



GWFF

GEOSPATIAL WORLD FORUM

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UP⁴²

Enabling Scalable Forest Monitoring at UP42

Brian Pendergast | Customer Success Manager
May 16th, 2024

WHAT WE DO

UP42's geospatial platform and marketplace **simplifies data access, streamlines data management,** and **empowers imagery processing** for seamless downstream integrations.



The team

100+ employees from 30+ countries
Headquartered in Berlin

What our customers say about us

LiveEC²

“

UP42 offers us a whole new way to deliver new space solutions to our clients. By providing us with easy access to high-quality geospatial data, we can run our code, receive results, and scale up our processes. With API-based access and price transparency, UP42 is democratizing access to geospatial data and the potential applications are endless.

DANIEL SEIDEL
Co-Founder

 CarbonStack

“

UP42 and Pléiades Neo give us the opportunity to use satellite images instead of drones or airplanes for our forest monitoring. This approach is much more flexible and cost-efficient than previous methods.

JULIAN KAKAROTT
CEO

overstory

“

UP42 keeps a pulse on what satellite providers are doing, so we understand what's coming and how to pivot or modify orders if needed. It's a real partnership that allows us to deliver precise insights to our own customers and build smarter machine learning models that support valuable global vegetation intelligence.

ANDREW CREAMER
Satellite Data Acquisition Specialist

 TREEFERA

 TREEMETRICS

 ngis
people partnership success

 KFW

 Treeeconomy

The UP42 ecosystem

DATA SERVICES



Catalog

Order **archive data** from **multiple providers** through a single touchpoint.



Tasking

Place **tasking orders**, get instant **price estimates**, and track order status.



DATA MANAGEMENT SERVICES



Data management

Benefit from **STAC**, **standardized formats**, and easier **integrations**.



Processing

Enhance your data and translate it into **actionable insights**, at **scale**.

VALUE-ADDED SERVICES



Customer success

Receive expert technical support with any questions or code.

Platform services

Core platform services to enable product offerings



Account management



Compliance automation



Payment services



Documentation Hub

Helping you choose among our products and empowering self-service.



Interfaces

UP42's access options for customers



Console



API



SDK



Add-ons

Example archive and tasking collections

Optical satellite
starting from 30 cm



Pléiades Neo (Airbus)



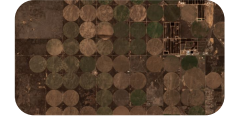
Pléiades (Airbus)



EROS C (ISI)



TripleSat (21AT)



Sentinel-2

Optical aerial
starting from 5.5 cm



Vexcel



Hexagon



Getmapping

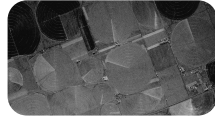


Bluesky

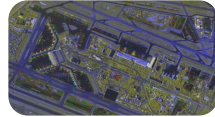


Near Space Labs

SAR
starting from 25 cm



Umbra



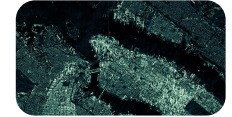
TerraSAR-X (Airbus)



Kompsat-5 (SIIS)

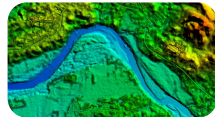


Capella Space

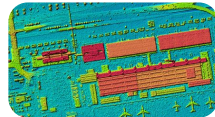


ICEYE

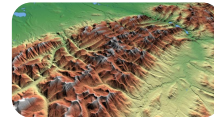
Elevation & Others
starting from 50 cm



NEXTMap (Intermap)



Hexagon



WorldDEM (Airbus)



Forest-2 (OroraTech)



Globhe

Catalog

Discover archive data across multiple providers

The screenshot shows the UP Catalog web application. At the top, there's a navigation bar with 'Dashboard', 'Catalog', 'Tasking', 'Data management', 'Projects', and 'Marketplace'. Below this is a search bar and a 'Filters' button. The main content area is divided into a sidebar on the left and a map on the right. The sidebar lists satellite providers grouped by resolution: 'VERY HIGH RESOLUTION ($\le 0.50\text{ M}$)' including 'Pléiades Neo', 'Hexagon - North America 30 cm', and 'Pléiades'; 'HIGH RESOLUTION ($\pm 0.50\text{ M AND } \pm 2\text{ M}$)' including 'TripleSat' and 'SPOT'; 'MEDIUM RESOLUTION ($\pm 2\text{ M AND } \pm 20\text{ M}$)' including 'Sentinel-2'; and 'LOW RESOLUTION ($\pm 20\text{ M}$)' including 'Landsat 8'. Under 'Non optical', there's 'WorldDEM Neo DSM'. The map shows a topographic view of a river valley with a blue AOI overlaid. A scale bar at the bottom left indicates 2 km and 1 km. A text box at the bottom center says 'Coast AOI: 9.00 km²'. The bottom of the map has 'Terms of use © 2024 HERE, Canada'.

New Catalog UX for easier collection discovery



Improved collection discoverability

- Refreshed catalog design improving the discoverability of available collections
- A new sidebar view, grouping data by collections and resolution
- A new Search this area view, updating the scenes for the chosen AOI

Tasking

Place complex tasking orders, get instant price estimates, and track order status



View collections and specifications upfront

Available collections listed with resolution, pricing, and minimum order specifications.

Upload complex geometries and validate AOIs

Upload geometry files that cover your AOI. You'll be notified about the compatibility of your AOI to proceed with your order.

Get instant price estimates

For your chosen collection and AOI, you'll be given an estimate of the approximate credits to place the order.

What to expect

Enhance your tasking experience with opportunities, geometry validation, and tracking features.

The screenshot shows the UP42 tasking interface. At the top, there are four steps: 1. Select tasking collections, 2. Add geometry, 3. Configure order, and 4. Review and confirm. The current step is 'Add your geometry and select a collection'. Below this, three collections are listed:

- Piñades Neo** (Airbus): Resolution: Min: 30 cm, Max: N/A; Minimum order: Min. order size: 100 km²; Price: from 2,600 credits per km².
- EROS-C** (ImageSat): Resolution: 30 cm; Minimum order: From 100 km²; Price: from 5,100 credits per km².
- Capella Space** (Capella Space): Resolution: 50 cm; Minimum order: From N/A; Price: from 106,100 credits per scene.

At the bottom of the interface, the approximate price is shown as 2,287,532 credits. A map of Berlin is visible on the right side of the interface, with a tasking area highlighted in blue. The map shows the city of Berlin and surrounding areas, with a tasking area highlighted in blue. The approximate price for the selected tasking area is 2,287,532 credits.

Tasking ordering - Collections comparison

Data management

Store, access, and organize your data in one place

The screenshot displays the Up42 Data Management interface. The top navigation bar includes 'Dashboard', 'Catalog', 'Tasking', 'Data management', 'Projects', 'Custom blocks', and 'Marketplace'. The main content area is titled 'Pleiades_Neo_Ortho_Display_Pansharpened_Morocco' and shows a map view with a central satellite image. On the left, there is a 'Scene list' panel with three entries:

- Multispectral NED data**: View on map. File: dfb8327e_img_pneo3_202108281106012_pms-fs_ort_pwoi_000032640_3_1_f_1_ned_r1c1.tiff. Data type: multispectral. Format: TIFF.
- Multispectral RGB data**: View on map. File: dfb8327e_img_pneo3_202108281106012_pms-fs_ort_pwoi_000032640_3_1_f_1_rgb_r1c1.tiff. Data type: multispectral. Format: TIFF.
- Region of interest mask**: File: eb5ac96f_roi_pneo3_202108281106012_pms-fs_ort_pwoi_000032640_3_1_f_1_geojson. Data type: data-mask. Format: GeoJSON.

The map shows a geographical area with a central satellite image and a region of interest mask. The map includes a scale bar (3 km / 1 mi) and a Leaflet logo.

Data management - Scene list



A STAC-compatible solution

A common metadata and structure enabling downstream integrations, visualizations, and more.

Advanced data management

Data customization (tags, titles, etc), advanced search, filter & sort capabilities.

Standardized data for easier integrations

Standardized delivery through our cloud-native asset model: search, download and visualize asset files

Scene visualization and map view

Display stereo, tri-stereo, tiled, and temporal data and their geospatial information.

Read more about [STAC](#) and [CNAM](#)



Join our ecosystem.

Please Reach Out:

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