2024 LiDAR and Aerial Imagery Updates

GDW August 7th, 2024



2024 Lidar Program

- Point density of 8 pls/m2 for >11,500 mi2
- Funds committed by fifteen (15) cost-share member organizations for a total of \$1,764,480.
- Federal contributions through USGS' Data Collaboration Announcement (DCA) for a total of \$1,064,255.
- Total program value \$2,828,735.

Cost-Share Partner Organizations

Harris County Flood Control District
Harris County Engineering

Liberty County

Fort Bend County

Galveston County

Brazoria County

Waller County

Austin County

City of Houston

City of Pearland

City of Huntsville

Friendswood

Port of Houston

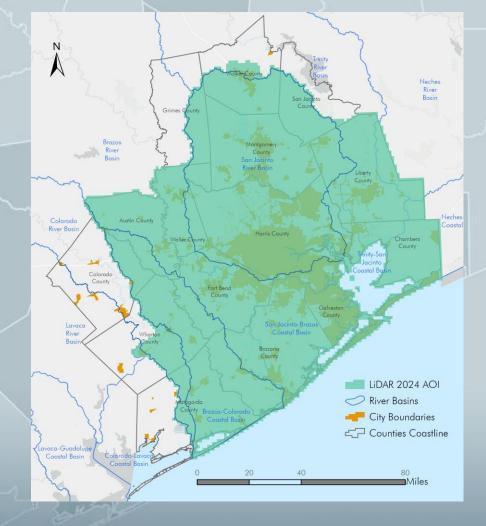
Rice University

City of Wharton

City of Webster

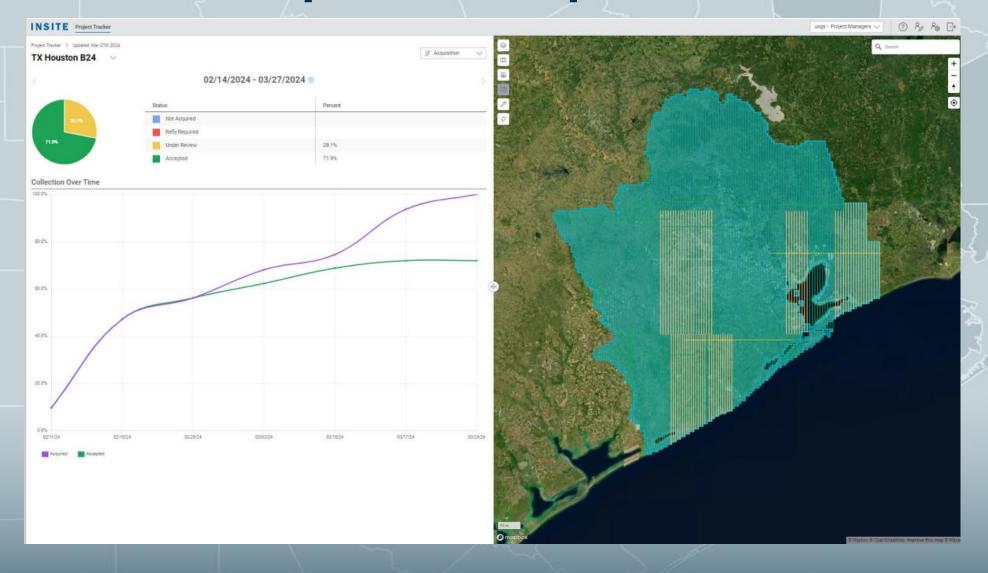
City of Missouri City

Houston Advanced Research Center





Acquisition Updates





Project Updates

Deliverable Description	% of Task Order	Complete	Compound	Due
Lot 1 - Kick Off Meeting	3%	100%	3%	3/31/2024
Lot 2 - Acquisition Updates	3%	100%	3%	5/31/2024
Lot 3 - Lidar Acquisition	40%	100%	40%	5/31/2024
Lot 4 - Ground Control Survey	7%	100%	7%	5/31/2024
Lot 5 - Vector Data for Data Validation	2%			7/15/2024
Lot 6 - Pilot Data	5%			7/30/2024
Lot 7 - Preliminary Data Delivery to Funding Stakeholders	5%			11/27/2024
Lot 8 - AOI Delivery	20%	5%	1%	5/31/2025
Lot 9 - Sixteen (16) Copies	5%			12/31/2025
Lot 10 - USGS Final Acceptance	10%			1/30/2026
	100%		54%	



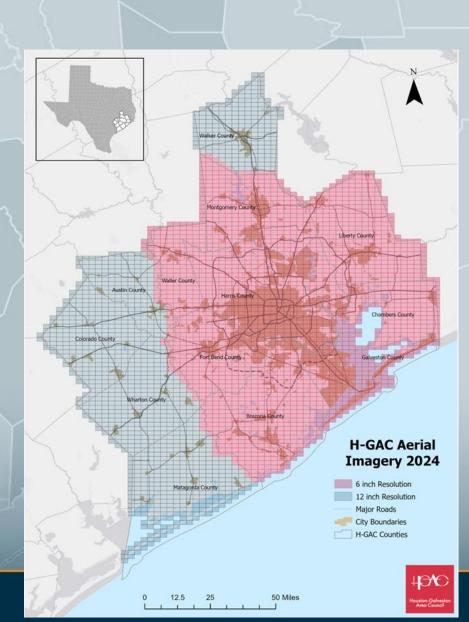
Aerial Imagery Cost-Share Program - 2024

- Cost-Share Procurement
- On-prem 4-Band Imagery (RGB+IR)
- **6 & 12**"
- Total cost: ~\$630k
- Cost per tile (4 mi²)

2024 6 Inch CIR & RGB Tiles	2024 6 Inch CIR & RGB Cost
1-15	\$5,000
16-30	\$9,000
31-60	\$15,000
61-250	\$18,000
251-600	\$22,000
601-2,234	\$37,000
2,235-3,473	\$49,000

Cost-Share Partners

- Brazoria County Engineering
- City of Pearland
- City of Sugar Land
- City of Houston
- City of Webster
- City of Manvel
- City of Friendswood
- City of Jersey Village
- City of La Porte
- City of Lake Jackson
- Greater Harris County 9-1-1 Emergency Network
- Harris County Flood Control District
- Harris County Toll Road Authority
- North Harris County Regional Water Authority
- Texas Department of Transportation
- Houston Metro
- Rice University



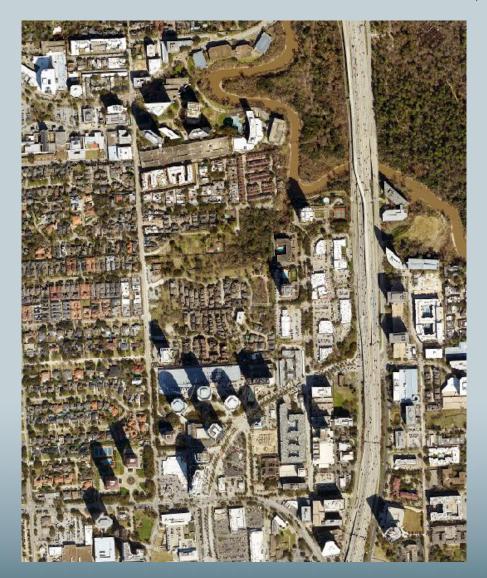
Timeline

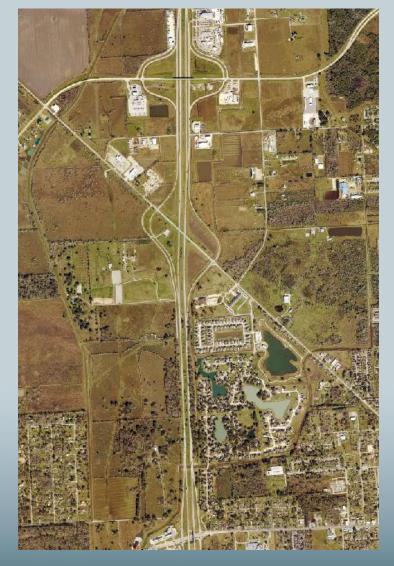




Pilot Data Review

6-inch Urban and Suburban samples







Sample Reviews





Contrast Stretch



2024

Pixel value stretch

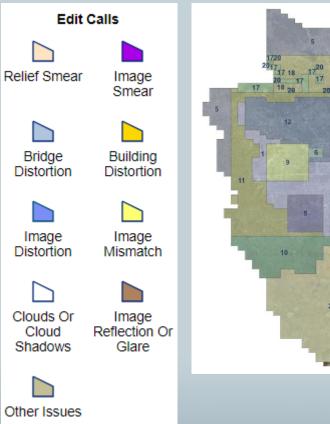
Linear Alignments

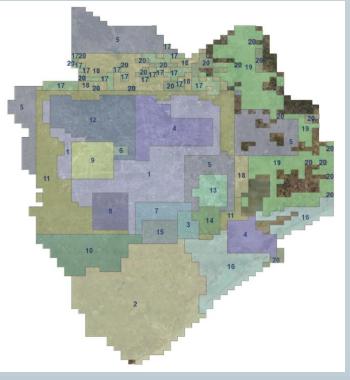


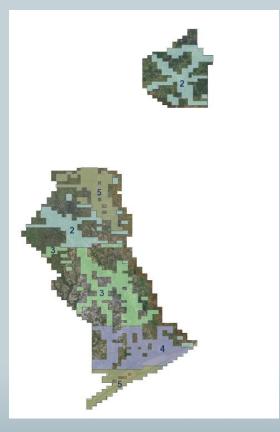
QAQC - SurCheck Tool

- 6-inch 17 Zones
- 12-inch 5 Zones
- Cost-share partners will get log in for each zone to review

Invoices are issued.

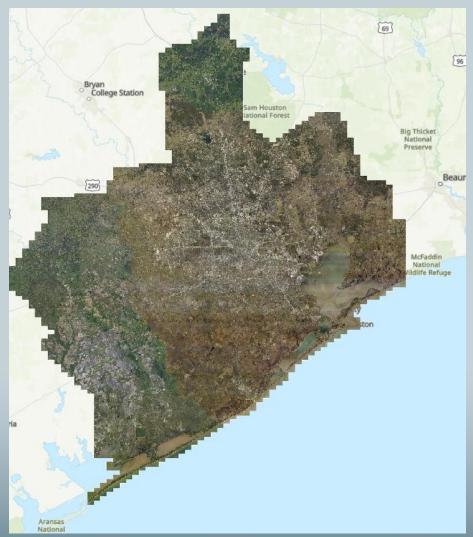


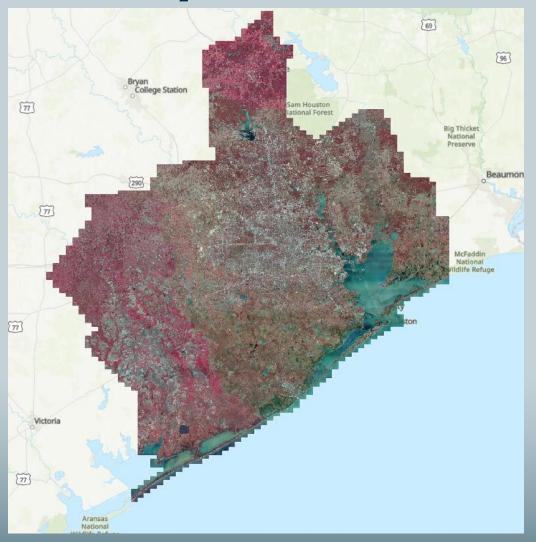






Final Delivery







Final Delivery

- 2024_H-GAC_6-inch_Tiles-Mosaics
 GeoTIFF_Tiles
 - D 3371.tif

 - D 3373 tif
- ▲ Image: MrSID_Per-Partner_Mosaics
 - Brazoria_Co_Engineering.sid
 - Friendswood.sid
 - Greater_Harris_Co_Flood_Control_District.sid
 - Harris_Co_Flood_Control_District.sid
 - ▶ HGAC_6inch.sid
 - ▶ 🔛 Houston.sid
 - Houston_Metro.sid

 - D 🔛 LaPorte.sid
 - Manvel.sid
 - North_Harris_Co_Reg_Water_Authority.sid
 - Pearland.sid
 - Rice_University.sid
 - D Sugarland.sid
 - ▶ Webster.sid

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 BB_Surcheck
 □ □ P3300148s1GP
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