments (SCAG)



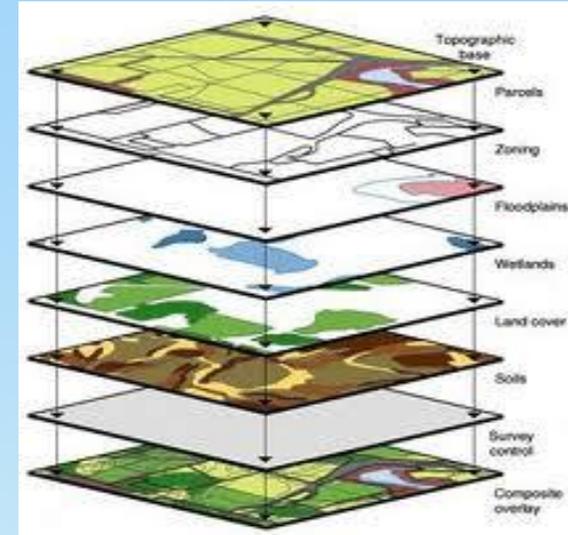
Southern California Association of Governments (SCAG)

- SB 375
 - Integrate transportation planning with land use
 - Provide the most updated and current land use info to local jurisdictions
- Local Input for the 2012 RTP/SCS development
 - Socioeconomic data and forecast info
 - Review and update GIS data on existing land use , general plan, & zoning



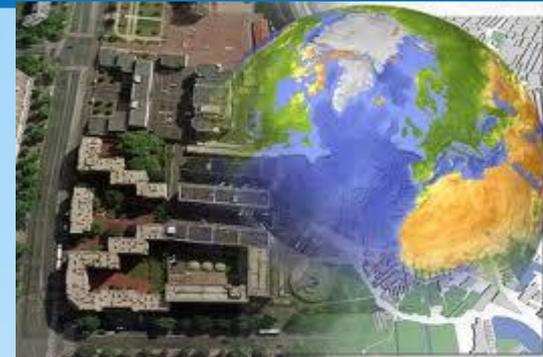
Challenge

Lack of GIS capability to share information in standardized form



Solution for the Challenges

- Building GIS capability at local level, to promote communication & collaboration with GIS



Application for SCAG Members GIS Services Program



Please email this form to wangp@scag.ca.gov or fax to (213) 236-1962.

City Information

City Name:

Address:

Contact Person: Department: Title:

Phone: Fax: Email:

GIS Information

Does city have GIS software? Yes No
If yes, please check: ArcView 3.x ArcMap 9.x ArcInfo MapInfo
 Others (please specify):

Does city have GIS data? Yes No
If yes, please check: Existing Land Use Data General Plan Land Use Data Zoning Data
 Building Permit Park/Open Space Flood Zone

Program Objectives



- Collect Land Use information
- Improve local and regional planning processes
- Assist SCAG RTP/SCS local implementation process
- Use GIS technology to promote
 - Data sharing
 - Data updating
 - Data standardization



Program Implementation



- The program began in February 2010
- Free to SCAG member agencies
- 83 local jurisdictions are participating as of April 2013
- Incorporating and additional 18 participants

How GIS Services are Provided

- Identify and assess what GIS needs at kick-off meeting
- Tailor Scope of Work to jurisdictions
- Provide customized GIS training
- Provide quarterly on-site support as needed

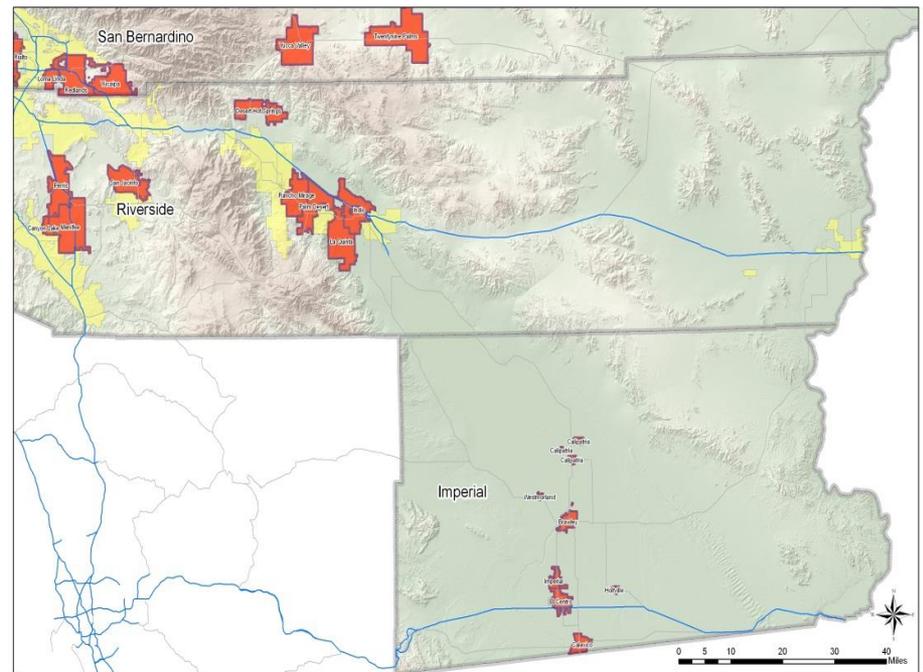
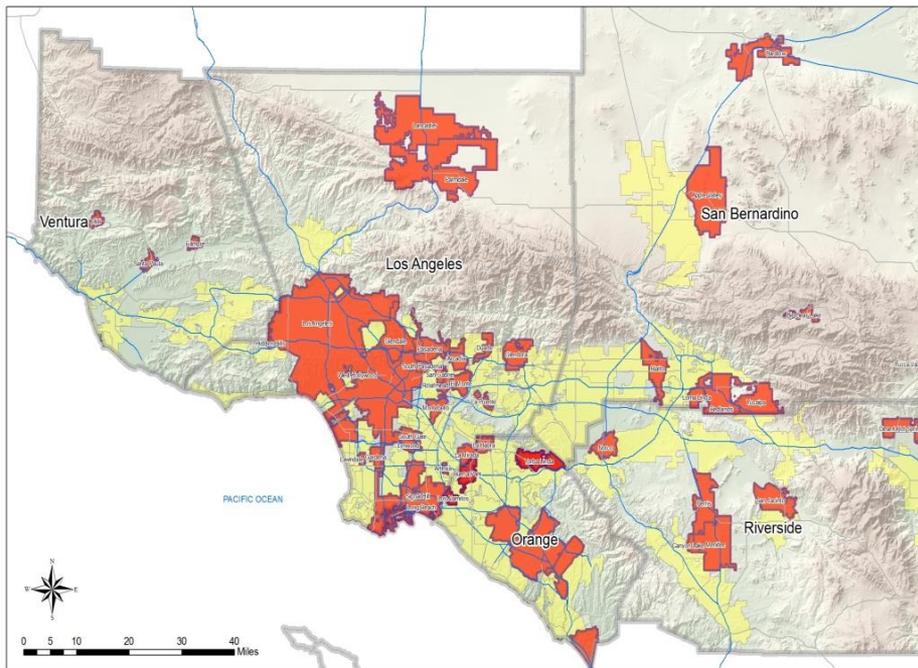
Program Implementation



- Build on working with jurisdictions closely
- One-on-one meeting with each participant (at their location)
- Provide meeting summaries
- Accomplish through customized work plans
- Continuous communication and site visits as needed

Program Implementation

- The program began in January, 2010
- 83 local jurisdictions participating (as of April, 2013)



Where are the Participating Jurisdictions?

County	Participating Jurisdictions	Total Jurisdictions	Participation % By County	Total %
Imperial	8	8	100%	10%
Los Angeles	37	89	42%	45%
Orange	10	35	29%	12%
Riverside	12	29	41%	14%
San Bernardino	12	25	48%	14%
Ventura	4	11	36%	5%
Total	83	197	42%	100%

Adding 18 new jurisdictions: Los Angeles (6), Orange Co. (8), Riverside Co. (1), and San Bernardino Co. (1), and Ventura Co. (2). This is a growth of over 20%.

GIS Services Provided

- Provide entry level GIS training to over 200 participants at different local facilities.
- Provide intermediate and advanced GIS, TransCAD trainings
- Provide desktop viewers and simple web-based GIS applications
- Convert local data and integrate them into GIS applications
- Provide GIS support as needed (onsite & offsite)
- Assist jurisdictions with purchase of GIS software and hardware

What GIS Services are Provided

Service Types	By Jurisdiction	By Service
GIS Training (101)	100%	47%
Data/Map Support (42)	44%	20%
Desktop/Web Application (24)	25%	11%
On-site visits (23)	24%	11%
GIS Rollout (21)	22%	10%
TOTAL (214)		100%

GIS Services Training

- Set up Options
 - Palm Desert, Fontana, Ventura,...
 - SCAG's Mobile GIS (7 laptops)
 - Small cities: Holtville, Brawley, Needles...
 - Individual City set-up (Indio, Arcadia, & Lancaster)
- GIS Training Content
 - GIS Levels (Intro., Intermed., Adv.)
 - Special Topics (such as GPS)
- Target Audience
 - Interns to Directors (other decision-makers)

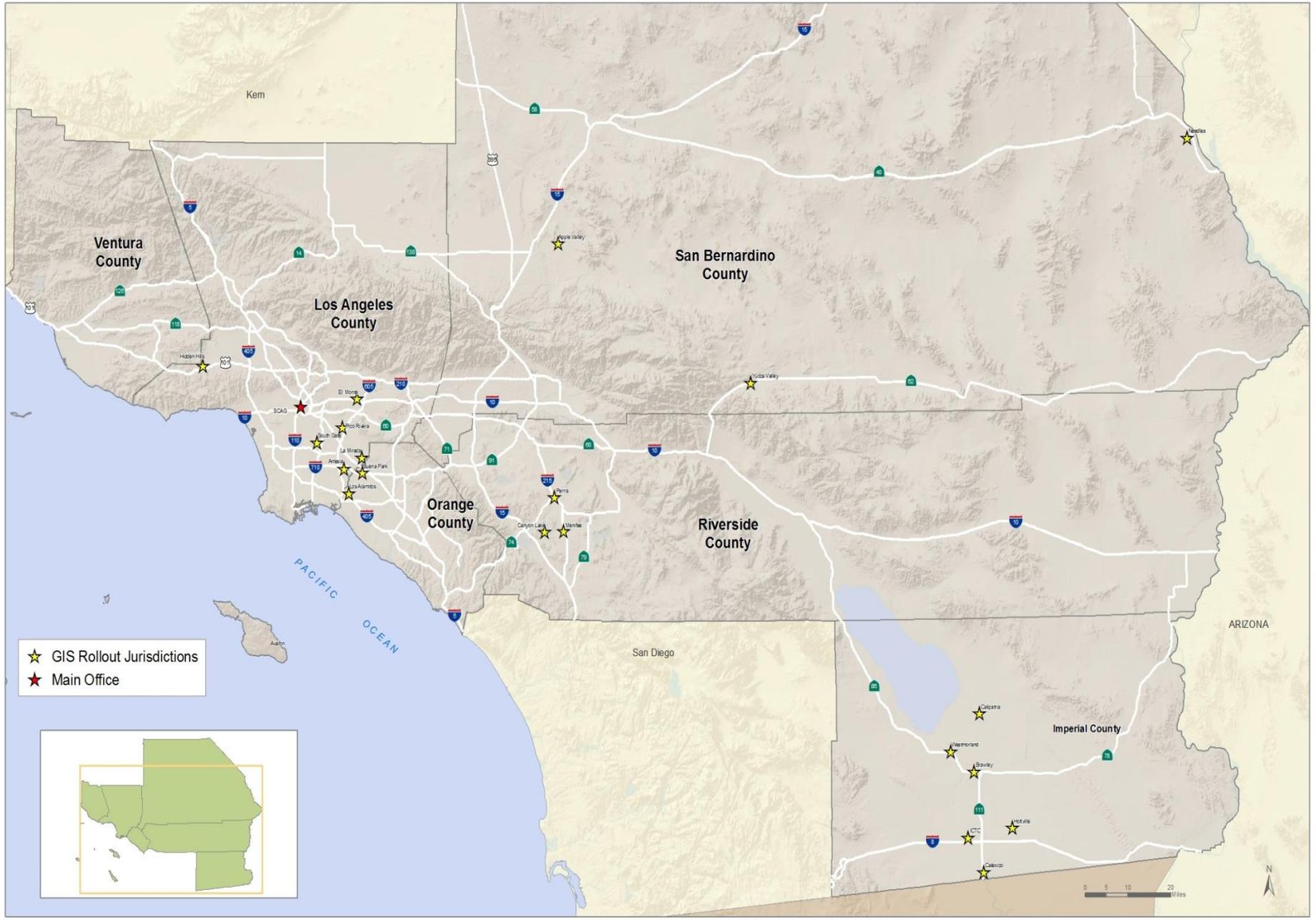


Data Collaboration

- SCAG data
 - Land Use (General Plan and Existing land use)
 - Socioeconomic data (Census, forecast, etc...)
 - Other (Compass Blueprint, Local data)
- City Data
 - Building Permits
 - Demolition
 - Other (employment, aerial imagery)
- Other Entities
- Data Updates/Maintenance



SCAG GIS Rollout Jurisdictions

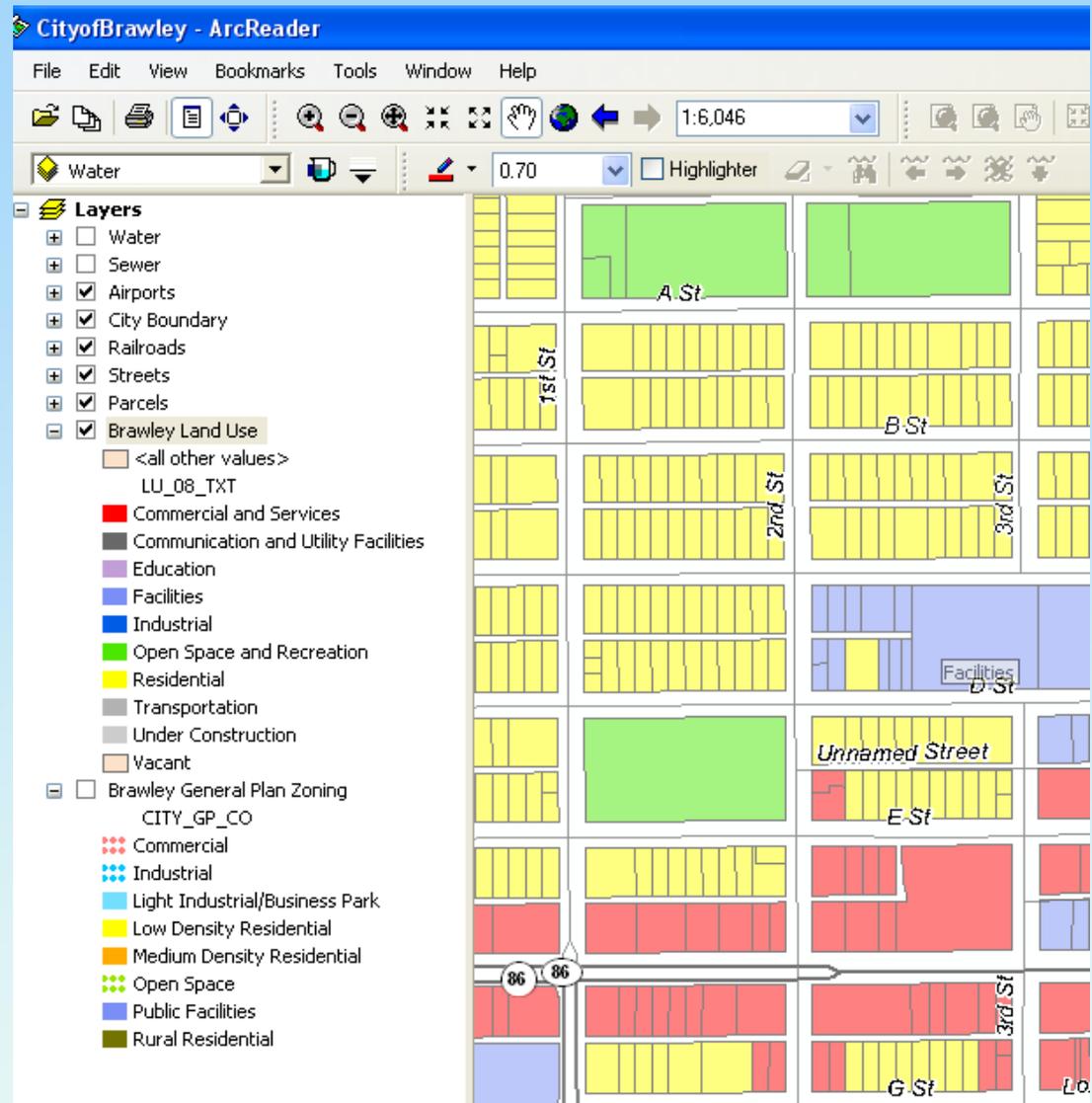


Participant Goals

- Improve daily planning activities
- Provide visualized tools for better decision-making
- Maintain and update city data/information more effectively
- Reduce city expenses
- Provide new services

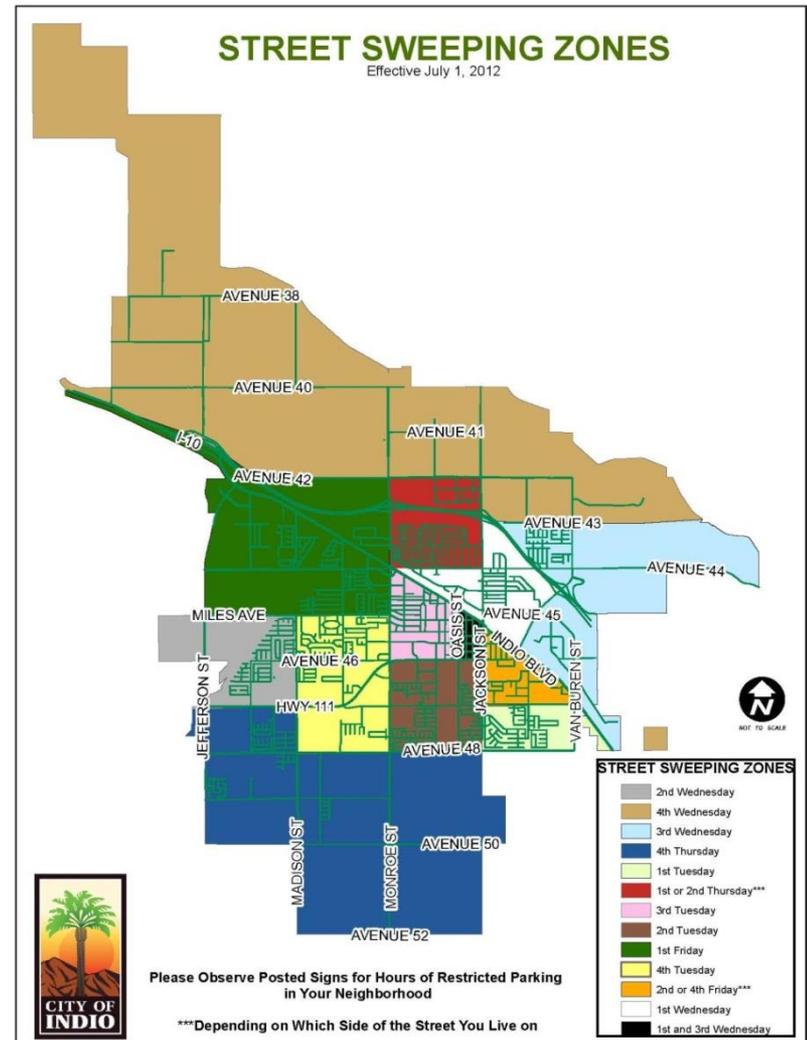
City of Brawley

- A free, easy-to-use desktop mapping application
- High-quality interactive maps in Arc Reader
- Allows users to view, explore, and print maps.
- City provided data to query and visualized water and sewer resources
- SCAG replaced application with a geodatabase and ArcGIS license for greater capabilities



City of Indio

- City faced large layoffs and limited resources
- SCAG helped Indio develop a street sweeping schedule
- Saved city money



Key Findings

- Very successful beginning
- SCAG acts as a facilitator
- Educational GIS workshop with cities experience
- Collaboration:
 - Internal SCAG
 - Internal City
 - Between SCAG and City
- SCAG fills-in the gap

What's Next

- Provide more GIS training and follow-up visits
- Invite remaining cities and counties to participate
- Implement a GeoData Portal site for data sharing
- Provide transportation modeling training (TransCAD)
- Release a quarterly program newsletter

Lessons Learned & Challenges

- Improve communication channels
 - SCAG vs. Cities
 - City in different departments
- Balance SCAG resources with GIS Services committments



For more information
please contact:

Javier Aguilar
Senior Regional Planner
SCAG GIS Services Project Manager

aguilar@scag.ca.gov
213-236-1845

<http://www.scag.ca.gov/mappingGIS.htm>

