

# Welcome to the LAR-IAC 3 Status Meeting

December 1, 2011





#### Agenda

- What is LARIAC?
- LAR-IAC3 Status Updates
  - Schedule/Status Update
    - AT Status
    - Ortho Status
    - Delivery Status
    - QAQC Status
  - Administrative Update
- Delivery Planning
- POL Update
- County Mapping System Access
- 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"

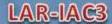




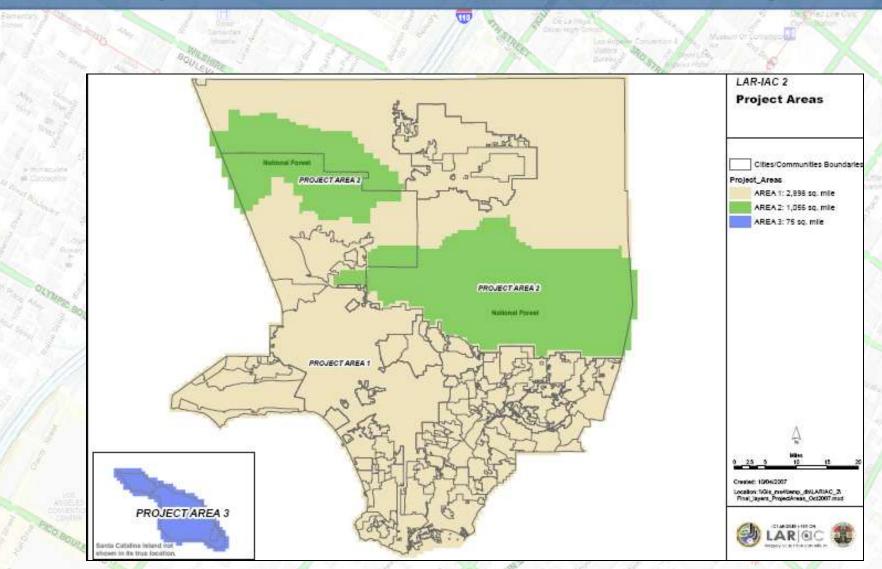
## **Oblique Imagery**

Also known as "birds eye"





## **Project Areas - Ortho Imagery**





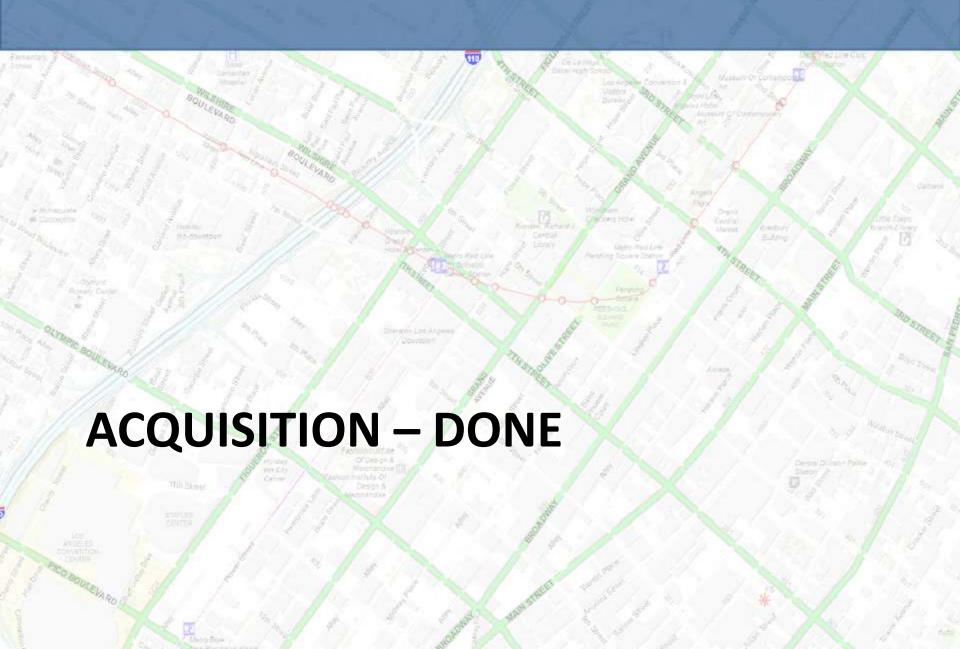




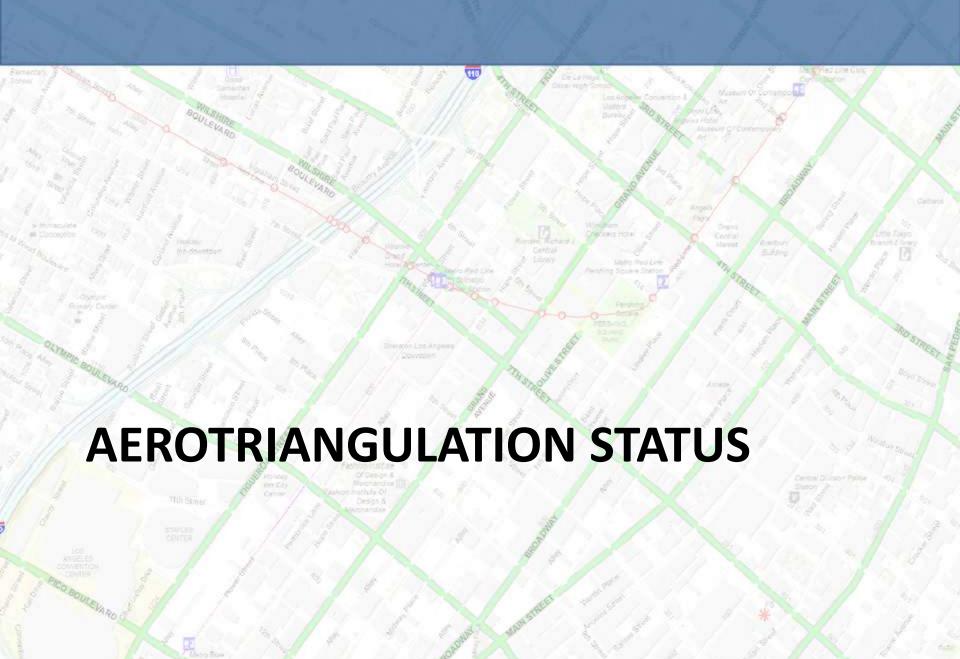
## Simplified Schedule

- 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
- September December 2011 delivery underway

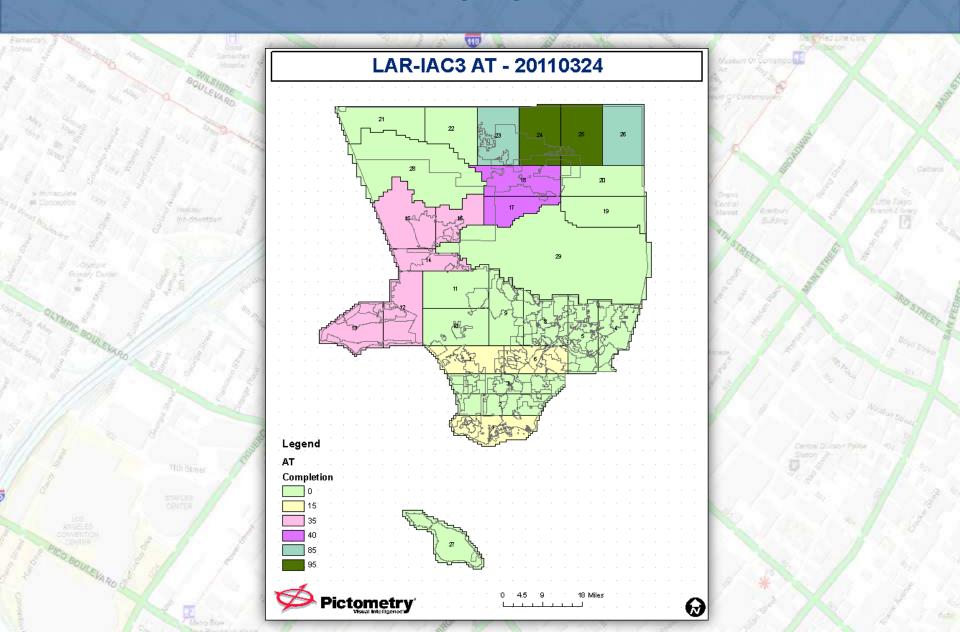






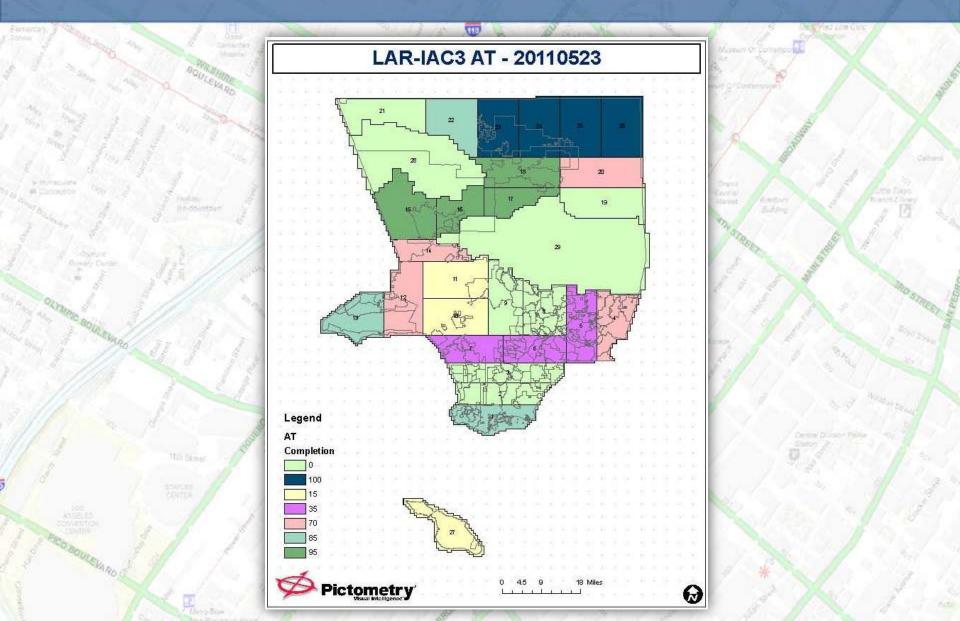


## March



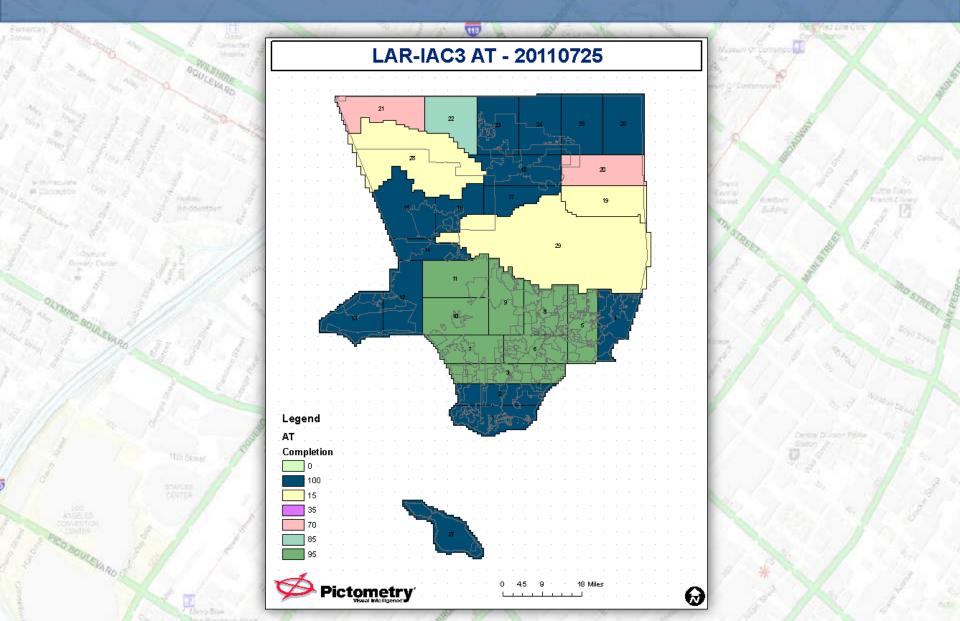


## May



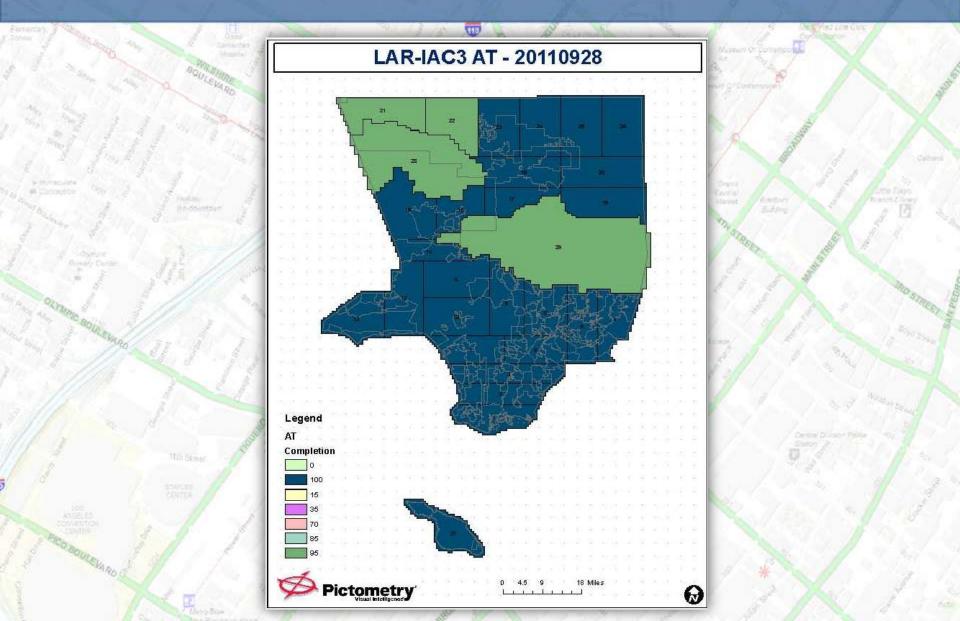


## July



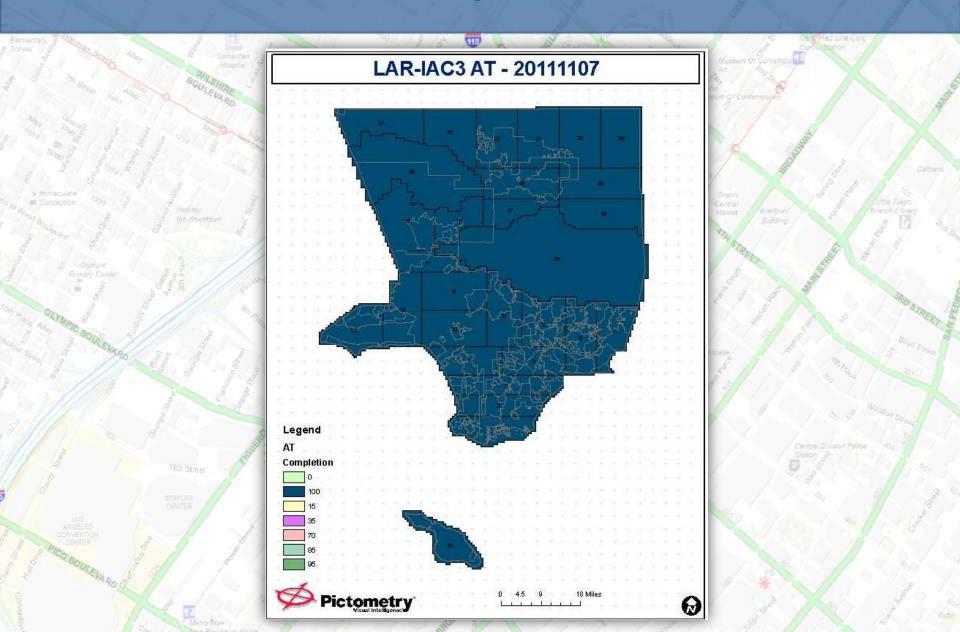


## September

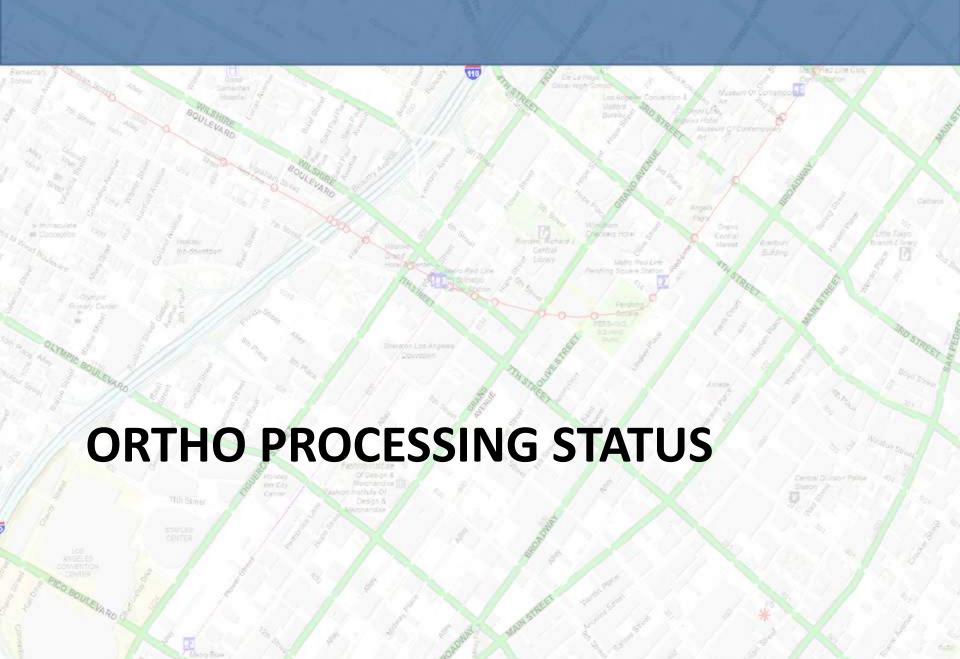




#### Now

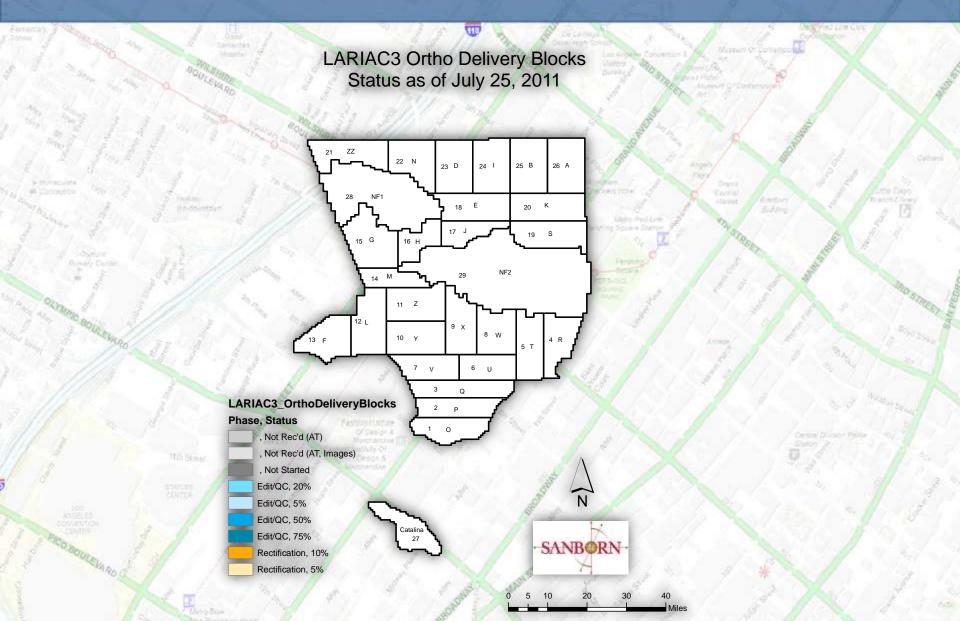






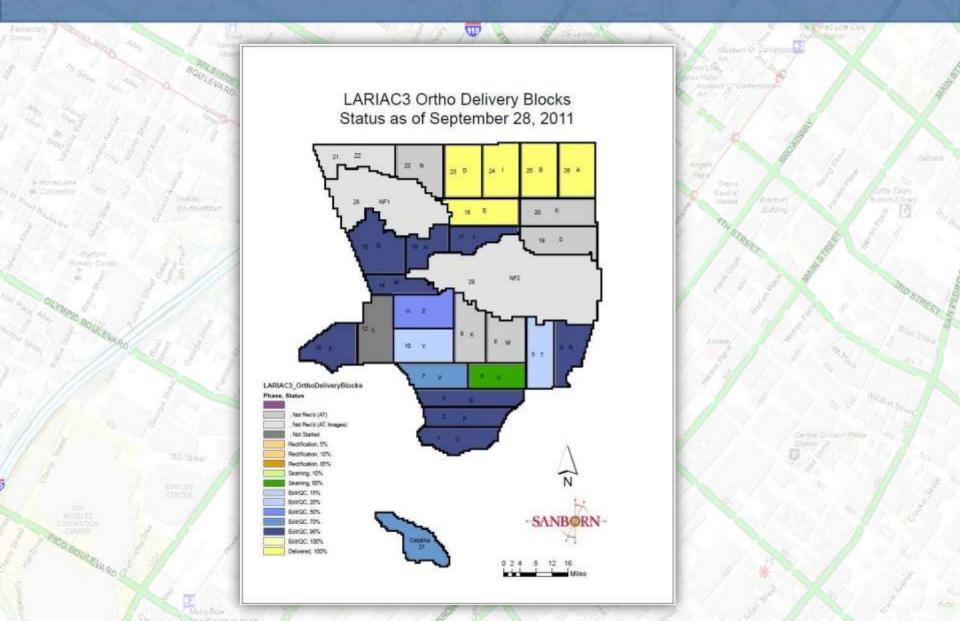


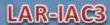
## Ortho Status (July)



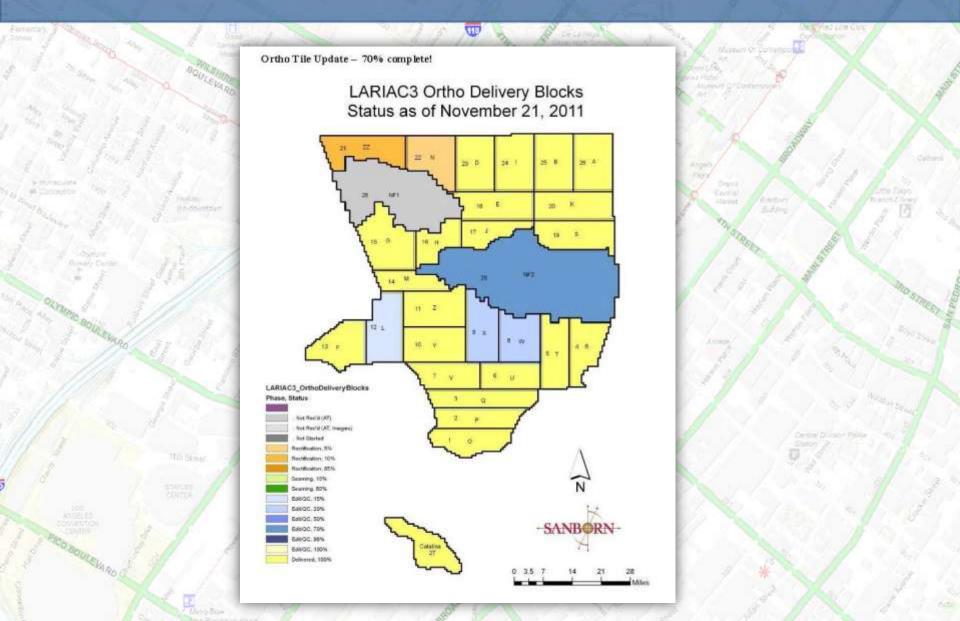


## Ortho Status (September)



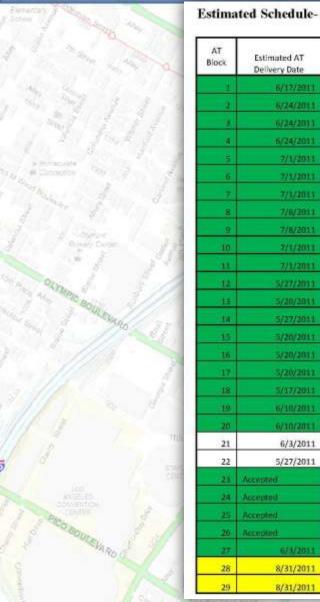


## **Ortho Status (November)**

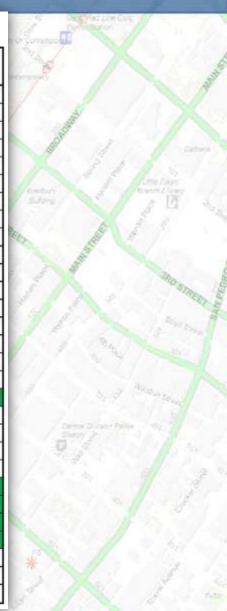




#### **Ortho Schedule**



AT Block	Estimated AT Delivery Date	Updated AT Delivery Date	AT Delivery	AT Approval	Estimated Tile Delivery	Updated Tile Delivery	Final Tile Delivery
- 1	6/17/2011	7/1/2011	7/27/2011	8/3/2611	9/15/2011	11/7/2011	
2	6/24/2011	7/8/2011	7/27/2011	8/5/2011	9/30/2011	11/7/2011	
2.	6/24/2011	7/28/2011	7/27/2011	175/2011	9/30/2011	11/7/2011	is and
4	6/24/2011		7/25/2011	7/27/2011	10/17/2011	10/31/2011	
5	7/1/2011	7/27/2011	7/26/2011	8/20/2011	10/17/2011	11/22/2011	1
- 6	7/1/2011	8/19/2011	8/19/2011	8/29/2011	10/17/2011	11/30/2011	
7.	7/3/2011	8/12/2011	8/15/2011	8/20/2011	10/31/2011	11/22/2011	
8	7/8/2013	8/19/2011	8/19/2011	9/12/2011	11/15/2011	12/15/2011	
9	7/8/2013	8/39/2011	8/16/2011	9/14/2011	11/15/2011	12/15/2011	
10	2/1/2011	8/16/2011	8/16/2011	8/21/2011	10/31/2011	11/22/2011	
111	7/3/2013	7/28/2011	7/27/2011	8/22/2011	10/31/2011	11/30/2011	Į.
12	5/27/2013	6/24/2011	7/26/2011	3/34/2011	9/15/2011	12/15/2011	
13	:5/20/2011	5/25/2011	6/2/2011	6/18/2011	8/31/2011	9/30/2011	
-10	5/27/2011	0/17/2011	6/20/2011	7/7/2011	9/30/2011	10/10/2011	
15	5/20/2011	5/24/2011	6/2/2011	2/7/2011	8/15/2011	10/10/2011	
16	5/20/2011	5/24/2011	6/2/2011	7/7/2011	8/15/2011	10/17/2011	1
17	5/20/2011	5/29/2011	6/2/2011	7/7/2011	9/15/2011	10/17/2011	
18	5/17/2014		5/17/2011	5/25/2011	8/15/2011	9/15/2011	9/26/201
19	6/10/2011	9/21/2011	9/21/2011	9/23/2011	10/17/2011	12/30/2011	
20	6/30/2011	9/21/2011	9/21/2011	9/23/2011	9/15/2011	12/30/2011	
21	6/3/2011	10/3/2011			11/15/2011	12/30/2011	
22	5/27/2011	10/3/2011			9/30/2011	12/30/2011	
25	Accepted			5/1.7/2011	8/15/2011	9/15/2011	9/1/2011
24	Accepted			3/17/2011	8/31/2011	9/15/2011	1/1/201
25	Accepted			4/18/2011	8/15/2011	-	8/15/2011
26	Accepted			4/38/2011	8/15/2011		8/15/2011
27	6/3/2011	7/20/2011	7/1/2011	7/32/2011:	11/15/2011	10/31/2011	
28	8/31/2011	10/7/2011			11/30/2011	12/30/2011	
29	8/31/2011	9/29/2011	Ü		11/30/2011	12/30/2011	

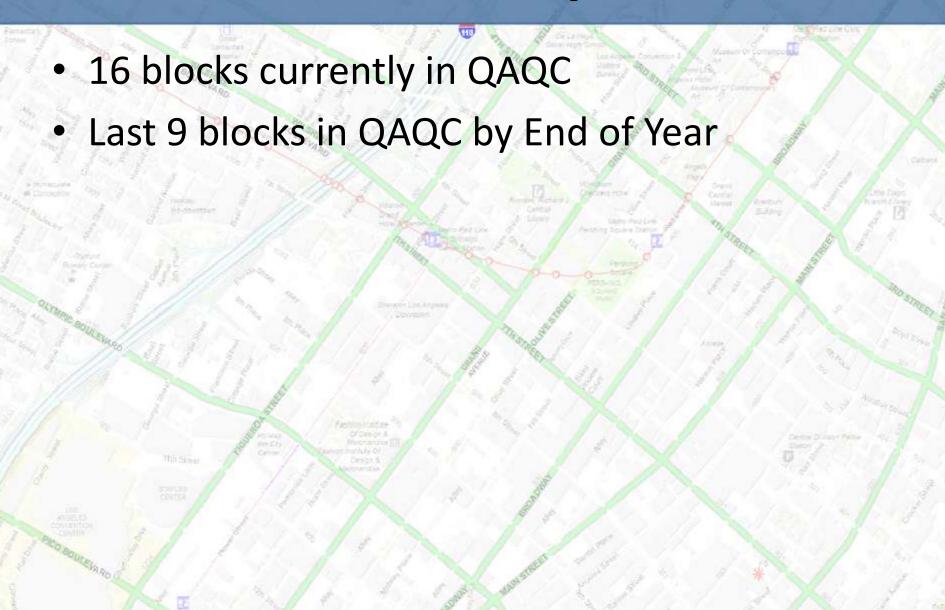




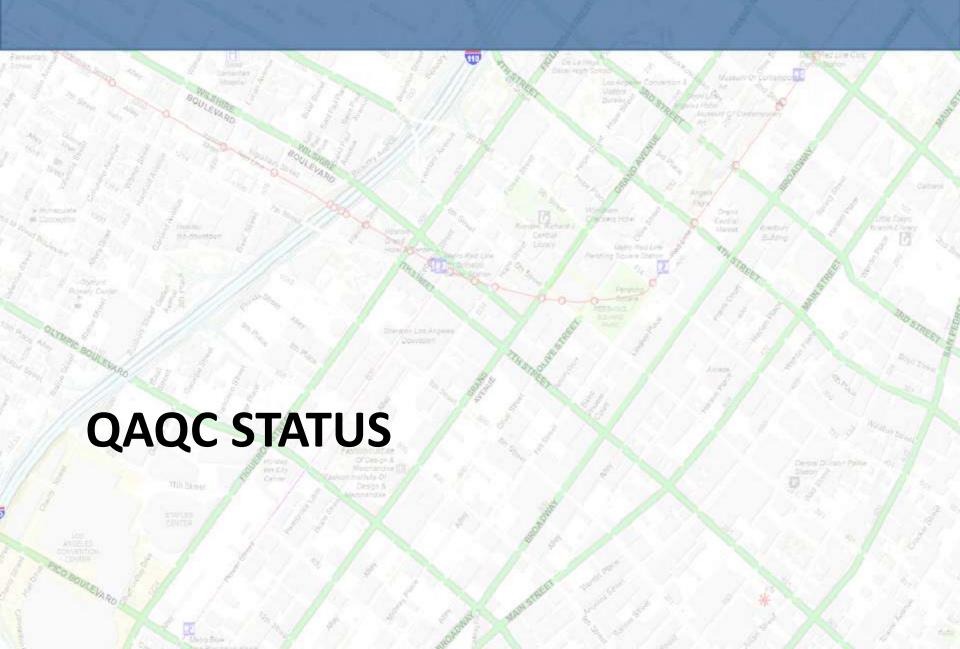
#### **Ortho Schedule**



## Summary

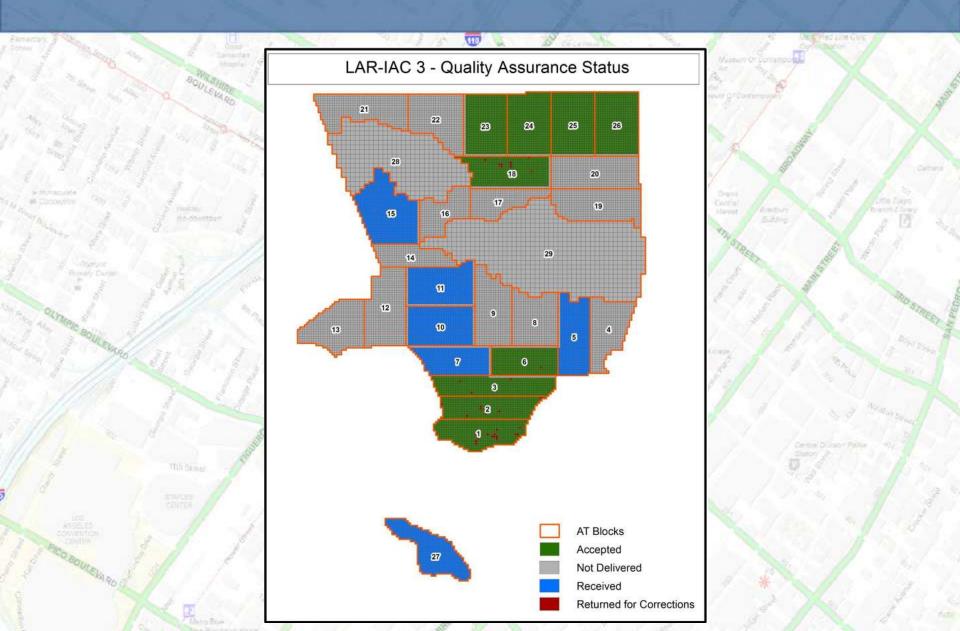




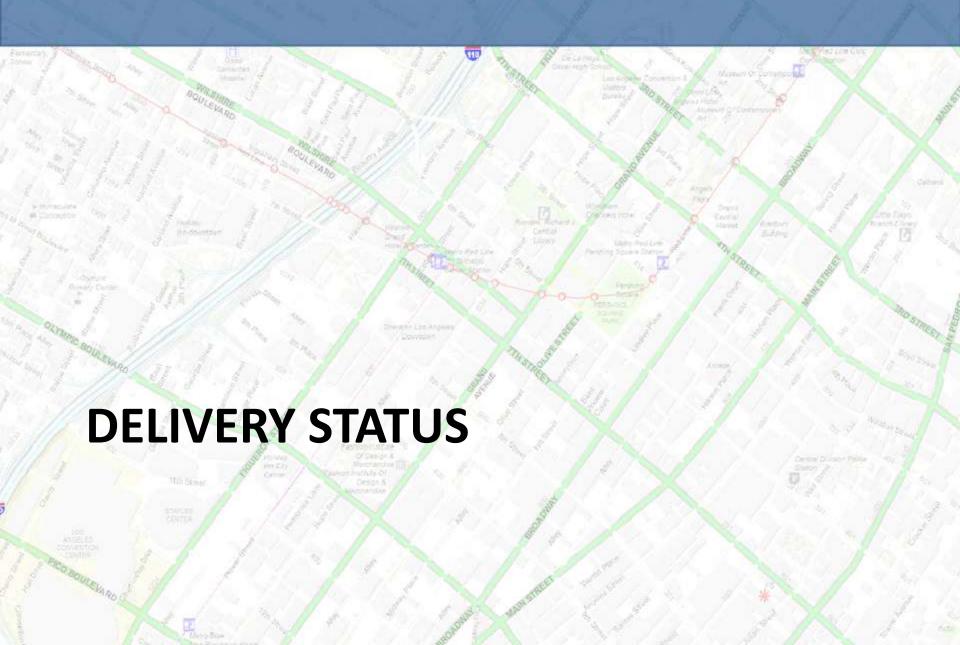




#### **Status**









#### **Oblique Status**

- Oblique Imagery loaded into Pictometry Online (POL)
  - Waiting for a few replacement areas before physical delivery.
- Two delivery methods
  - Hard disks LAR-IAC has order 60 one (1) Tb drives for physical delivery, and eight six-(6) Tb for countywide delivery.
- Oblique imagery is effectively delivered.



#### **Oblique Status- POL**

- Pictometry Online
  - Generic LARIAC username
  - Generic Participant username
  - Test Login for potential participants
  - GIS Uploader
- http://pol.pictometry.com



## **Ortho Status**

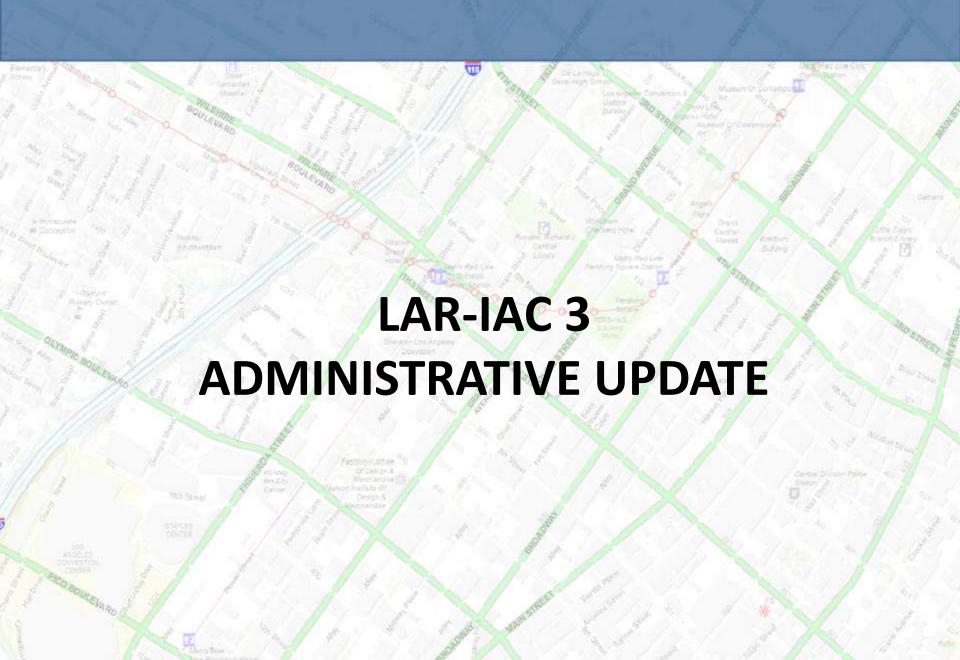
325.	Product S	tatus						
Delivery Area	Payment Status	Resolution	AT Blocks Required	SPCS	Tile Count	Boundary File	Submittals	Oblique Delivery
LA County Sanitation Districts	PAID			CAL_V		Have	Ortho and Oblique Together	
City of Burbank	PAID			CAL_V		Have		
ARGIN (LA Region Gang Information Network)	PAID			CAL_V		Full County		
City of Downey	PAID			CAL_V		Have	Separate Deliveries	Shipped
City of Inglewood	PAID			CAL_V		Have		
City of Lakewood	PAID			CAL_V		Have	Ortho and Oblique Together	
City of Hermosa Beach	PAID			CAL_V		Have	Separate Deliveries	Shipped
City of Agoura Hills	PAID			CAL_V		Have		
City of La Canada Flintridge	PAID			CAL_V		Have	Ortho and Oblique Together	
City of Manhattan Beach	PAID			CAL_V		Have	Ortho and Oblique Together	
City of Torrance	PAID			CAL_V		Have	Separate Deliveries	Shipped
City of Beverly Hills	NOT PAID			CAL_V		Have	Separate Deliveries	In Queue
City of Carson	NOT PAID			CAL_V	,	Have		
City of Culver City	NOT PAID			CAL_V		Have		
City of El Segundo	NOT PAID			CAL_V		Have	Ortho and Oblique Together	
City of Glendale	NOT PAID			CAL_V		Have	Ortho and Oblique Together	
City of Industry	NOT PAID			CAL_V		Have	Ortho and Oblique Together	
City of La Habra Heights	NOT PAID			CAL_V		Have		
City of Los Angeles	NOT PAID			CAL_V		Full County		
City of Pasadena	NOT PAID			CAL_V		Have	Ortho and Oblique Together	
City of San Dimas	NOT PAID			CAL_V		Have		
City of Santa Clarita	NOT PAID			CAL_V		Have		
City of Santa Monica	NOT PAID			CAL_V		Have	Ortho and Oblique Together	
City of Whittier	NOT PAID			CAL_V		Have	Ortho and Oblique Together	
Port of Long Beach	NOT PAID			CAL_V		Require		
Santa Catalina Island Conservancy	NOT PAID			CAL_V		Have	Ortho and Oblique Together	
Rancho Palos Verdes	NOT PAID			CAL_V		Require		
Santa Fe Springs	NOT PAID			CAL_V		Require		
University of Southern California	NOT PAID			CAL_V		Require		
LA County	N/A			CAL_V		Full County	Separate Deliveries	Delivered
TOTAL COUNTS				_	0			



#### Summary

- QAQC is proceeding rapidly
- Deliveries should begin from North to South (maybe) in mid-late December
- Most of the County is currently 80-90% done.
  - Many deliveries coming at the same time.
  - Remember the snow in May/June?







## **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



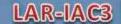
#### **Current Participants**

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				

Santa Clarita Water

Los Angeles Air Force Base

**US Geological Survey** 



## What we need from you now

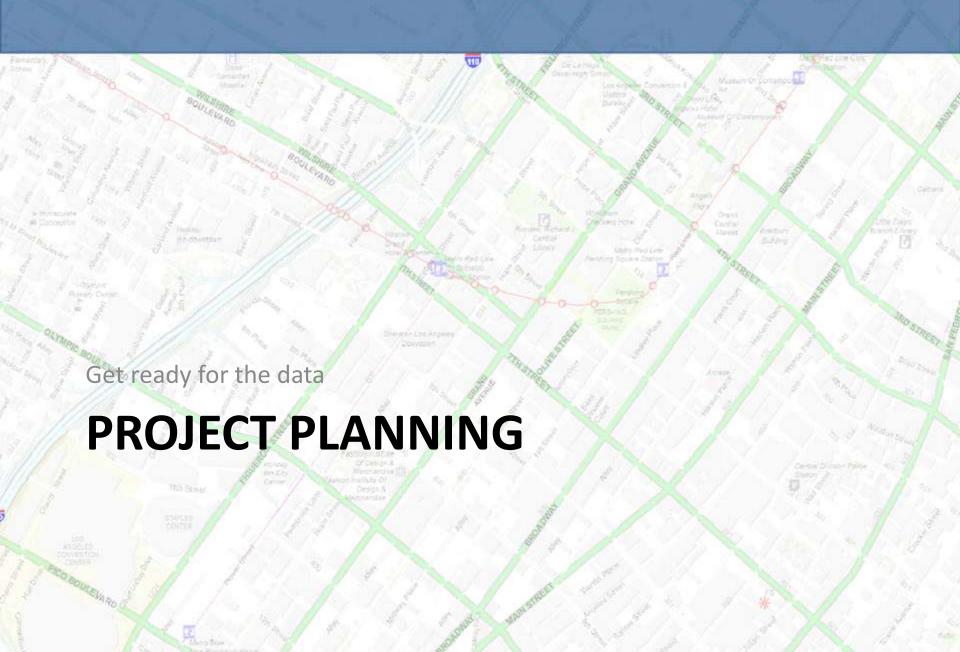
- Participant Agreement!
- Funding please fund your initial payment.
- Updated contact information
- Email to <a href="mgreninger@cio.lacounty.gov">mgreninger@cio.lacounty.gov</a>



#### **For Participants**

- Need three pieces of information (see form)
  - Delivery Address
  - Oblique imagery Physical delivery now or later?
  - Your preferred merged imagery format (pick one)
    - SDE Export (compressed)
    - File Geodatabase (compressed)
    - ESRI image mosaic (new in version 10.0)
    - Remember you will still get the geo-tiff files and compressed MrSID and ECW formats.
- Please review form.







#### **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

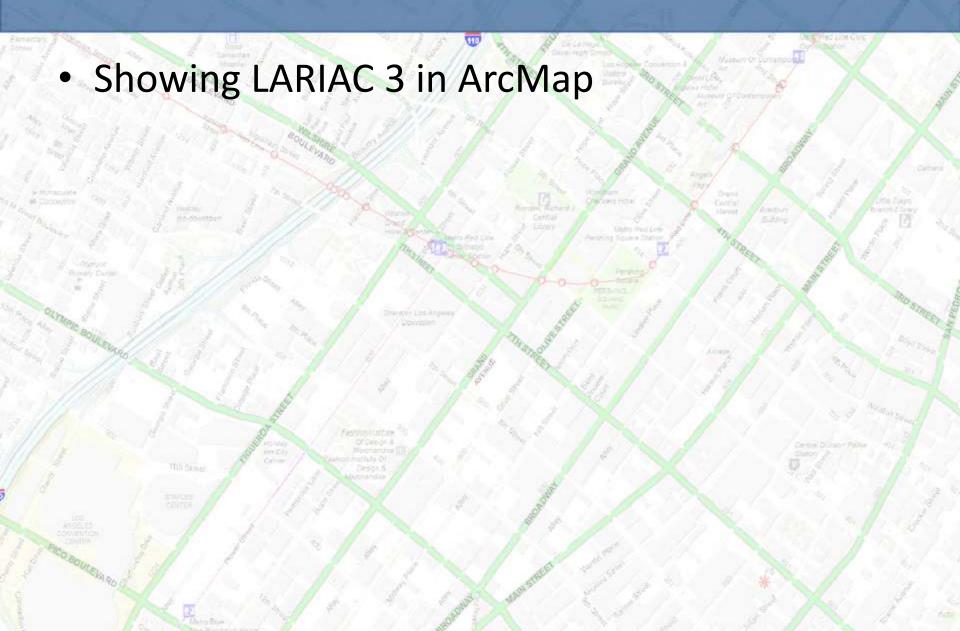


#### Discussion

- 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?

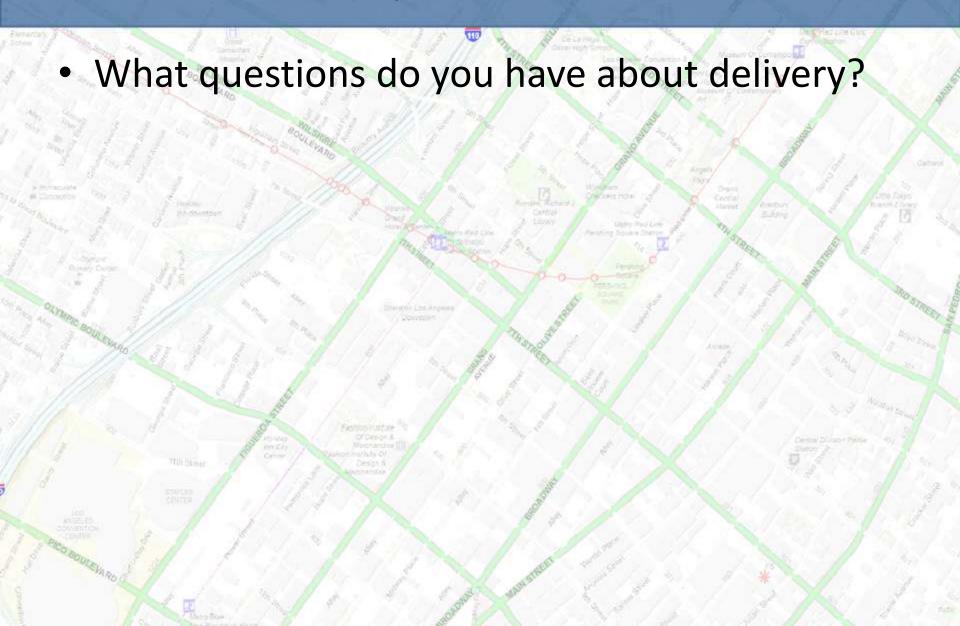


#### Demo

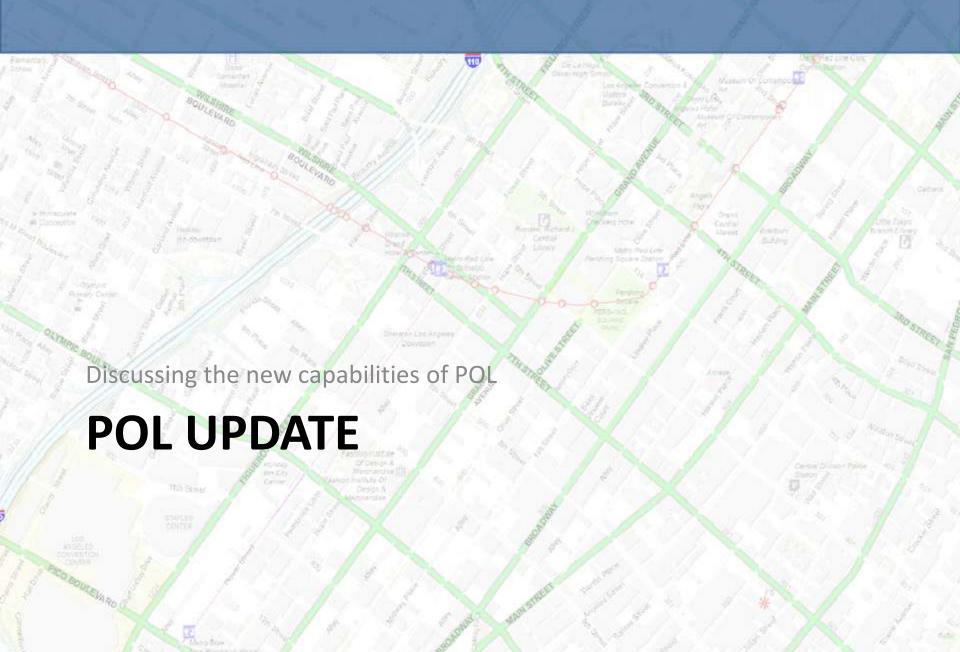




### Questions





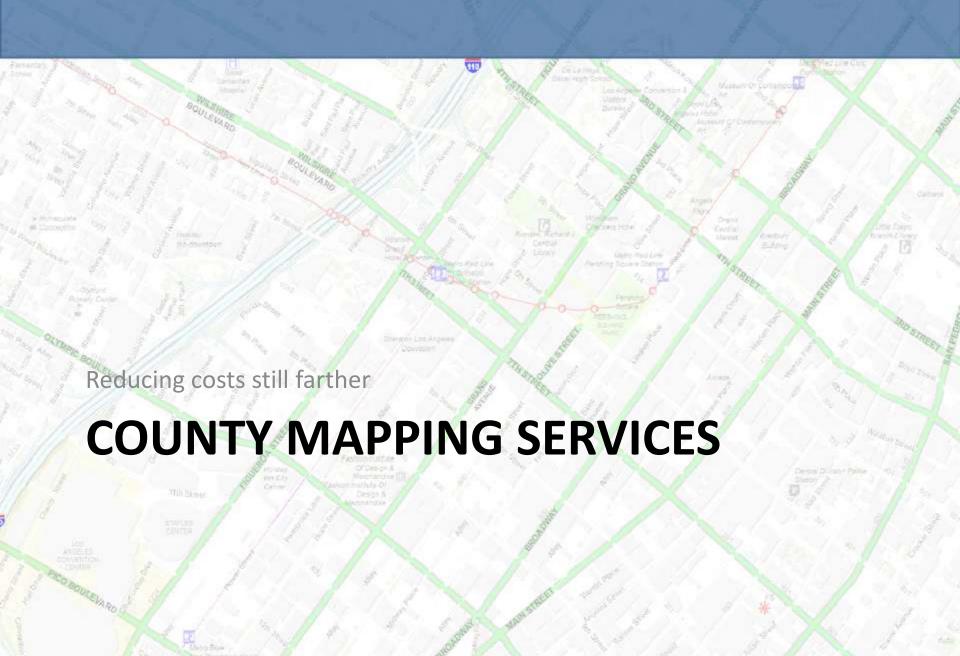




#### **New POL Features**

- Generic Account for each participant
  - Managed by the participant administrator
- Upload/Styling for your GIS layers
  - GIS Uploader Tool
    - GIS Data rendered at Pictometry not on the client for speed
  - MXD to SLD export format
    - You control the styles
- Others (David Peck)







#### **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 will be able to 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



#### **Demonstration**





### Next steps

- We are finalizing security model
- We are validating costing to ensure it can be included in existing LAR-IAC costs
- We are determining value to participants
  - Looking to develop GIS Viewers for participants
     without the capacity to ingest LAR-IAC data.

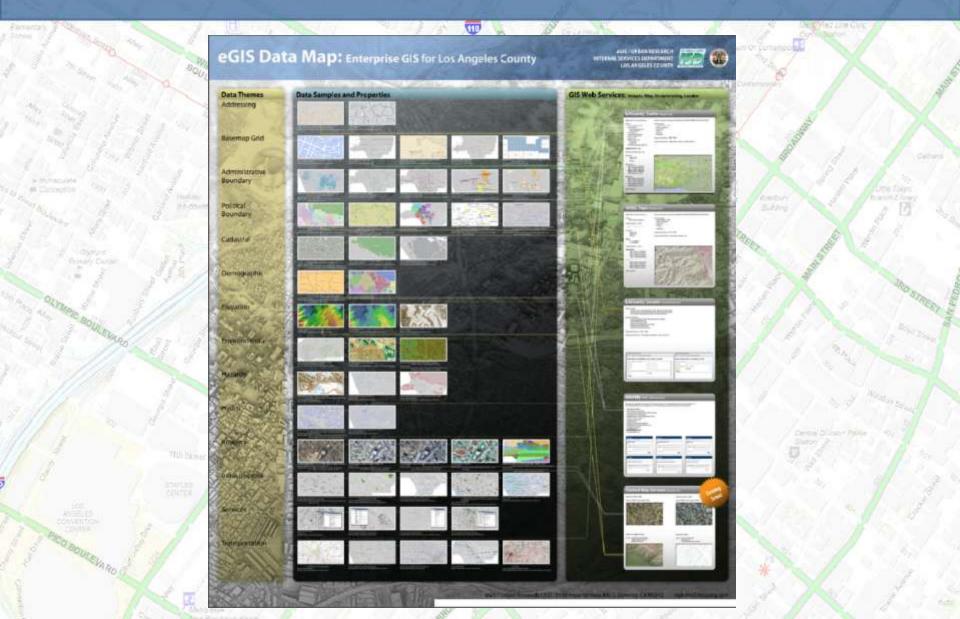


#### In the future

- 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**



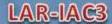


## Los Angeles Region – Imagery Acquisition Consortium (LAR-IAC3)

# 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
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- Outreach Manager

Nick Franchino, GIS Manager, Regional Planning Dept. <a href="mailto:nfranchino@planning.lacounty.gov">nfranchino@planning.lacounty.gov</a> (213) 893-0881