

# **LARIAC 7 Kick-off and User Group Meeting**

**An Dang**

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LARIAC Project Manager  
Enterprise GIS, Internal Services Department  
County of Los Angeles

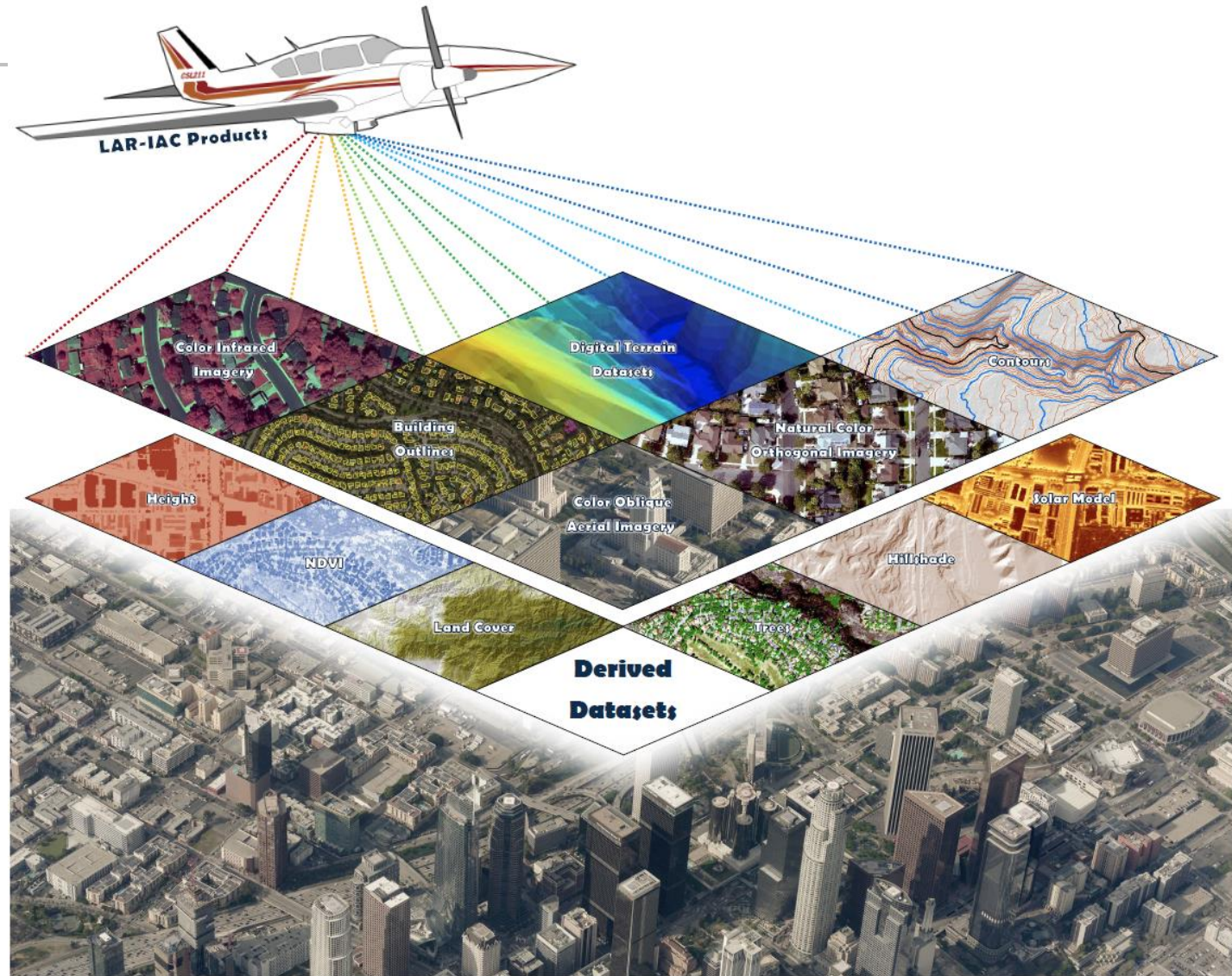


# What is LAR-IAC?

## ➤ Los Angeles Region 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.”

➤ Participants have included 58 cities, 30 County departments, 16 agencies, 13 educational institutions, and a few non-profit/research organizations



# Founding Principles of LARIAC

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## ➤ Purpose

Provide orthogonal imagery, oblique imagery, and digital terrain products for all government entities in Los Angeles County

## ➤ Objectives

- Obtain high accuracy aerial imagery to support government needs (from pre-engineering design to assessments)
- Integrate aerial imagery with GIS parcel database and other GIS layers
- Eliminate multiple acquisitions of varied specifications for the same area



# LARIAC through the Years

The 1<sup>st</sup> LARIAC program was launched in 2006



- LARIAC 1 brought together 50 partners across the county (~75 today)
- Developed a consistent set of project specifications and deliverables for county-wide collection
- Resources pooled across participants in the consortium
- A single agency (County of Los Angeles) serves as the fiscal agent for procurement and contracting

LiDAR flights



# LARIAC Benefits

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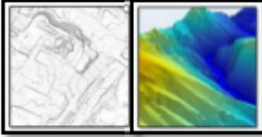
- Spatial accuracy of imagery products and derived data
- Professional QA/QC process
- Sharing of technology and use cases among participants
- Using same imagery in all LA County government entities
- Lower cost per member as more cities/agencies participate



# LARIAC 7 Products

- Ortho (4-band) imagery
- Oblique (4-band) imagery
- Building outlines (>300ft<sup>2</sup>)
- Elevation data (3DEP)
- Countywide parcel data
- Data delivery and services
- Connect platform access
- Training and support

LARIAC DATA ACQUISITIONS

Data	2006 (L1)	2008 (L2)	2011 (L3)	2014 (L4)	2017 (L5)	2020 (L6)	2023 (L7)
Orthogonal Imagery (4-inch) 	X (including Infrared)	X	X	X (including 2012 and 2103 1-foot imagery)	X (including Infrared imagery and multiple acquisitions per year)	X (including Infrared imagery in 2020 and multiple acquisitions per year through 2022)	X (including Infrared imagery in 2023 and multiple acquisitions per year through 2025)
Oblique Imagery 	X	X	X	X	X	X	X
Building Outlines 		X (400 sq ft)		X (400 sq ft)	X (300 sq ft)	X (300 sq ft)	X (300 sq ft)
Elevation Data 	X			X			X
Derived Data (tree canopy, solar insolation, slope, hillshade, height model, land cover, etc.)	X			X	X		X



# LARIAC 7 Products (continued)

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- Hosted Solution & Image Hosting
  - CONNECT Suite, Gateway, IPA, Esri WebAppBuilder, etc.
  - WMS, WMTS
  
- Frequent Imagery Capture Program
  - 4” or better resolution
  - Refresh annually (urban areas only)
  
- Independent QA/QC
  
- LA County Resources
  - GIS Viewer
  - Dynamic & cached map services
  - Secured parcel data for city participants (REST service, FTP)



# LARIAC 7 Schedule

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- Imagery delivery:
  - Spring 2023 Early Access available now
  - Final delivery late 2023
  
- Lidar
  - Capture expected late Summer 2023
  - Point Cloud and other derived products Summer 2024
  
- Frequent Image Captures in 2024 and 2025
  - Details to be determined by Technical Advisory Group  
Summer 2023





# Access to CONNECT Explorer

- Each entity receives a sub-organization account

Select	Status	User Name	First Name	Last Name	Type	POL Interface
<input type="checkbox"/>	IDLE	<a href="mailto:aruiz@isd.lacounty.gov">aruiz@isd.lacounty.gov</a>	Alexander	Ruiz	USER	FULL
<input type="checkbox"/>	IDLE	<a href="mailto:asalyard@isd.lacounty.gov">asalyard@isd.lacounty.gov</a>	Arista	Salyard	USER	FULL
<input type="checkbox"/>	IDLE	<a href="mailto:asantana@isd.lacounty.gov">asantana@isd.lacounty.gov</a>	Araceli	Santana	USER	FULL

- Upload & configure GIS datasets

**Online**  
Upload your GIS data files through the web interface. Both Shapefiles and KML/KMZ files are supported.  
[Launch Online GIS Uploader](#)

**ArcMap**  
Upload your GIS data files, along with their display configurations, through ESRI ArcGIS Desktop.  
[Download Uploader for ArcMap](#)

**Desktop**  
Perform automated updates of your uploaded GIS data files using the Desktop Uploader and Windows Task Scheduler.  
[Details...](#)  
[Download Desktop GIS Uploader](#)



# Access to CONNEXPLORER

The screenshot displays the CONNEXPLORER web application interface. On the left, a vertical timeline lists various acquisition periods, with the most recent one selected. The main area shows a sequence of four aerial images of a stadium under construction, with a semi-transparent 3D model overlaid on each. The images show the progression from a flat dirt lot to a fully constructed stadium with a completed roof. The interface includes a search bar, navigation tools, and a 'Workspaces' dropdown menu.

**CONNEXPLORER**

- All
- Latest
- Early Access
- 2019 Oct - 2019 Oct  
2019\_Fall\_LARIAC5\_Urban
- 2019 May - 2019 May
- 2019 Apr - 2019 Apr  
2019\_Spring\_LARIAC5\_Urban
- 2019 Mar - 2019 Mar  
2019\_Spring\_LARIAC5\_Urban
- 2017 Jan - 2017 Jun
- 2017 Jan - 2017 Jun  
2017\_Winter\_LARIAC5\_Countywide
- 2017 Jan - 2017 Jun  
2017\_Winter\_LARIAC5\_Countywide
- 2014 Jan - 2014 Jun
- 2013 Dec - 2014 Jun  
2014\_Winter\_LARIAC4\_Countywide
- 2010 Dec - 2011 Jul
- 2008 Jan - 2009 Jul
- 2006 Jan - 2006 Sep
- 2002 Jan - 2003 May

**CONNEXPLORER**

**CONNEXPLORER**

**CONNEXPLORER**

Los Angeles Region Imagery Acquisition Consortium (LARIAC)



# Thank You!

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