LARIAC 7 Kick-off
and
User Group Meeting

An Dang

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
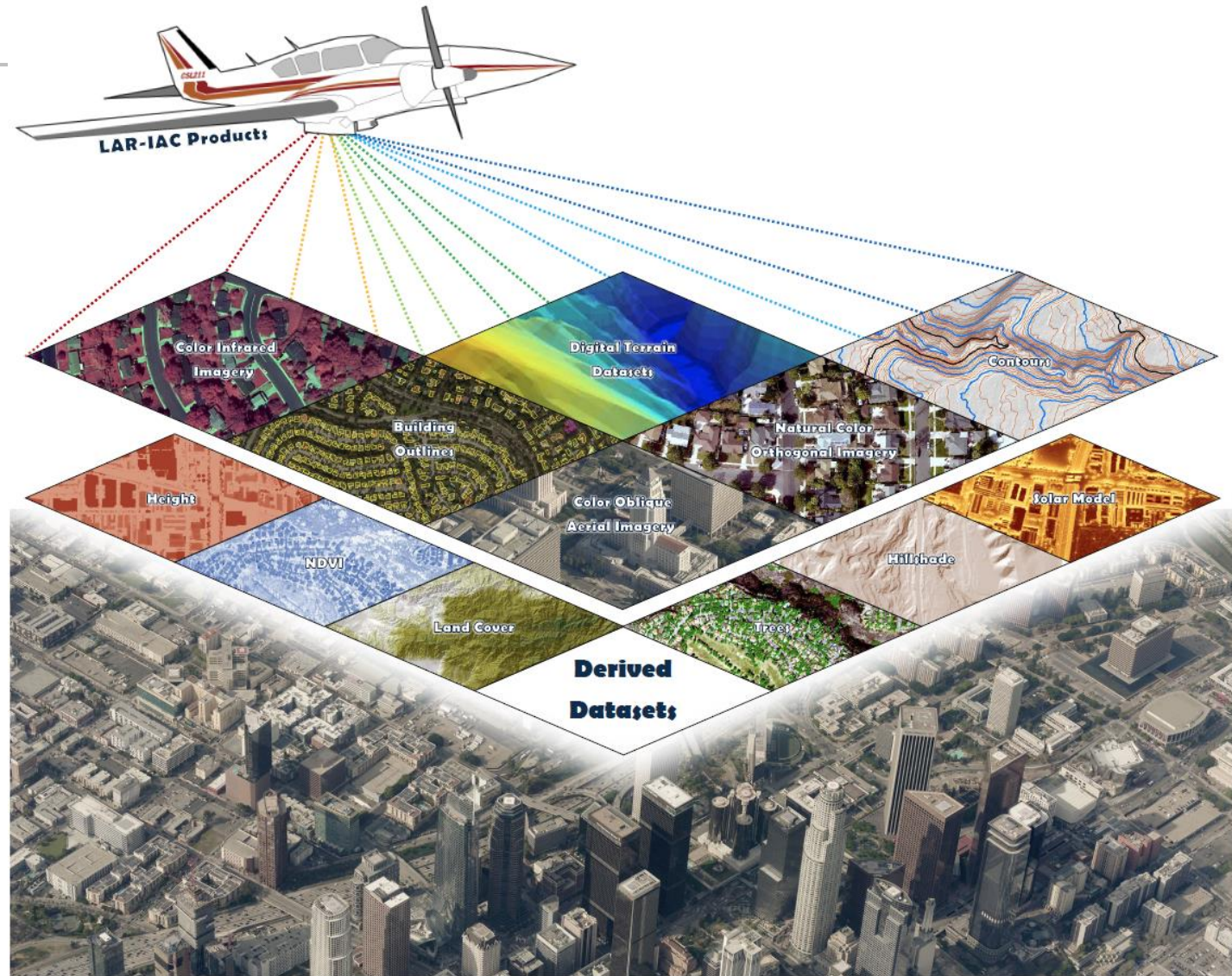
Founding Principles of LARIAC

➢ **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 1st LARIAC program was launched in 2006

LARIAC 1	LARIAC 2	LARIAC 3	LARIAC 4	LARIAC 5	LARIAC 6	LARIAC 7
2006	2008	2011	2014	2017	2020	2023

➢ 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
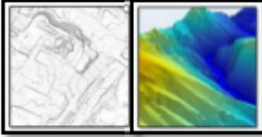
LiDAR flights

LARIAC Benefits

➢ 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^2)**

- ➢ **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, slop, hillshade, height model, land cover, etc.)	X			X	X		X

LARIAC 7 Products (continued)

➤ 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

➢ 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

➢ Upload & configure GIS datasets

Access to CONNECTExplorer

Los Angeles Region Imagery Acquisition Consortium (LARIAC)

Thank You!