

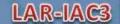
Welcome to the LAR-IAC 3 Status Meeting

February 9, 2012



Central Division Pallo Station &

A.



Agenda

- What is LARIAC?
- LAR-IAC3 Status Updates
 - Administrative Update
 - Schedule/Status Update
 - Ortho Status
 - Delivery Status
 - Delivery Planning
- POL Update
- County Mapping Services Access
- LAR-IAC 4
- Discussion / Other Items / Closing LA County

What is LAR-IAC?

 Los Angeles Regional Imagery Acquisition Consortium (LAR-IAC)

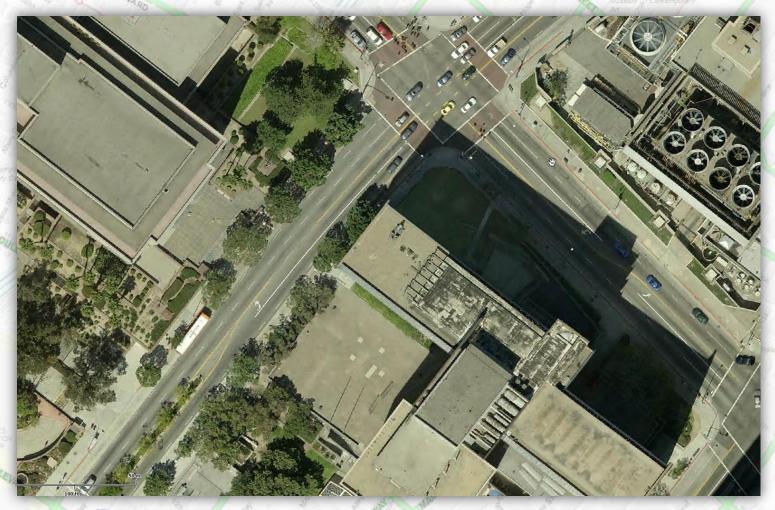
"LAR-IAC is multi-jurisdictional purchasing arrangement that enables participating local governments and agencies to benefit from combined economies of scale to efficiently and cost-effectively acquire high definition aerial data."

 Established in 2003 by LA County DRP and CIO.



Orthogonal Imagery

Also known as "Satellite View"





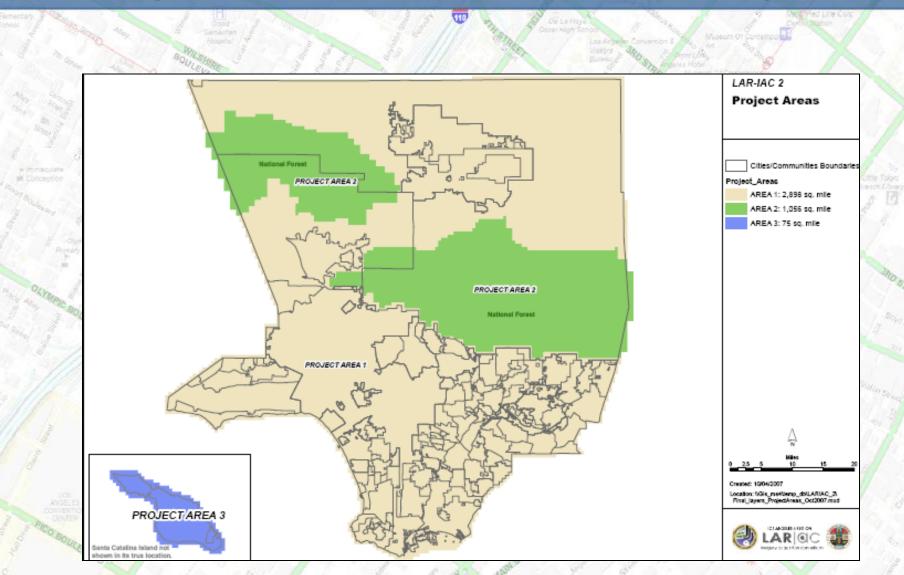
Oblique Imagery

Also known as "birds eye"





Project Areas - Ortho Imagery









Current Participants

Cities						
Agoura Hills	Hermosa Beach	Monterey Park				
Bellflower*	City of Industry	Rancho Palos Verdes				
Beverly Hills	City of Inglewood	Redondo Beach				
Burbank	La Canada Flintridge	Rosemead				
Carson	La Habra Heights	San Dimas				
Claremont	Lakewood	Santa Clarita				
Commerce*	Los Angeles	Santa Fe Springs				
Culver City	Lynwood	Santa Monica				
Downey	Malibu	South Gate				
El Segundo	Manhattan Beach	Torrance				
Glendale	Pasadena	Whittier				
Glendora	Montebello					

Green = Paid, Red = Not Paid, Black = prospective,*=New Member



Current Participants

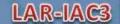
County Departments						
Agricultural Comm./Weights and Measures	Mental Health Department					
Assessor	Parks & Recreation					
Beaches and Harbors	Probation					
CEO OEM	Public Health Administration					
Chief Information Office	Public Library					
Children and Family Services	Public Social Services					
Community and Senior Services	Public Works					
Community Development Commission	Regional Planning Department					
Health Services	Registrar-Recorder/County Clerk					
Internal Services Department	Sheriff					
Other Agencies						
LA County Sanitation Districts	University of Southern California					
Santa Catalina Island Conservancy	LARGIN					

US Geological Survey

Santa Clarita Water

Cantral Basin Water

Los Angeles Air Force Base Central Basin Water



What we need from you now

- Participant Agreement!
- Funding please fund your initial payment.
- Updated contact information
- Email to mgreninger@cio.lacounty.gov



Optional Items

- Participants can leverage the optional items portion of our contracts to get additional work done.
 - Building outlines
 - 3D Buildings
 - Planimetric features
 - Etc.

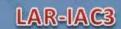


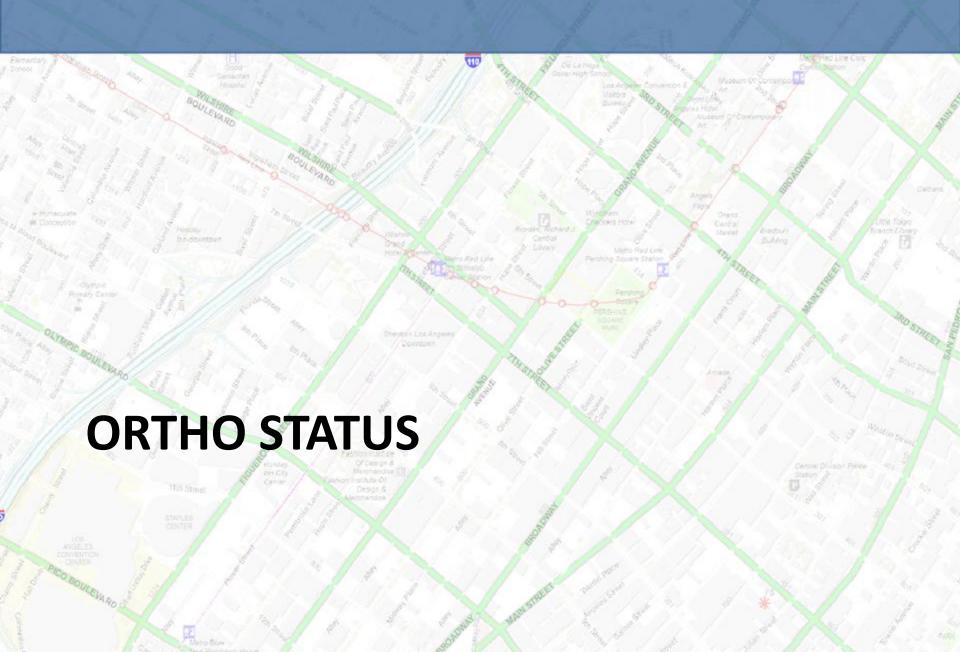




Simplified Schedule

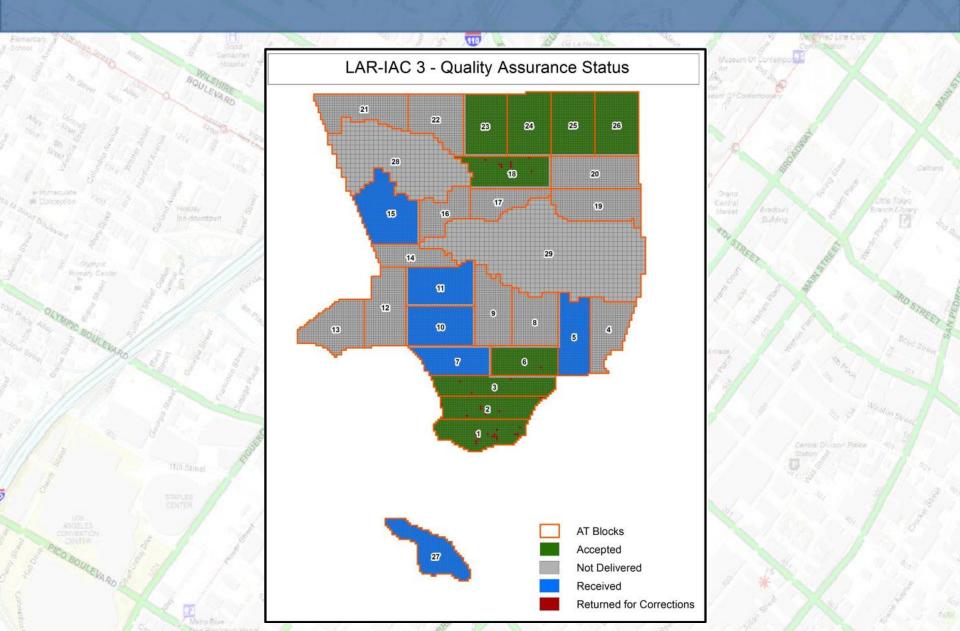
- September TAG finalizes specifications
- December set up bridge funding (CIO and CEO)
- December complete contracts (all firms)
- December start flying
- March 2011 flying completed...start processing
- May August Processing and QC underway
- August Delivery of Oblique Imagery
- January 2012 delivery underway







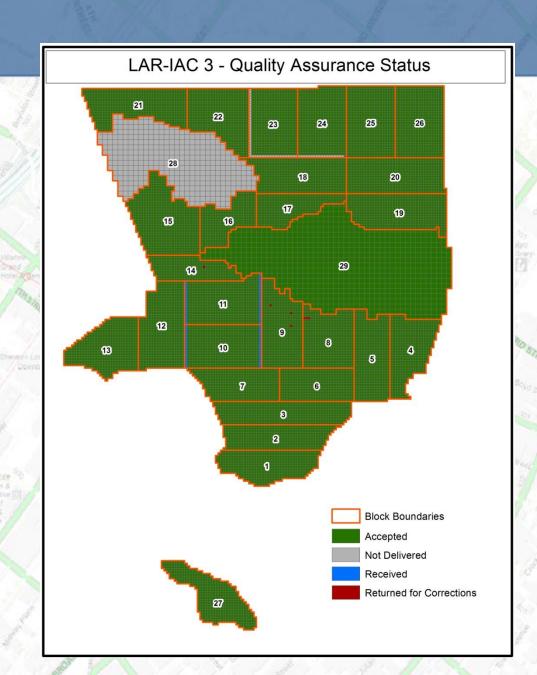
Status - November





LAR-IAC 3 Quality Assurance Status Current

- •Currently 97% complete with the QA process
- •Anticipated completion date for all remaining edge tiles is 2/10
- Anticipated completion date for block28 is 2/24
- •Final Horizontal Accuracy Assessment report is currently being produced and will be delivered on 2/27





Status - Current

- QAQC complete by end of this week (February 9th)
- Block 28 will be complete in 2 weeks.





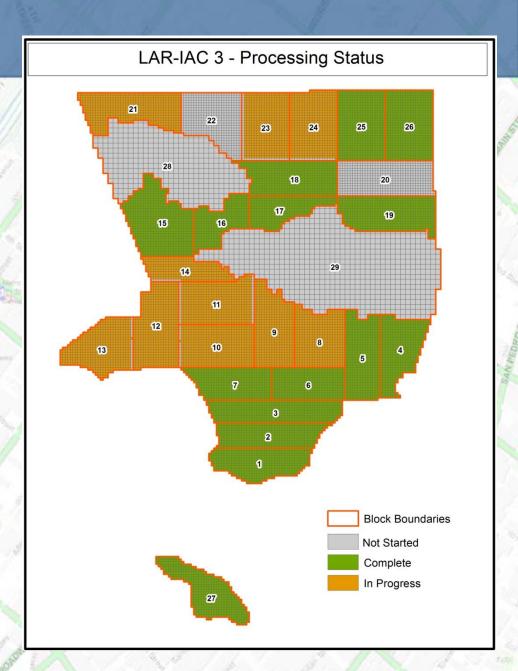


LAR-IAC 3 Processing Status

Current Status of:

- •4 Inch JPEG2000 Compression (20:1)
- 1 Foot Resampling
- •1 Foot Resampled JPEG2000 Compression (20:1)

All processes are run in a single batch with the current "In Progress" files expected having an expected completion date of 2/13. All remaining tiles are expected to be processed and complete by 2/17 with the exception of block 28 that has just started the initial QC processes.

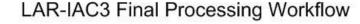


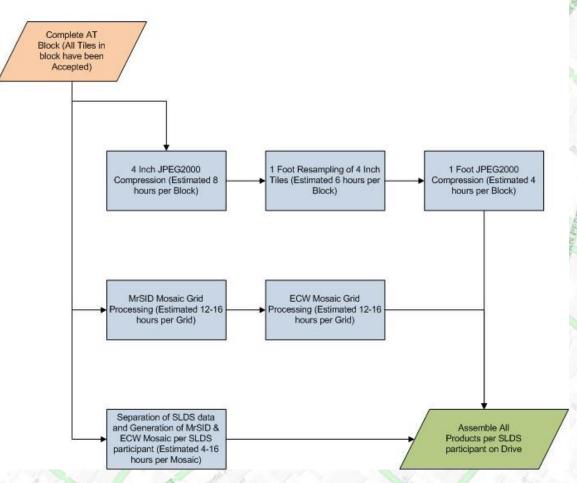


LAR-IAC 3 Processing

Workflow

- •Upon final Acceptance of a block the final processing takes place to compress, resample, and mosaic the final products.
- •During the initial phase of processing each block will take about 2 weeks to process depending on the final size of the SLDS participant.
- •After the JPEG2000 compression and resampling of the 4" tiles the remaining processing takes about 1 week for each SLDS participant with multiple participant running in parallel.
- •The current schedule for production has between 3 and 5 participant deliverables per week
- •A final schedule is provided in the following slides outlining the dates specific processing steps will be complete as well as delivery dates for SLDS participants







Delivery Strategy

- Deliver raw 4" and 1 foot geoTIFFs ASAP
- Provide follow-on delivery of all other formats
 - JPEG2000
 - MrSID
 - ECW
 - Resampled data



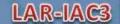
LAR-IAC 3 Delivery Schedule

	SLDS Product Status			
Delivery Area	Current Ortho Status	Partial Delivery of 4" Tiles Only	Anticipated Full Delivery Dat	
City of Agoura Hills	Shipped		Shipped	
City of Carson	Shipped		Shipped	
City of Hermosa Beach	Shipped		Shipped	
City of Lakewood	Shipped		Shipped	
City of Manhattan Beach	Shipped		Shipped	
City of Torrance	Shipped		Shipped	
City of Industry	In Process	N/A	Monday, February 13, 2012	
Santa Catalina Island Conservancy	In Process	N/A	Tuesday, February 14, 2012	
City of Claremont	In Queue	2/17/2012	Monday, February 27, 2012	
City of El Segundo	In Queue	2/17/2012	Monday, February 27, 2012	
City of Bellflower	In Queue	2/17/2012	Monday, February 27, 2012	
City of Beverly Hills	In Queue	2/17/2012	Monday, February 27, 2012	
City of Commerce	In Queue	2/17/2012	Monday, March 05, 2012	
City of Inglewood	In Queue	2/17/2012	Monday, March 05, 2012	
City of La Canada Flintridge	In Queue	2/12/2012	Monday, March 05, 2012	
City of San Dimas	In Queue	2/17/2012	Monday, March 05, 2012	
City of Culver City	In Queue	2/17/2012	Monday, March 05, 2012	
City of Downey	In Queue	2/17/2012	Monday, March 12, 2012	
City of Burbank	In Queue	2/17/2012	Monday, March 12, 2012	
City of Glendale	In Queue	2/20/2012	Monday, March 12, 2012	
Santa Fe Springs	In Queue	2/20/2012	Monday, March 12, 2012	
City of Santa Monica	In Queue	2/20/2012	Monday, March 19, 2012	
City of Whittier	In Queue	2/20/2012	Monday, March 19, 2012	
City of Pasadena	In Queue	2/20/2012	Monday, March 19, 2012	
City of Santa Clarita	In Queue	2/20/2012	Monday, March 19, 2012	
LA County	Full County	N/A	By March 30, 2012	
LA County Sanitation Districts	Full County	N/A	By March 30, 2012	
LARGIN (LA Region Gang Information Network)	Full County	N/A	By March 30, 2012	
University of Southern California	Full County	N/A	By March 30, 2012	
USGS	Full County - 1' GSD Only	N/A	By March 30, 2012	
Los Angeles Air Force Base	Not a Participant Yet		Undefined	
Port of Long Beach	Not a Participant Yet		Undefined	



Summary

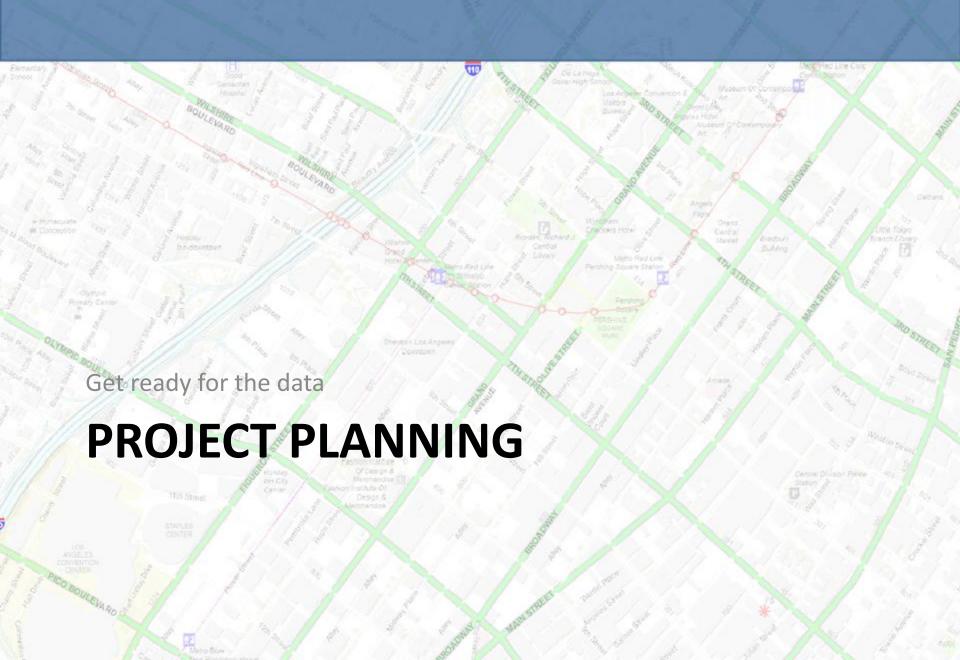
- All initial data will ship by February 20th.
- You will receive your data in 2 weeks.
- Another delivery will happen end of March will all other formats.

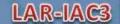


County Status

- Received Blocks 1-3, 5-7, 23-26
- Phases
 - Load geoTIFF data into Enterprise Repository
 - Pyramid
 - Update Map caches
 - LACounty_Aerial_2011
 - LACounty_Basemap





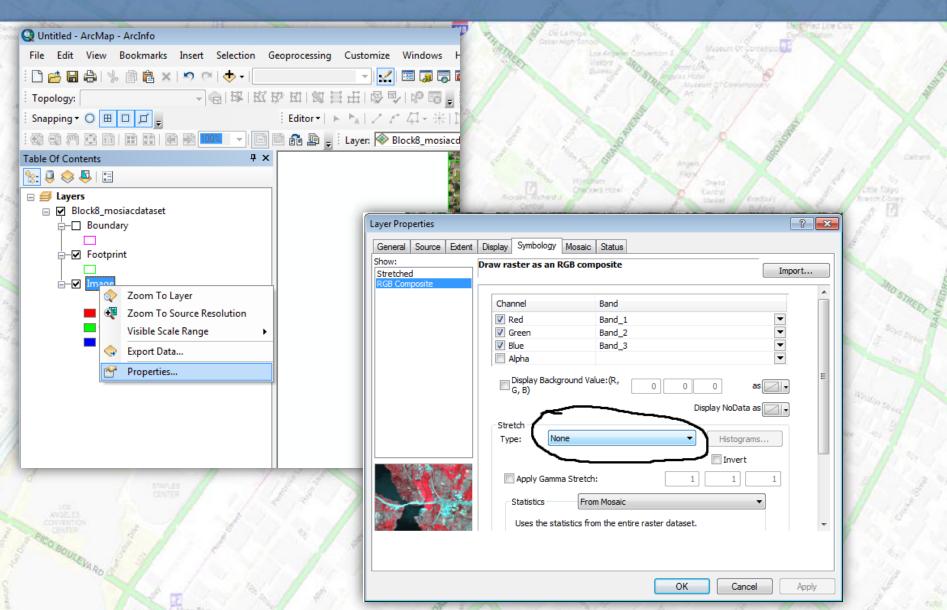


Get Ready

- Raw data is 540 Mb per square mile (geotiff)
- Delivered on a 1 Tb hard disk
- Delivery formats
 - GeoTIFF
 - JPEG2000
 - Preferred compressed format (SDE 9.2 export format, Raster Catalog)
 - Image Mosaic determined to be uneffective
 - ECW, MrSID tiles



Using the raster geodatabase





Discussion

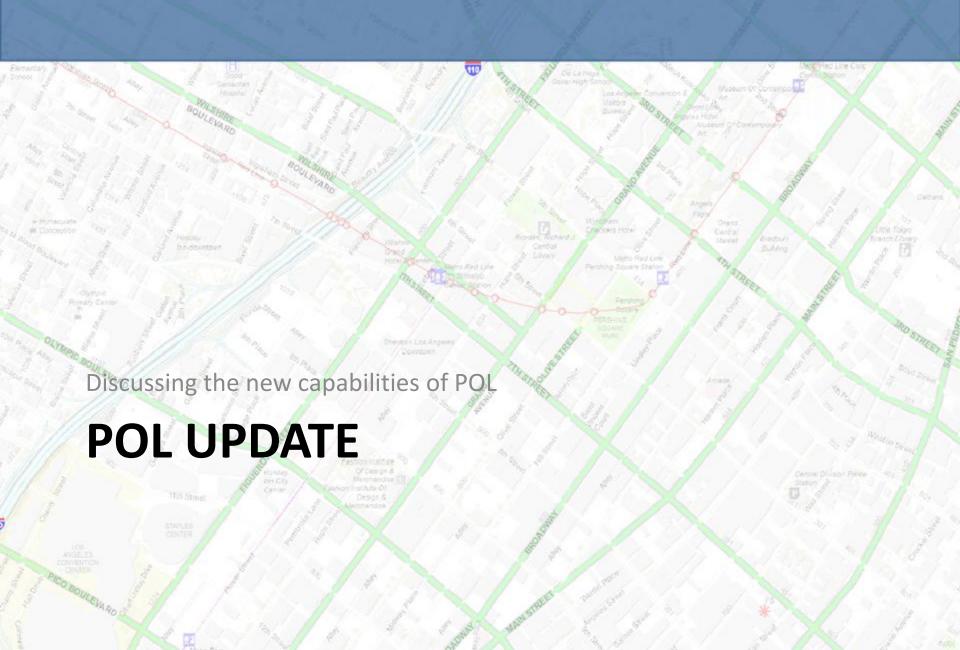
- LA County's experience
 - Raster Dataset has been very successful for SDE
 - Users see a single image
 - JPEG 60 compression doesn't degrate image but provides 10x compression
 - LA County can provide loading scripts
 - Image Mosaic not a feasible delivery
 - ECW, MrSID for public safety
 - There could be a WGS84 delivery
 - JPEG2000 for CAD/Engineering
- How have you been most successful?

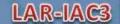


County Status

- Blocks 1-3, 5-7 are loaded
- Pyramids caused database overload
 - DBAs are resolving
- Should be available next week
- Map Cache update will begin
 - Aerial_2011 first
 - Basemap next
- All other blocks will be loaded when they arrive.
 - Expect end of February/early March for completion.
- Discuss with me if you need raw data.







GIS Layers

- LA County master organization:
 - LARIAC generic account: <u>lariac@lariac.gov</u>
 - Standard GIS Layers for all participants
 - Parcels UPDATED to reflect December 2011
 - Streets (removed) use existing tool
 - Building Outlines
 - CityBoundaries
 - Address Points
 - Points of Interest
 - Zipcodes
 - General Plan (removed)



Participant Account

- Each participant gets two types of accounts
 - Generic Account for each participant (single login for multiple users)
 - Named Account for individual users (save sessions)
- Managed by the participant administrator
 - Can add more GIS Layers to their account(s)
- How?



Adding your own data

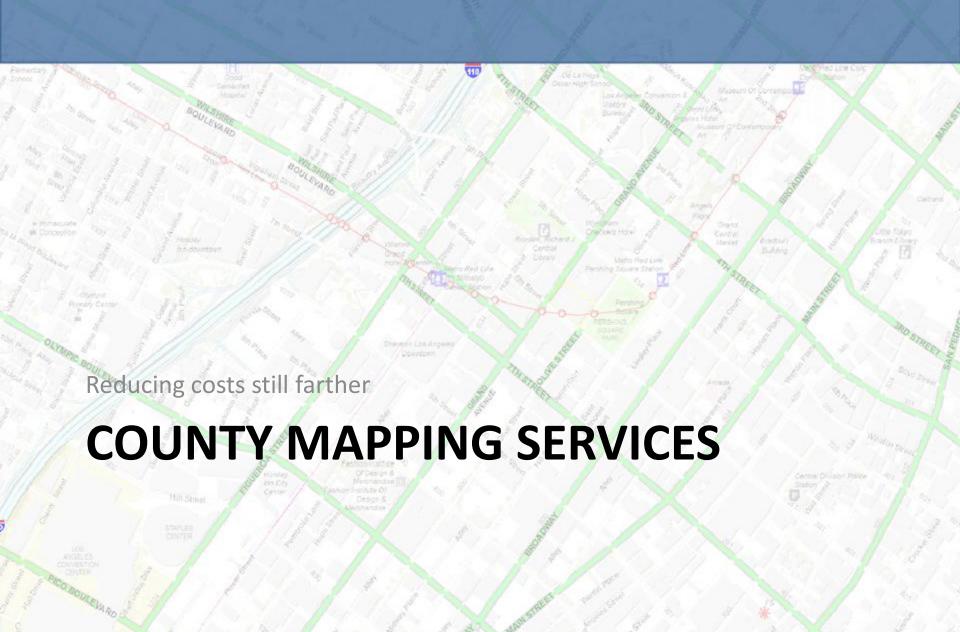
- Organize your data
 - Create a folder with your data, and establish standard names for your shapefiles and layers.
 - Create an ArcGIS 10 map document with the symbols you want.
- GIS Uploader Tool
 - Move local GIS data to Pictometry
 - GIS Data rendered at Pictometry not on the client for speed.
- MXD to SLD converter
 - Take the same data that you uploaded and use ArcGIS to style (simple styles).
 - Upload the output sld file to Pictometry

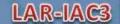


Status

- Process is still in beta (we are the launch customer)
- LA County is testing with the Master Account
 - Found some issues and working to resolve
- Pictometry will schedule training
 - Proposed dates: March 8th and March 22nd
- Email David Peck (<u>david.peck@pictometry.com</u>)







Status

- County maintains an Enterprise GIS database and loads LARIAC data.
- County develops and maintains mapping services for ingestion/inclusion into mapping applications.
 - ArcMap
 - GIS Web Applications
 - GIS Mobile Applications
- Does this already



County and Participants

- LAR-IAC 3 participants can access these services.
 - No loading/managing
 - Faster time to delivery
 - No need to ensure uptime
 - Reduce costs (reduce/eliminate ArcGIS Server costs)
 - Passing the buck to LA County for problems (☺)
- We will provide a username/password
- Unlimited access



Provided map services

- Street Map
- Base Map
- Map Canvas
- Aerial (2008)
- Aerial (2011)
- Terrain
- Parcels

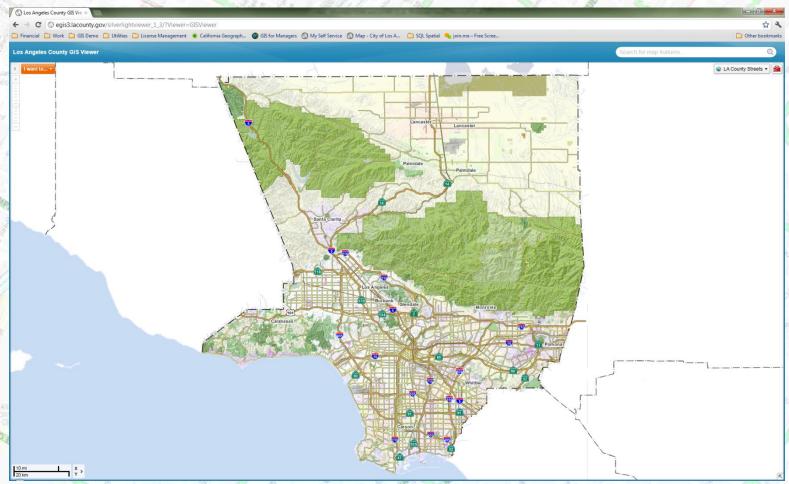
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LA County Street Map

Purpose

This provides a rich cartographic map showing streets and the full LA County GIS database.

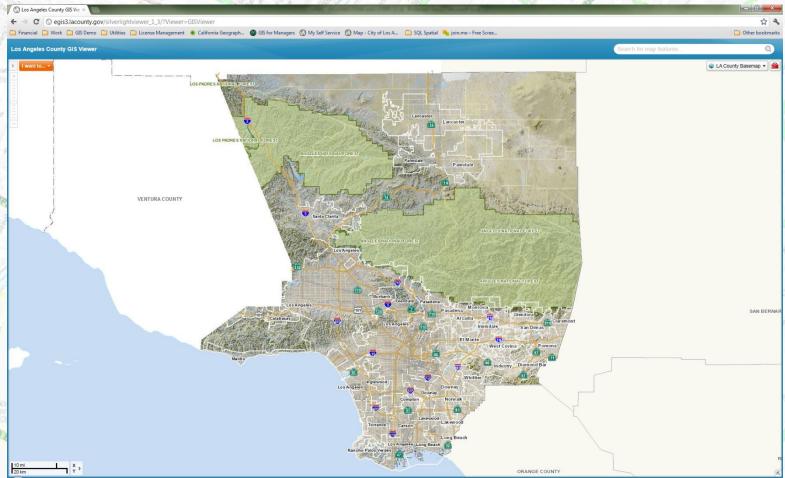




LA County Basemap

Purpose

This provides a rich cartographic map that switches to aerial photography at large scales (for developers who can only use one map).

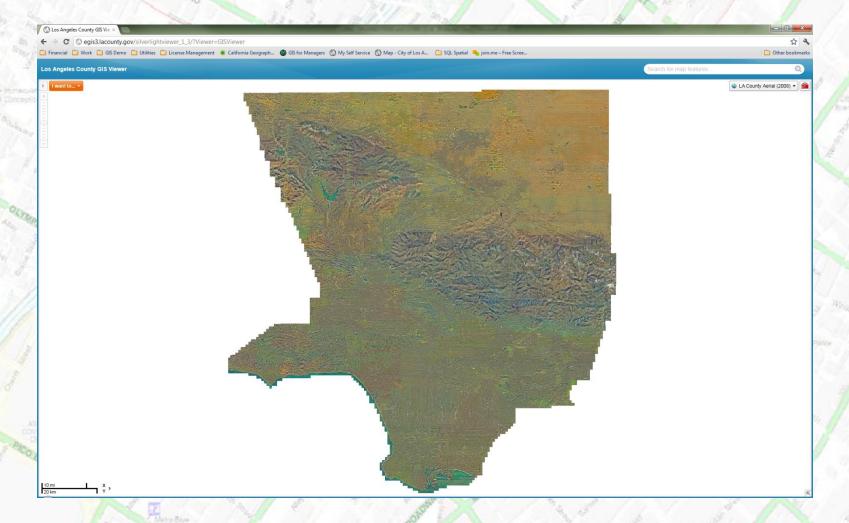




LA County Aerial (2008)

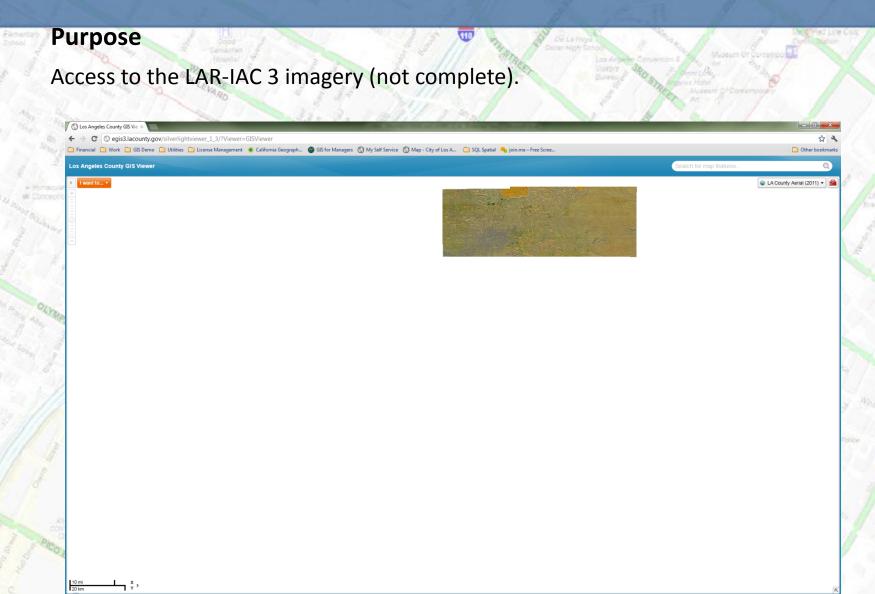
Purpose

This provides access to the LAR-IAC 2 imagery data.





LA County Aerial (2011)

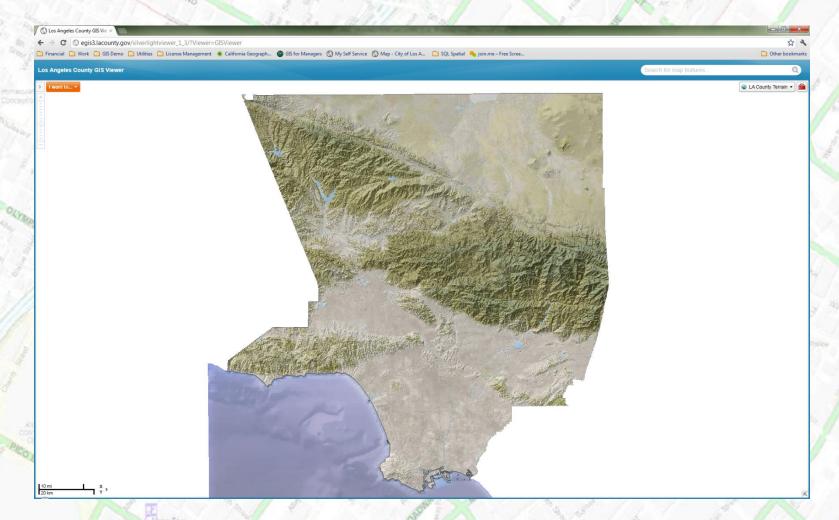




LA County Terrain

Purpose

This provides access to the LAR-IAC 1 elevation data.

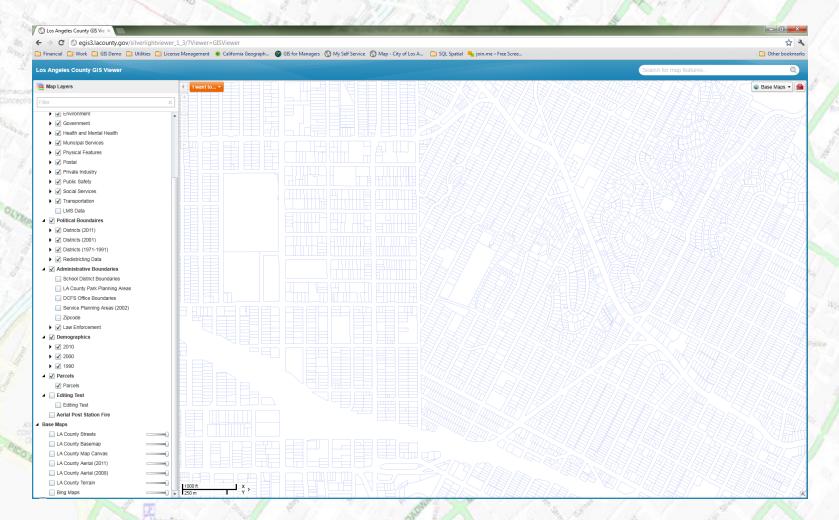




LA County Parcels

Purpose

This provides the current parcel map for overlay on other basemaps and searching.

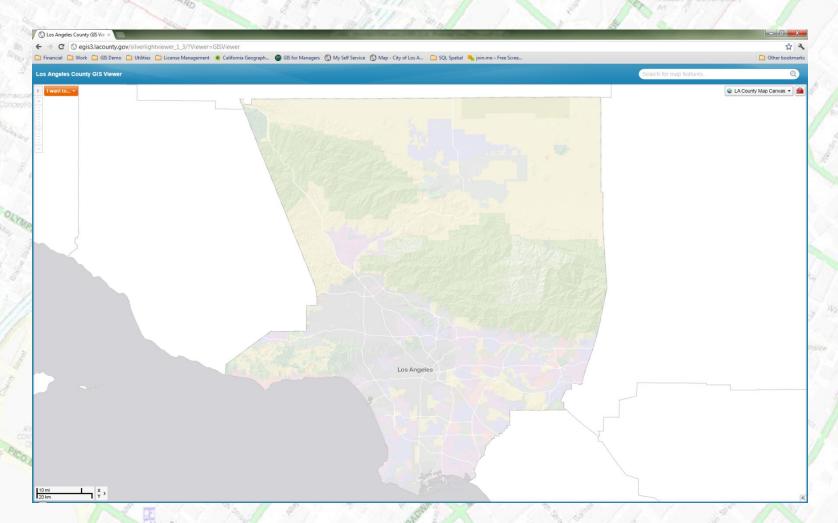




LA County Map Canvas (new)

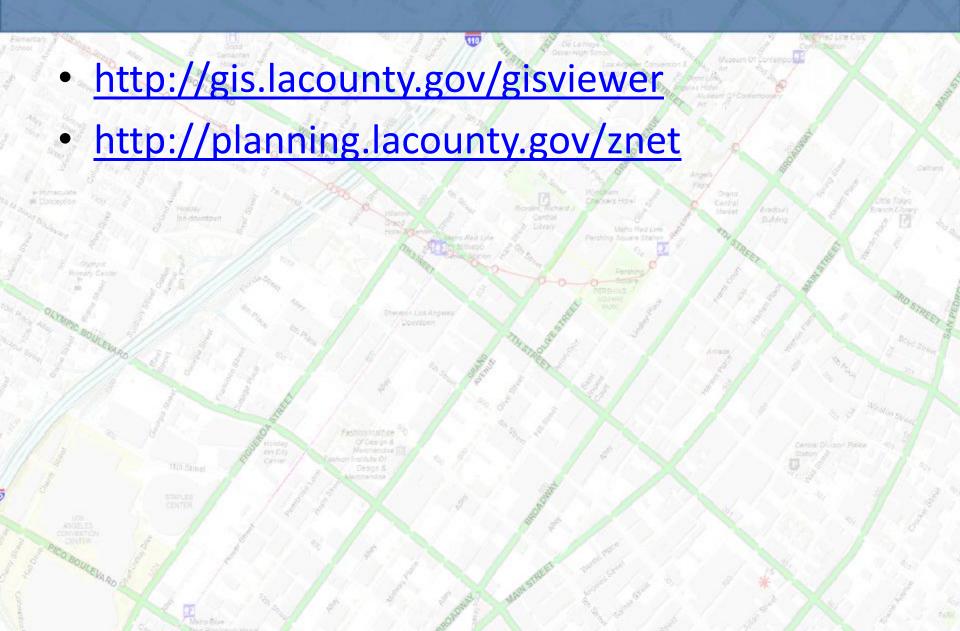
Purpose

This provides a subdued map background to highlight layers shown on the top.





Demonstration





Status

- We have released in beta mode to some participants
- It will be included as part of LAR-IAC
- We have implemented the ArcGIS Server security model
 - We will provide usernames and passwords to access for LAR-IAC participants.

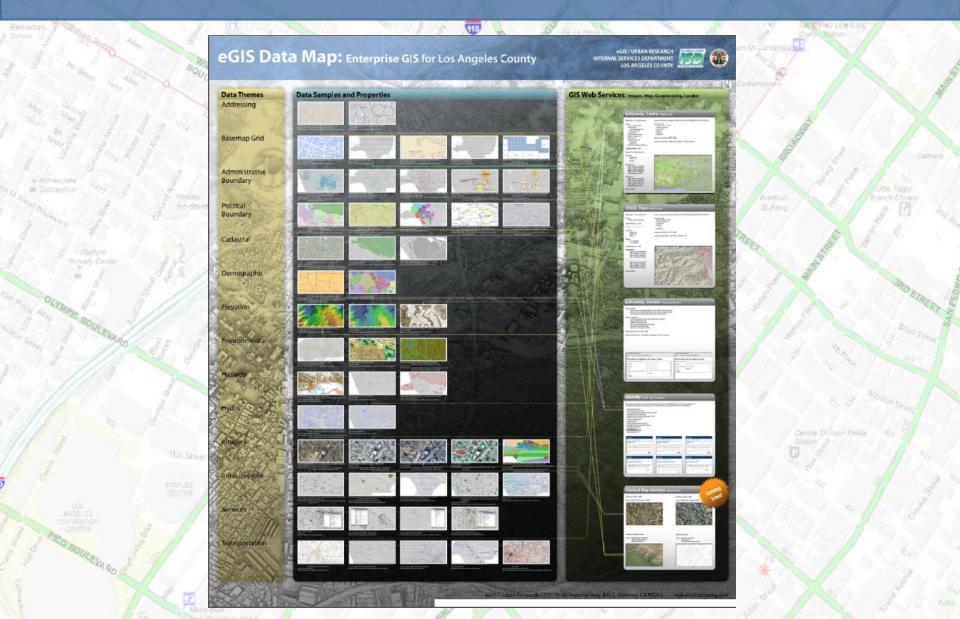


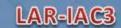
In the future

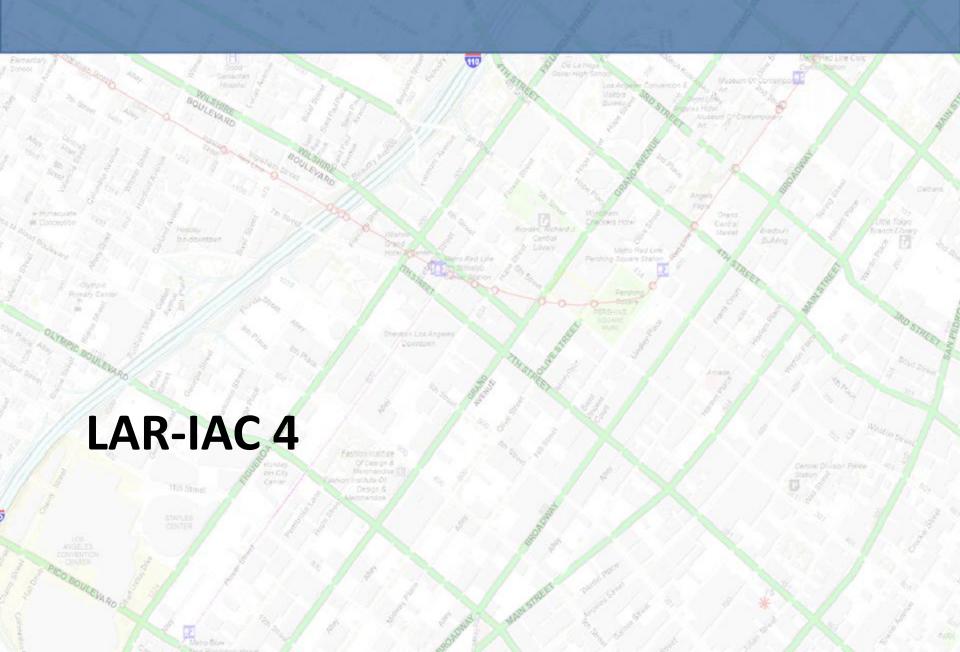
- We are determining other value to participants
 - Develop GIS Viewers for participants without the capacity to ingest LAR-IAC data.
- Extend beyond just LAR-IAC data
 - Parcel data
 - Points of interest (Locations)
 - Areas of interest
 - Anything from the data portal as a service



LA County Data Map









Questions

- Timeframe?
 - 2 or 3 year cycle (acquire in January 2013 or 2014)
- Data
 - Re-acquire LIDAR?
 - Re-acquire Color Infrared?
 - Update buildings?
- Contracts
 - New RFP or continue existing method
- Other changes
 - Faster delivery



Next Steps

- Create survey to get responses
 - Any other suggestions
- Bring Technical Advisory Group together
 - Mid-March meeting
 - Get technical demonstrations from some vendors.



Los Angeles Region – Imagery Acquisition Consortium (LAR-IAC3)

Questions/Comments?

(time permitting)



Prepared by: Los Angeles County



LAR-IAC Project Web Site

http://planning.lacounty.gov/lariac

LAR-IAC

Los Angeles Region Imagery Acquisition Consortium

Primary Navigation

LAR-IAC2 (Re-flv)

Background Information

Briefing / Meeting Schedule

Contact Information

Downloads

Licensing Related

Participants Related

Sample Imagery & Data

Pictometry Training Related

LAR-IAC

Archive

Other Links

LA County

Regional Planning (LA County)

SoCal GIS Forum

Vendors



January 17, 2008







SAVE THE DATE!!

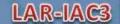
We will be kicking off the LAR-IAC2 project on Thursday, January 17, 2008 (time: 10 am - 12 noon, location: Health Services Headquarters). At this meeting, we will also briefly discuss the final status of the first project (including final reconciliation of costs and discussion of sub-licensing). Click here for more details.

LAR-IAC2 Update...More to Come

We are working hard to continue the momentum of the LAR-IAC and move to acquire updated imagery through LAR-IAC2. We will be acquiring new 4" color ortho imagery and new 4" color oblique imagery and related products.

Project Overview

Welcome to the Los Angeles Region Imagery Acquisition Consortium (LAR-IAC) website. Here you will find documents relating to Los Angeles County's comprehensive project to obtain highly accurate digital imagery and related products. Please check this site periodically - we will be adding new material as it becomes available.



Contact Information

- Project Director
 Mark Greninger, County GIO
 mgreninger@cio.lacounty.gov (213) 253-5624
- Outreach Manager

Nick Franchino, GIS Manager, Regional Planning Dept. nfranchino@planning.lacounty.gov (213) 893-0881