



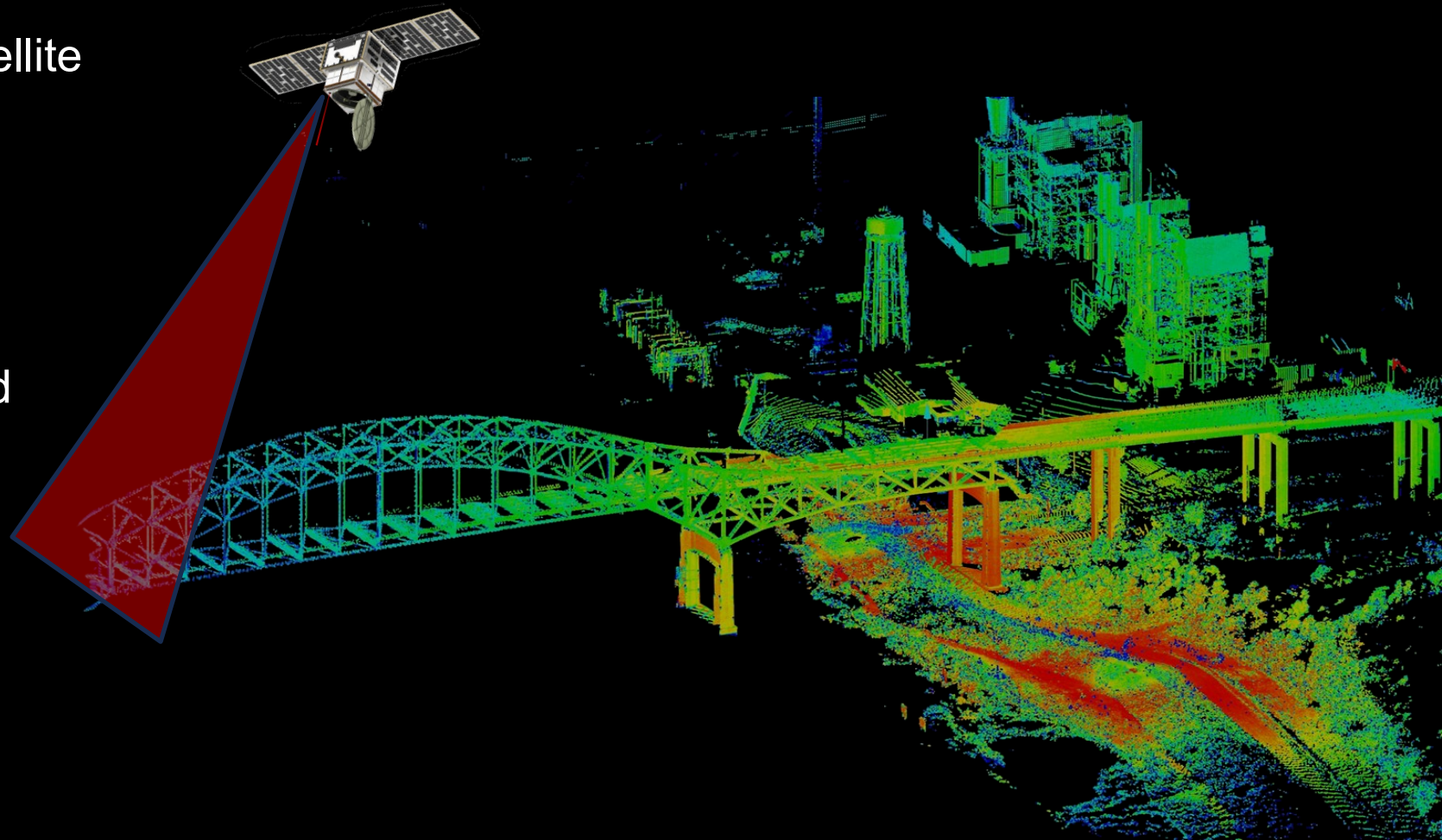
# NUVIEW

THE WORLD IN 3D

Alaska GeoSummit  
2025

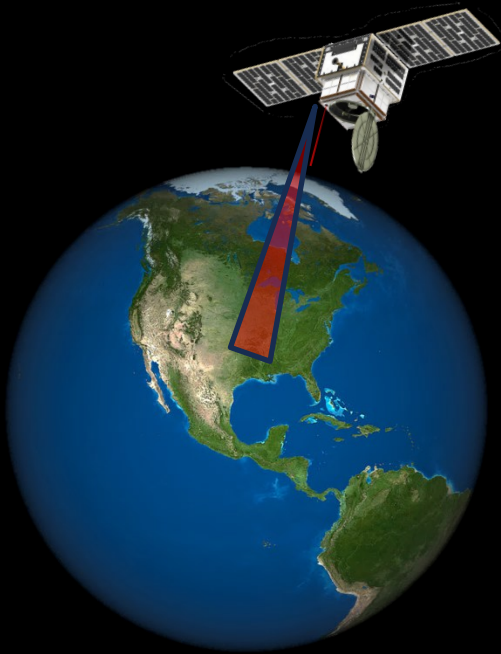
# NUVIEW

- 90% of the planet is missing the most valuable geospatial data, LiDAR.
- NUVIEW is building a LiDAR satellite constellation to satisfy pent up demand.
- We've already built an enterprise suite of cutting-edge geospatial analytics to connect users around the world.

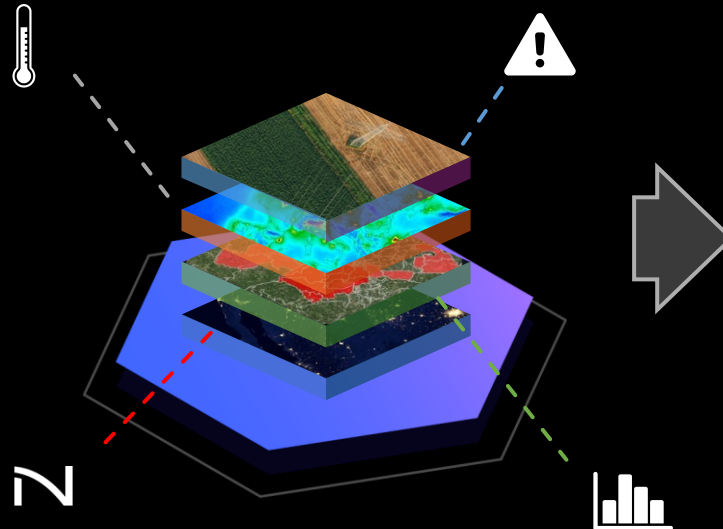


# HOW IT WORKS

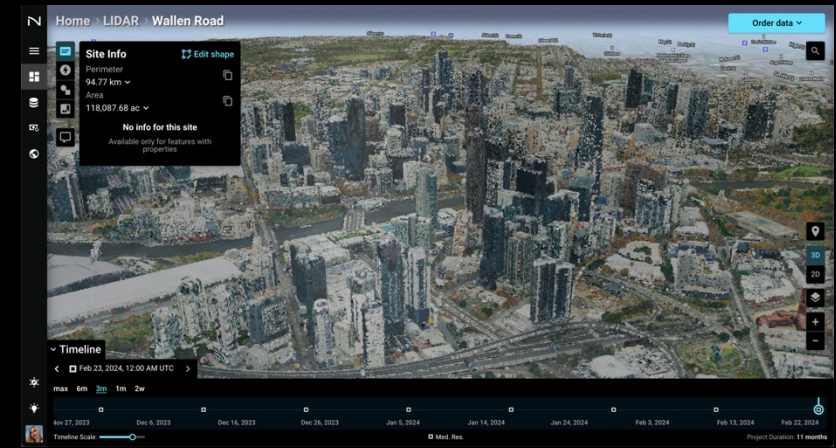
- 1 NUVIEW's patent-pending LiDAR technology will produce the first continuously updated, high resolution direct measurement of the entire Earth's surface



- 2 NUVIEW's proprietary data serves as the key for advancing multi-source geospatial data fusion, unleashing AI/ML on a global scale



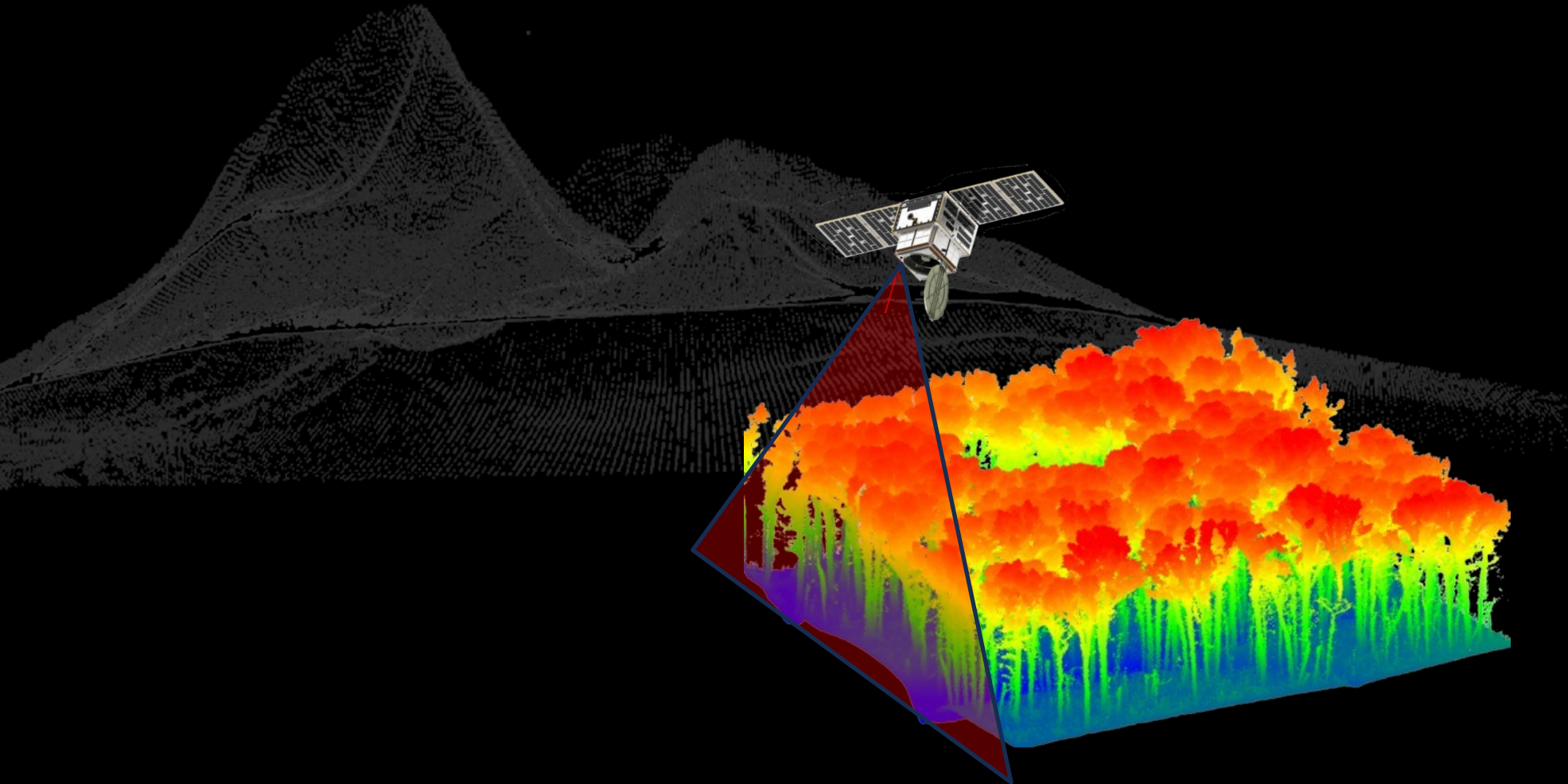
- 3 NUVIEW's SaaS platform enables rapid digital twinning to provide the most accurate, up to date 3D model of the Earth.





# HOW IT WORKS

LiDAR uses a safe, pulsed laser to measure variable distances to form a 3D point cloud of the Earth's surface and man-made objects.



# THE THIRD PILLAR OF EARTH OBSERVATION

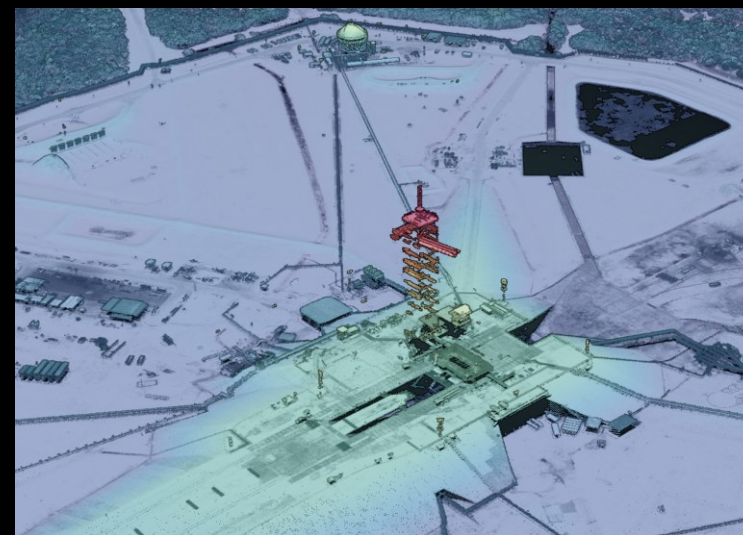
OPTICAL



SAR



LiDAR



# OUR ACQUISITION MISSION

## (QL2) 3DEP LiDAR Data

Data accuracy, and consistency of the data

- 2 Points per sq meter
- 10cm Vertical Accuracy

Quality Level	Data Source	Vertical Accuracy RMSEz (cm)	Nominal Pulse Spacing (NPS) (meters)	Nominal Pulse Density (NPD) (points per square meter)	Digital elevation mode (DEM) cell size (meters)
QL0	Lidar	5 cm	$\leq 0.35$ m	$\geq 8$ pts/meter <sup>2</sup>	0.5 m
QL1	Lidar	10 cm	$\leq 0.35$ m	$\geq 8$ pts/meter <sup>2</sup>	0.5 m
QL2	Lidar	10 cm	$\leq 0.7$ m	$\geq 2$ pts/meter <sup>2</sup>	1 m
QL3	Lidar	20 cm	$< 1.4$ m	$> 0.5$ pts/meter <sup>2</sup>	2 m
QL4	Imagery	139 cm	N/A	N/A	5 m
QL5	lfsar	185 cm	N/A	N/A	5 m



# WHY QL2 MATTERS

- **High Resolution & Accuracy** provides detailed elevation data with  $\sim 2$  points/m<sup>2</sup> and 10 cm vertical accuracy.
- **Enhanced Feature Detection** captures small features and subtle terrain changes for precise analysis.
- **Advanced Applications:** supports 3D modeling, hydrological analysis, and vegetation studies.
- **Standards Compliance** meets federal, state, and local requirements for accuracy and reliability. Optical and SAR cannot do this.
- **Long-term Value** reduces the need for re-surveying.

# WHY NUVIEW?

- Data accessibility through the NUVIEW platform
- Data capture on demand
- Large scale data capture
  - Purchase of archived datasets
- Data capture capabilities
  - Variety of data capture capabilities
  - Tools for accessibility, visualizations ,and analytical analysis
  - Data availability
  - On the fly tools
  - Ease of use
  - Identifying the uses and AOIs



# LiDAR IS POWERFUL DATA



- Used to correct optical and SAR
- Up to 35x more accurate than Optical
- Up to 120x more accurate than SAR
- The *only* solution that images in 3D
- Collects images day or night
- Point clouds are ideal for AI & ML

# THE PROBLEM WE'RE SOLVING

## LiDAR Is Limited By Current Collection Methods

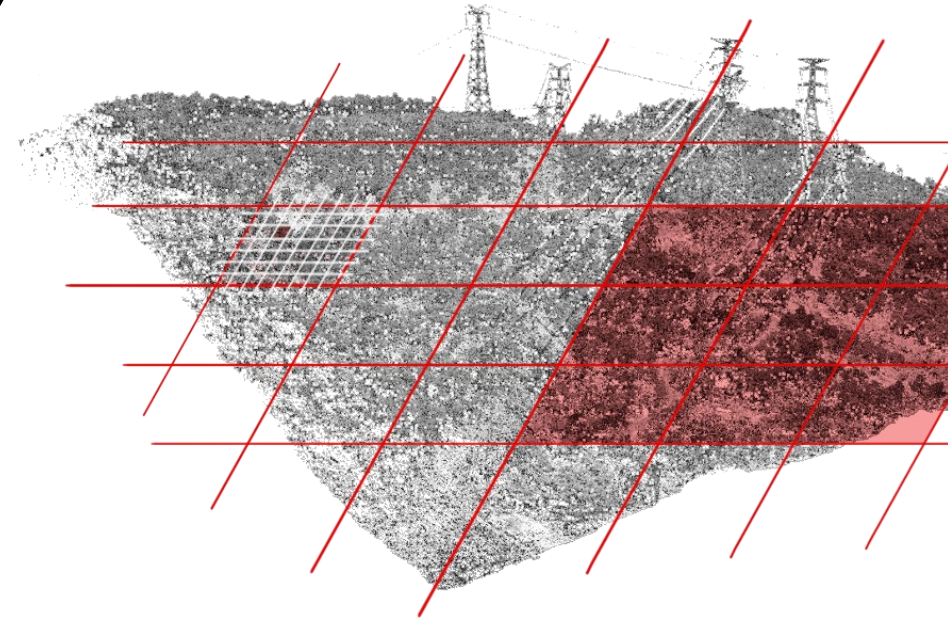
**IT'S LIMITED BY SCALE:** It takes ten years to map a country the size of the U.S.

**IT'S LIMITED BY GEOPOLITICS:** Imaging is not possible by aircraft in many critical areas of the world

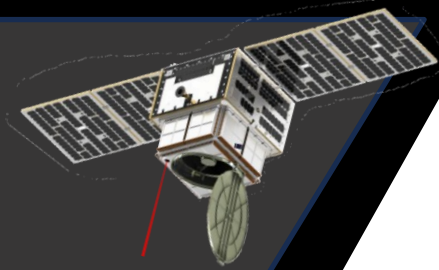
**IT'S LIMITED BY MANPOWER:** A pilot is needed for every flight

**IT'S EXPENSIVE:** Costs hundreds of dollars / km<sup>2</sup>

**IT'S SLOW:** It can take weeks or months to receive data



# THE SOLUTION



## NUVIEW Is Building **LiDAR Satellites**

**UNLIMITED BY SCALE:** It will take only months to map a country the size of the U.S.

**UNLIMITED BY GEOPOLITICS:** Can collect LiDAR anywhere in the world, day or night, even denied areas.

**UNLIMITED BY MANPOWER:** Autonomous and “always on.”

**INEXPENSIVE:** Costs will be halved vs aerial

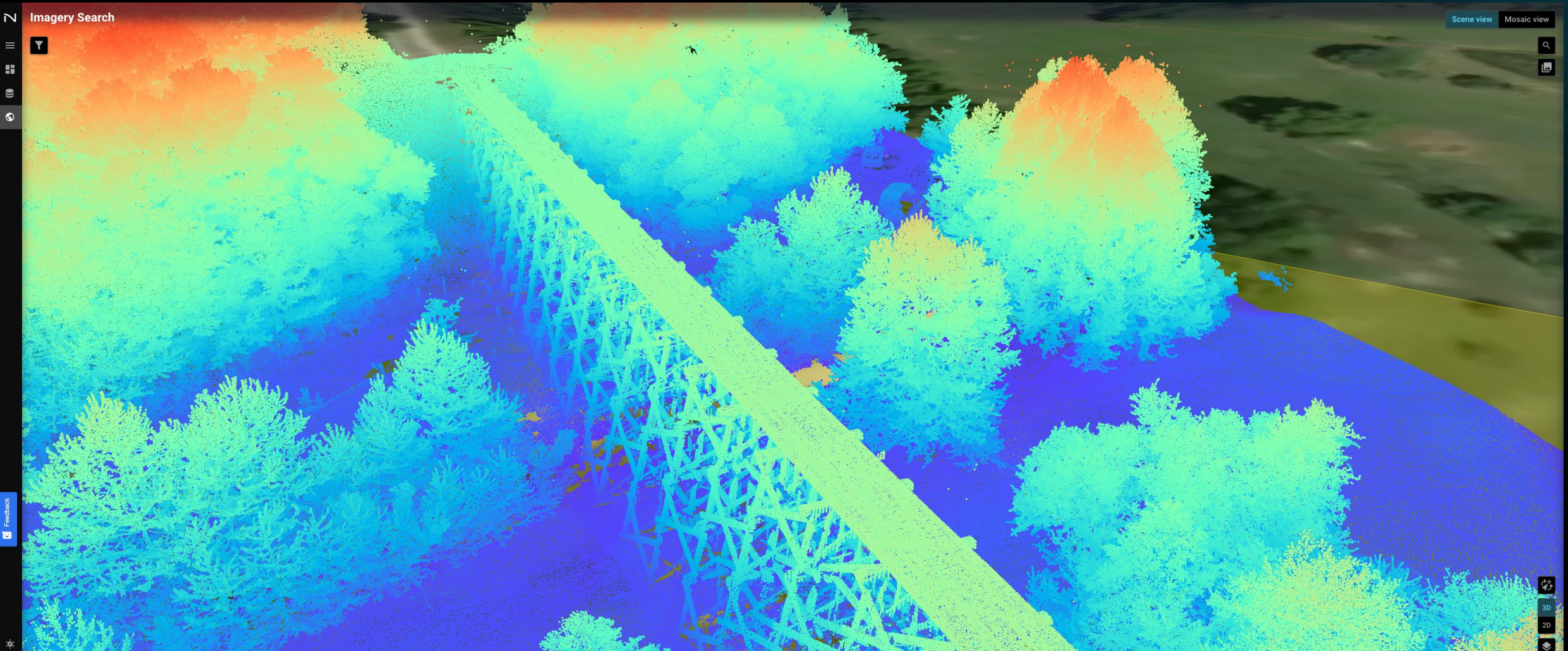
**IT'S FAST:** Satellite downlink, every 90 minutes





# THE SOLUTION

We've Built  
NUVIEW Ecosystem. A Cloud Native Software Suite



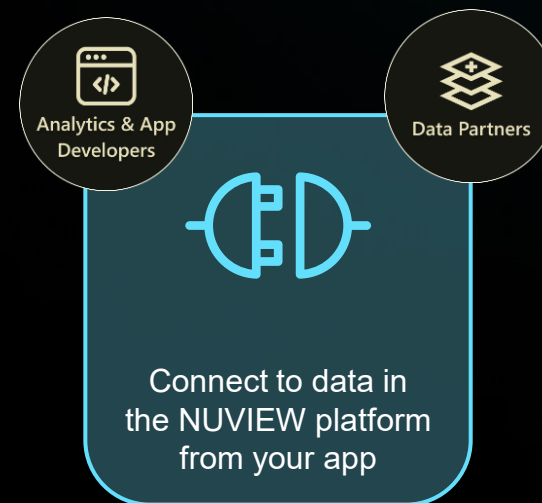
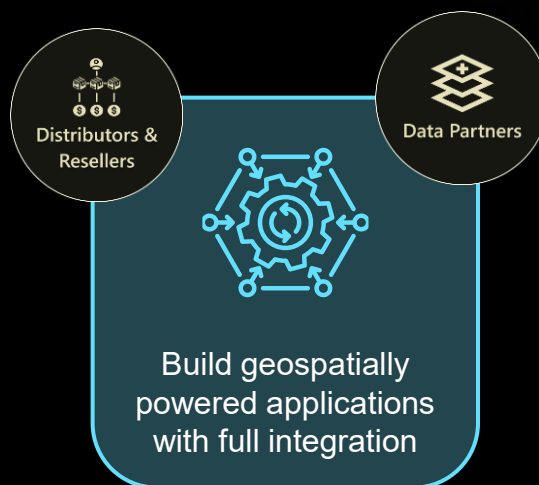
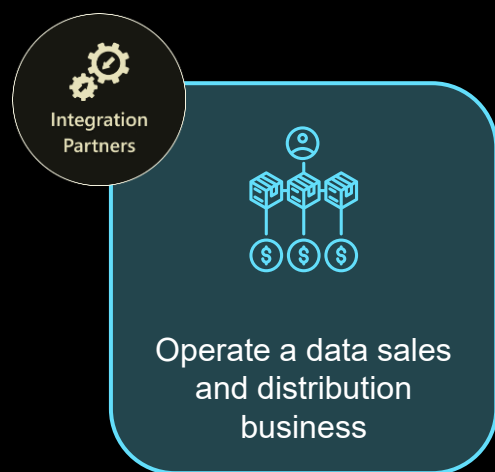
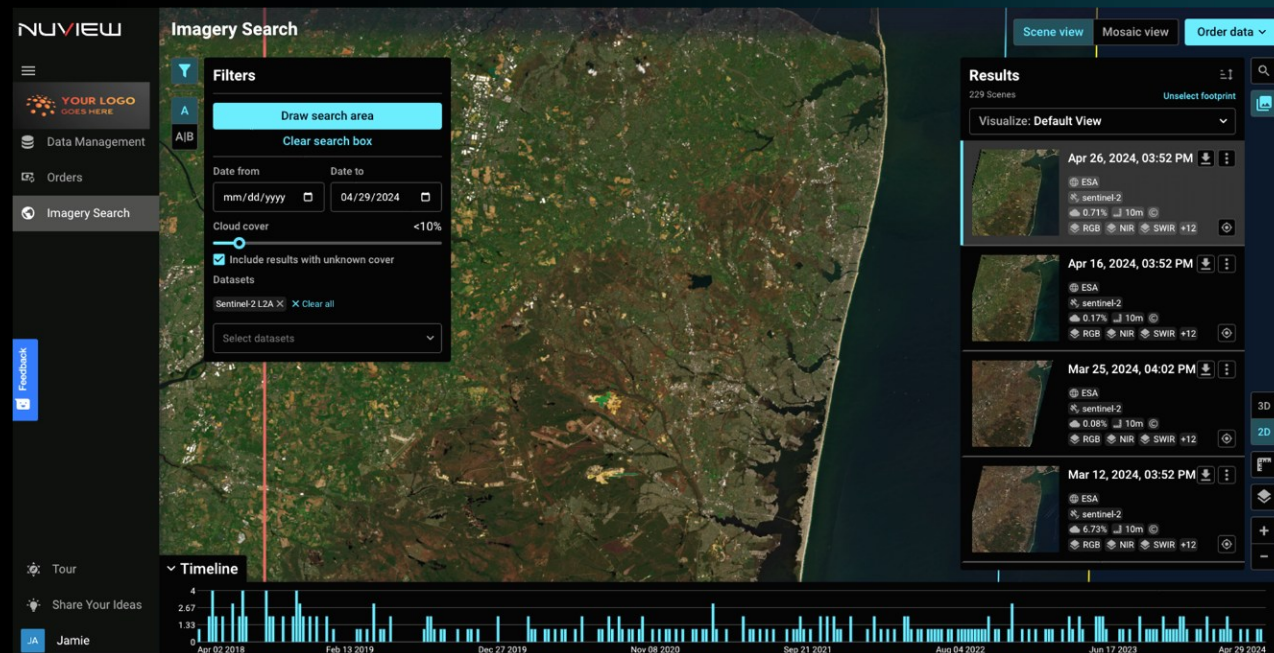


# NUVIEW ECOSYSTEM

## Partner Integration Suite

### What Is Ecosystem?

NUVIEW Ecosystem is the hub of a global network for 3D and other geospatial data, spatial analytics, and information exchange



# THE ECOSYSTEM ADVANTAGE

## Modular Plugins for Data Providers

Modular architecture enables rapid integration of new data providers

## Extensible Architecture

Standards-based development, documentation, and training enable extensibility and future integrations

## Automate AI/ML Workflows

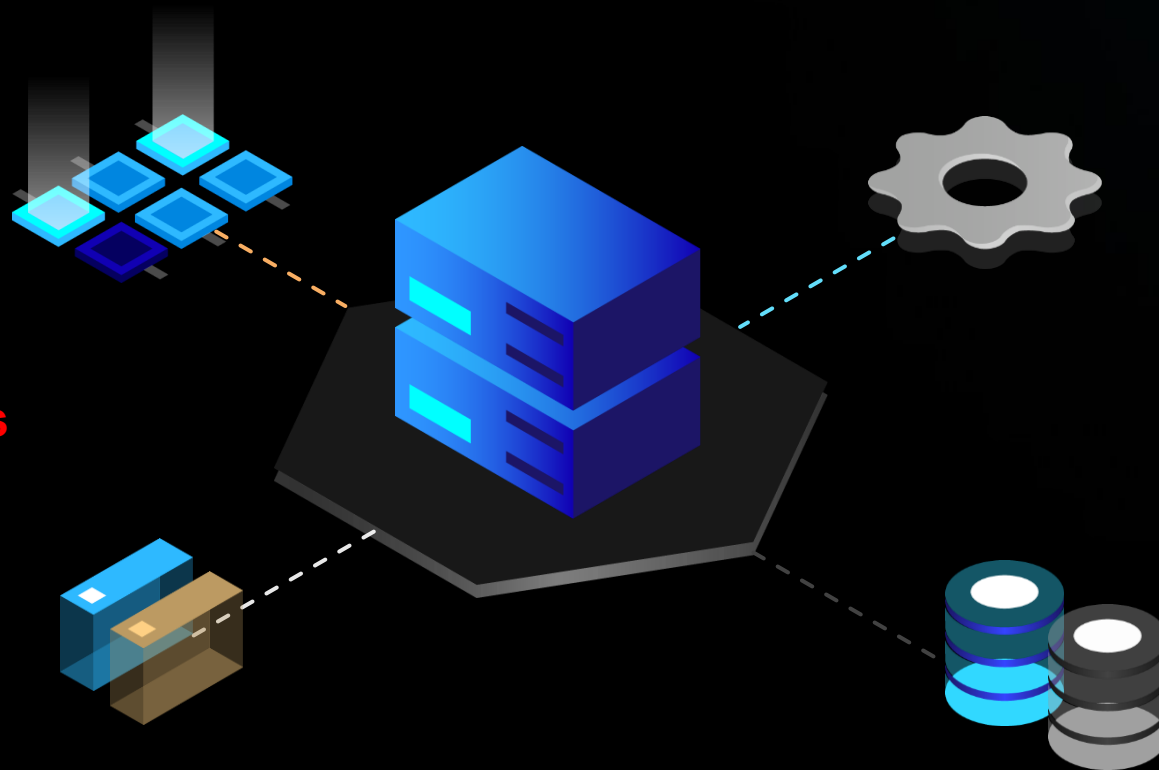
Trigger automatic analysis jobs whenever imagery is delivered using processing hooks

## Customizable Products

Create custom products based on each use case using our rapid configuration admin console.

## Full Administrative Capability

Manage orders, track delivery, and enable customer support with a full featured suite of admin tools and APIs





# DUAL USE TECHNOLOGY

## Commercial



**Energy & Infrastructure**

Phillips 66



**Agriculture**

Bayer



**Forestry & Carbon Markets**

Weyerhaeuser



**Finance & Insurance**

Munich RE



**Mapping**

Google

## Government



**National Maps**

USGS



**Intelligence**

NGA



**Reconnaissance**

NRO



**Emergency Response**

FEMA



**Agriculture**

USDA



# NUVIEW

THE WORLD IN 3D

ELEVATING **LiDAR**  
TO THE **NEXT LEVEL**

To join us for the ride, contact [info@nuview.space](mailto:info@nuview.space)