LARIAC

Los Angeles Region Imagery Acquisition Consortium

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Brief history (life before the consortium)

- The County of Los Angeles is home to…
  - County jurisdiction (Unincorporated lands) managed across 35+ departments
  - 88 incorporated cities
  - Hundreds of additional offices representing other government entities including:
    - Water Districts
    - Sanitation Districts
    - Metro
    - Councils of Governments
    - Shipping Ports
    - Airport
    - JPA's
    - and more…
- Prior to LARIAC, data acquisition was a free-for-all!
- Great for the vendors! (lots of potential customers)
- Not great from a data consistency and cost perspective.

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The Problem

- Each entity seeking to obtain data had to develop their own:
  - Data requirements, specifications, and deliverables
  - Call for proposals/bids
  - Proposal review and selection process
  - Contracting and procurement with selected vendor

    [Lots of staff time and resources for each individual project]
- This resulted in acquisitions of varied format, accuracy & precision, resolution, and coverage area.

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LARIAC to save the day!

- As 2006 approached the LARIAC concept was brought to fruition
  - LARIAC 1 brought together 50 partners across the county
  - 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) served as the fiscal agent for procurement and contracting

LiDAR flights

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LARIAC to save the day!

LARIAC 1	LARIAC 2	LARIAC 3	LARIAC 4	LARIAC 5	LARIAC 6	LARIAC 7
2006	2008	2011	2014	2017	2020	2023
$5.72M	$4.89M	$2.90M	$4.65M	$2.83M	$4.20M	$4.5M (est)
50 Partners	44 Partners	66 Partners	83 Partners	74 Partners	74 Partners	
35 cities	29 cities	36 cities	42 cities	37 cities	34 cities	
9 Co Depts	7 Co Depts	22 Co Depts	29 Co Depts	31 Co Depts	31 Co Depts	
6 Others	8 Others	6 Others	12 Others	9 Others	9 Others	

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Benefits

- Savings of 30-40% of hard costs
- Savings of 60-80% of overhead for costs
- Estimated cost savings of over $10 million in first two iterations (LARIAC 1 and 2).
- Payments spread through each cycle.
- Unprecedented spatial accuracy and resolution with image pixels in their true location.
- Independent QA/QC process
- Sharing of best practices and technical “know-how” among partners.
- Consistent, repeated acquisitions offers ability to assess change over time.
- Single datasets used across jurisdictions.
- Delivery of complete tiles.
- Multiple derived products.

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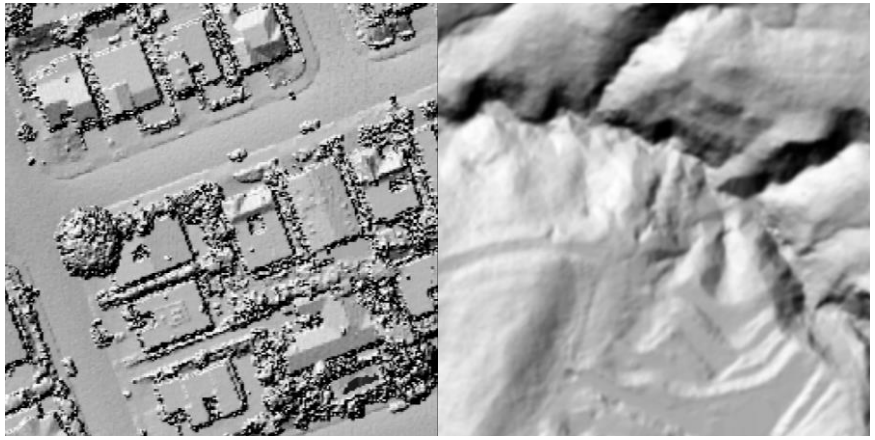
1st LIDAR acquisition

- In 2014 LARIAC entered into a BAA with USGS for acquisition of QL2 data
  - 1st countywide LiDAR collection
  - Products included point cloud, DSM, DTM, and derived contours



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LARIAC 7 planning is well underway

- As of today:
  - 39 external organizations have committed to participate in LARAIC 7 (more to come)
  - Projected budget of $4.25M
  - Technical Advisory Group has held six meetings to establish parameters for deliverables
  - SOWs are currently in development for posting this summer

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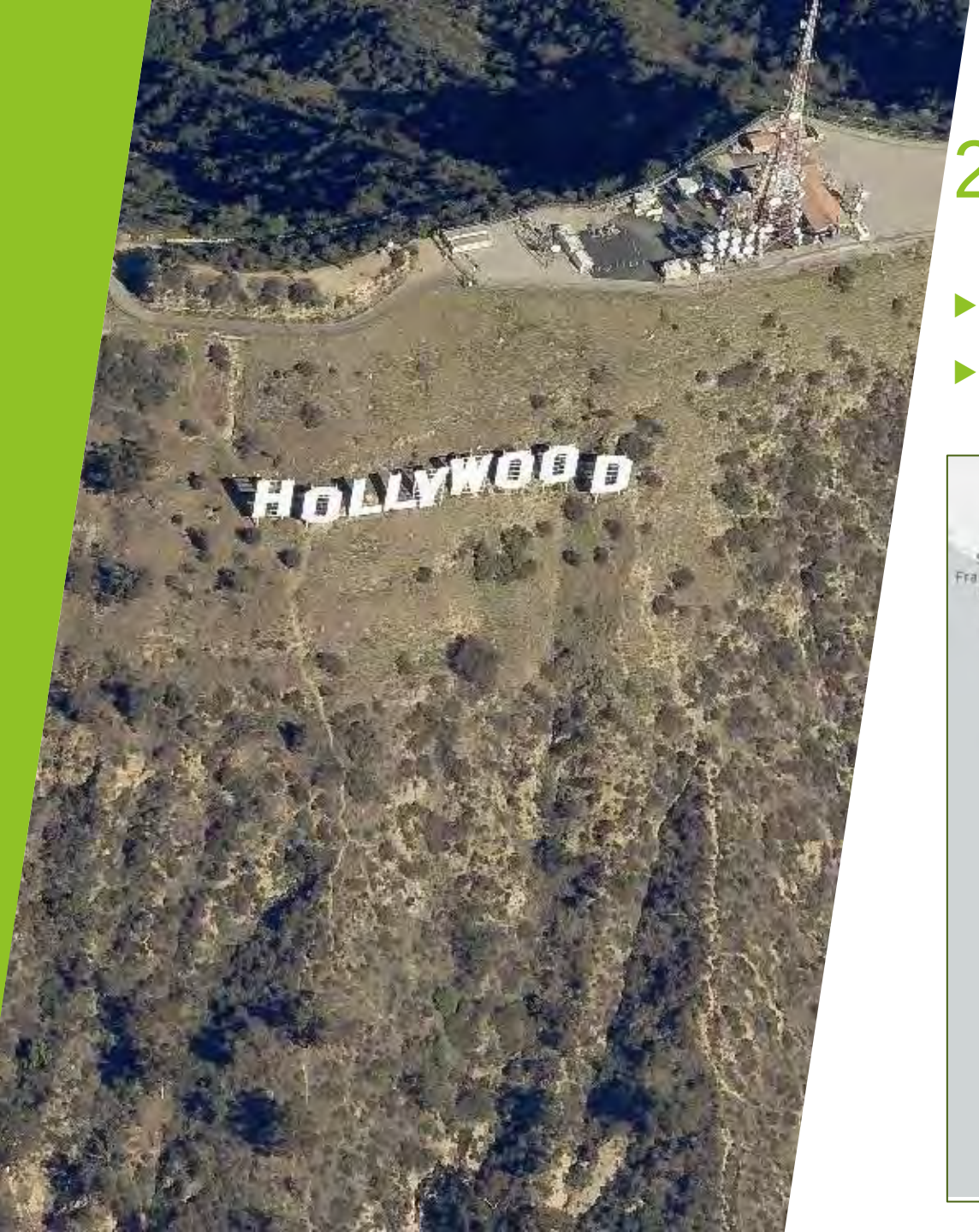

2nd LIDAR acquisition

- A 2023 acquisition of QL1 data is planned
- LARIAC is working with AlertWildfire to build a SoCal coastal consortium

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Lessons learned through LARIAC

- Others around the nation have since followed the LARIAC model for regional data acquisition
- LARIAC is looking to extend this model to other data sources and collaboration across the County and with our partners
- Collaboration pays!

…or more correctly…
COLLABORATION SAVES!

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Thank You!

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