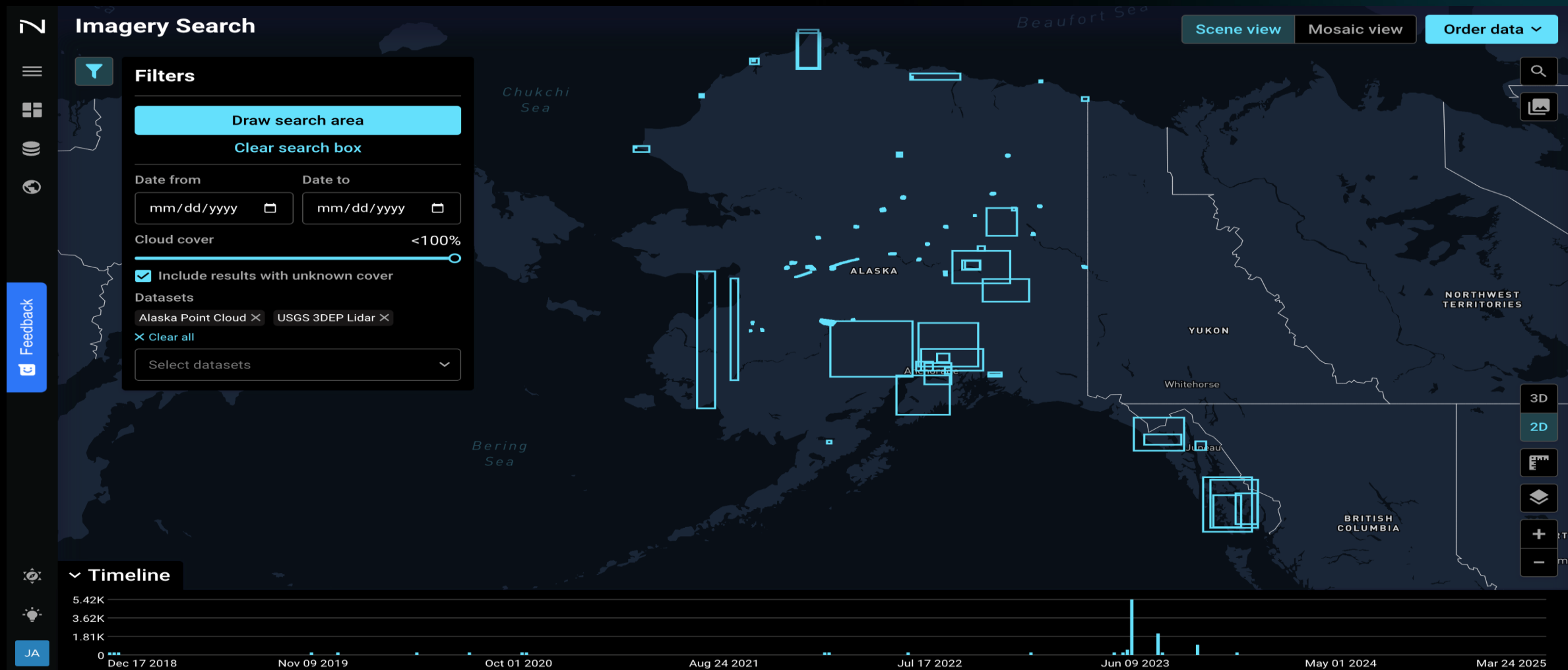


+

NUVIEW
THE WORLD IN 3D



NUVIEW

Access the URL now: Alaska.nuview.space

Who am I?

- Jacob Thiel – Account Executive
 - Contact: jacob.thiel@nuview.space

Smile or you're doing it wrong



NUVIEW

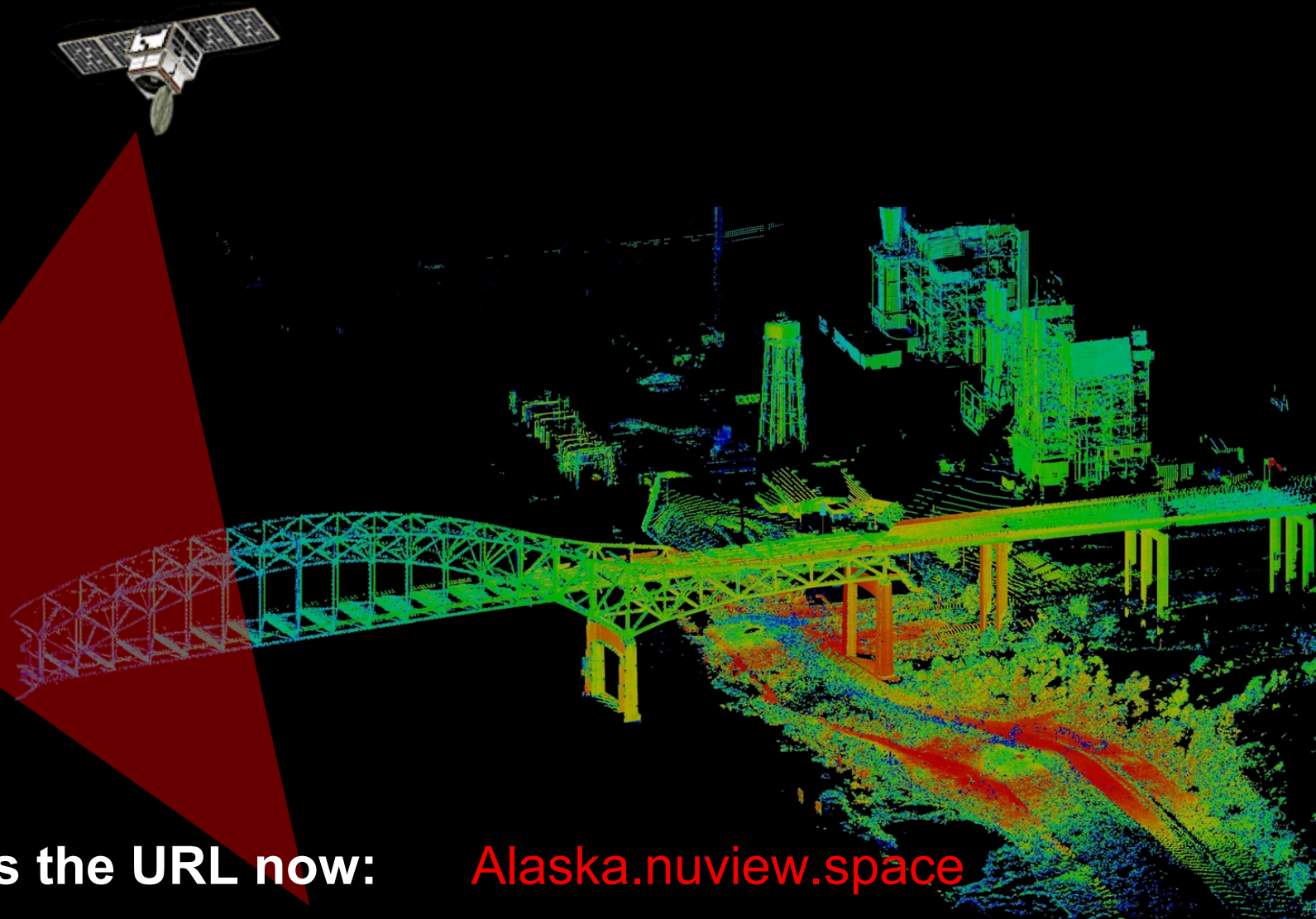
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Who are we?

- 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.



Access the URL now:

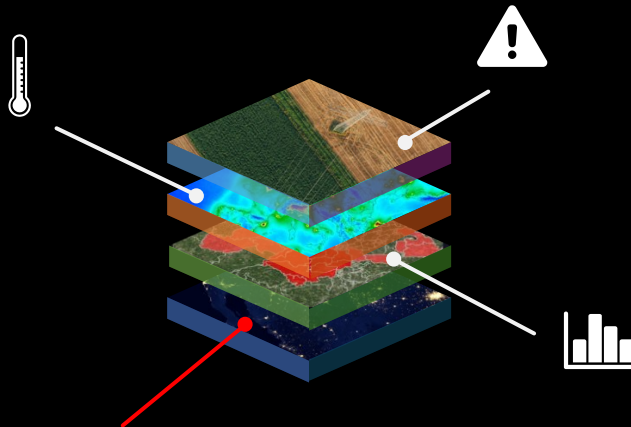
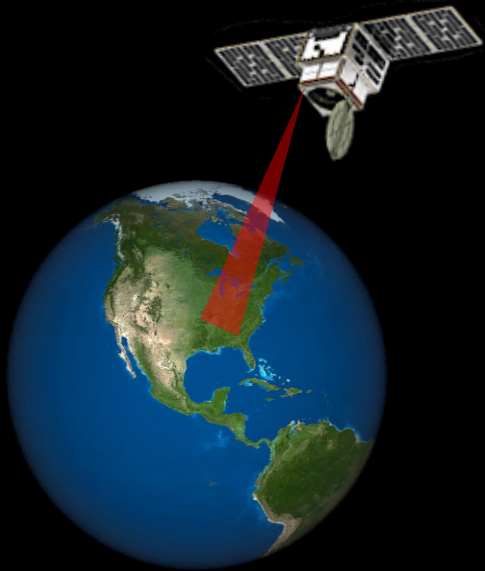
Alaska.nuview.space

How It Works

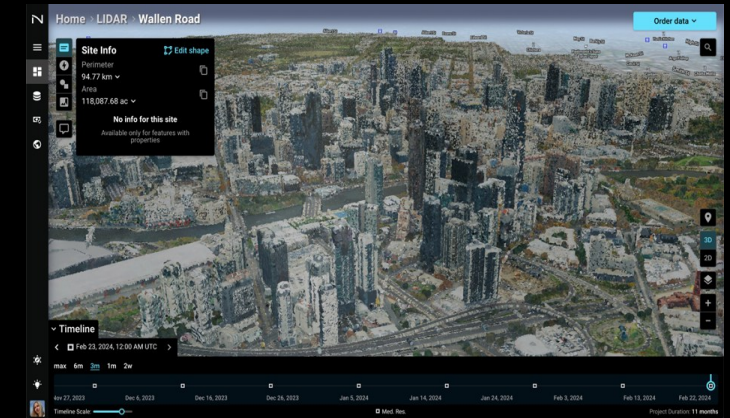
- 1 NUVIEW's patent-pending LiDAR technology will produce the first continuously updated, high resolution direct measurement of the entire Earth's surface.

- 2 NUVIEW's platform is the built for integrating multi-source geospatial data, allowing for AI/ML on a global scale.

- 3 NUVIEW's platform enables rapid data visualizations and access.



NUVIEW



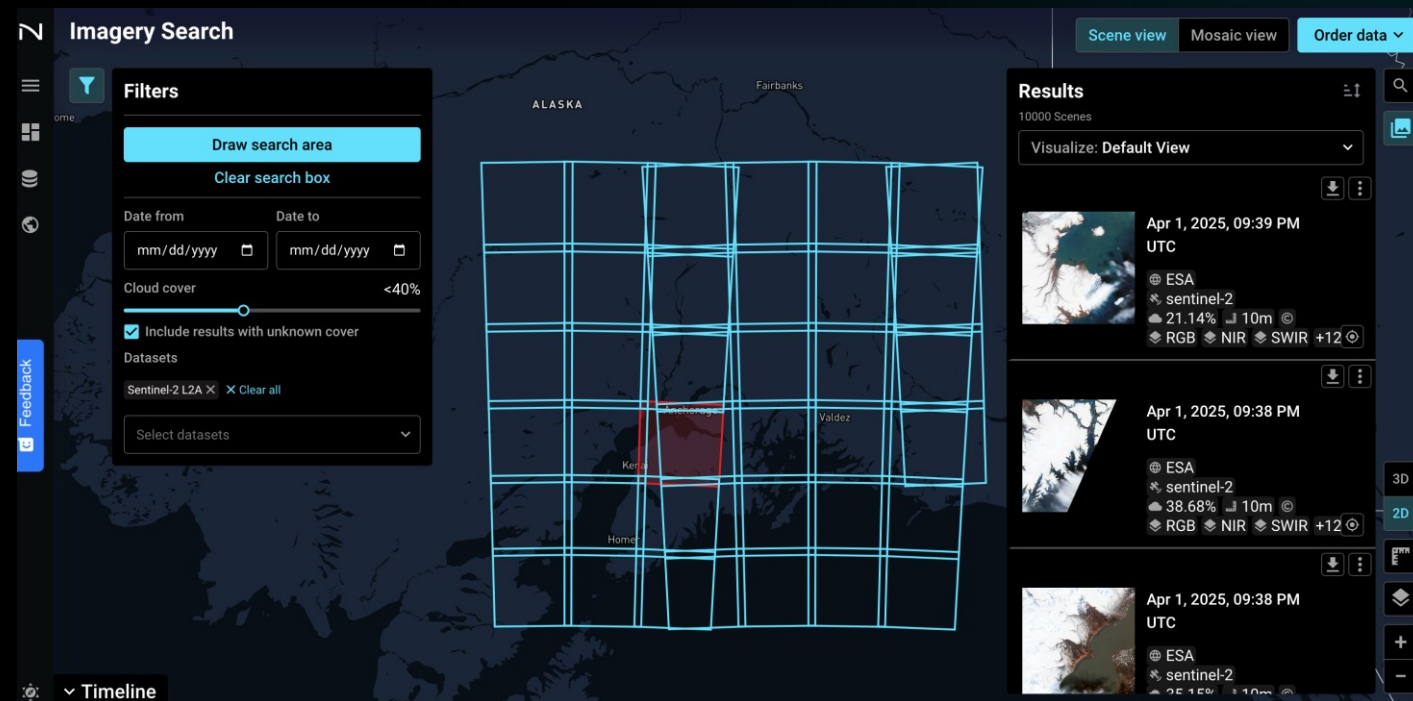
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Open-Source Data in the **NUVIEW** platform

- USGS - Lidar and DEM's
- Sentinel
- USDA NAIP
- Landsat 8
- Maxar Disaster Open Data
- Umbra Open Data

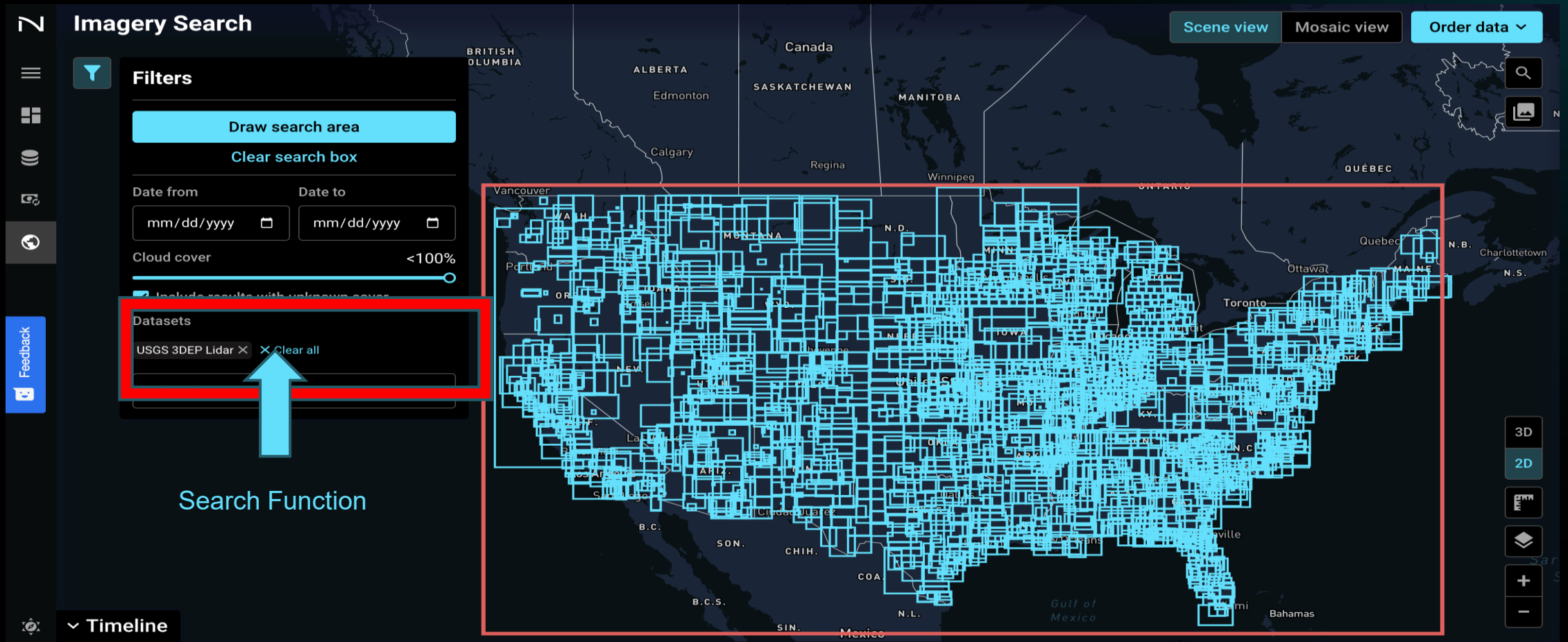
Landsat 8 Coverage



NUVIEW ECOSYSTEM

Accessing Data

The NUIVIEW Ecosystem. A Cloud Native Software Suite



NUVIEW ECOSYSTEM

Capabilities: Search data catalogs, filter by date, download, and stream datasets

Download &
Stream Data

Search by date

Results based on collection

Imagery Search

Filters

Draw search area

Clear search box

Date from mm/dd/yyyy Date to mm/dd/yyyy

Cloud cover <100%

Include results with unknown cover

Datasets

NAIP X Clear all

Select datasets

Scene view Mosaic view Data

Results

10000 Scenes

Visualize: Default View

Nov 1, 2021, 12:00 PM UTC

USDA naip N/A 0.6m RGB NIR

Nov 1, 2021, 12:00 PM UTC

USDA naip N/A 0.6m RGB NIR

Nov 1, 2021, 12:00 PM UTC

USDA

Timeline

4.78K 3.19K 1.59K 0

Jun-2011 May-2012 May-2013 May-2014 May-2015 May-2016 May-2017 May-2018 May-2019 May-2020 May-2021 May-2022

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Download & Stream

Download

Asset Bundle Download ×

NAIP | Jul 10, 2021, 12:00 PM UTC | m_4612011_sw_10_060_20210710

ASSETS	<input type="checkbox"/> DATA
Analytic RGBIR COG	<input type="checkbox"/>
Analytic RGBIR	<input type="checkbox"/>
Source RGBIR	<input type="checkbox"/>
Visualization RGB	<input type="checkbox"/>

Approximate bundle size 0 B

Cancel

Download selected assets

ESRI - X, Y, Z Tiles Layer

Copy ESRI Compatible Tile Layer Link ×

NAIP | Jul 10, 2021, 12:00 PM UTC | m_4612011_sw_10_060_20210710

https://rps-us-west-2-prod.s22s.net/naip/tiles/{level}/{col}/{row}.png?item_id=m_46120 Copy

The link above will enable you to view this image in ArcGIS Online as “A Tile Layer.” Note ArcGIS Online has its own format for Tile Layers. Most other application use XYZ Tile Links.

Quick instructions: Copy the link, go to ArcGIS Online, Add a Layer from Web, Select A Tile Layer, Paste the URL, and complete the remaining fields.

[Tutorial](#)

Cancel

Open ArcGIS


STAC (SpatioTemporal Asset Catalog)

- **What is STAC?**
 - **STAC (SpatioTemporal Asset Catalog)** is an open standard for indexing and organizing geospatial data.
- **Helps with:**
 - Enables efficient **search, access, and streaming** of geospatial data.
- **How STAC Works**
 - **STAC Items:** Metadata-rich descriptions of imagery, LiDAR, or raster files.
 - **STAC Catalogs & Collections:** Organize datasets by source, date, and location.
 - **API-Driven Search:** Users can filter datasets by time, location, and quality.

Challenges we faced

- Multiple of the same files
 - .las & derivatives files
 - Multiple files with different projections
- **Acquisition Dates per scene for derived products**
 - **Identify original .las file and use acquisition date per scene**
- Rendering methods of derived product for visualizations: **Item Family**
 - **Intensity : Grey Scale**
 - **Swath Overlap : RGB**
 - **Elevation Values : Normalized Terrain Color Map**
- Different Delivery Products
 - Normalized Digital Surface Model (Digital Height Model)
 - First Return Intensity Images
- Outdated .laz Chunk Table Versioning
 - Inconsistent chunk table information through various .laz files
 - Our most up to date .laz reader doesn't support older .laz chunk tables 😞
- Basemap vertical misalignment
 - Difference in Z alignment
 - Basemap vs lidar data

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Welcome

Log in to NUVIEW, Inc. to continue to NUVIEW Platform - Alaska.

Email address*

Password*

[Forgot password?](#)


Don't have an account? [Sign up](#)



NUVIEW

We've sent you an email with instructions to verify your address. Please check your inbox.

[Logout](#)



Welcome to EarthAI!

Please verify your email address by clicking the following link:

[Confirm my account](#)

If you are having any issues with your account, please don't hesitate to contact us by replying to this mail.

Thanks!
The NUVIEW Team

NUVIEW

Select Catalog & Draw AOI

The screenshot displays the NUVIEW Imagery Search interface. The main map shows Alaska with a red rectangular Area of Interest (AOI) drawn over the central and southern regions. A red box highlights the 'Filters' panel on the left, which includes options to 'Draw search area', 'Clear search box', and a 'Select datasets' dropdown menu. The 'Results' panel on the right shows three search results for '3D Alaska - Point Cloud' data, all dated 'Oct 24, 2023, 08:17 PM UTC'. The 'Timeline' at the bottom shows a bar chart of search activity from October 2022 to April 2025.

Imagery Search

Filters

- Draw search area
- Clear search box
- Date from: mm/dd/yyyy
- Date to: mm/dd/yyyy
- Cloud cover: <100%
- ☒ Include results with unknown cover
- Datasets: Alaska - Point Cloud X Clear all
- Select datasets

Results

5444 Scenes

Visualize: Default View

Oct 24, 2023, 08:17 PM UTC

3D Alaska - Point Cloud

N/A N/A

Oct 24, 2023, 08:17 PM UTC

3D Alaska - Point Cloud

N/A N/A

Oct 24, 2023, 08:17 PM UTC

3D Alaska - Point Cloud

N/A N/A

Timeline

1.81K

1.21K

604.67

0

Oct 03 2022

Feb 11 2023

Jun 22 2023

Oct 31 2023

Mar 10 2024

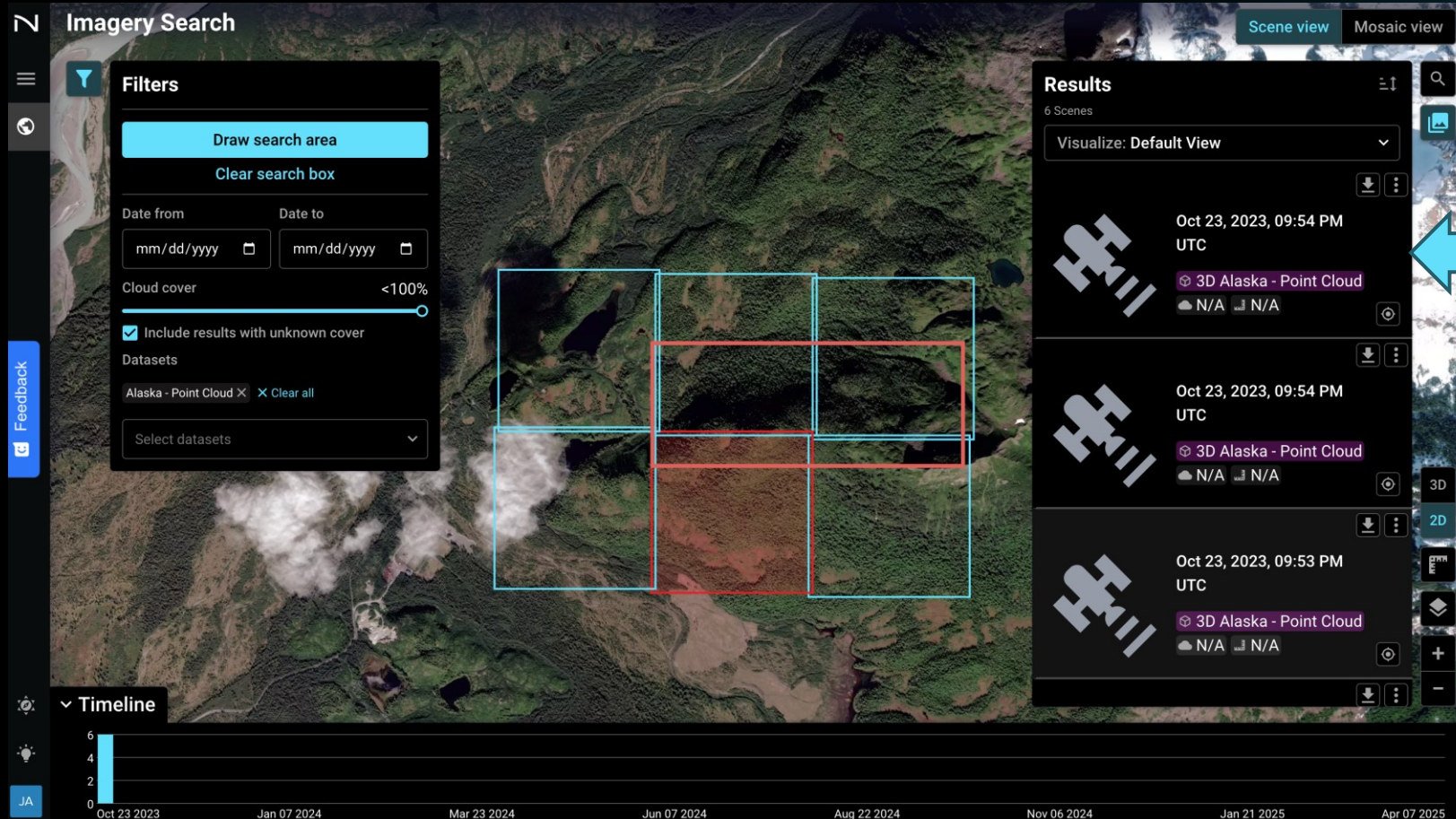
Jul 19 2024

Nov 27 2024

Apr 07 2025

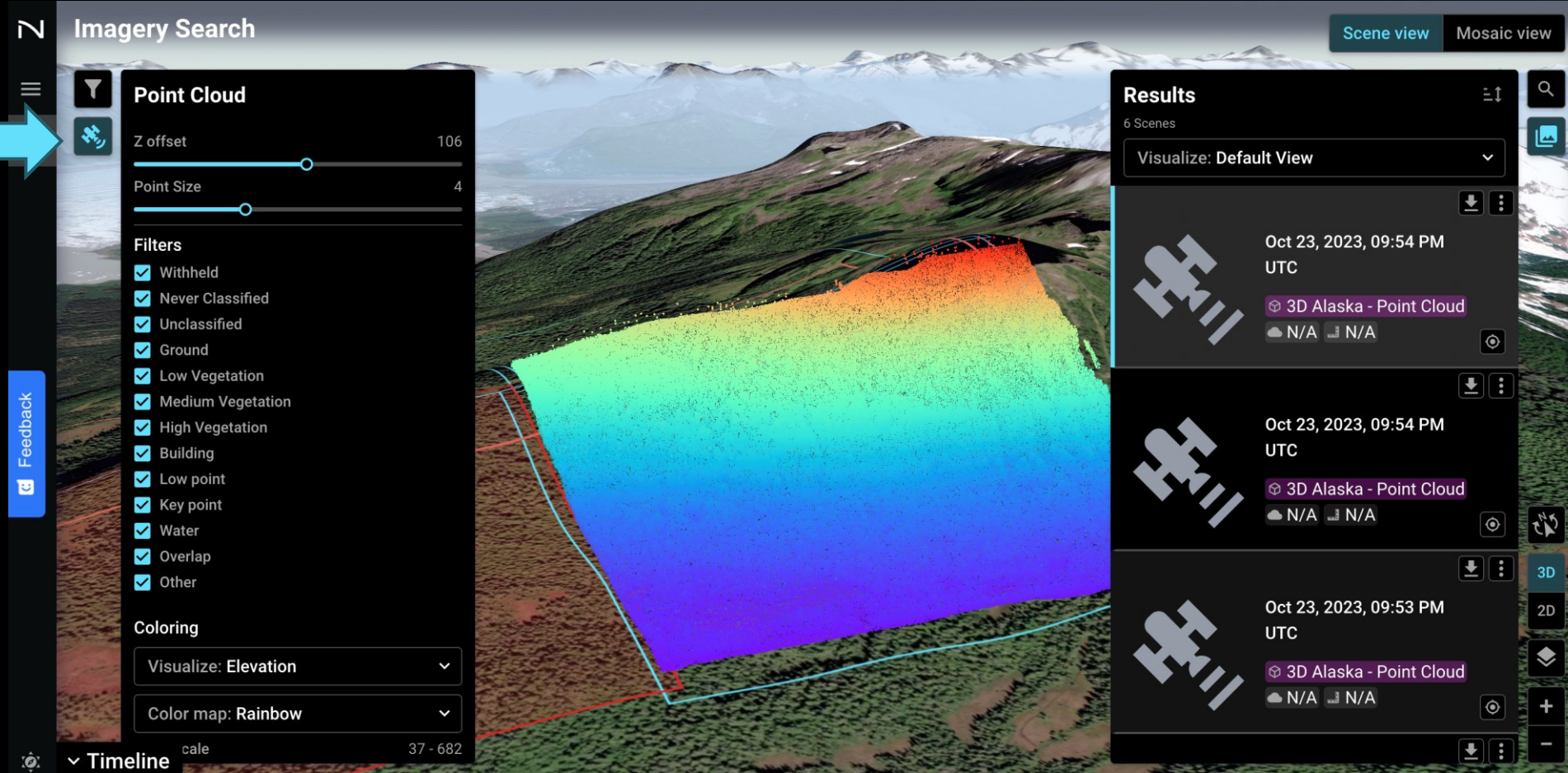
NUVIEW ECOSYSTEM

Accessing Alaska & USGS Data



NUVIEW ECOSYSTEM

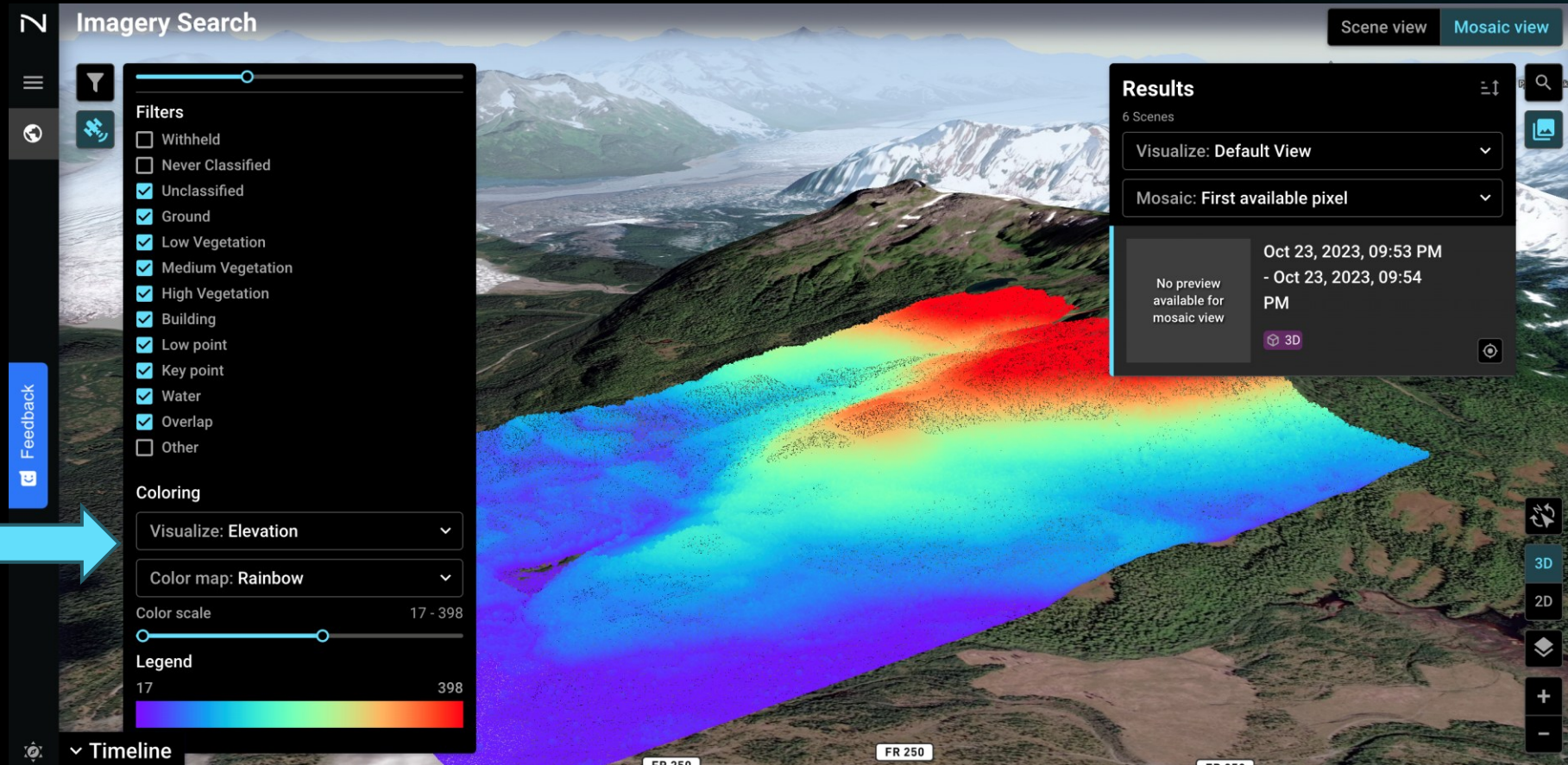
Visualizing the data



NUVIEW ECOSYSTEM

Visualizing the data

Bring Multiple Datasets Together



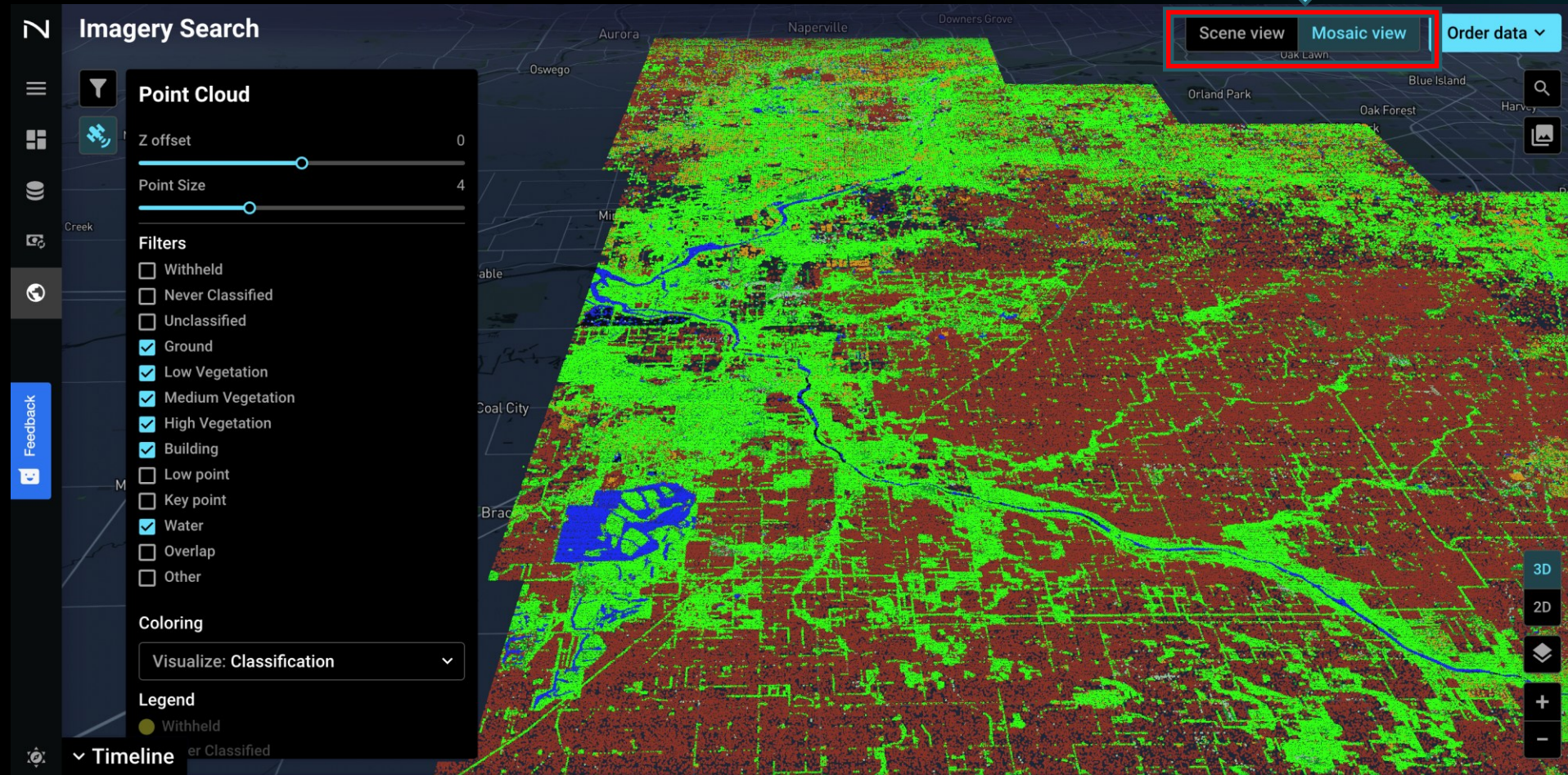
Visualizations



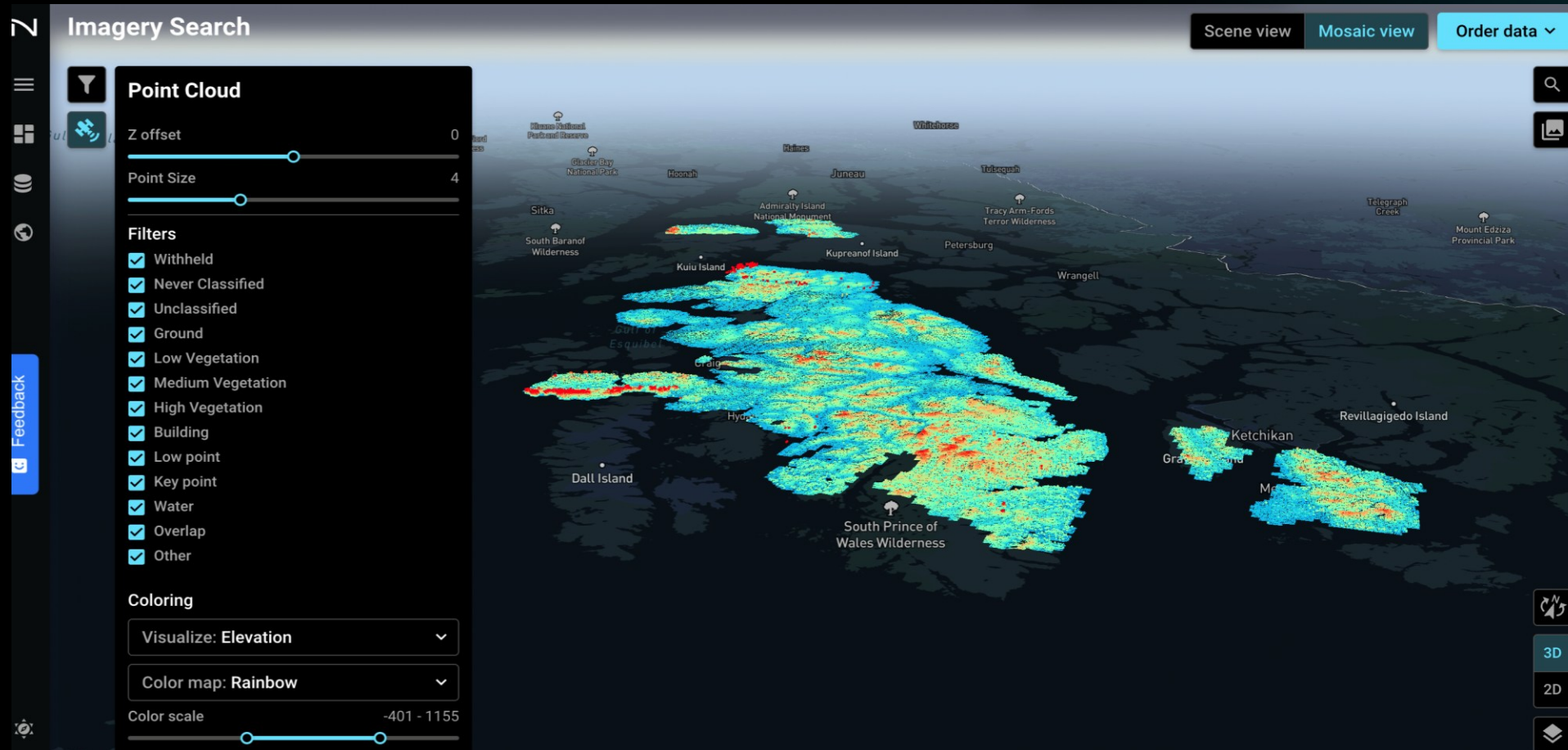
NUVIEW ECOSYSTEM

Point Cloud Capabilities

Bring Multiple Datasets Together



USGS Entwine Data Viewer

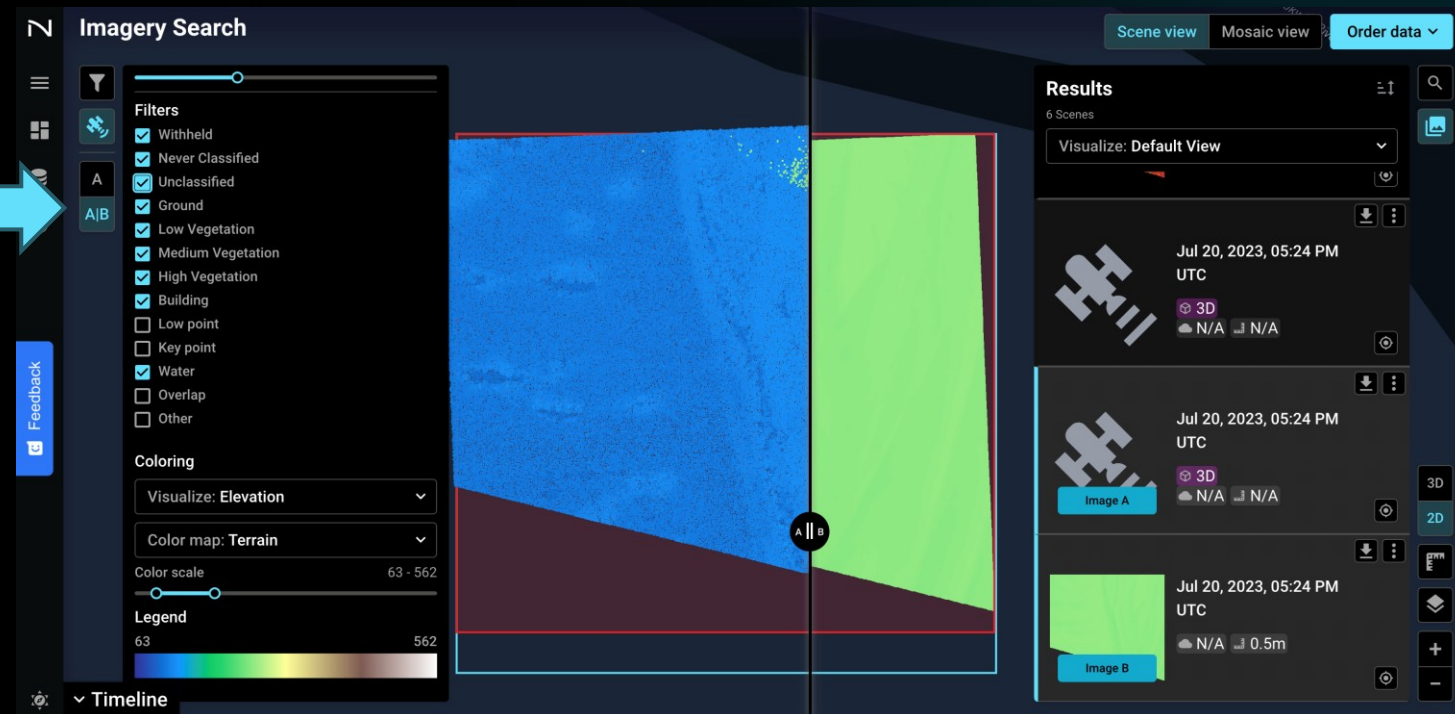


Visualizing Data

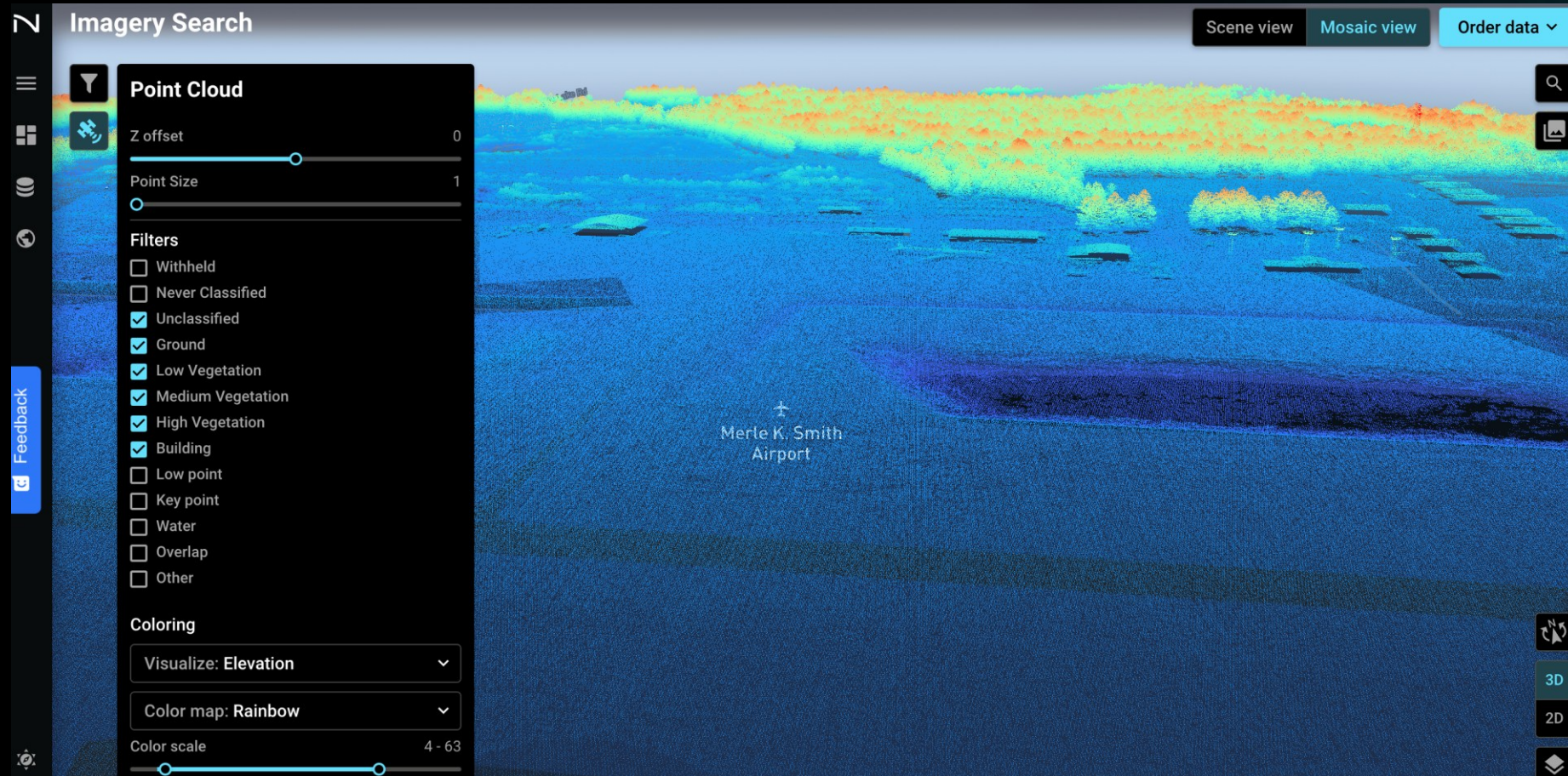
Visualizing and comparing different datasets

DEM (Digital Elevation Model)
&
Lidar Point Cloud

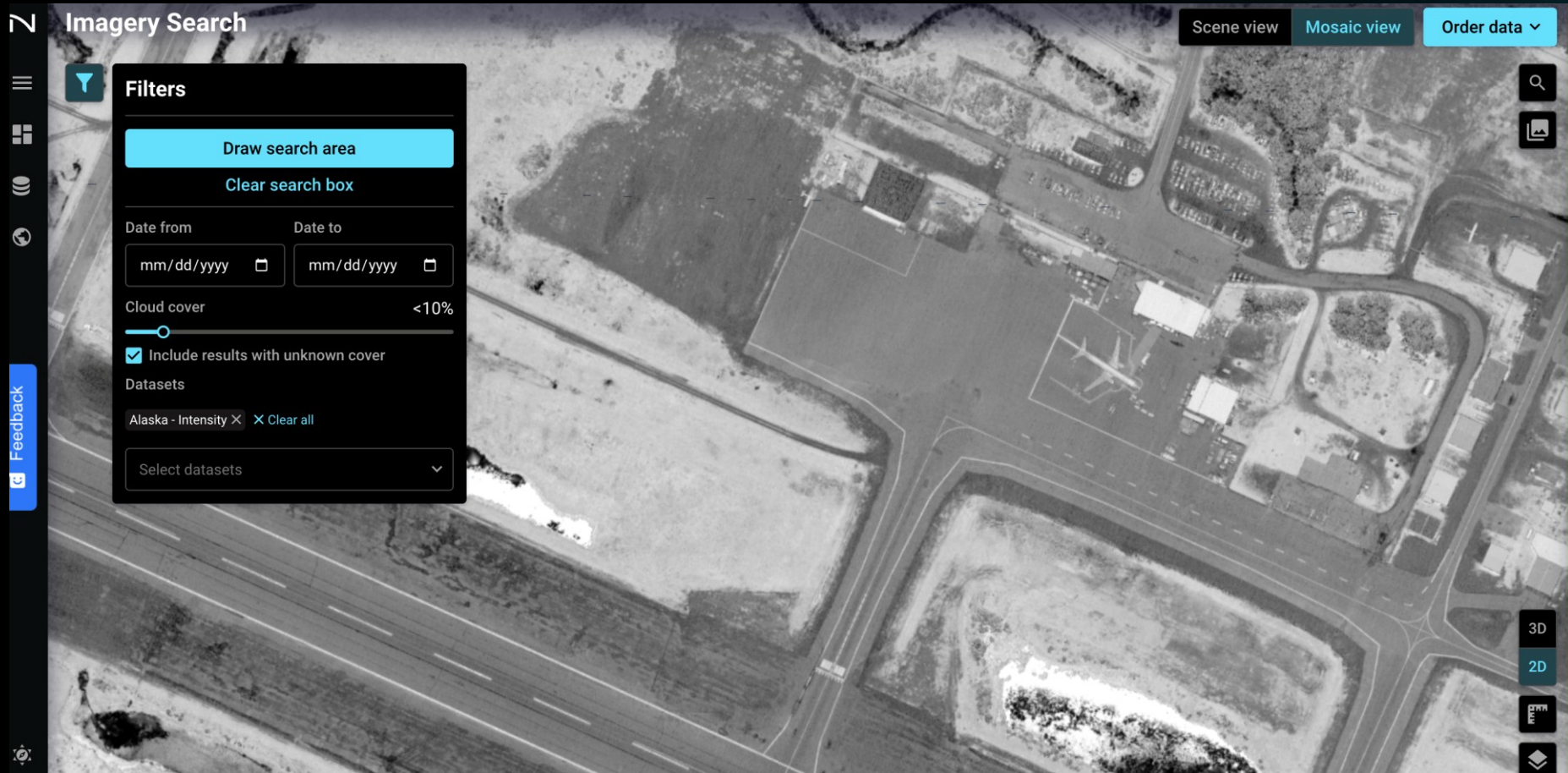
Change
Detection



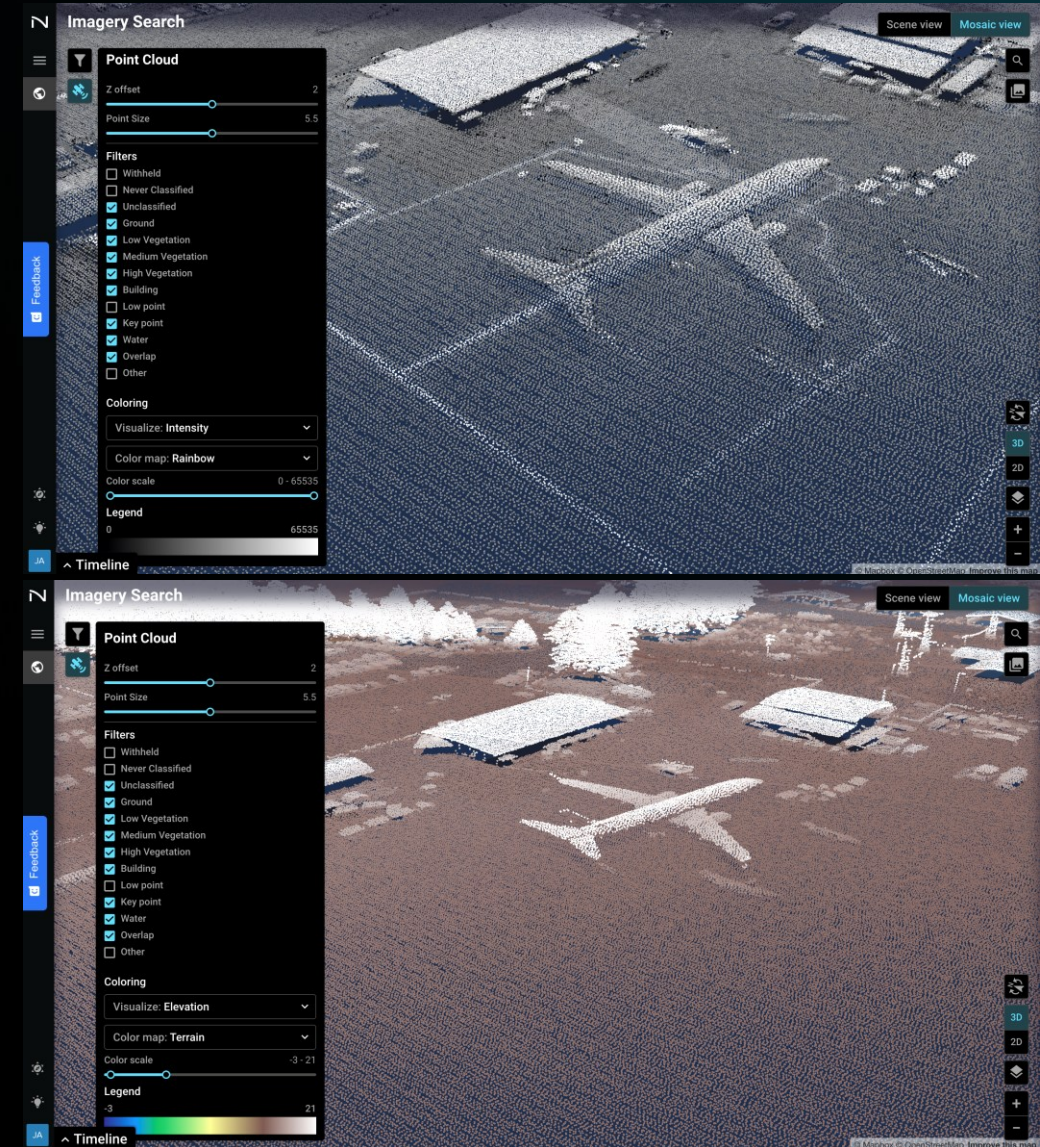
Merle K. Smith Airport – Point Cloud



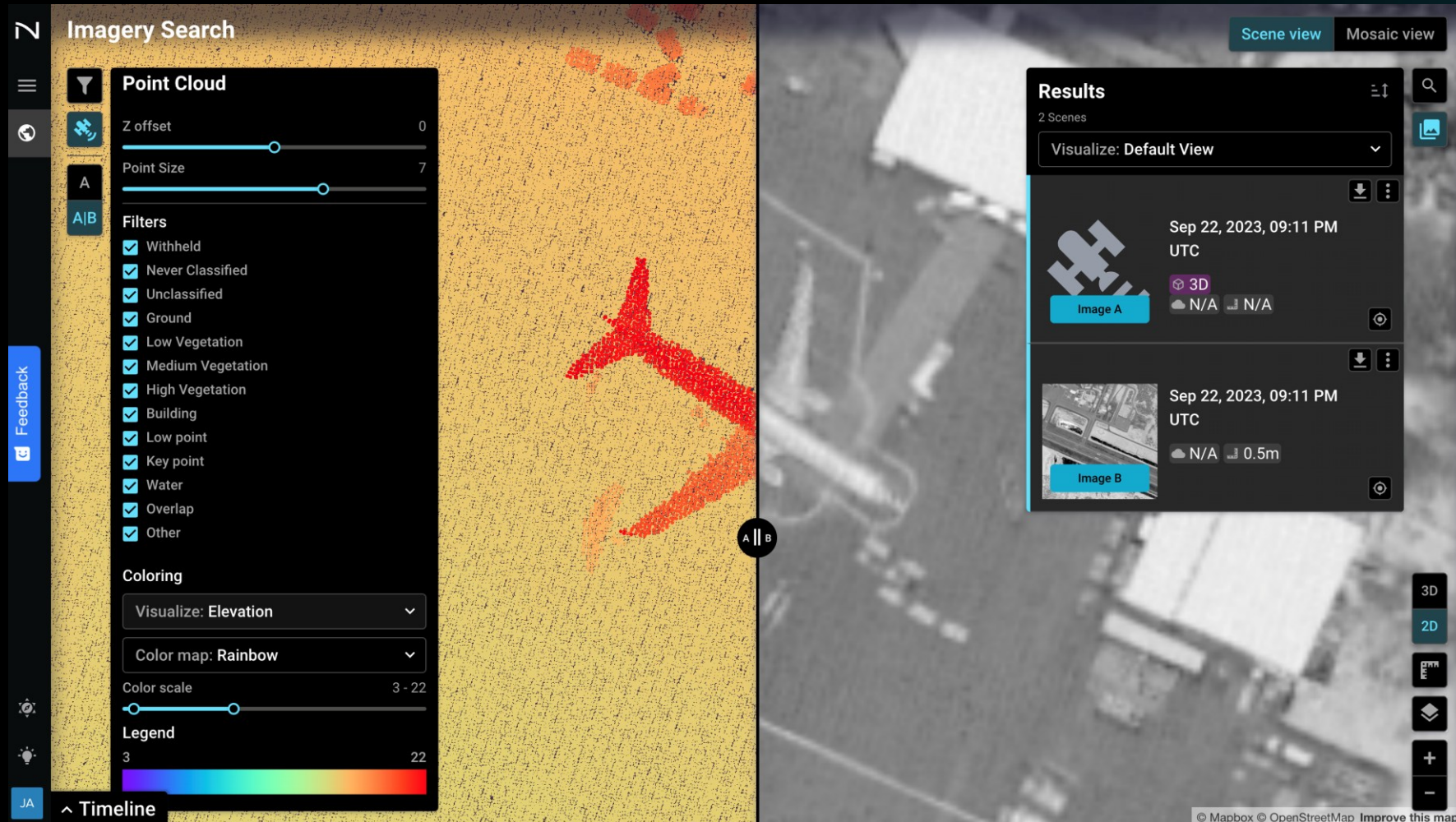
Merle K. Smith Airport – Intensity Image



Merle K. Smith Airport – Point Cloud



Comparing Different Datasets





NUVIEW

ELEVATING **LiDAR & ACCESSIBILITY**

Contact: jacob.thiel@nuview.space