

# The EarthDaily

C O N S T E L L A T I O N

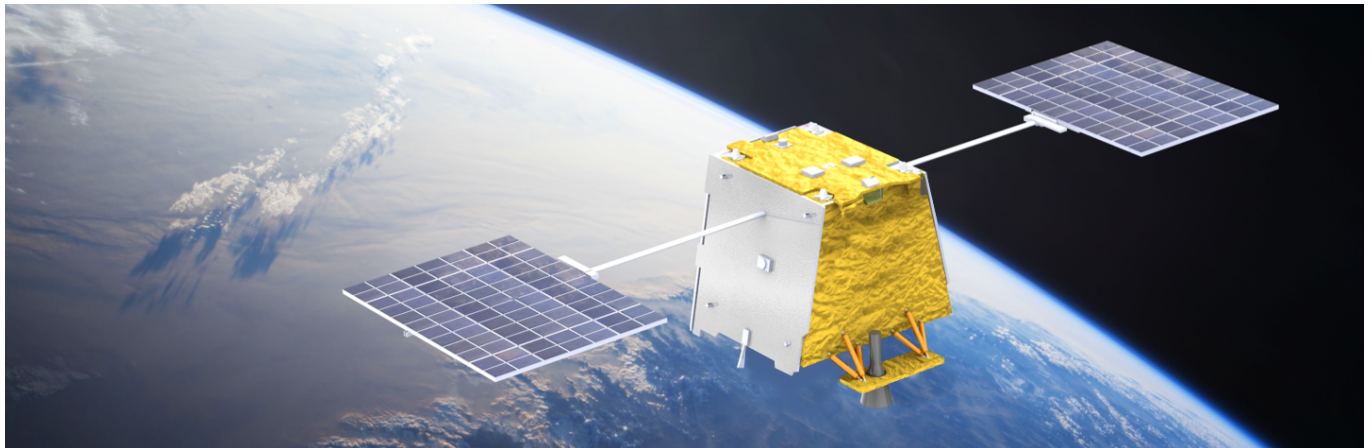
Introducing EarthDaily Constellation:  
the world's most advanced change detection system.

# Why EarthDaily?

Global change detection at its best is finally a reality.

Brought to you by a team of space industry experts with decades of experience in satellite mission design, satellite manufacturing and ground processing, EarthDaily Constellation is launching and fully operational

in 2025, ready to take change detection to the next level with Earth Observation data that boasts the best quality, the broadest coverage, and the highest revisit frequency. The unprecedented insights, unlocked by our constellation, will enable our customers to make informed decisions with the magnitude of accuracy and efficiency unseen before.



## EarthDaily Constellation dataset highlights



Best practices for space mission design

Rigorous pre and post launch calibration in addition to meticulously maintained orbit and attitude control



Data quality

Scientific-grade with push-broom imagers and time-delayed integration to achieve high signal to noise ratios



Spectral Diversity

Industry leading spectral quality and range with 22 highly calibrated spectral bands covering Visible, Near-, Short-wave-, Mid-wave-, and Thermal-Infrared bands



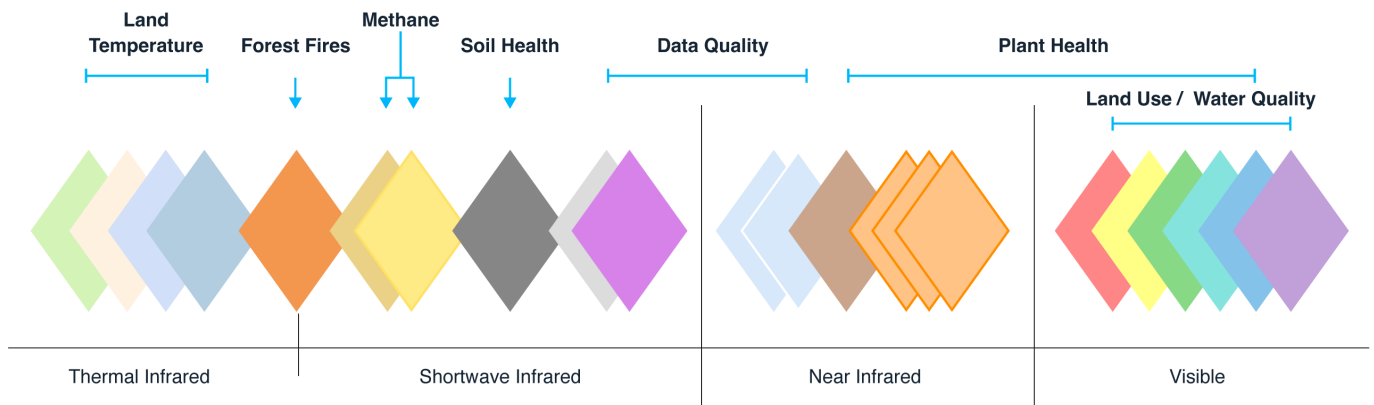
Optimized coverage and revisit frequency

Collecting imagery over the same location at the same time, daily, capturing near 100% of the Earth's landmass and maritime regions, daily, empowered by a string of pearls constellation design



Historical data available

With no tasking needed, the Earth's entire landmass is imaged and archived every day supporting retrospective time series analysis and forward-looking predictive analytics



## Sensor Highlights

Visible	Aerosol 1	Blue	Turquoise	Green	Yellow	Red
Near IR	Red Edge 1	Red Edge 2	Red Edge 3	Near Infrared	Water Vapour 1	
Shortwave IR	Water Vapour 2	Aerosol 2	Cirrus	Soil Moisture	Methane Ref	Methane
Thermal IR	Wildfire	Thermal 1	Thermal 2	Thermal 3	Thermal 4	

## Space segment details

EarthDaily Constellation is a systematic collection mission, always nadir looking, always-on (over land). Other experimental and special use-case modes exist on a by-request basis, subject to mission capacity.

Number of Satellites	10
Launch Period	2025
Spacecraft	Arrow bus from Airbus
Design Life	10 years
Orbit	Sun-synchronous; 10:30 AM local time passover
Orbit Control	Precisely maintained for consistent viewing over mission life
Revisit	1 Day; daily coverage of ~100% of Earth's landmass
Resolution	VNIR: GSD: 5.0m SWIR: GSD: 95m Thermal: GSD: 120m
Altitude	~630km
Viewing Angle	Nadir (always)
Delivery Method	Cloud distribution, API-first approach

Any questions?  
Our experts are happy to help.



Contact EarthDaily Analytics  
sales@earthdaily.com

## EarthPipeline: key to our superior data

Introducing the world's first fully managed ground segment pipeline as a service: EarthPipeline, a New Ground solution for New Space, designed to transform downlinked satellite data into high scientific quality "Analysis Ready Data" (ARD) at scale. Guaranteed quality through:

Proprietary algorithms enabling highly accurate radiometry (less than 5%) and geolocation (nominally less than 5m RMSE)

- ✦ Fully automated cloud-processing
- ✦ Integrated processing, calibration, quality control
- ✦ Machine-learning and physics-based models for processing and quality control
- ✦ API based distribution



#### General Inquiries

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