

From Satellite Data to Shared Situational Awareness

2026-10-01

Žygimantas Saruolis

Geospatial Imagery Product Manager

We

hnit•baltic



Over 30 years in Lithuania

Over 20 years in the Baltics.

A team of ~100 specialists

More than 500 clients across the Baltic States

Compliant with the highest ISO quality and security standards



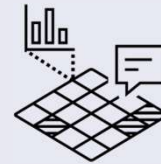
Our Activities:



ArcGIS
software



GIS data



GIS/IT
systems



Training and
consulting

Our commercial satellite imagery partners



Daily global satellite monitoring

ICEYE

Radar imagery in all
weather conditions

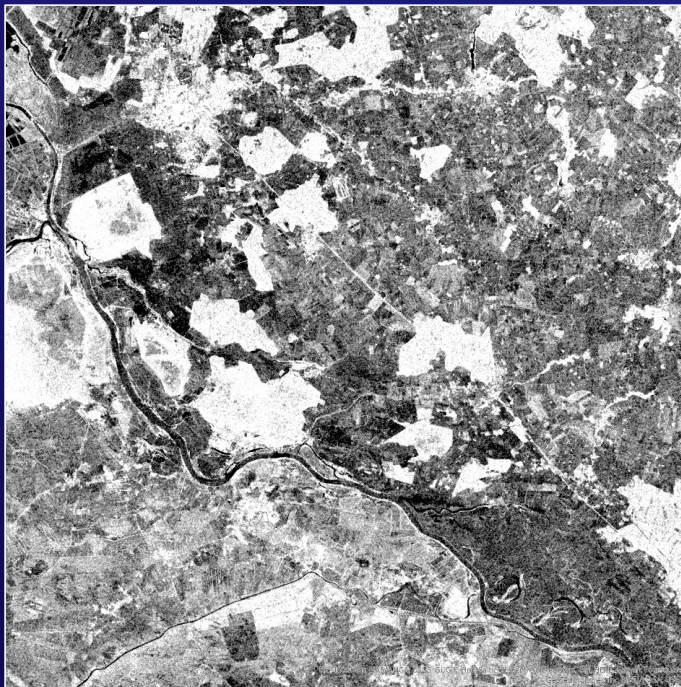
AIRBUS

Highest-resolution satellite
imagery

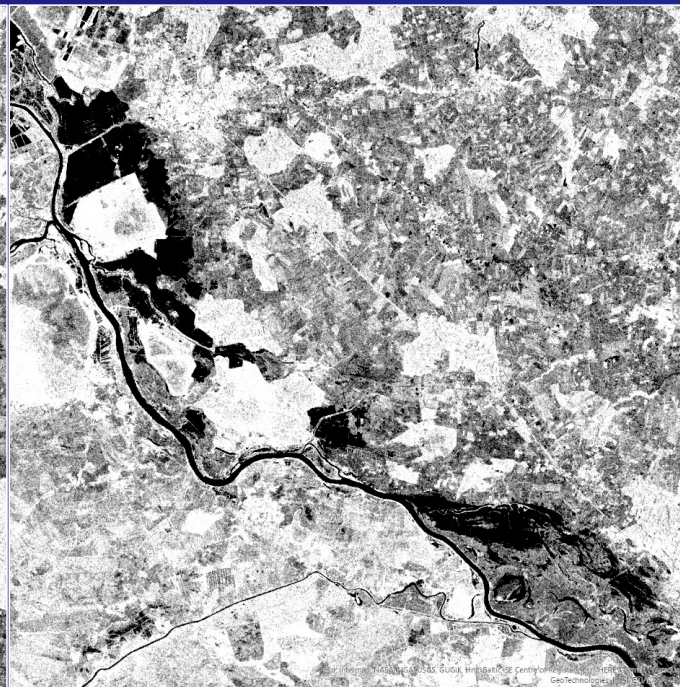
What can space data contribute to prevention, preparedness, response, and recovery?

Flood mapping

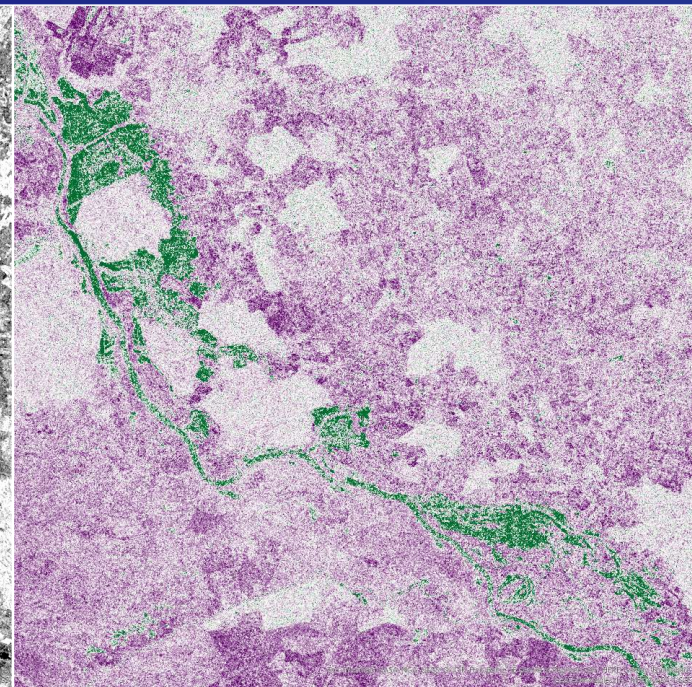
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Sentinel-1 image 2022-12-24



Sentinel-1 image 2023-01-05



Green indicates flooded areas

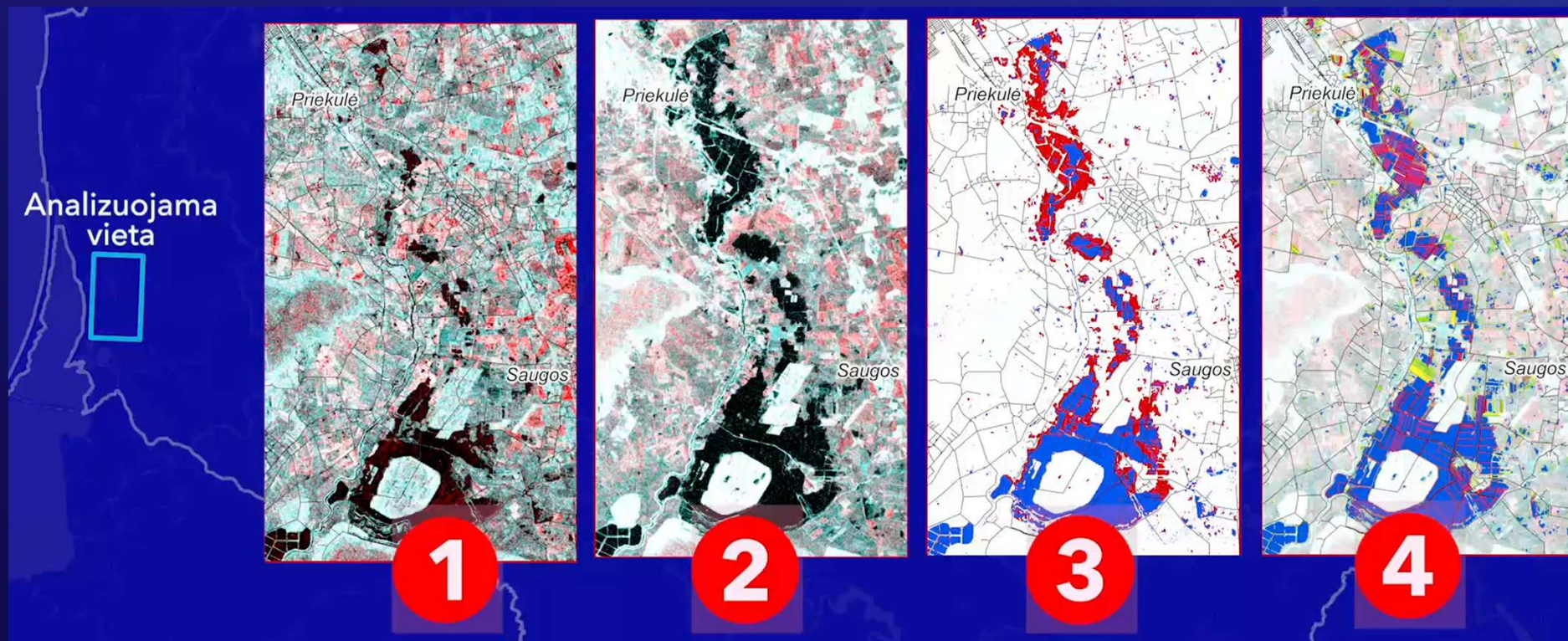
Preparedness, response, recovery.

Flood mapping (Sentinel-1)

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- Lithuania, 2025-01-01
- Flood extent 14 km².
- 463 parcels covered by floods by more than 80 % area



Prevention. Fire hazards with AI + Imagery

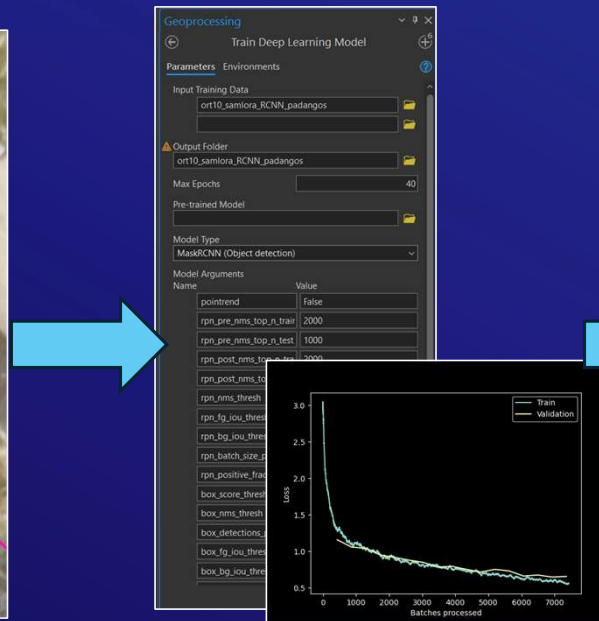


Fire at the Alytus Tire Recycling Plant, 2019-10-16.

Prevention. Fire hazards with AI + Imagery



Tire stacks

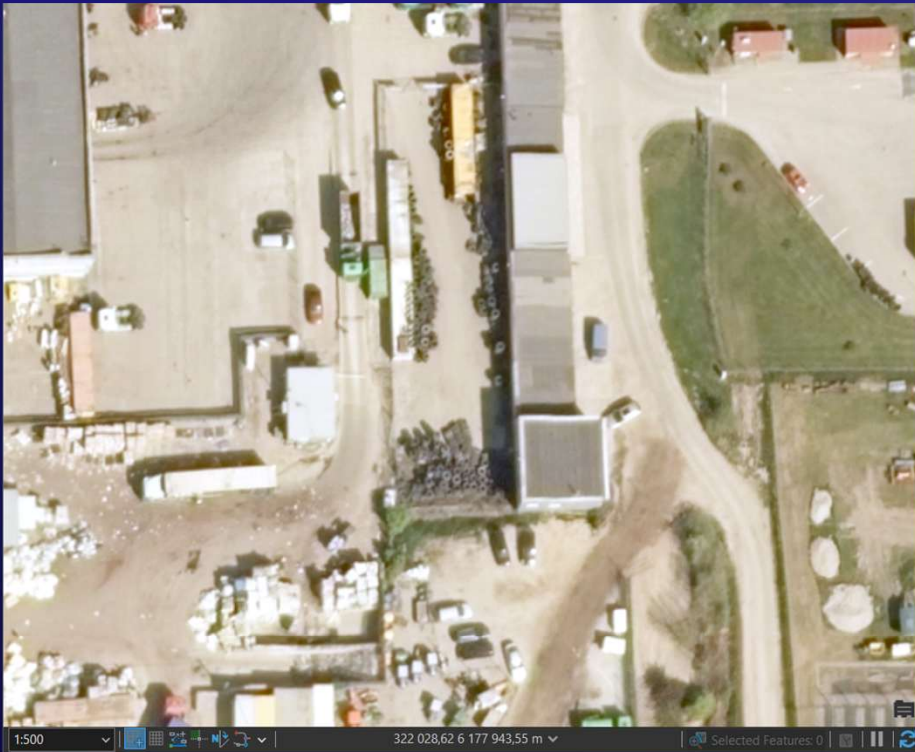


Training an AI model

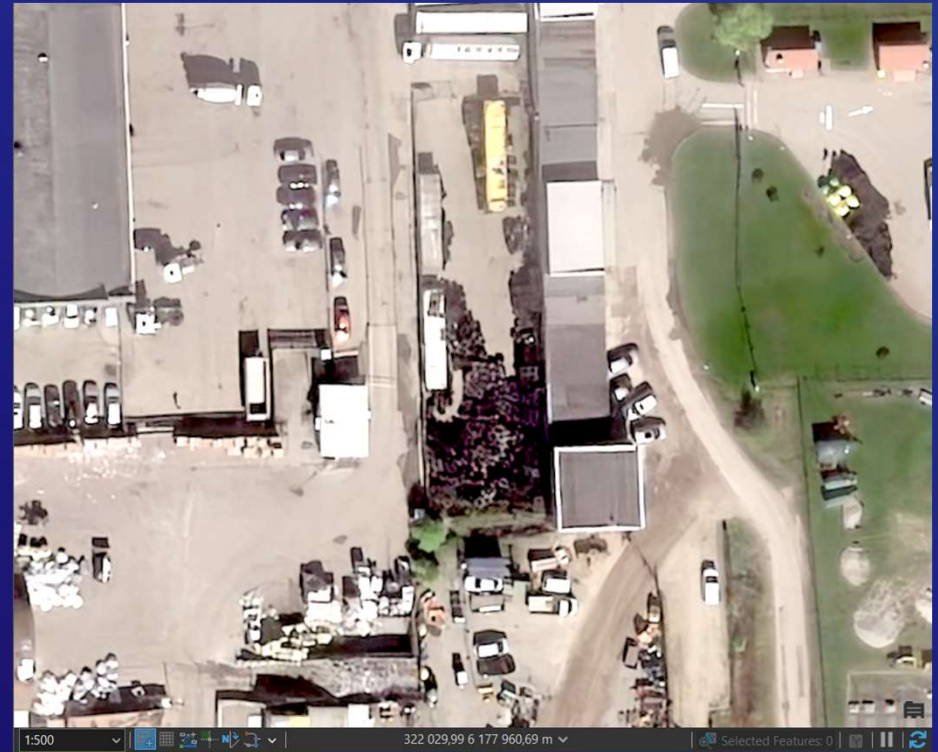


Model to segment/identify tire stacks

Prevention. Risks/fire hazards



ORT10 Aerial 20 cm, 2022



Pléiades Neo 15 cm, 2025

Gas explosion in Vilnius on 2025-09-10



Source: Lithuanian Radio and Television (LRT)

5 months before explosion (Pleiades, 2025-04-03)

AIRBUS OneAtlas Data 3326 € left Living Library & Analytics zsaruolis@hnit-baltic.lt

Archive Imagery

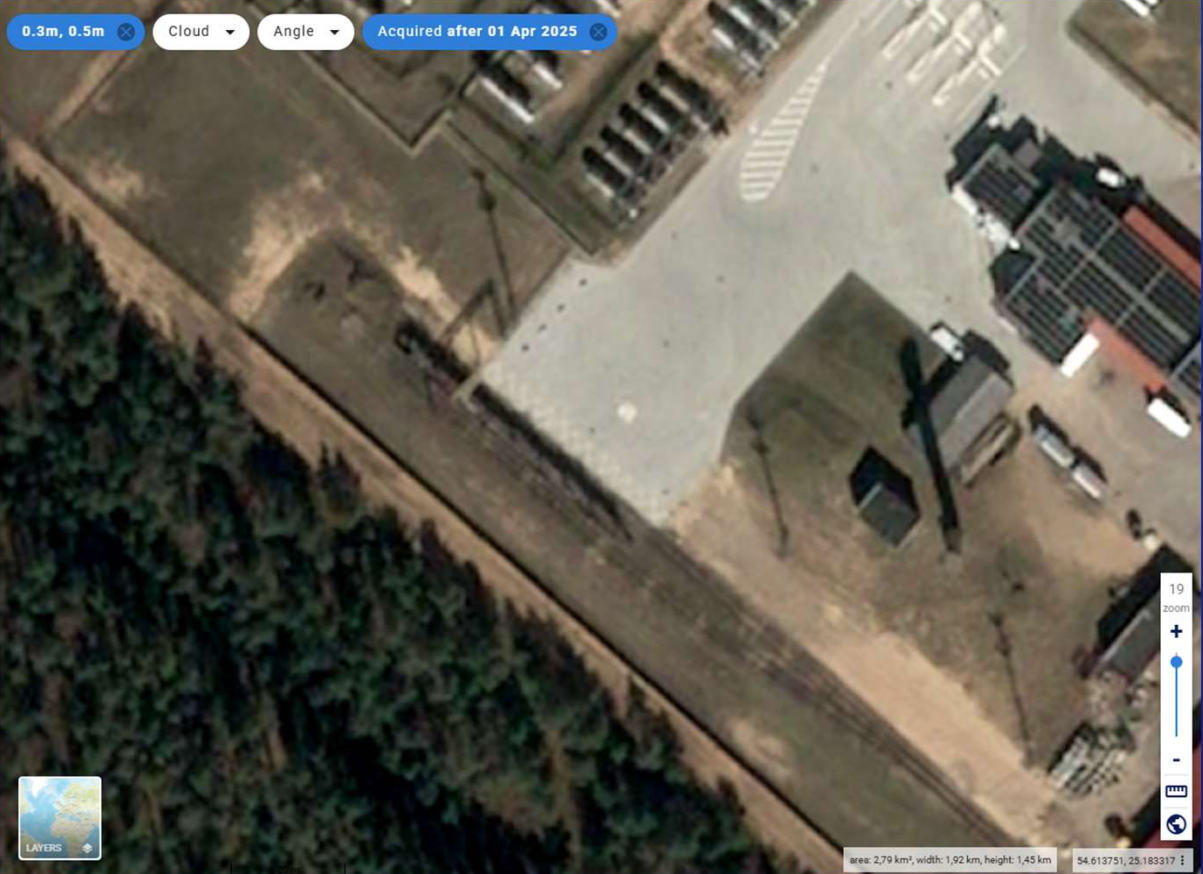
Segment ID(s)

3 items ☒ Ready-to-use imagery

Most recent first

	18 Jun 2026 09:22 Pleiades Neo 0.3m 18° ☁ 0%	100% covered (2.79 km²)	   
	15 Apr 2026 09:37 Pleiades 0.5m 6° ☁ 0%	100% covered (2.79 km²)	   
	03 Apr 2025 09:37 Pleiades 0.5m 9° ☁ 0%	100% covered (2.79 km²)	   

0.3m, 0.5m ☒ Cloud ☐ Angle ☐ Acquired after 01 Apr 2025 ☒



19 zoom

area: 2,79 km², width: 1,92 km, height: 1,45 km 54.613751, 25.183317

 LAYERS

8 months **after** explosion (Pleiades, 2026-04-15)

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Archive Imagery

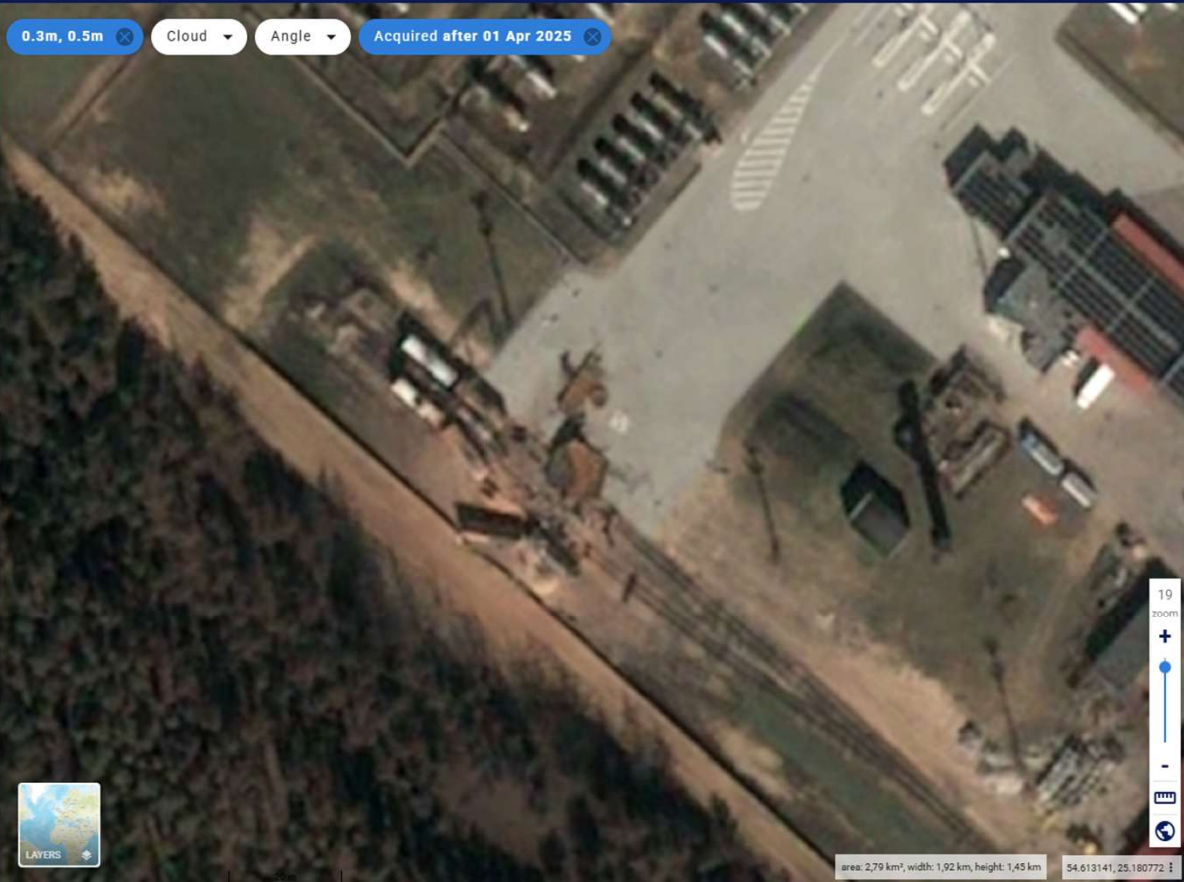
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0.3m, 0.5m **Cloud** **Angle** **Acquired after 01 Apr 2025**



19 zoom  

area: 2.79 km², width: 1.92 km, height: 1.45 km 54.613141, 25.180772

Recovery. Damage assessment (Airbus 2026-06-18)

AIRBUS OneAtlas Data 3326 € left Living Library & Analytics zsaruolis@hnit-baltic.lt

Archive Imagery

Segment ID(s)

3 items Ready-to-use imagery

Most recent first

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0.3m, 0.5m **Cloud** **Angle** **Acquired after 01 Apr 2025**

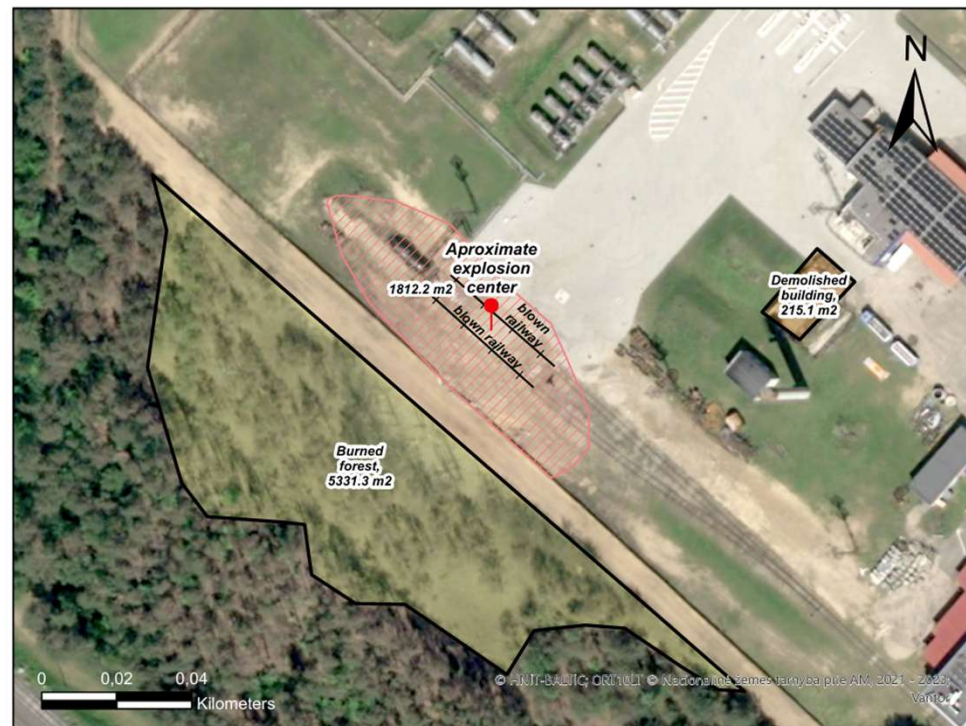
19 zoom **+** **-** **Layers**

area: 2.79 km², width: 1.92 km, height: 1.45 km 54.612828, 25.180817

Recovery. Damage assessment (Airbus 2026-06-18)

DAMAGE ASSESSMENT REPORT

Gas explosion | Vilnius, Lithuania



ASSESSMENT SUMMARY

Event: Gas explosion
Location: Vilnius, Lithuania
Image date: 2026-06-18
Assessment date: 2026-09-28
Analyst: Ž. Saruolis

Key Indicators

Affected structures: 1
Affected building area: 215.1 m²
Burned forest area: 5331.3 m²
Road access: open

Legend

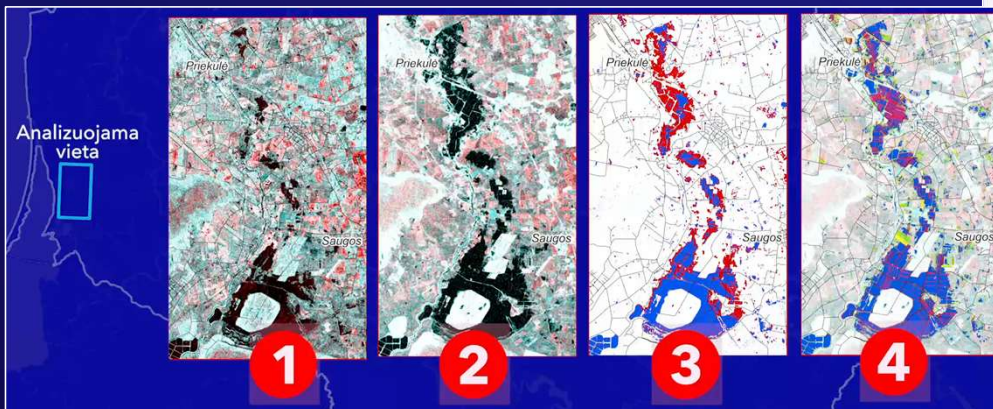
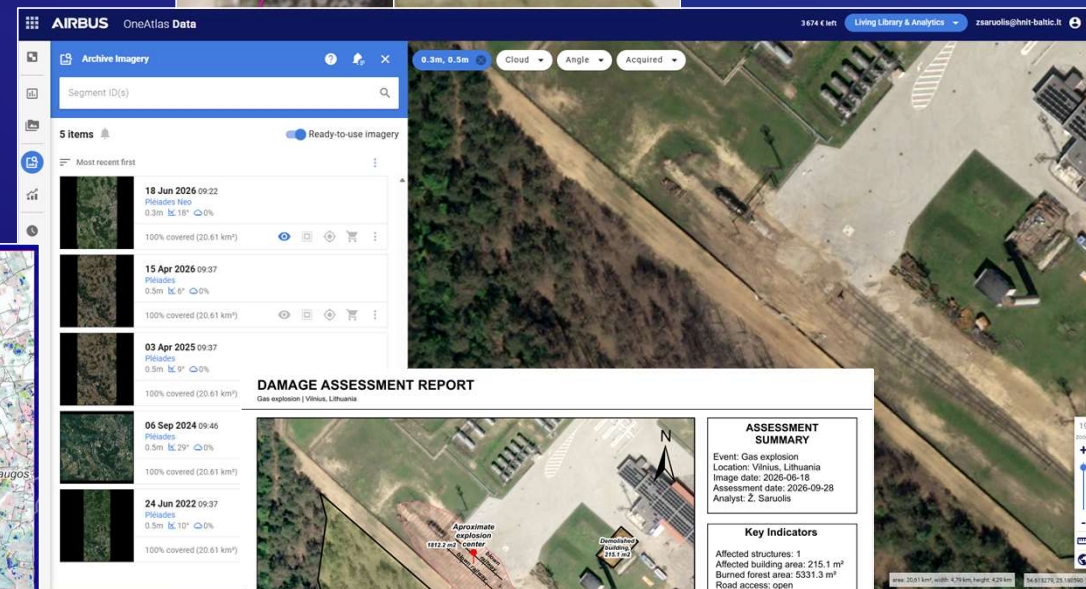
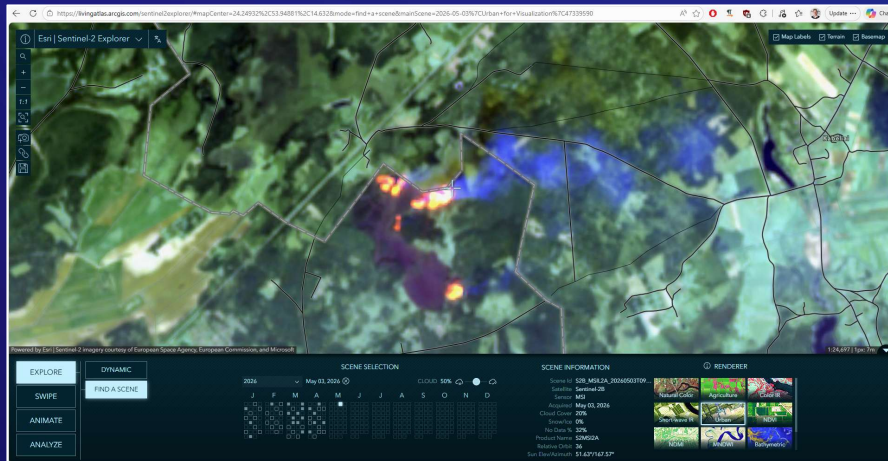
- Approximate explosion center
- blown railway
- Burned forest
- Demolished building
- Probable blast zone

INTERPRETATION NOTES

Damage indicators should be validated with field observations. Boundaries and counts represent image-based interpretation only.

SOURCE

Imagery: AIRBUS PLEIADES NEO
CRS: Projected Coordinate System WGS 1984
UTM zone 35N



DAMAGE ASSESSMENT REPORT

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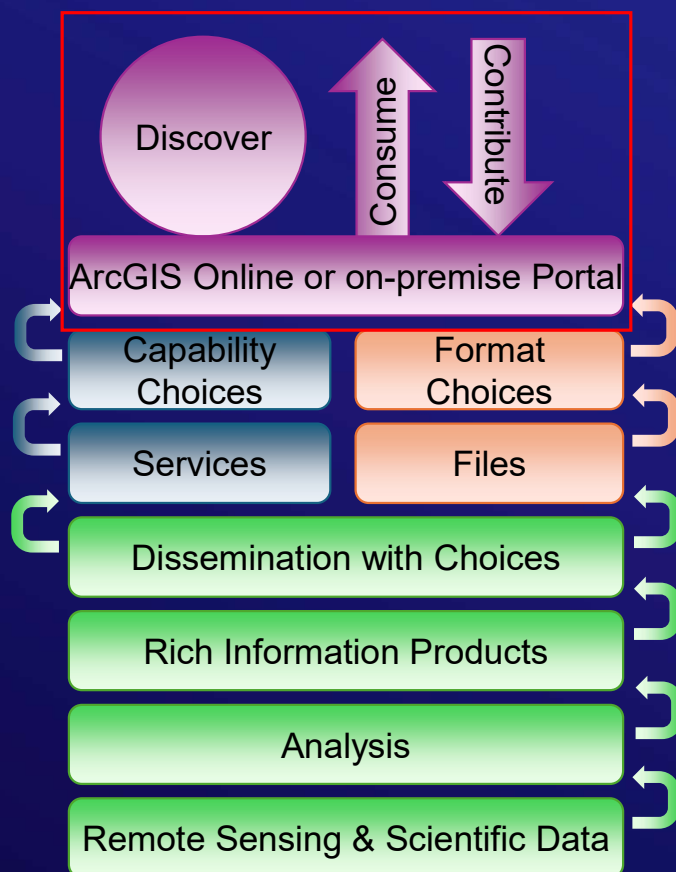
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ArcGIS is a Collaboration Platform



00:00:02:09

LRT Baltarusijoje kilus miško gaisrui, p...

https://www.lrt.lt/naujienos/lietuvoje/2/2917014/baltarusijoje-kilus-misko-gaisru-perspėjama-apie-padidejusia-oro-tarsa-varenos-rajone

InPrivate

Menu

LRT | .lt

Paieška

Lietuvoje 2026.05.03 08:20

Baltarusijoje kilus miško gaisrui, perspėjama apie padidėjusią oro taršą Varėnos rajone

atnaujinta 08:53

LRT RADIJAS, LRT.lt
2026.05.03 08:20



Thank you!
Žygimantas Saruolis

*A guide for an app where you can explore global disasters via imagery.

