

A satellite image of a mountainous region with a large reservoir and a dam. The terrain is rugged and green, with a large body of water in the center. A dam is visible on the left side of the reservoir. The text is overlaid on a dark semi-transparent rectangle in the center of the image.

SATELLOGIC[®]

**NASA CSDA Program
Vendor Focus
Satellogic**



SATELLOGIC®

Democratizing Earth Observation
Satellogic makes high-resolution,
high-frequency Earth Observation data
affordable and accessible at global
scale.

**We are creating a Searchable Earth
that empowers better decisions and
helps tackle critical challenges
including food security, climate
change, and sustainable energy.**

COMPANY OVERVIEW



The first vertically integrated geospatial company delivering sub-meter resolution at planetary scale.



US-Domiciled

HQ in Charlotte, NC



NASDAQ: SATL

Publicly traded



55+ Satellites

Launched with 100% Success Rate



14+ Years

Launch and Operational Heritage

TIMELINE:



2010

Founded



2013

First satellite launched



2020

Constellation operational



2022

Listed on NASDAQ (SATL)



2026

55+ satellites launched with 100% success rate

ADVANCING NASA RESEARCH OBJECTIVES

Satellogic for NASA

- NASA CSDA partner since 2024
- Providing high-resolution imagery for Earth science research and environmental monitoring

How Researchers Use Satellogic Data

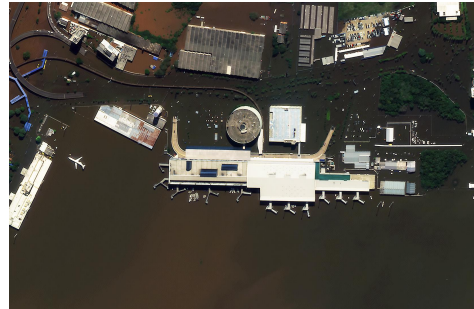
- Detect land-use change over time
- Track climate-related infrastructure risks
- Monitor agricultural productivity and water resources
- Support disaster damage assessment workflows



Hydropower Monitoring - Grand Ethiopian Renaissance Dam, Bameza, Ethiopia



Energy Infrastructure Monitoring - Ruppur Nuclear Power Plant, Bangladesh



Flood Mapping - São Sebastião do Cai, Brazil



Mining Activity Monitoring - The Fimiston Open Pit Mine, Australia

The logo for Satellogic, featuring the word "SATELL" in a light blue sans-serif font, followed by a blue circle containing a white stylized satellite or orbital symbol, and the word "OGIC" in a light blue sans-serif font.

SATELLOGIC

A satellite image of a coastal region, showing a mix of brownish land, green vegetation, and blue water. A large, semi-transparent dark grey rectangle is overlaid on the center of the image, containing the title text.

Satellogic Constellation

TODAY

55 SATELLITES LAUNCHED

Largest Commercial
Constellation of
20 Satellites



FUTURE

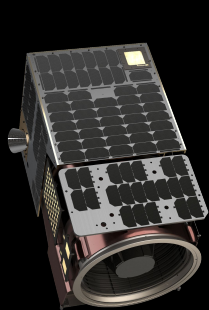
DAILY REMAPS OF THE PLANET

With automated tip
and cue functionality

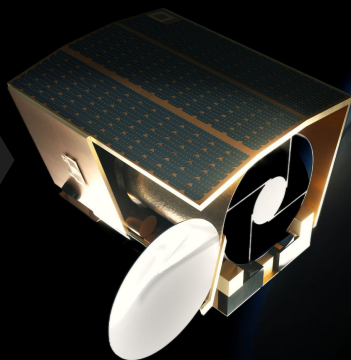
SATELLOGIC'S COORDINATED CONSTELLATION

Providing high-resolution, high-revisit imagery to support global Earth science research and planetary-scale monitoring.

Site Monitoring



NewSat



NextGen

Daily Broad Area Monitoring

1st Launch in 2026



Merlin



NewSat

Mission Highlights:

- Mk-V 50 cm SR, 70 cm native, 6.5 km swath
- Mk-IV 70 cm SR, 99 cm native, 5 km swath
- All bands (RGB-NIR) collected at the same VHR resolution, pansharpener unnecessary
- 50 kg smallsat design, 5 Year Design Life
- > Daily revisit at equator from ~20 satellites

Tasking Cutoff & Delivery Latency:

- Tasking: Up to 6hrs before capture
- Delivery: Up to 3hrs after capture (L1 Basic)



NextGen (In Development)

Mission Highlights:

- 30 cm SR, 45 cm native, 8 km swath
- All bands (RGB-NIR) collected at the same VHR resolution, pansharpener unnecessary
- NextGen will replace NewSat

Tasking Cutoff & Delivery Latency:

- Same as NewSat



Merlin - Launching October

Mission Highlights:

- Daily global monitoring
- 1 Meter GSD
- 11 Bands (Pan+MS - Sentinel-2 Aligned)
- 170 km km swath at nadir
- Best in class aperture/optics - Unique Product

Tasking Cutoff & Delivery Latency:

- Tasking: Systematic Global Collections
- Delivery: Up To 10 mins Delivery (Edge Processed, Intersatellite Delivery)

The logo for Satellogic, featuring the word "SATELL" in white, a blue circle with a white dot inside, and the word "LOGIC" in white. The background is a satellite image of a coastal area with a river, forest, and a city.

SATELL^oLOGIC

Satellogic Data Products

MSI Specifications

Imagery Product	L1 Basic	L1 Ortho-Ready	L1 Ortho	L1 Ortho SR
Pixel Resolution	VARIABLE GSD (NATIVE) 99cm@nadir Mark IV 70cm@nadir Mark V	VARIABLE GSD (NATIVE) 99cm@nadir Mark IV 70cm@nadir Mark V	FIXED GSD 99cm Mark IV 70cm Mark V	FIXED GSD 70cm Mark IV 50cm Mark V
Multispectral bands	Blue: 450 - 510 nm Green: 510 - 580 nm Red: 590 - 690 nm NIR: 750 - 900 nm Check Satellogic's developer's site for detailed spectral response of each satellite			
Radiometric Accuracy TOA	10%			
Geolocation Accuracy	30m CE90 (with GCPs)	10 m CE90 (with GCPs)		
Image Delivery bits/pixel	Top Of the Atmosphere Reflectance (TOA) 16 bits VISUAL 8 bits			
File Format	GeoTiff			
File Compression	LZW lossless			
Image Metadata	ISO and STAC			
Projection	UTM	WGS84	UTM	UTM
Swath Width	5km@nadir Mark IV 6.5km@nadir Mark V			
Full product description	https://developers.satellogic.com/data/processing-levels/l1basic.html	https://developers.satellogic.com/data/processing-levels/ortho-ready.html	https://developers.satellogic.com/data/processing-levels/ortho.html	https://developers.satellogic.com/data/processing-levels/ortho.html

*Specifications stated above are subject to change due to continued iterations for enhancements.



CAL / VAL

Radiometric Cal/Val

Target:
10% radiometric accuracy

In orbit correction

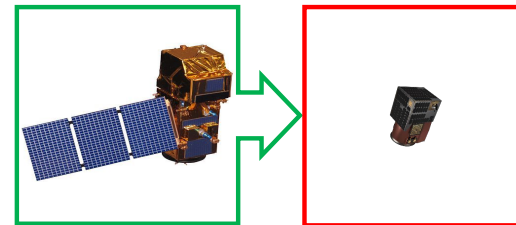
Measured in the lab

$$L_{e,\Omega,\nu} = \frac{NL[DN_{raw}(x,y) - DN_{dark}(x,y)]}{DN_{flat}(x,y)} \cdot \frac{1}{\frac{EA\Omega K}{hc} \cdot \int_{\lambda_0}^{\lambda_1} T_F(\lambda) \cdot T_T(\lambda) \cdot Q_{\lambda} \cdot \lambda \cdot d\lambda}$$

In Orbit cross calibration

Calibrated sensor

Sensor to calibrate

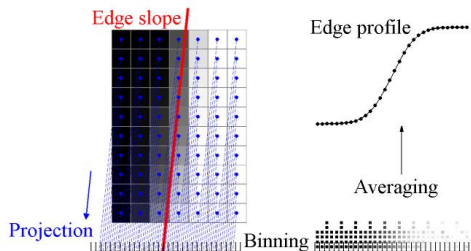
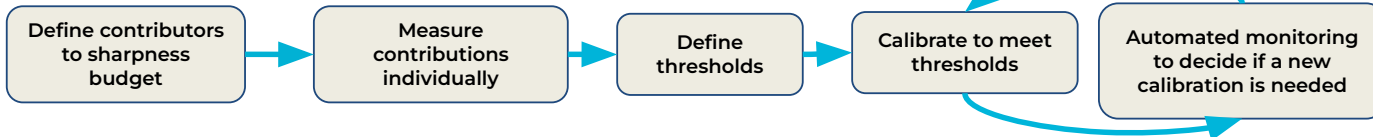


Sentinel 2 (ESA)

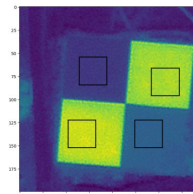
Newsat (Satellogic)

RadCalNet pseudo-invariant calibration sites

Resolution Cal/Val



SNR & Sharpness is monitored
by measuring calibration targets



FLEXIBLE DATA ACCESS & DELIVERY WITH ALEPH

▶ Aleph Platform

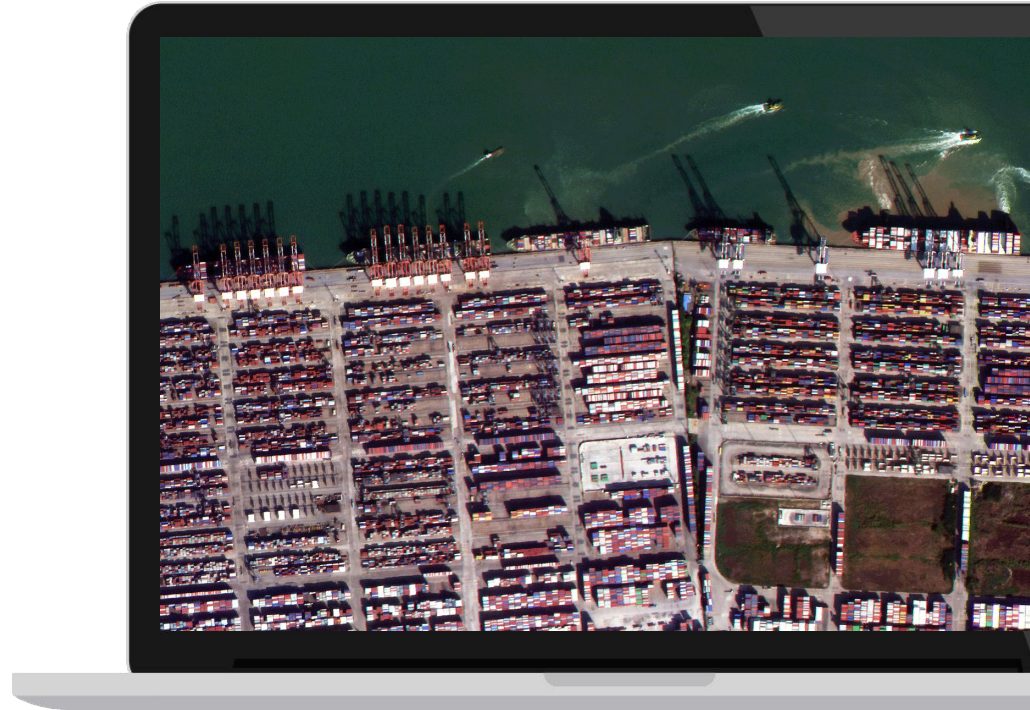
- Web-based platform for discovering and accessing Satellite imagery
- Tools to search, visualize, and analyze satellite data
- Enables researchers to explore imagery across the globe, throughout time

▶ S3 Bucket Delivery:

- Scenes get pushed into an S3 bucket right after processing

▶ Satellogic REST API

- API Key authentication
- Tasking Service for POI and AOI captures, mimics UI capabilities
- Delivery Service to list, search, and download scenes
- [Documentation](#) & API Schemas



LEARNING & RESOURCES

Access the [Satellogic Documentation Center](#) for guides, tutorials, and technical references.

API Documentation

Integration guides, endpoints, and example workflows for working with the Aleph API.

Platform User Guide

Step-by-step tutorials for discovering imagery, placing orders, and managing data in Aleph.

Data Specifications

Detailed information on imagery formats, processing levels, sensor characteristics, and metadata.

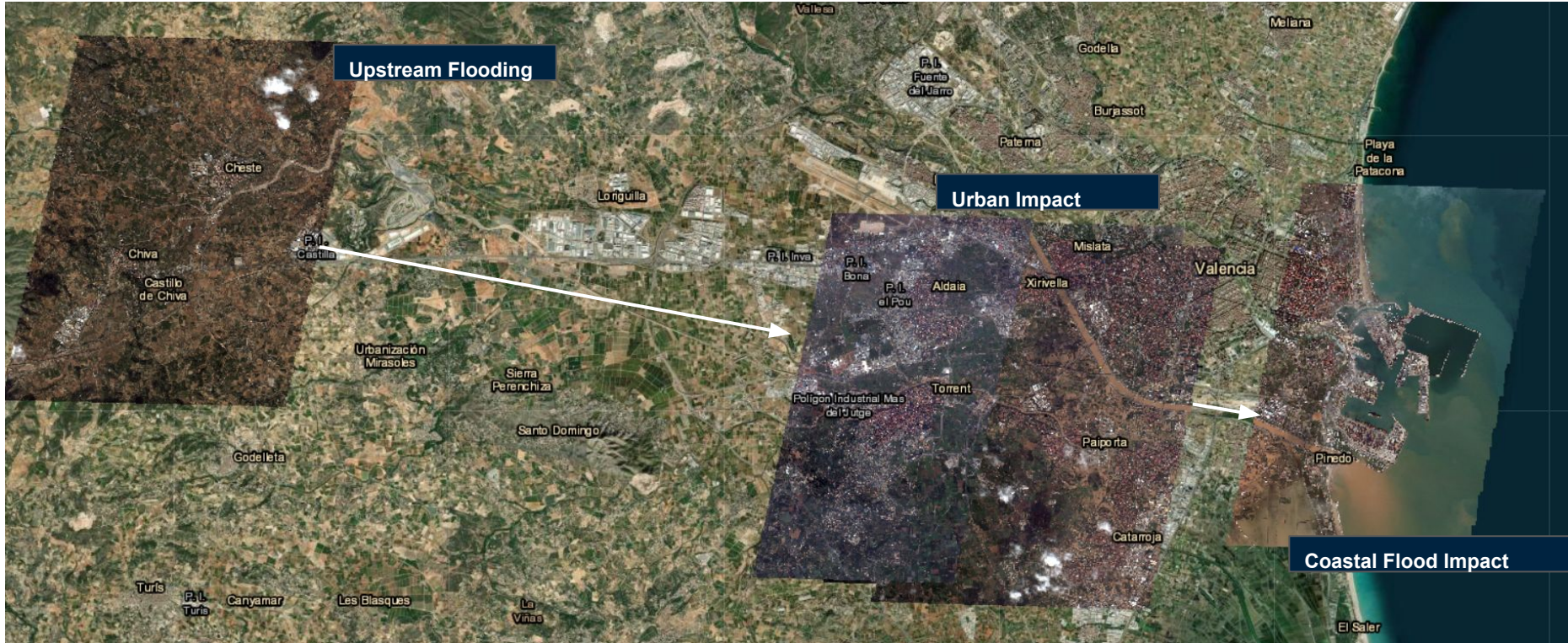
<https://developers.satellogic.com/>

The screenshot shows the 'Multispectral payload' page in the Satellogic Documentation Center. The page has a dark blue header with the Satellogic logo and navigation links for HOME, ALEPH V2, ALEPH V1, API Authentication, and DATA. A search bar is in the top right. On the left, a sidebar menu lists 'DATA' categories: Introduction, Payload specification, Multispectral payload (selected), Hyperspectral payload, Image processing algorithms, Processing Levels specification, Digital Signature, and Data samples. The main content area is titled 'Multispectral payload' and includes a 'Payload design' section. This section explains that Mark IV and V satellites use a camera system capturing images of approximately 1m GSD and a swath width of 5 km and 0.7m and 0.7m respectively, covering wavelength ranges between 450 nm and 900 nm. It also notes that the system uses a closed-loop real-time stabilization system to compensate for earth movement and reduce blur. Below this text are two sets of images labeled 'Mark IV' and 'Mark V', each showing a 4-band spectral stack (Blue, Green, Red, NIR) with a color scale on the right. A 'Table of Contents' on the right lists various technical details like Spectral Response, Spatial Resolution, and Radiometric Calibration.

The screenshot shows the 'Ortho (LID/LID_SR)' page in the Satellogic Documentation Center. The layout is similar to the previous page, with the same header and sidebar. The main content area is titled 'Ortho (LID/LID_SR)' and features a large aerial photograph of a river and surrounding land. Below the image is a 'Product description' section, which states that the LID and LID_SR imagery products are 4-band (RGB+NIR) products designed for accuracy and best of class image quality. A 'Table of Contents' on the right lists details such as Product description, Tics, Technical Specifications, STAC Item, Assets, Item metadata, Packaging specification, Solar and viewing angles, Tso factors, Metadata files, Known issues, Flipped pixel values in RGB enhanced images, Reduced geo-accuracy, Digital Elevation Model (DEM) distortions, and Filter artifacts.

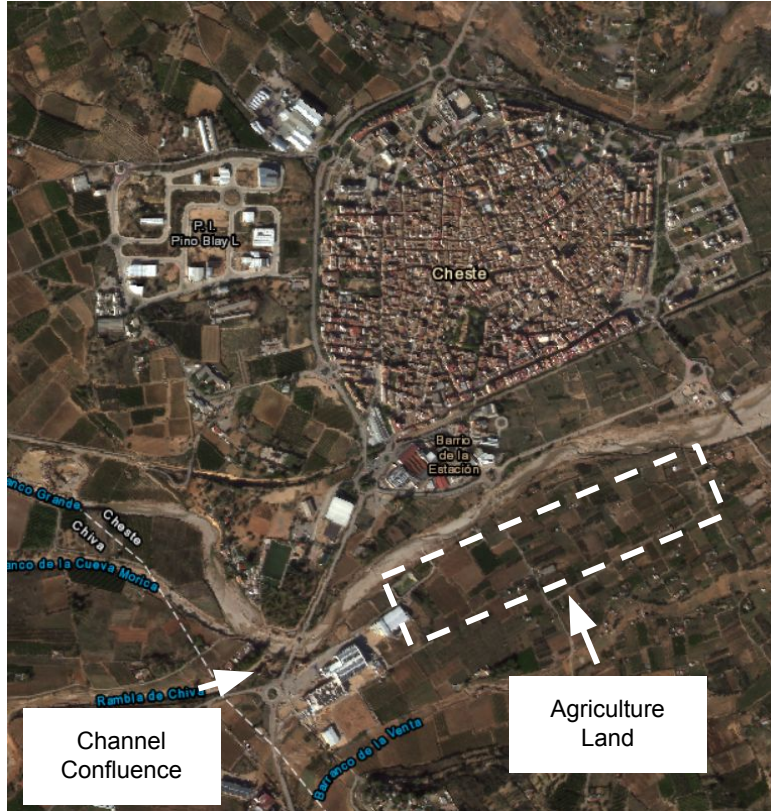
Science-Based Use Cases and Applications

FLOOD IMPACT MONITORING - VALENCIA SPAIN (2024)

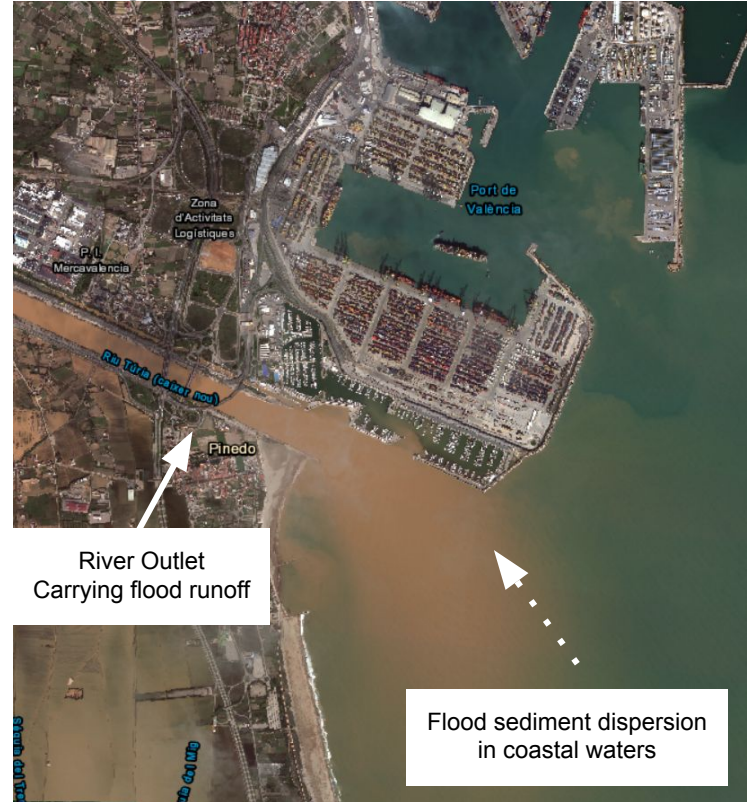


FLOOD IMPACT MONITORING - BEFORE/AFTER

Upstream Flood Channel: Rambla de Chiva





Downstream Impact: Coastal Flood and Sediment Discharge





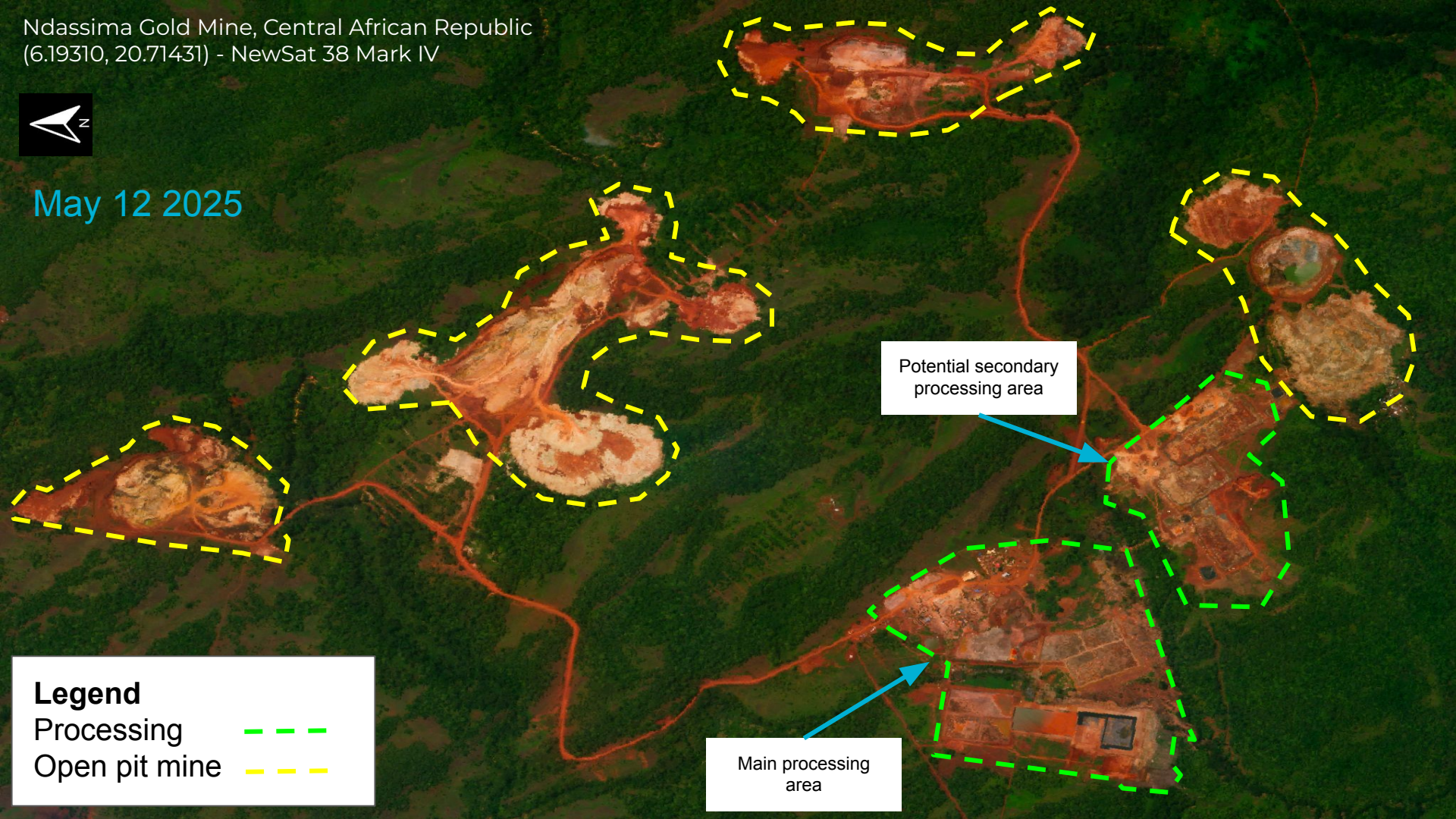
May 12 2025

Legend

Processing	
Open pit mine	

Main processing area

Potential secondary processing area



Feb 5 2026



Expanded tailings storage ponds

Main processing, ore storage, and housing still active

Secondary processing and ore storage still active - with viewable rock crushers and processing lines

Newly constructed since 2025 imagery

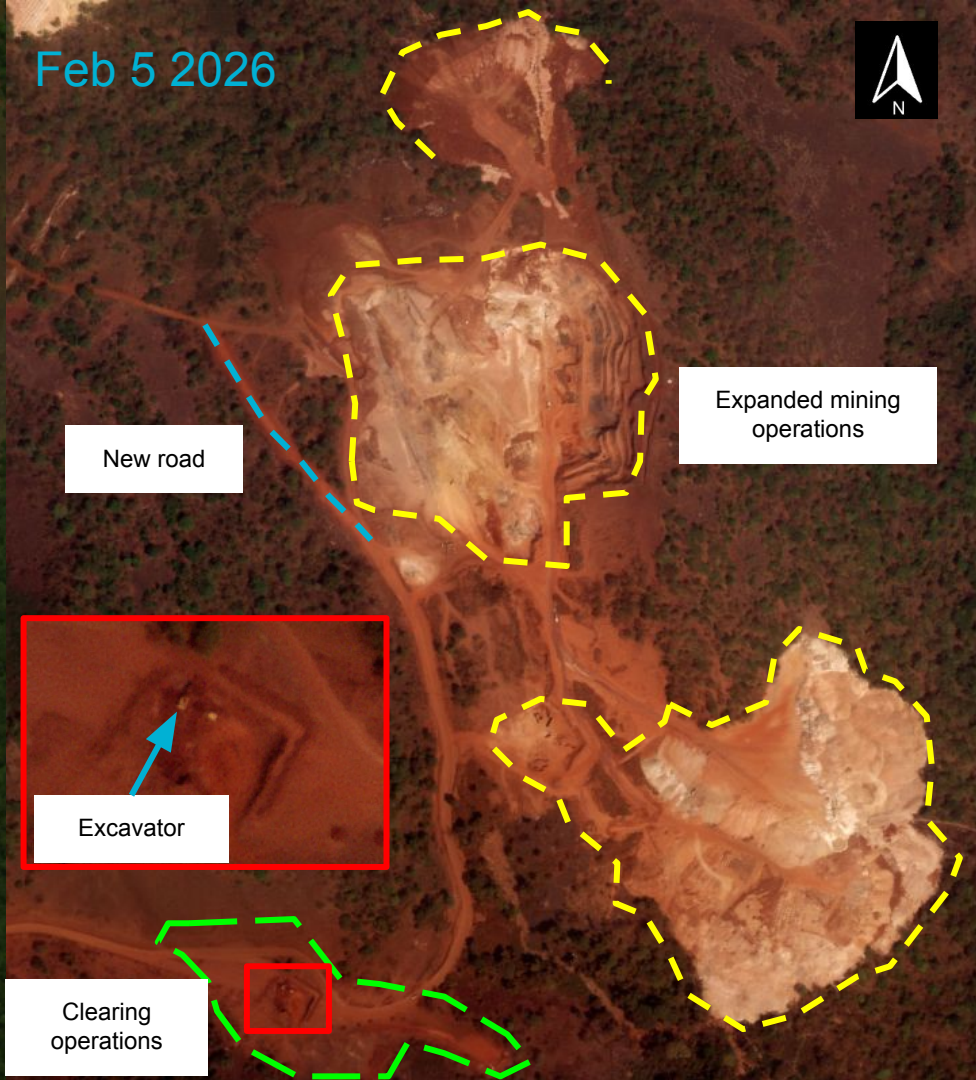
Expansion underway



Ndassima Gold Mine
(Open pit mine), Central
African Republic
(6.19310, 20.71431) - NewSat
38 Mark IV, NewSat 50
Mark V



Feb 5 2026



New road

Expanded mining operations

Excavator

Clearing operations

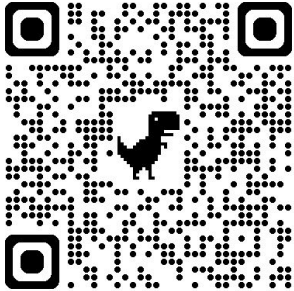
May 12 2025

How to Access Data (Non-Authorized Users)

REQUEST DATA ACCESS

If you don't currently have access to Satellogic data through the CSDA program, our team can help explore options.

- Learn about available datasets
- Discuss potential use cases
- Explore access options



Scan to connect with our team

The screenshot shows the Satellogic website's contact page. At the top, the Satellogic logo is visible. Below it, a navigation bar contains the text "COMPANY > CONTACT US". The main heading is "Get in touch with us". The form asks "Ready for a conversation with our team?" and includes fields for "First name*", "Last name*", and "Email*". There is a checkbox for "Yes, I would also like to sign up for the monthly newsletter". A "Country/Region" dropdown menu is set to "Please Select". The final field is "What can we help you with?*". At the bottom, a link "satellogic.com/contact" is provided.

SATELLOGIC[®]
NOW YOU SEE