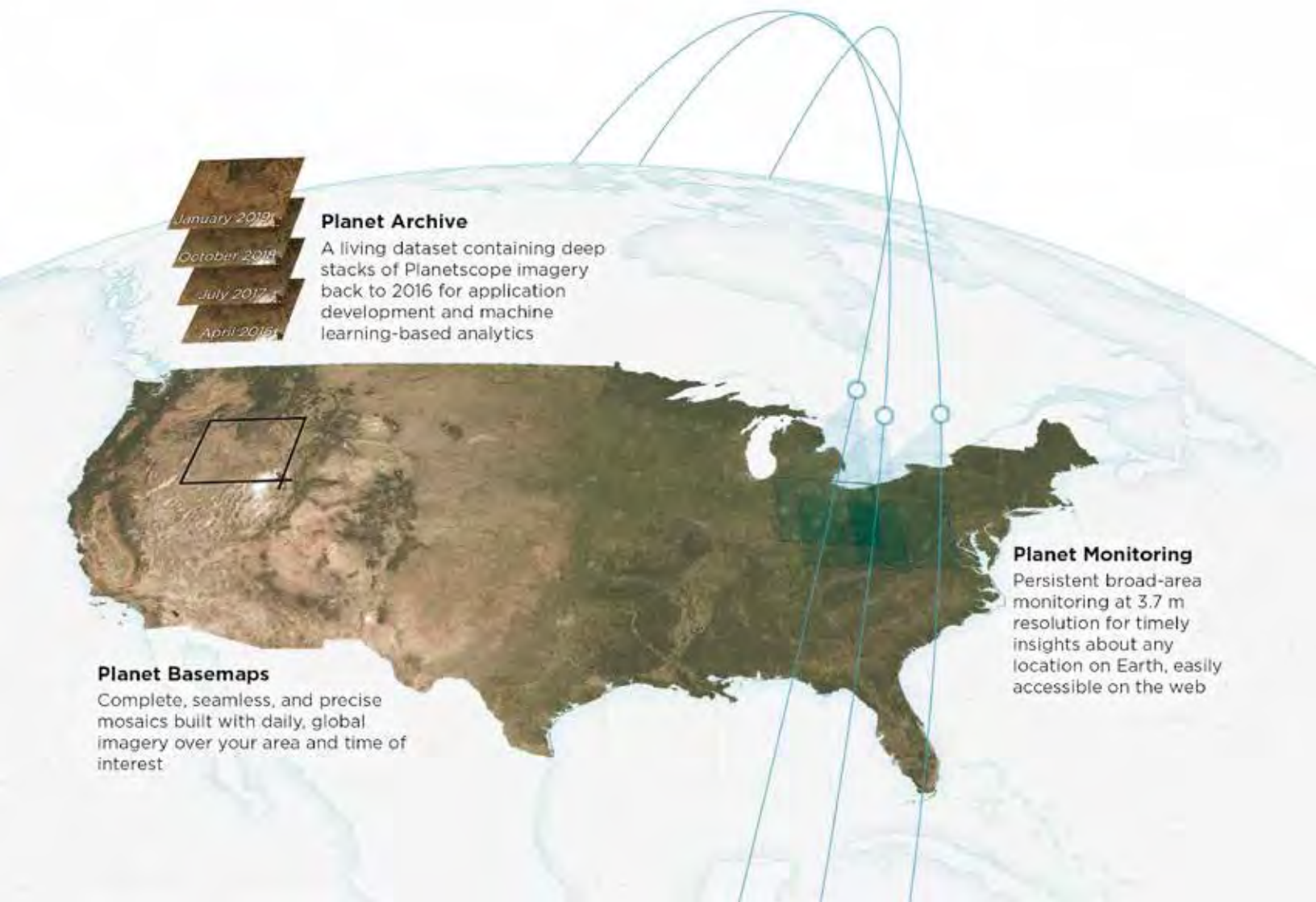
+ PLANETSCOPE
Solutions Overview

Built upon the world's largest constellation of commercial Earth observation satellites, our PlanetScope product offerings provide timely insights for every location on Earth's landmass, every day. From our flagship monitoring solution to seamless basemaps, the PlanetScope constellation continually collects new imagery, filling critical data gaps and ensuring a more comprehensive, persistent understanding of activities across the globe.



Planet Archive
A living dataset containing deep stacks of Planetscope imagery back to 2016 for application development and machine learning-based analytics

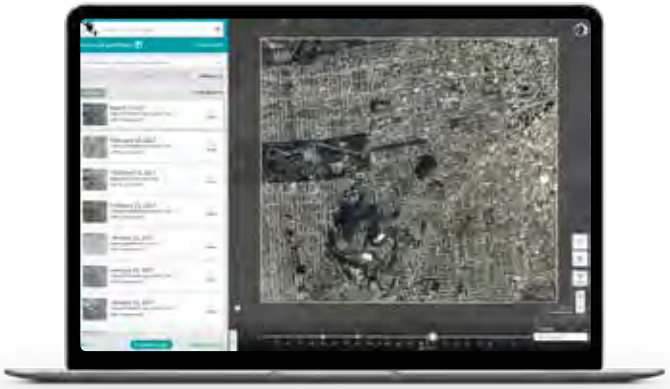
Planet Monitoring
Persistent broad-area monitoring at 3.7 m resolution for timely insights about any location on Earth, easily accessible on the web

Planet Basemaps
Complete, seamless, and precise mosaics built with daily, global imagery over your area and time of interest

PLANET ACCESS

Hosted subscription for viewing frequent imagery over your areas of interest.

Planet Access is a flexible, cloud-based subscription that empowers you with on-the-fly access to the Planetscope imagery catalog. With an annual subscription, you get immediate access to new imagery, updated daily, or to the Planetscope archive. Planet Access enables you to stream imagery and only download the pixels you need. This saves you time and helps you manage your resources efficiently.



IMAGERY SPECIFICATIONS

	Basic Scene	Ortho Scene & Ortho Tiles
Description	Imagery as seen from the satellite without correction for terrain geometric distortions.	Orthorectified imagery to remove terrain geometric distortions; & orthorectified scenes composited together in 25 km x 25 km tiles.
Ground Sample Distance	3.7 m	3.7 m
Pixel size	3.7-4 m	3.125 m
Spectral bands	Visual (red, green, blue) Analytic (red, green, blue, NIR)	Visual (red, green, blue) Analytic (red, green, blue, NIR)
Bit depth	Visual: 8 bit Analytic DN: 12-bit Analytic (Radiance - W m-2 sr-1 µm-1): 16-bit	Visual: 8 bit Analytic DN: 12 bit Analytic (Radiance - W m-2 sr-1 µm-1): 16 bit Analytic Surface Reflectance: 16 bit
Geometric precision	< 10 m RSME	< 10 m RSME
File components	• Image File – GeoTIFF format • Metadata File – XML format • Rational Polynomial Coefficients - XML format • Thumbnail File – GeoTIFF format • Unusable Data Mask (UDM) File – GeoTIFF format	• Image File – GeoTIFF format • Metadata File – XML format • Rational Polynomial Coefficients - XML format • Thumbnail File – GeoTIFF format • Unusable Data Mask (UDM) File – GeoTIFF format
Radiometric conversion	Conversion to absolute radiometric values based on calibration coefficients. Radiometric values scaled by 100 to reduce quantization error.	Conversion to absolute radiometric values based on calibration coefficients. Radiometric values scaled by 100 to reduce quantization error.

LET'S TALK

We're Here to Help!
Get answers to technical questions about PlanetScope products
support@planet.com

Contact Us
Learn how Planet can help you turn data into actionable insights
go.planet.com/getintouch

Learn More
planet.com

SKYSAT SOLUTIONS OVERVIEW

Planet's SkySat constellation powers the most transparent, scalable platform for high-resolution, high-revisit satellite imagery available. Organizations who need real-time, accurate views of rapidly changing ground conditions gain intelligence and visibility on their own terms.

Planet's 21 SkySats can revisit any point on Earth an average 5-10 times per day at 50 cm spatial resolution, a higher frequency than any other commercial satellite imagery provider. Organizations can acquire imagery on-the-fly, levelling the playing field for capturing insights over hot spots and remote geographies.

SOLUTIONS

Tasking

Accelerate decision cycles with flexible (on-the-fly) collections over your areas of interest

Areas will be tasked until cloud cover requirements are met or program duration ends

Archive

Access to the full SkySat archive – 10M+ square kilometers captured since 2014

Archive imagery available for online viewing in Planet Explorer

Basemaps

Complete, seamless, and precise mosaics built with high-resolution, sub-daily imagery over your area and time of interest

Basemaps are custom built to your needs

ADVANTAGES

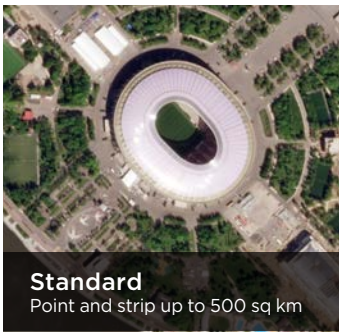
Very high resolution
Discriminate ultra-fine details with 50 cm spatial resolution imagery to gain the best analytical context for decisions

Tip and cue
Integrate Planet's always-on, PlanetScope Monitoring for reliable, broad context to efficiently gauge needs for high-resolution imagery

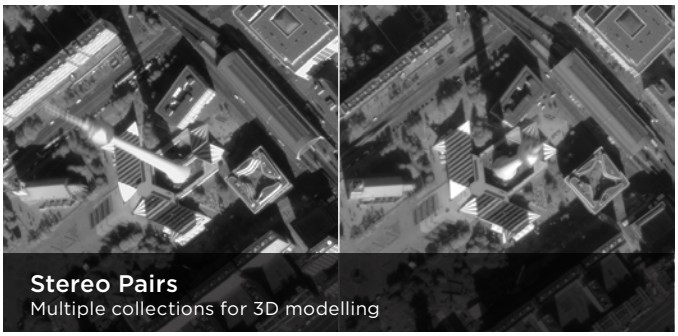
Rapid delivery
Act on information quickly with publication times offered up to 3 hours from capture

Stereo and video collection
Utilize a variety of formats to satisfy novel use cases like volumetric analysis and 3D reconstruction

COLLECTION TYPES



Standard
Point and strip up to 500 sq km



Stereo Pairs
Multiple collections for 3D modelling

Video
Pan video up to 120 seconds

IMAGERY PRODUCT SPECIFICATIONS

	Basic Scene		Ortho Scene & SkySat Collect		
Ground sample distance	Panchromatic: 0.65-0.86 m Multispectral: 0.81-1.00 m		Panchromatic: 0.80 m Multispectral: 0.50 m		
Pixel Resolution	N/A		Analytic, Analytic DN, Panchromatic DN, Visual, Pansharpened Multispectral: 0.50 m		
Spectral Bands	Blue: 450 - 515 nm	Green: 515 - 595 nm	Red: 605 - 695 nm	NIR: 740 - 900 nm	Pan: 450 - 900 nm
Bit depth	16-bit		Analytic DN; Analytic; Panchromatic DN; Pansharpened Multispectral: 16-bit		
			Visual: 8-bit Unsigned Integer		
Geometric precision	< 50 m RMSE		< 10 m RMSE		
File structure	Image File – GeoTIFF format Metadata File – JSON format Rational Polynomial Coefficients – Text File (Basic only) UDM File – GeoTIFF format				
Radiometric conversion	Analytic product - Absolute Radiance derived using vicarious calibration methods. Radiometrically calibrated to radiance units and scaled by 100 to reduce quantization errors				
Revisit time	Nadir: 28 days per spacecraft; sub-weekly per constellation Off-Nadir: sub-weekly per spacecraft; intra-daily per constellation				

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