

LAR-IAC3

Welcome to the LAR-IAC 3 Status Meeting

September 29, 2011



LOS ANGELES REGION
LAR-IAC
imagery acquisition consortium

LAR-IAC3

Agenda

- Welcome & Introduction – LA County
- LAR-IAC3 Status Updates
 - Administrative Update
 - Schedule/Status Update
 - Acquisition Status
 - AT Status
 - Ortho Status
 - Delivery Status
 - QAQC Status
- Discussion / Other Items / Closing – LA County

LAR-IAC3

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.

LAR-IAC3

Orthogonal Imagery

- Also known as “Satellite View”

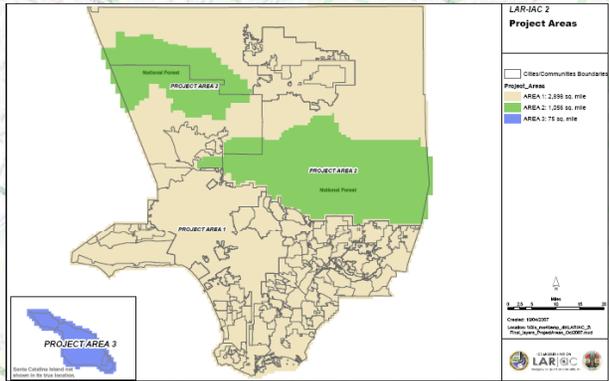


Oblique Imagery

- Also known as “birds eye”



Project Areas - Ortho Imagery



Project Areas

- City/Community Boundaries
- Project Area
- AREA 1: 2,899 sq. mile
- AREA 2: 1,256 sq. mile
- AREA 3: 75 sq. mile

Scale: 0 1 2 Miles

Created: 10/02/07
Source: 100% Aerial, Resolution: 0.7
Proj. System: ProjectArea_041007_A118

LAR-IAC 3 ADMINISTRATIVE UPDATE



Current Participants

Cities	
Agoura Hills	La Canada Flintridge
Bellflower	La Habra Heights
Beverly Hills	Lakewood
Burbank	Los Angeles
Carson	Malibu
Claremont	Manhattan Beach
Commerce	Pasadena
Culver City	Rancho Palos Verdes
Downey	San Dimas
El Segundo	Santa Clarita
Glendale	Santa Fe Springs (new member!)
Hermosa Beach	Santa Monica
City of Industry	Torrance
City of Inglewood	Whittier

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
Fire Department	Registrar-Recorder/County Clerk
Health Services	Sheriff
Internal Services Department	
Other Agencies	
LA County Sanitation Districts	University of Southern California
Santa Catalina Island Conservancy	LARGIN
US Geological Survey	

- ## What we need from you now
- **Participant Agreement!**
 - **Funding – please fund your initial payment.**
 - Updated contact information
 - Email to mgreninger@cio.lacounty.gov

- ## 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.

LARIAC 3 SCHEDULE/STATUS UPDATE

Los Angeles LAR-IAC3

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

Los Angeles LAR-IAC3

ACQUISITION – DONE

Los Angeles LAR-IAC3

AEROTRIANGULATION STATUS

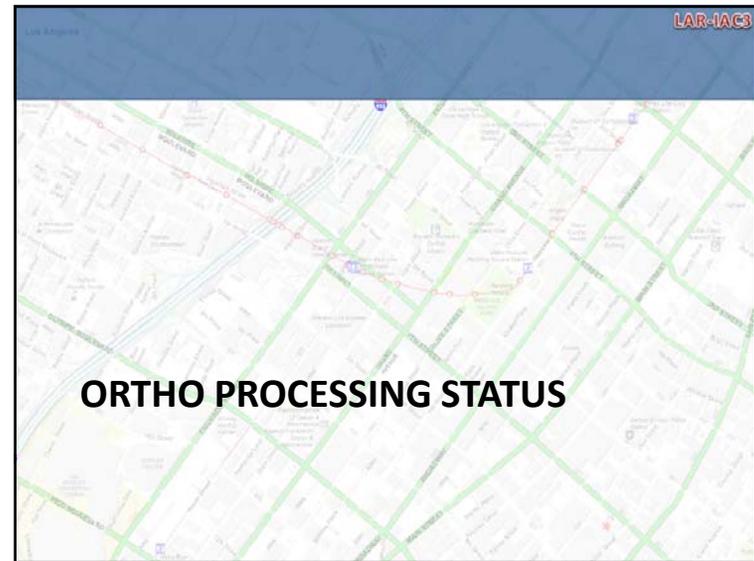
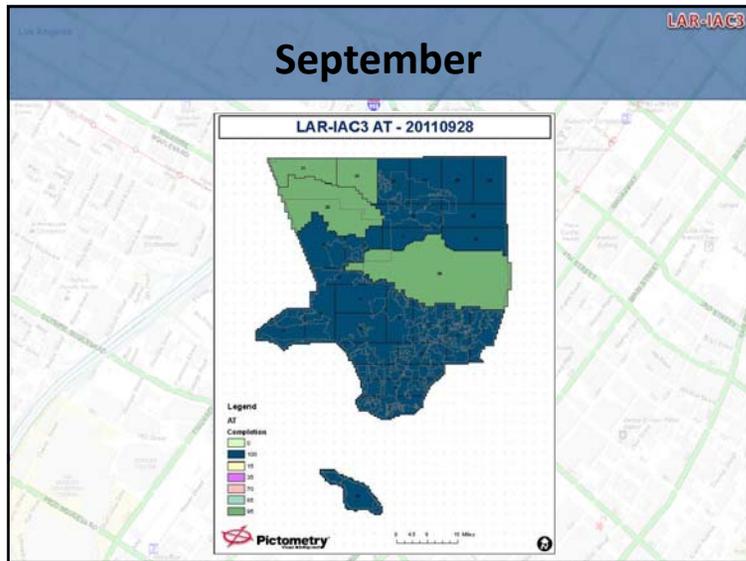
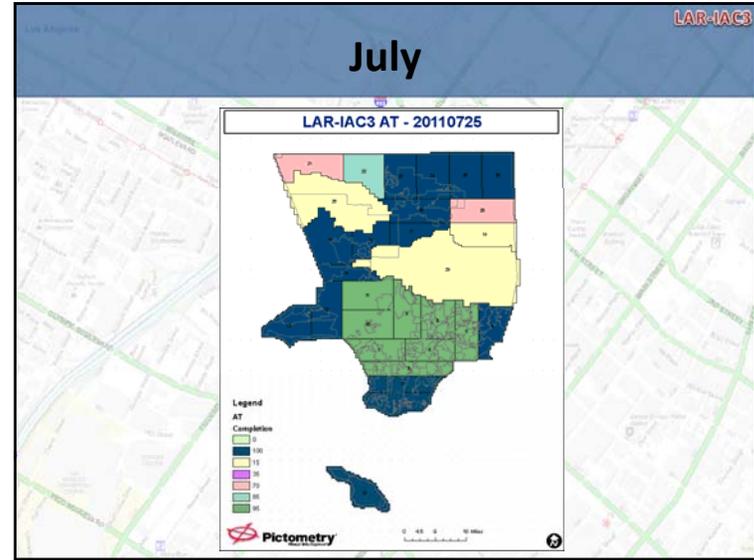
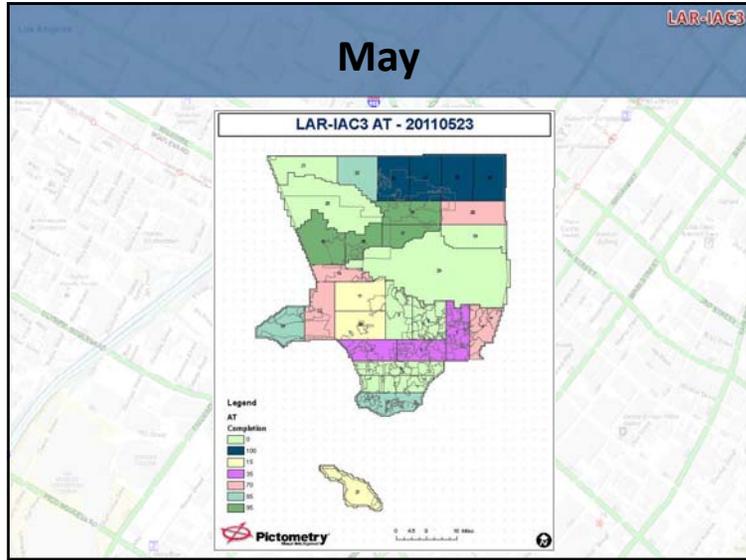
Los Angeles LAR-IAC3

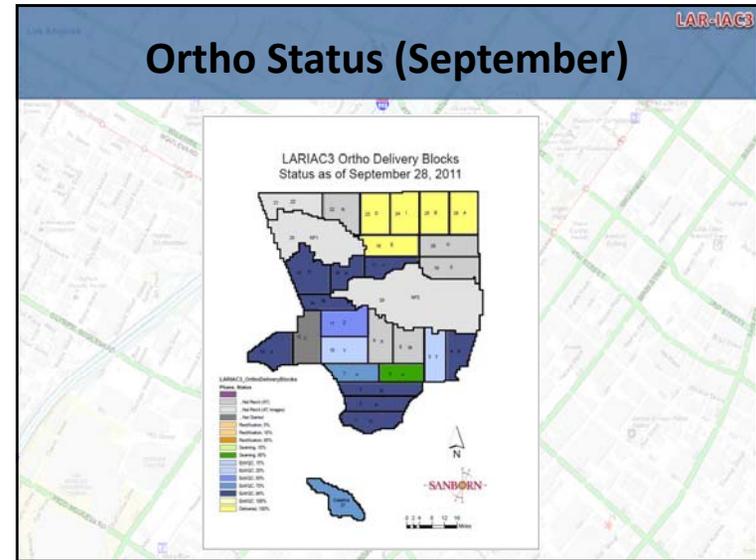
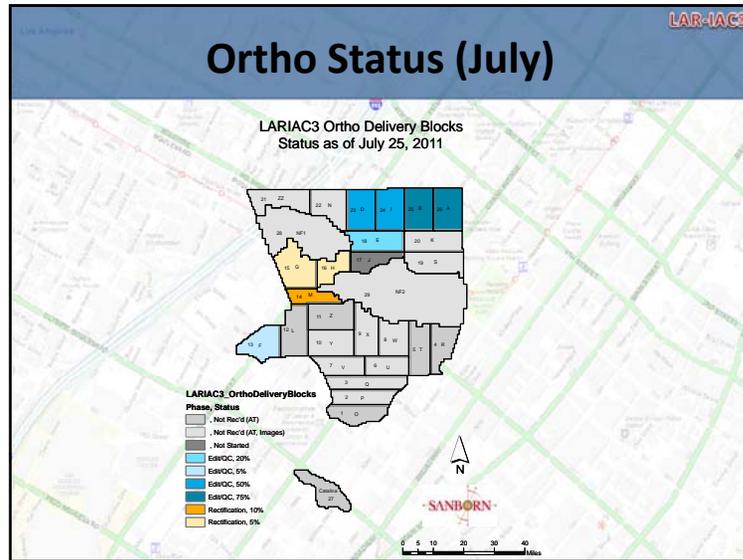
March

LAR-IAC3 AT - 20110324

Legend
AT
Completion
0
15
30
45
60
75

Pictometry





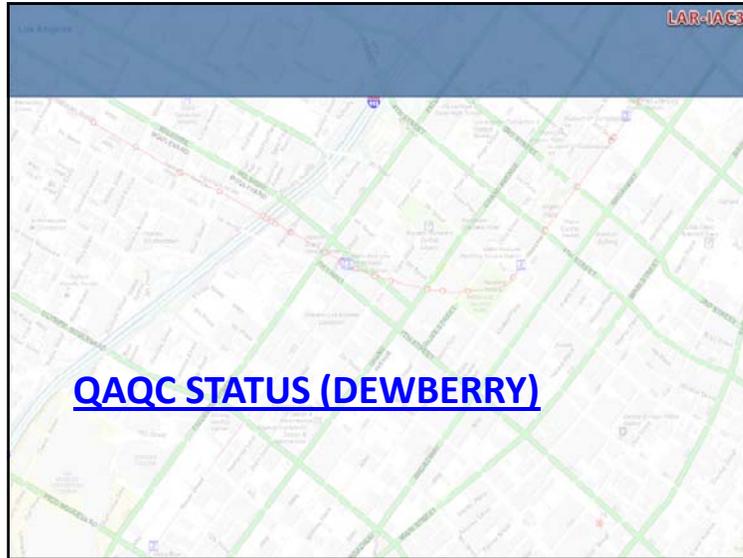
Ortho Schedule

Estimated Schedule-

AT Block	Estimated AT Delivery Date	Stabilized AT Delivery Date	AT Delivery	AT Approval	Estimated T10 Delivery	Estimated T10 Delivery	Final T10 Delivery
1	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
2	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
3	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
4	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
5	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
6	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
7	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
8	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
9	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
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16	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
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21	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
22	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
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29	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
30	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011
31	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011	8/13/2011

Summary

- 5 blocks currently in QAQC
- 10 blocks by end of October
- 19 by end of November



LAR-IAC 3 Oblique QA Status

- Completeness Review of Neighborhood and Community images is 100% Complete
- Accuracy Assessment of Oblique Imagery is Complete and Accepted.

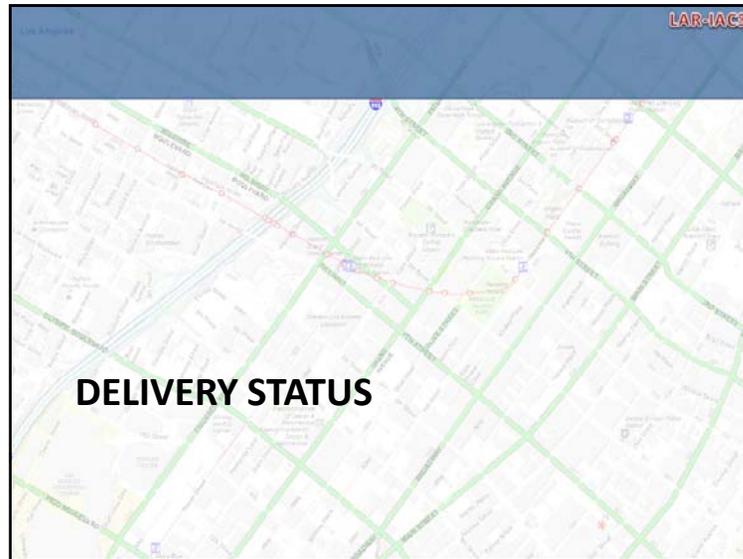
Pictometry Airborne Oblique Imagery	Accuracy Statistic	North View (feet)	South View (feet)	East View (feet)	West View (feet)	Average of All Views ¹ (feet)
Number of Points Visible on 133 Usable Targets		115	123	121	120	124
Horizontal Accuracy	RMSE _x	1.04	1.12	1.88	2.60	1.00
	RMSE _y	1.33	1.20	1.18	1.30	0.62
	RMSE _z	1.69	1.64	2.22	2.91	1.18
Vertical Accuracy	Accuracy _x	2.92	2.84	3.85	5.03	2.04
	Accuracy _y	0.47	0.81	0.65	0.74	0.58
	Accuracy _z	0.93	1.60	1.27	1.46	1.13

LAR-IAC 2 Oblique QA

Pictometry Airborne Oblique Imagery	Accuracy Statistic	North View (feet)	South View (feet)	East View (feet)	West View (feet)	Average of All Views ¹ (feet)
Number of Points Visible on 216 Usable Targets		186	188	188	188	190
Horizontal Accuracy	RMSE _x	1.26	1.3	2.76	2.29	0.91
	RMSE _y	2.69	2.36	1.34	1.40	0.85
	RMSE _z	2.97	2.70	3.07	2.68	1.26
Vertical Accuracy	Accuracy _x	5.14	4.67	5.31	4.65	2.16
	Accuracy _y	1.50	1.16	1.53	1.21	1.22
	Accuracy _z	2.94	2.27	2.99	2.38	2.39

Oblique Imagery

- Horizontal Accuracy – **2.06 feet**
– slightly better than LAR-IAC 2's 2.13 feet
- Vertical accuracy – **1.13 feet**
– much better than LAR-IAC 2's 2.39 feet



Oblique Imagery

- **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

- **Pictometry Online**
 - Generic LARIAC username
 - Generic Participant username
 - GIS Uploader
- <http://pol.pictometry.com>
- Discussion of the GIS Uploader from Regional Planning.

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

LAR-IAC3

LAR-IAC Project Web Site

<http://planning.lacounty.gov/lariac>

The screenshot shows the LAR-IAC website interface. On the left is a 'Primary Navigation' menu with links for 'LAR-IAC2 (2010)', 'Background Information', 'Studies, Meetings, Schedule', 'Contact Information', 'Downloads', 'Landscape Related', 'Partnerships Related', 'Spatial Assets & Data', and 'Symmetry, Transition Related'. The main content area features a 'LAR-IAC2 Kickoff Meeting' announcement dated January 17, 2009, with a 'SAVE THE DATE!!' section and a 'Project Overview' section. The background is a map of Los Angeles.

LAR-IAC3

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

Questions/Comments? (time permitting)

LOS ANGELES REGION
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imagery acquisition consortium

Prepared by:
Los Angeles County

LAR-IAC3

POL COM Pass-through

Discussed at meeting – added to slides

The Department of Regional Planning worked with Pictometry and developed a simple “POL COM Pass-through” in our Flex based GIS web mapping application. When you use the tool/widget – and click on the map – POL opens up (and logs in with the generic LAR-IAC login) at the location where you clicked.

LAR-IAC3

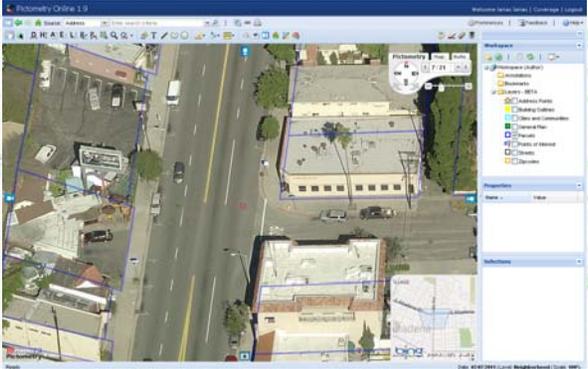
Added as a Widget

When you click on the POL tool the widget on the left opens.

The screenshot shows the GIS-NET3 application interface. A map of Los Angeles is displayed on the right. On the left, a widget is open, showing a 'Web Update List' and instructions: '1. Click the button' and '2. Click on the map to link the images for that point.' Below the map, there are two text annotations: 'Then click the button' pointing to a button in the widget, and 'Then click on the map' pointing to a location on the map.

The Result

When you click on the map the POL application loads and starts at the location you clicked



Behind the Scenes

- When you click on the map the tool/widget calls the application and passes through the login information and the x,y
- The login information is the generic lariaac username and password (you need to get a license key from Pictometry for this)

Points to Consider

Points to consider

- This was done for Flex (you could do for the JavaScript or Silverlight APIs) in the same manner
- Send me an e mail if you are a current participant (L3) and would like the Flex code for this