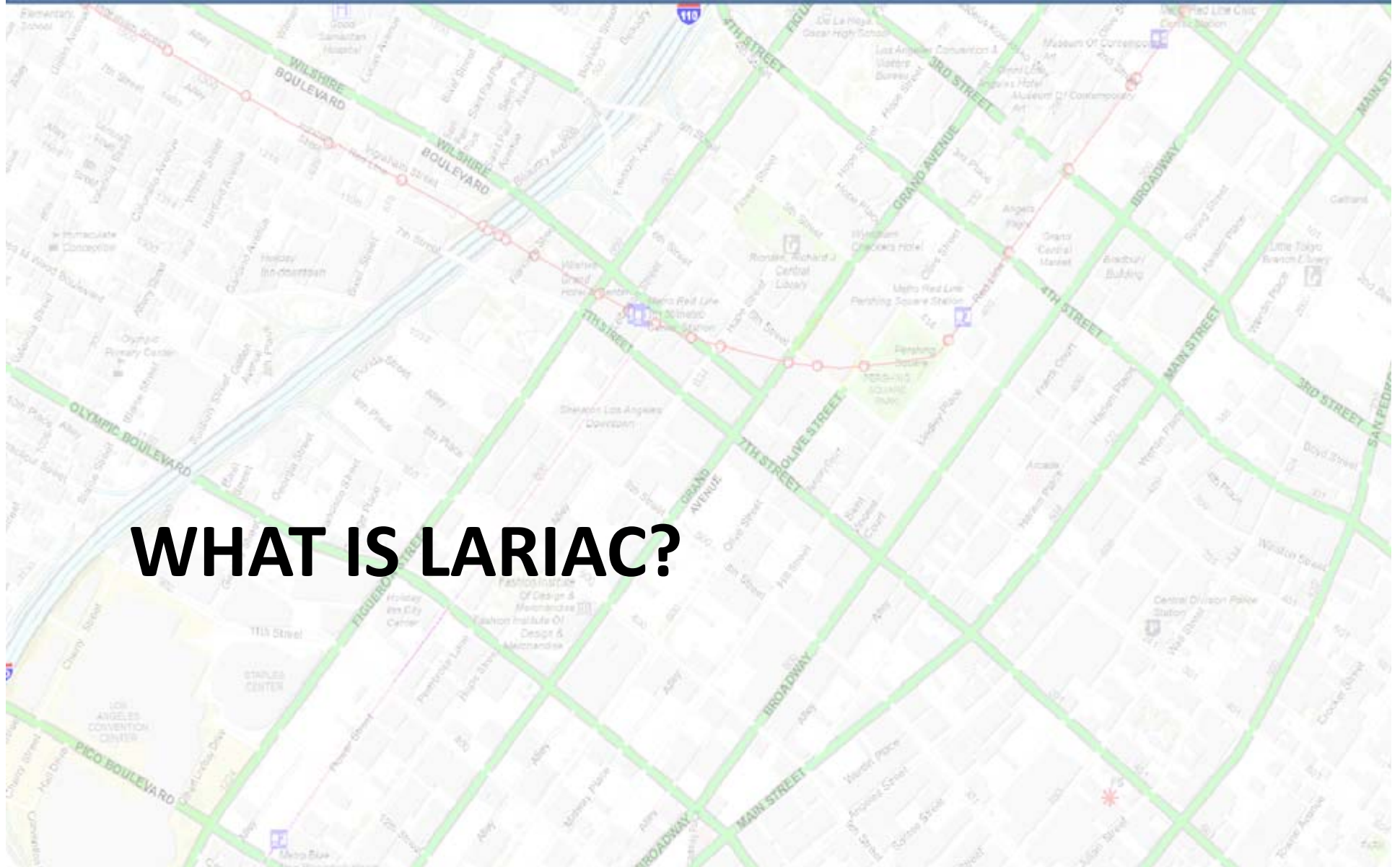


Why LAR-IAC?



LOS ANGELES REGION
LAR|AC
imagery acquisition consortium





WHAT IS LARIAC?

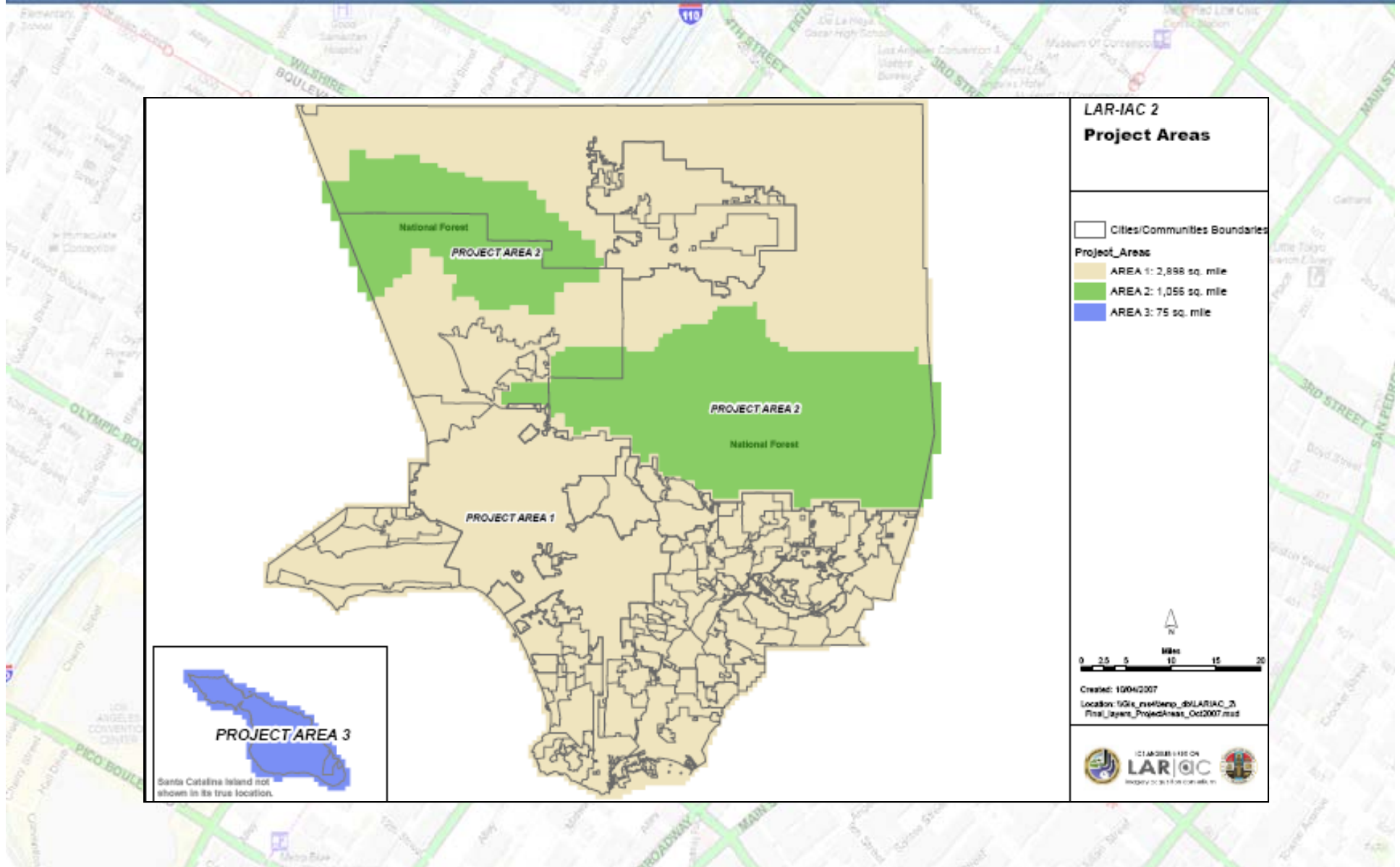
LAR-IAC is data

- LAR-IAC provides geographic data that forms the foundation of geo-spatial decision making and analysis.
- All Digital Aerial data
 - Orthogonal imagery
 - Oblique imagery
 - Elevation data
 - Building Outlines

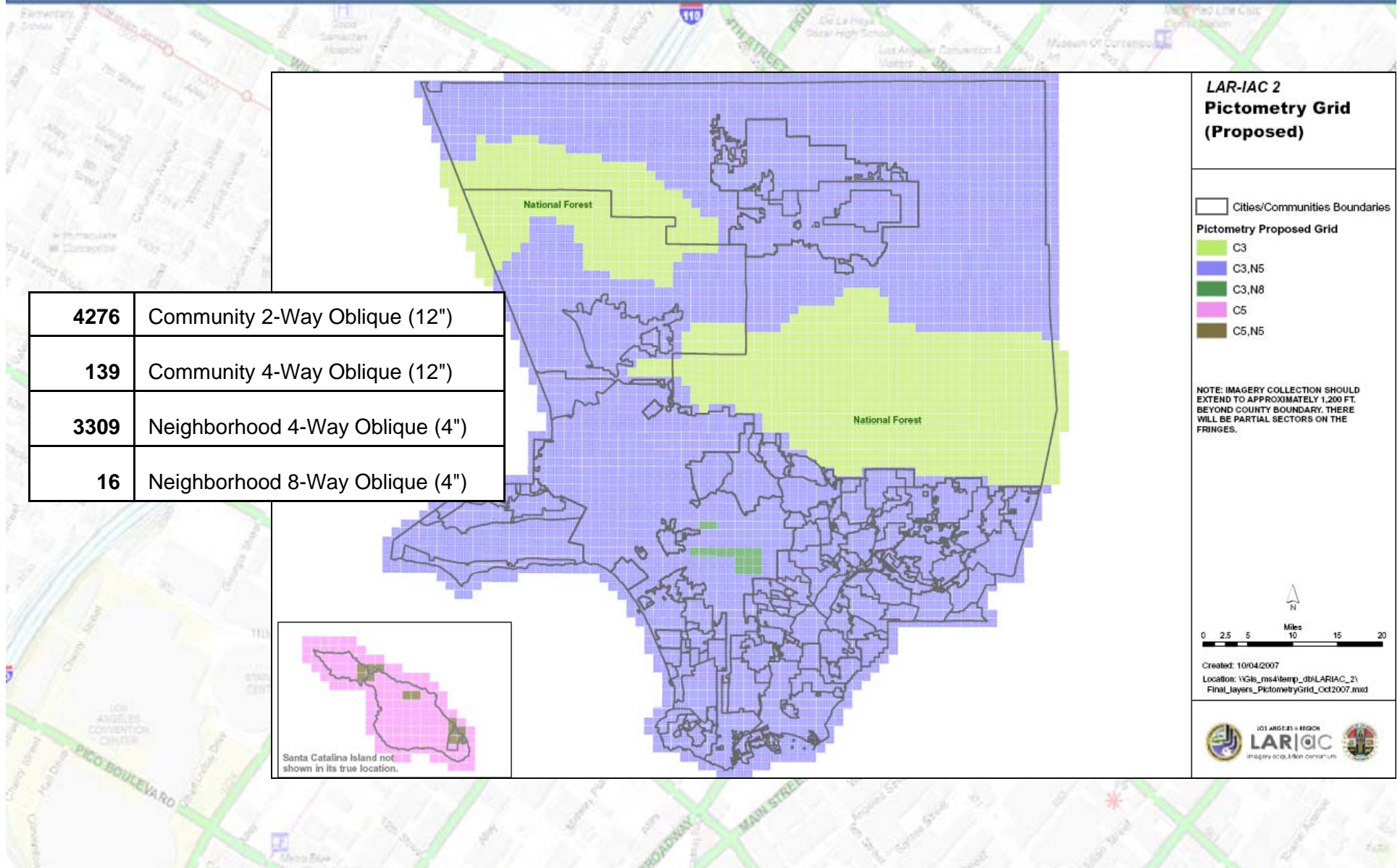
Geographic Scope

- Los Angeles County
 - 4,083 sq. miles plus small buffer area
- Split into regions (similar to LAR-IAC)
 - Area #1 (Urban)
 - Project area covers approx 2,900 sq. miles
 - Area #2 (National Forest)
 - Project area covers approx 1,050 sq. miles
 - Area #3 (Santa Catalina Island)
 - Project area covers approx 75 sq. miles
- No overlap, no seams, no gaps – full, complete tiles only!

Project Areas - Ortho Imagery

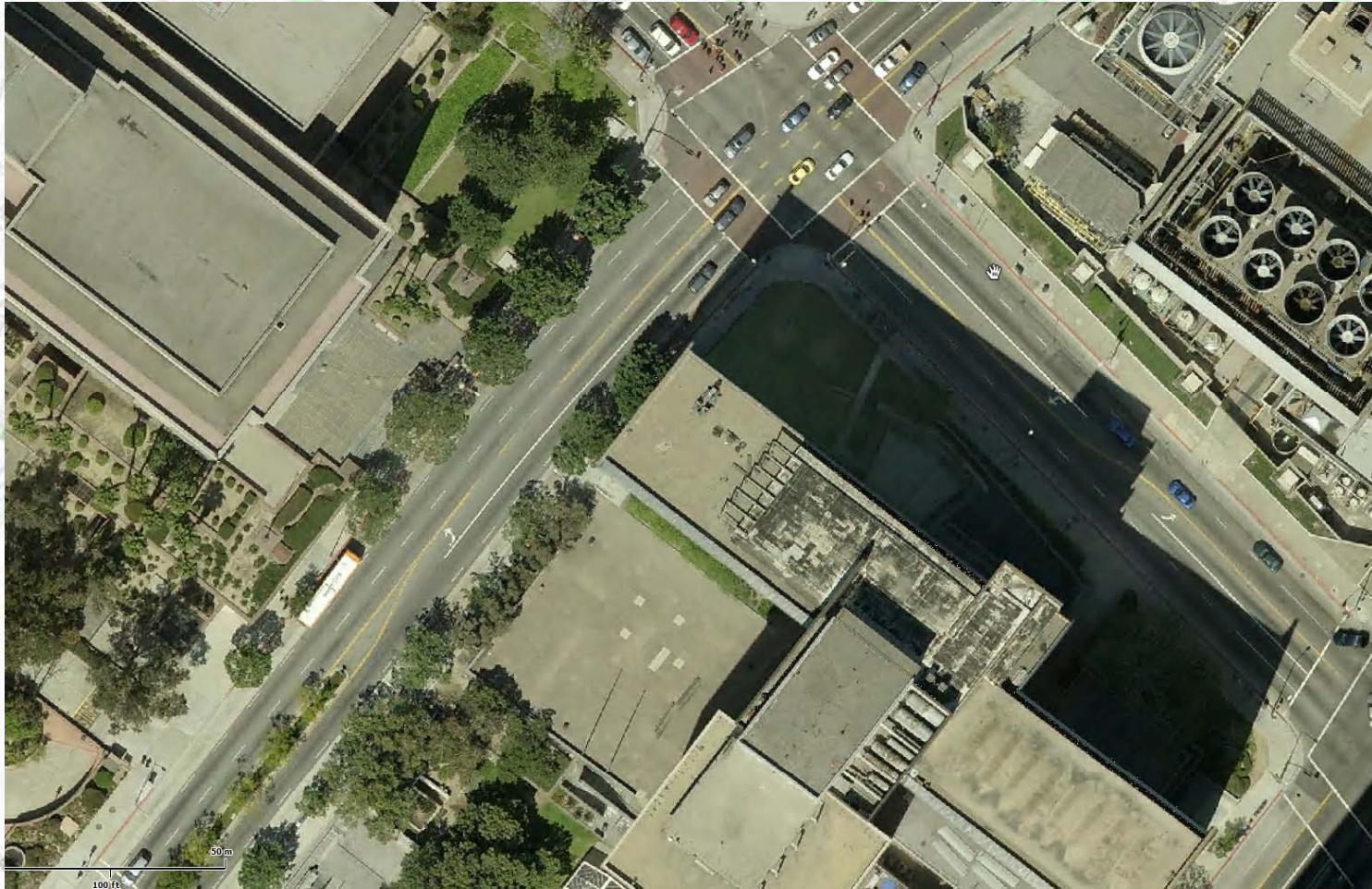


Project Areas – Oblique Imagery



Orthogonal Imagery

- Also known as “Satellite View”



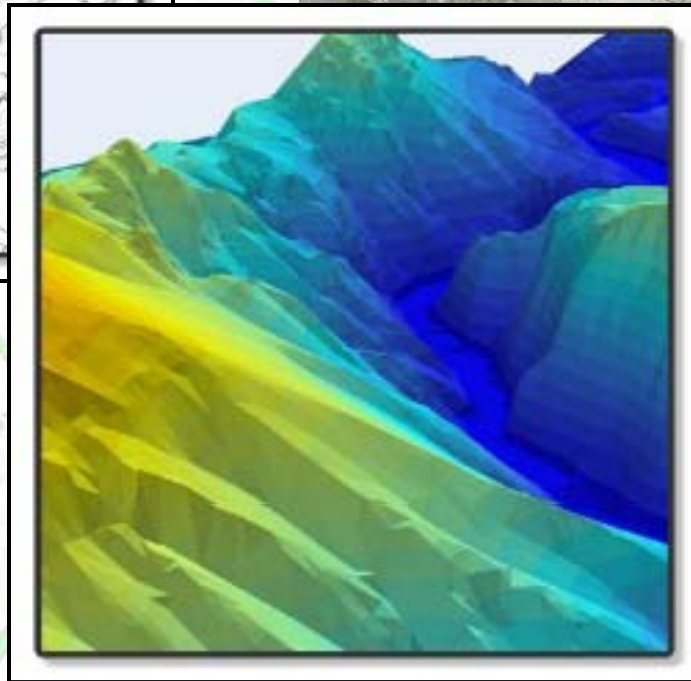
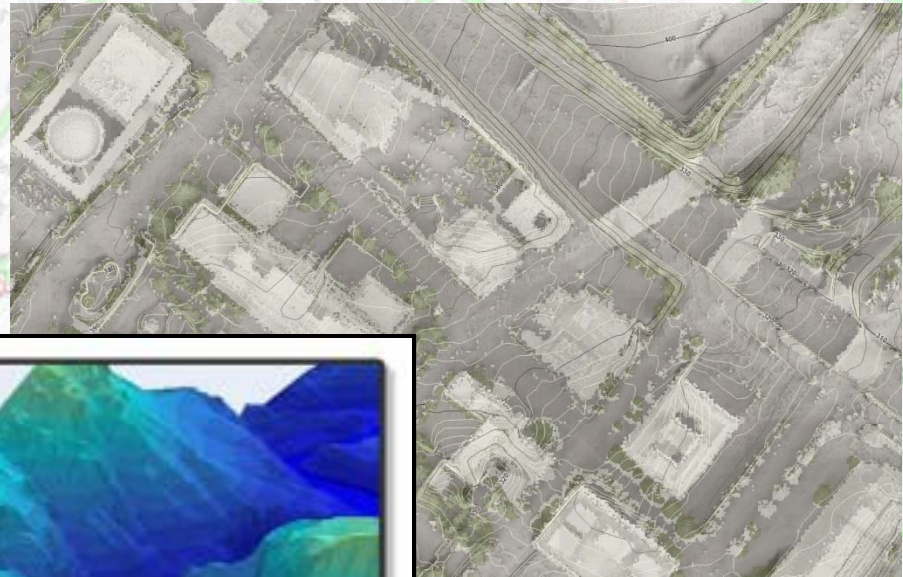
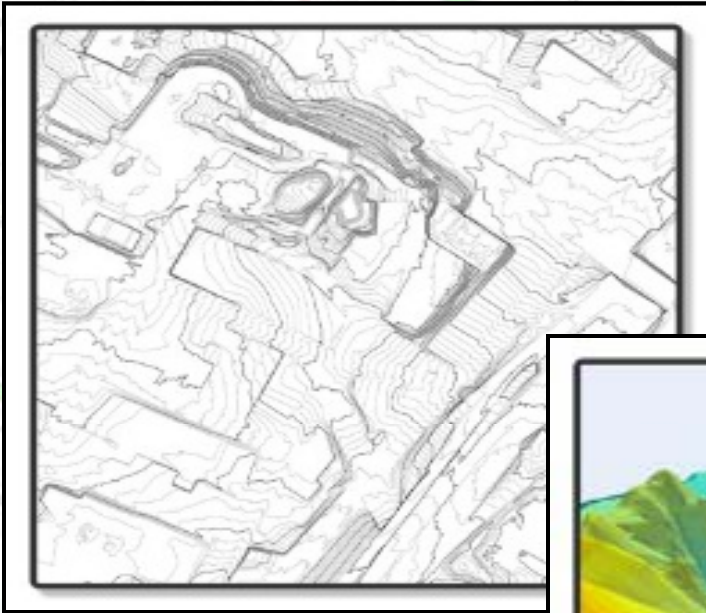
Oblique Imagery

- Also known as “birds eye”



Elevation Data

- Contours, buildings, surfaces



LAR-IAC Structure

- LA County
 - Executes and manages contracts.
 - Organizes meetings and provides support.
 - The single point of contact for LAR-IAC.
- Participants (including LA County)
 - Provide funding to support the project
 - Provide members for the Technical Advisory Group (TAG) to review details.
- Project Vendors
 - Provide expertise and capabilities to get the job done.

LAR-IAC Team Structure

LA County

Mark Greninger, CIO
Project Director

Nick Franchino, DRP
Outreach Manager

Project Vendors

Pictometry
Sanborn
Dewberry

Participants

Cities
Departments
Agencies

Technical Advisory Group
Composed of LAR-IAC
Participants

36 Cities

#	Cities	LAR-IAC 1	LAR-IAC 2
1	City of Agoura Hills	x	
2	City of Azusa	x	x
3	City of Beverly Hills	x	x
4	City of Burbank	x	x
5	City of Carson	x	x
6	City of Cerritos	x	x
7	City of Claremont		x
8	City of Covina	x	x
9	City of Culver City	x	x
10	City of Diamond Bar	x	x
11	City of Downey	x	
12	City of El Segundo	x	x
13	City of Glendale	x	x
14	City of Hermosa Beach	x	x
15	City of Industry	x	x
16	City of Inglewood	x	x
17	City of Irwindale	x	x
18	City of La Canada Flintridge	x	x
19	City of La Habra Heights	x	x
20	City of Lakewood	x	x
21	City of Lancaster	x	
22	City of Long Beach	x	
23	City of Los Angeles	x	x
24	City of Manhattan Beach	x	x
25	City of Monrovia	x	
26	City of Monterey Park	x	x
27	City of Palmdale	x	
28	City of Pasadena	x	x
29	City of Redondo Beach	x	x
30	City of Santa Clarita	x	x
31	City of Santa Fe Springs	x	
32	City of Santa Monica	x	x
33	City of South El Monte	x	x
34	City of Torrance	x	x
35	City of Westlake Village	x	
36	City of Whittier	x	x

22 Departments and Agencies

#	Agencies	LAR-IAC 1	LAR-IAC 2
37	County Agricultural Commission/Weights and Measures	x	x
38	County Chief Executive Office	x	x
39	County Department of Beaches & Harbors	x	x
40	County Department of Health Services	x	x
41	County Department of Parks & Recreation	x	x
42	County Department of Public Health	x	x
43	County Department of Public Works	x	x
44	County Department of Regional Planning		x
45	County Fire Department		x
46	County Internal Services Department	x	x
47	County Office of the Assessor	x	x
48	County Public Library		x
49	County Registrar-Recorder/County Clerk	x	x
50	County Sheriff's Department		x
51	Alameda Corridor Transportation Authority		x
52	Cal State Los Angeles		x
52	Caltrans	x	
54	LA County Sanitation Districts	x	
55	LARGIN (LA Region Gang Information Network)	x	x
56	Port of Los Angeles	x	
57	Santa Catalina Island Conservancy	x	x
58	US Geological Survey		x

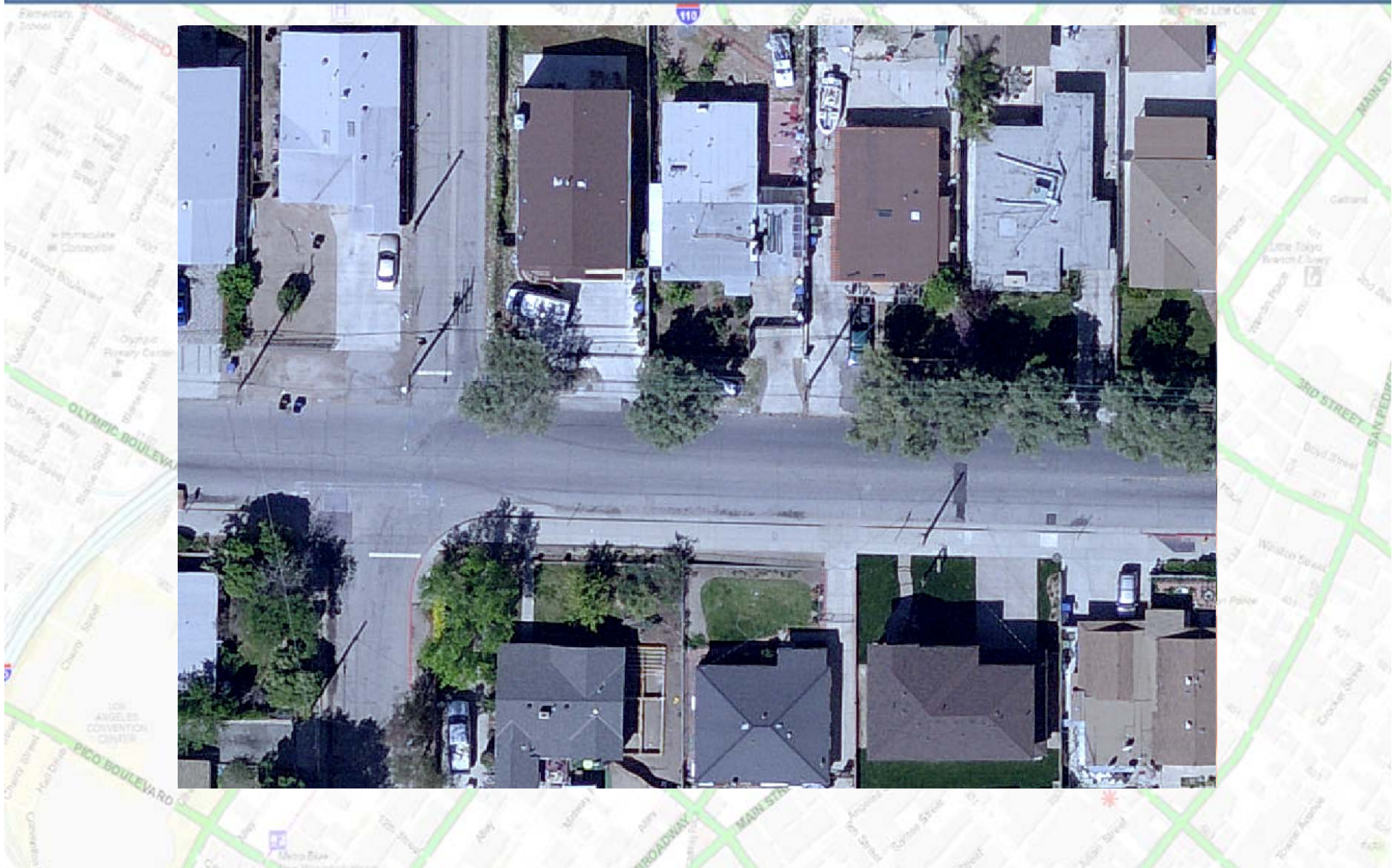
Why LAR-IAC?

- Highest Resolution
- Unparalleled accuracy
- More data
- More tools
- Data Control
- Lower cost
- Shared base information

Highest Resolution

- 4-inch pixel size for urban areas
 - More detail than off the shelf 1 foot data
- See more details
 - Less trips to the field
 - Better management of assets
 - Code enforcement
 - Better support for emergency responders
 - Better support for planning and development
 - Enhanced communication with the public.

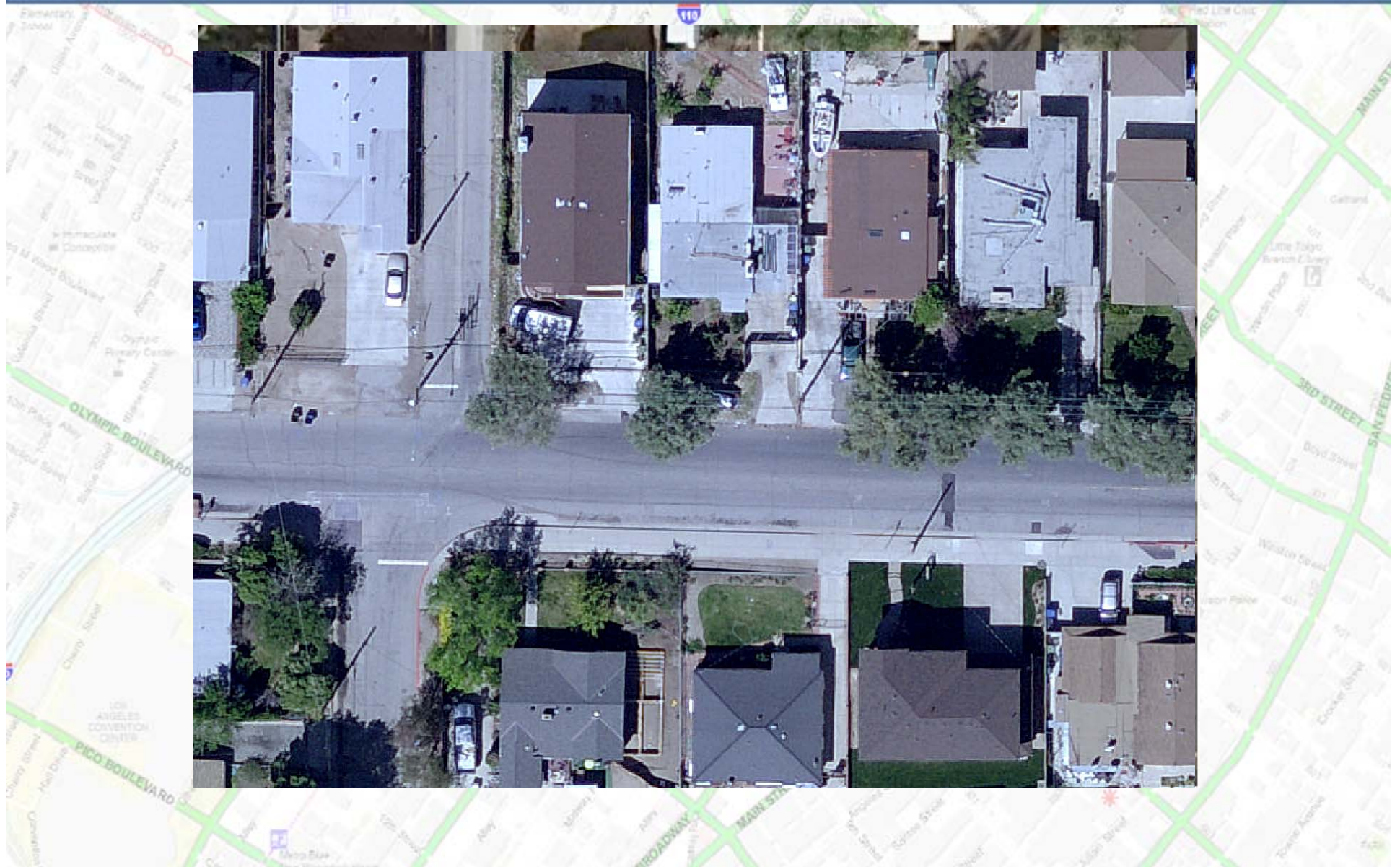
Example



Accuracy

- LAR-IAC ensures accuracy
 - American Society for Photogrammetry and Remote Sensing (ASPRS)
 - Class 1 = +/- 1 foot accuracy (Urban Areas)
 - Class 2 = +/- 2 foot accuracy (National Forest)
 - Separate contract with Dewberry to provide Quality Control
- This isn't a pretty picture.
 - Pre-engineering grade.
 - You can be sure of your measurements.
 - Reduce your project & development costs.
- This isn't a picture from the internet.
 - Sorry Google ...

Example



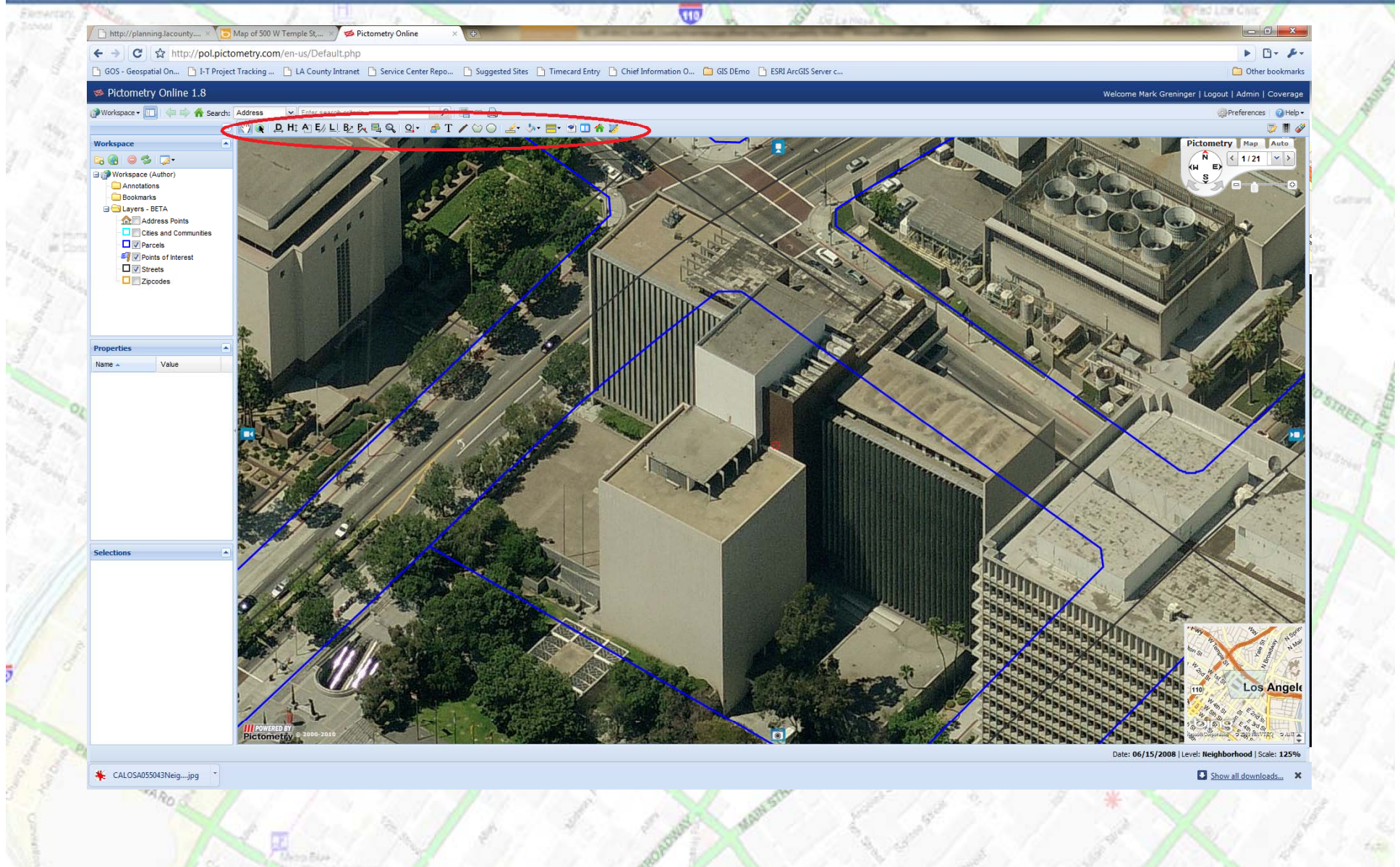
More Data

- LAR-IAC contains the widest range of digital aerial data.
- It forms the basis for most geographic systems.
 - Orthogonal imagery
 - Oblique imagery
 - Elevation data
 - Building Outlines
- All in formats you can actually use (not pictures).

More Tools

- Orthophotography
 - Image analysis, automated change detection.
- Oblique Imagery
 - Measure heights, distances, pitch, etc.
 - GIS Overlays
- Elevation
 - Flood models, slopes, water flow, etc.
- Building Outlines
 - Area, height, density, etc.

Pictometry Online



Control of Data

- You have the data and control it.
 - Unlimited deployment (no per-seat license)
 - Use in Police and Fire vehicles for emergency response.
 - Put in dispatch centers.
 - Provide to planning department
 - Use in Public Works
 - Provide to contractor(s)
 - License for internet viewing.
 - Add to your websites.

Note – the data is under license – it is NOT public domain – this was done deliberately.

Lower Cost

- Costs are shared among all participants.
 - The more participants, the lower the cost.
- Only one flight to acquire data.
- One set of contracts.
- Cost savings for LAR-IAC1 and LAR-IAC2 estimated at over \$10 million.

Shared Basemap

- A standard map for the County
- You are on the same map as your neighbor.
 - Mutual aid benefits
 - Regional development benefits
- All data that is created meets accuracy standards (only do it once).
- Long-term benefits through data sharing.
- A starting point for further integration.
 - Addresses, parcels, etc.

Distribution and Sub-licensing

- Distribution
 - 4-inch orthos can be displayed on the Internet
 - Oblique imagery can be shown on the Internet
 - Note: measurement tools for internal use only
 - 1 foot orthos can be distributed to the Public
- Licensing
 - Participant Agreement
 - Sub-licensing
 - One simplified form to cover all data products for sub-contractors

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

Questions/Comments? (time permitting)



LOS ANGELES REGION
LAR|AC
imagery acquisition consortium



Prepared by:
Los Angeles County