



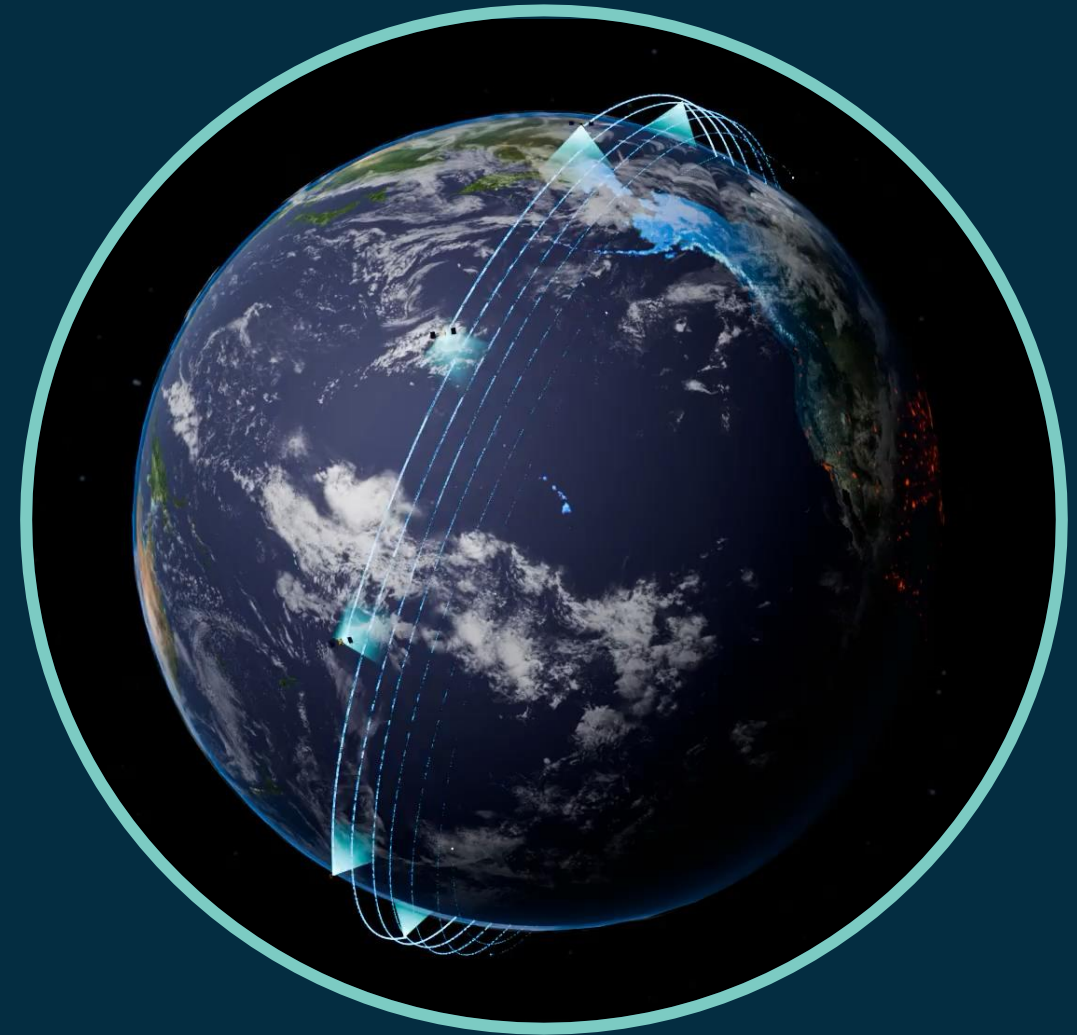
NEXT GENERATION
EARTH OBSERVATION
— FORUM —
PRESENTED BY EARTHDAILY



— FORUM SUR —
LA PROCHAINE GÉNÉRATION DE
L'OBSERVATION
DE LA TERRE
PRÉSENTÉ PAR EARTHDAILY

The EarthDaily Constellation

EarthDaily delivers continuous, scientific grade data that enables our customers to see change, understand context, and predict outcomes with confidence.



The intelligence infrastructure for a changing planet.

Daily *Revisit*

5m *Resolution*

22 *Spectral bands covering VIS, NIR, SWIR and TIR*

10 *Identical satellites*

Purpose-built for global change detection

- Consistent**
10:30am local equatorial crossing time, always nadir-viewing, every day. Variation in imagery reflects real change, not sensor drift.
- Calibrated**
<5% radiometric accuracy, cross-calibrated against trusted science missions. Reliable signal for the duration of the entire mission.
- Continuous**
No tasking — every pixel, every pass, automatically captured. Coverage is infrastructure, not a service you schedule.



Ready for Long Term Monitoring

16 Imagers

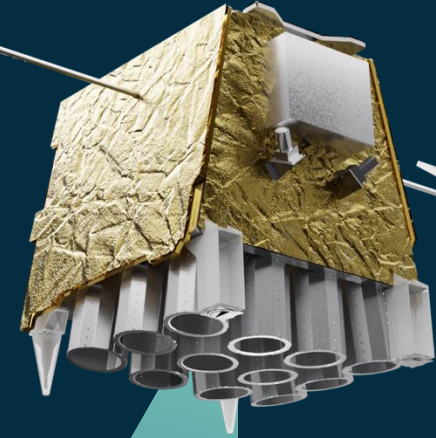
- 12 VNIR Imagers | 5m GSD
- 2 SWIR Imagers | 95m GSD
- 2 Thermal IR Imagers | 120m GSD

Optimized for Quality and Change Detection

- Same push-broom technology as NASA/ESA
- High SNR: Time-Delayed Integration -> 100+
- Consistency: Controlled orbit and always same viewing geometry for improved change detection
- Compatibility: Interoperable with S2 and LS

High-Quality Satellites for Science

- 9 Satellites + 1 spare ; 10-year design life
- Satellite Mass 215kg
- Ultra-stable high-reliability bus from Airbus
- High geolocation accuracy - significant flight heritage (100's have flown)

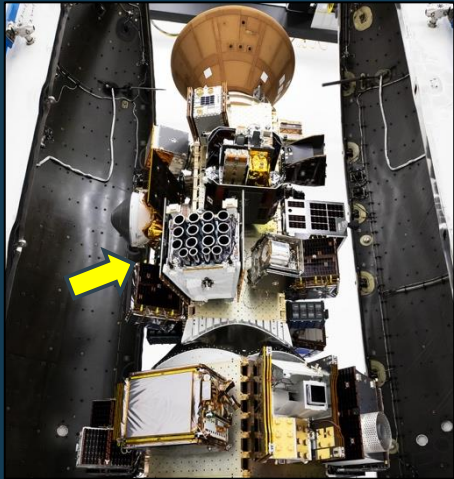


Building, Launching, and Commissioning 10 Satellites



EDC-01 has been used to commission our systems and processes for the next 9 Satellites

- Launched 1 June 2025
- Launched 6 satellites in May 2026
- Launching 3 more satellites



EDC-1 launched by SpaceX on June 23, 2025. (Image credit: SpaceX)



EDC-2-7 launched by SpaceX on May 3, 2026. (Image credit: SpaceX)



EDC Deployment May 3, 2026

Daily Global Coverage

Science-Grade Data from EarthDaily Constellation:

A 5-meter Earth Observation system built for daily tip and cue and, once fully operational, 90%+ daily global coverage (landmass and littoral).

A Dual Use Space-Based System:

The EDC is well-suited and ready to serve civilian and defense missions as part of an integrated and dual use space-based architecture – this includes data and value-added products.

Enhanced Analysis Capabilities:

EDC will enable better object identification and change detection by reducing likelihood of false positives often caused by time series anomalies and inconsistencies in EO quality.



EDC Imagery Products



Tasking available for:

- Locations not covered
- Special collections
- Experimental modes

World-Class Industrial Team Creating Scientific Class Satellites for True Enterprise Grade Change Detection and Analytics



Swath Configuration	
Swath Width (VNIR)	20 km
Swath Width (SWIR)	120 km
Swath Width (TIR)	120 km
Effective Swath/Sat	240 km

Pre-Launch Camera Calibration and Characterization

Top Tier Physicists with extensive pre-launch calibration experience for science missions

Thermal camera using proprietary microbolometer detector

World-leader in innovative thermal cameras

Camera Optical Systems, and payload integrator

Previously developed world-class government science instruments

Satellite, Launch, Satellite Control System and Operations

Disruptive systems integrator with a successful track record on multiple missions

Payload electronics for all camera systems

Proven track record of electronics delivery for space missions

Provides the OneWeb bus under contract to Loft Orbital

Established satellite bus provider with deep industry experience



No *tasking.*

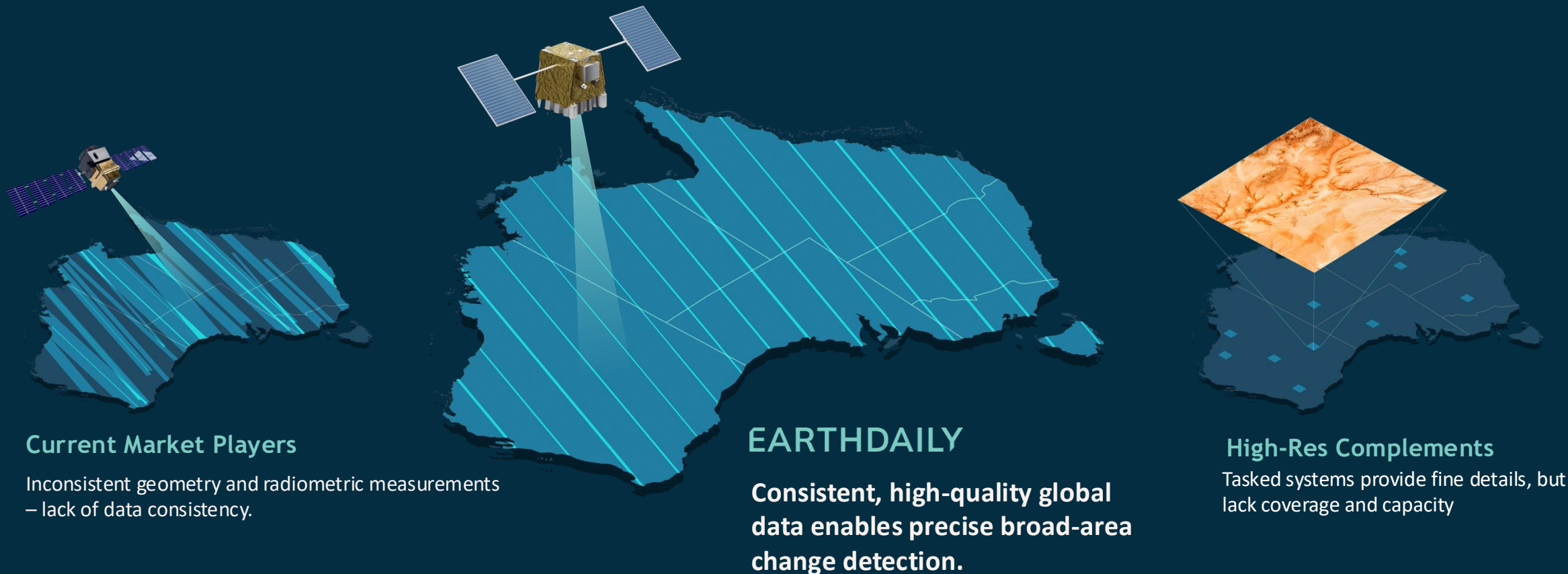
We don't task,
and that is the point.

Every satellite collects everything in its 240 km swath on every pass, every day, automatically.

What this means for EarthDaily Customers

- No collection planning**
No need to schedule or prioritise. Every pixel collected by default.
- Capture key events**
Floods, fires, emergency response — the imagery is already acquired.
- No tasking cost**
Pricing is area-based, not collection-based. Predictable and transparent.
- Consistent archive**
Always-growing time-series with consistent geometry and radiometry.

We Fill the Consistency & Quality Gap that AI Needs



Current Market Players

Inconsistent geometry and radiometric measurements
– lack of data consistency.

EARTH DAILY

Consistent, high-quality global data enables precise broad-area change detection.

High-Res Complements

Tasked systems provide fine details, but lack coverage and capacity



EarthDaily Constellation Calibration

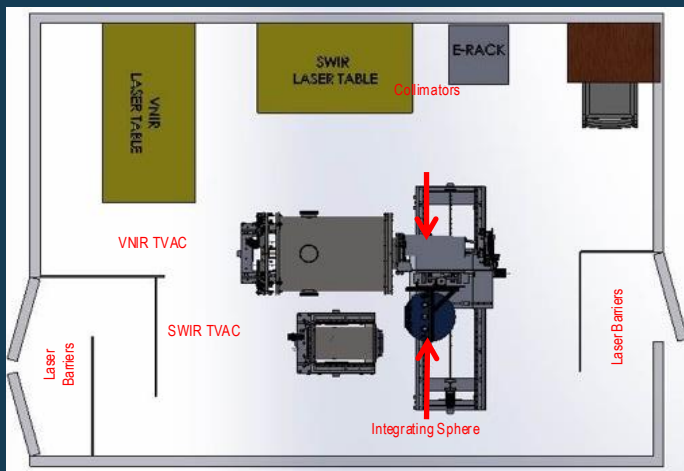
Filling Consistency & Quality
Gaps that AI Needs



Pre-Launch Calibration

Achieving science-grade products starts with detailed characterization of

- 120VNIR,
- 20SWIR, and
- 20 TIR Imagers



VNIR TVAC



SWIR TVAC



2 Years of work with over 500K sensor datasets collected across the 160 sensors!

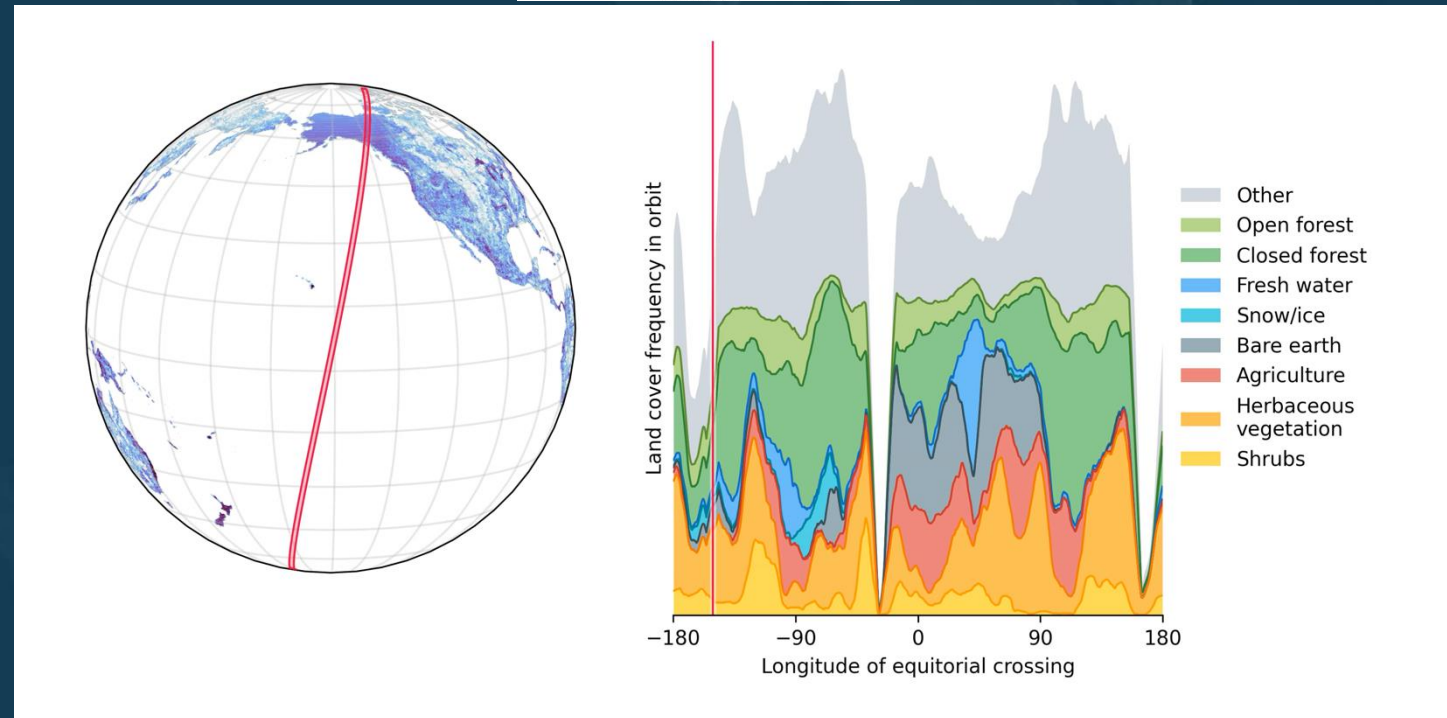
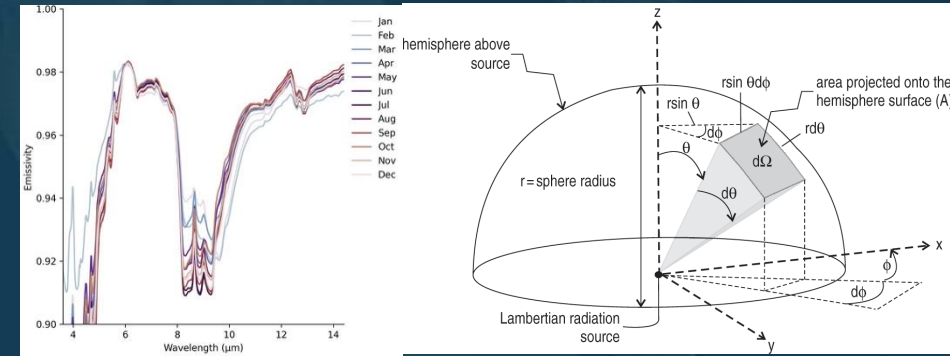
Post-Launch Calibration

Over 500,000 fully characterized calibration sites globally

Every orbit has a reasonable number of calibration sites observable by every imager.

We apply:

- A rigorous models of each calibration site
- A rigorous models of each imager





EarthDaily Constellation

Image Data Products



Understanding the difference between Analysis-Ready Data (ARD) and AI-Ready Data (AiRD)

Levels of Earth Observation Data:

Level 0 (Raw Data)

- Unprocessed sensor data directly from satellite instruments.

Level 1 (Calibrated Data)

- Basic radiometric and geometric corrections applied.
- Suitable for remote sensing experts with dedicated processing capabilities.

Level 2 (Analysis-Ready Data - ARD)

- Ready for direct analysis without additional preprocessing.
- Radiometrically and geometrically corrected, georeferenced.
- Interoperable across sensors and platforms.
- Standardized format (e.g., Cloud-Optimized GeoTIFF, STAC metadata).

EDA Level 2 (AI-Ready Data - AiRD) *(Our Differentiator)*

- Consistent, reliable, and ready for direct ingestion into AI/ML models.
- Advanced radiometric, geometric, and temporal capability
- Enhanced image processing optimized for machine learning workflows.
 - Unique Atmospheric Correction processing and data
 - Market leading cloud/shadow masking capabilities
- SLA-backed data quality assurance for AI applications.



Consistent – high temporal data



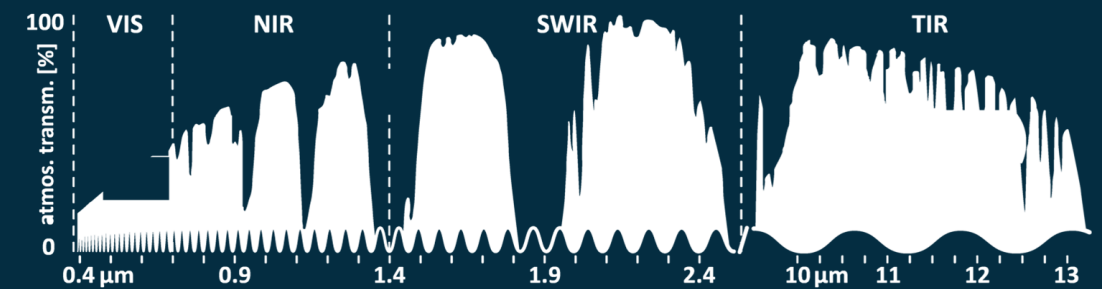
Optimized Cloud masks - Less clouds more data



Better than one-pixel geometric accuracy



SLA backed high quality radiometric resolution



Highest commercially available spectral range

Power Planetary-Scale Change Detection with AI-Ready Data

AiRD delivers analysis-ready Earth Observation data engineered from day one for machine learning—eliminating the preprocessing bottleneck that consumes a majority of engineering budgets. Enable immediate model deployment with plug-and-play imagery that feeds directly into your AI pipelines.

Spectral Bands



Processing Level	L2A
Radiometric Interpretation	Surface Reflectance
Product Components	<ul style="list-style-type: none"> Image Files (Cloud-optimized GeoTIFF) – one per band Thumbnail File (PNG) Quality Mask File (Cloud-optimized GeoTIFF) Saturation Mask Files (Cloud-optimized GeoTIFF, one per band) Atmospheric Parameters File (Cloud-optimized GeoTIFF) Pixel Processing File (Cloud-optimized GeoTIFF) Solar Angles File (Cloud-optimized GeoTIFF) View Angles File (Cloud-optimized GeoTIFF) EULA File (Text) README File (Text)
Included Bands and Product Sampling	<ul style="list-style-type: none"> 5m resolution – Blue, Green, Red, Nir Infrared 10m resolution – Aqua, Yellow, Red Edge 1, Red Edge 2, Red Edge 3
Data Type	16-bit unsigned integer
Compression	LZW
Blackfill	Products are black-filled in areas where not all bands overlap.
Resampling Kernel	Cubic Convolution
Horizontal Datum	WGS84
Map Projection	UTM
Quality Mask Layers	<p>The quality mask includes data for the following layers:</p> <ul style="list-style-type: none"> Data Cloud

Top-of-Atmosphere Data for Teams that Demand Full Processing Control

Maritime delivers tailored Earth Observation data built for quick, scalable processing and detection of maritime anomalies. Optimized for ocean and coastal change detection, Maritime provides the efficient, consistent imagery needed to power vessel detection, behavioral analysis, and coastal monitoring across the world's waterways, every single day.

Spectral Bands



Processing Level	L1C
Radiometric Interpretation	Top-of-Atmosphere Reflectance
Product Components	<ul style="list-style-type: none"> Image Files (Cloud-optimized GeoTIFF, one per band) Thumbnail File (PNG) Quality Mask File (Cloud-optimized GeoTIFF) Saturation Mask Files (Cloud-optimized GeoTIFF, one per band) Solar Angles File (Cloud-optimized GeoTIFF) View Angles File (Cloud-optimized GeoTIFF) EULA File (Text) README File (Text)
Included Bands and Product Sampling	<ul style="list-style-type: none"> • 5m resolution – Blue, Green, Red, Nir Infrared • 10m resolution – Aqua, Yellow, Red Edge 1, Red Edge 2, Red Edge 3 • 20m resolution – Coastal, Water Vapour 1
Data Type	16-bit unsigned integer
Compression	LZW
Blackfill	Products are black-filled in areas where not all bands overlap.
Resampling Kernel	Cubic Convolution
Horizontal Datum	WGS84
Map Projection	UTM
Quality Mask Layers	The quality mask includes data for the following layers: <ul style="list-style-type: none"> •Data •Cloud

Scalable Anomaly Detection Across the World's Oceans

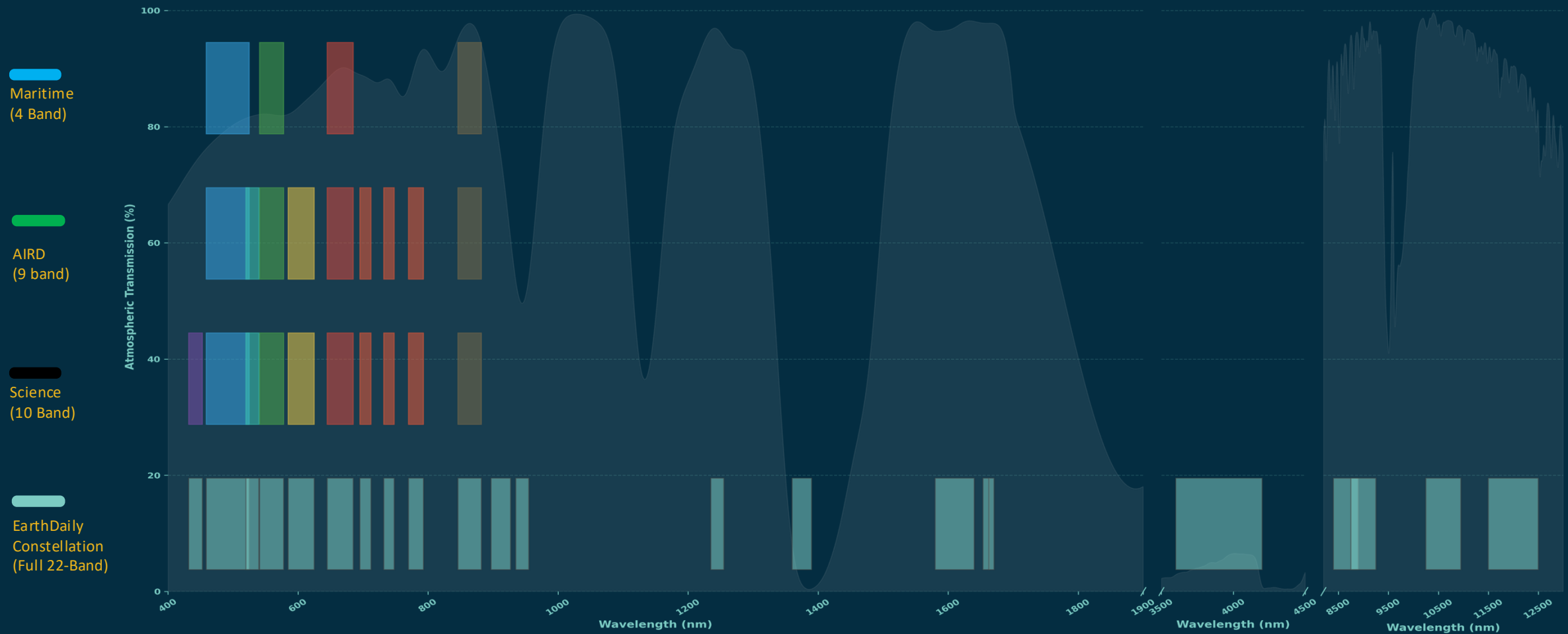
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Spectral Bands



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Included Bands and Product Sampling	<ul style="list-style-type: none"> 5m resolution – Blue, Green, Red, Nir Infrared
Data Type	8-bit unsigned integer
Compression	LZW
Blackfill	Products are black-filled in areas where not all bands overlap.
Resampling Kernel	Cubic Convolution
Horizontal Datum	WGS84
Map Projection	UTM

First Release Products





EarthDaily Constellation

Future Products



AiRD (+SWIR and TIR)
TIR)

FUTURE IMAGE DATA PRODUCT

Power Planetary-Scale Change Detection with AI-Ready Data

AiRD delivers analysis-ready Earth Observation data engineered from day one for machine learning — eliminating the preprocessing bottleneck that consumes a majority of engineering budgets. Enable immediate model deployment with plug-and-play imagery that feeds directly into your AI pipelines.

Spectral Bands



Processing Level	L2A
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Included Bands and Product Sampling	<ul style="list-style-type: none"> 5m resolution – Blue, Green, Red, Nir Infrared 10m resolution – Aqua, Yellow, Red Edge 1, Red Edge 2, Red Edge 3 80m resolution – SWIR1, SWIR2 120m resolution – Land Surface Teperature
Data Type	16-bit unsigned integer
Compression	LZW
Blackfill	Products are black-filled in areas where not all bands overlap.
Resampling Kernel	Cubic Convolution
Horizontal Datum	WGS84
Map Projection	UTM
Quality Mask Layers	<p>The quality mask includes data for the following layers:</p> <ul style="list-style-type: none"> Data Cloud

Top-of-Atmosphere Data for Teams that Demand Full Processing Control

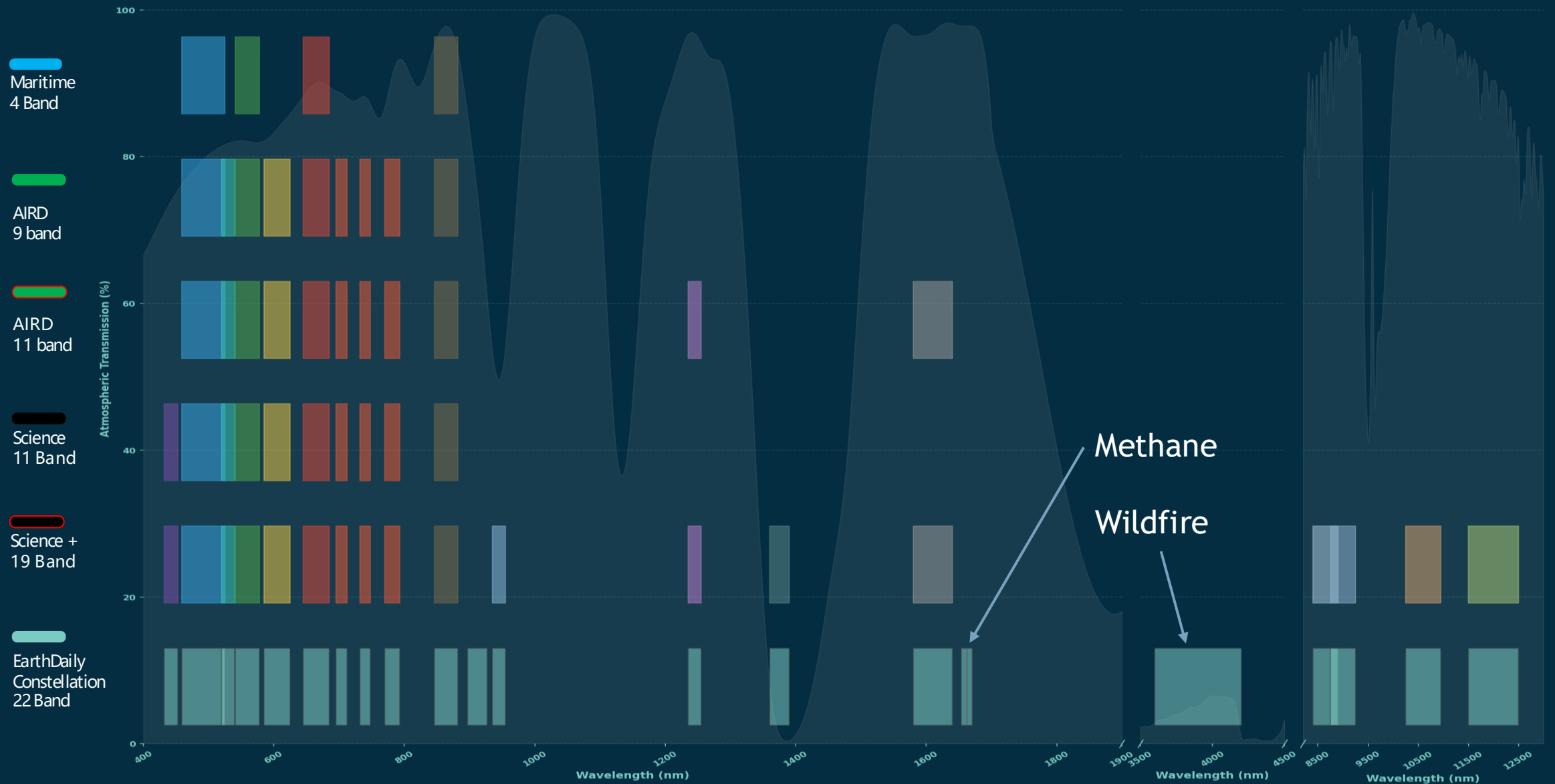
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Spectral Bands




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Data Type	16-bit unsigned integer
Compression	LZW
Blackfill	Products are black-filled in areas where not all bands overlap.
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Horizontal Datum	WGS84
Map Projection	UTM
Quality Mask Layers	<p>The quality mask includes data for the following layers:</p> <ul style="list-style-type: none"> •Data •Cloud

First Release Products



Spectral Diversity Spans Visible & Thermal

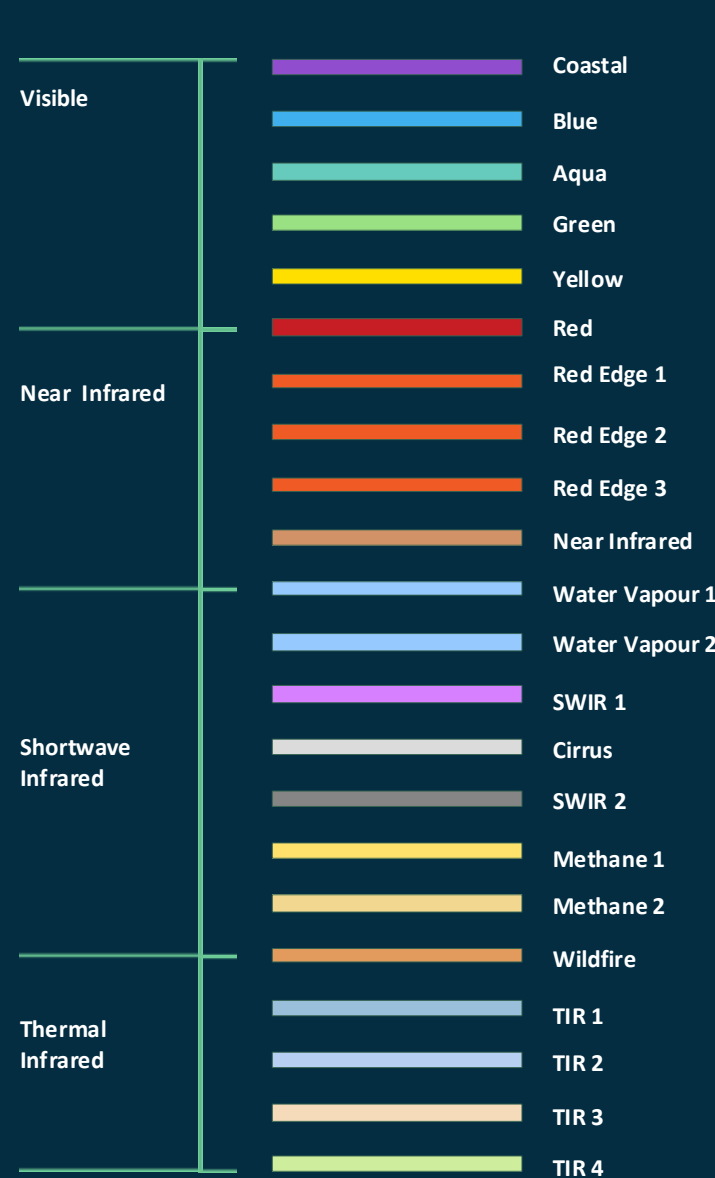
 Up to 5m enhanced resolution

 <12h latency

 AI-Ready Data

 Interoperable with well-known missions

 High signal-to-noise ratio





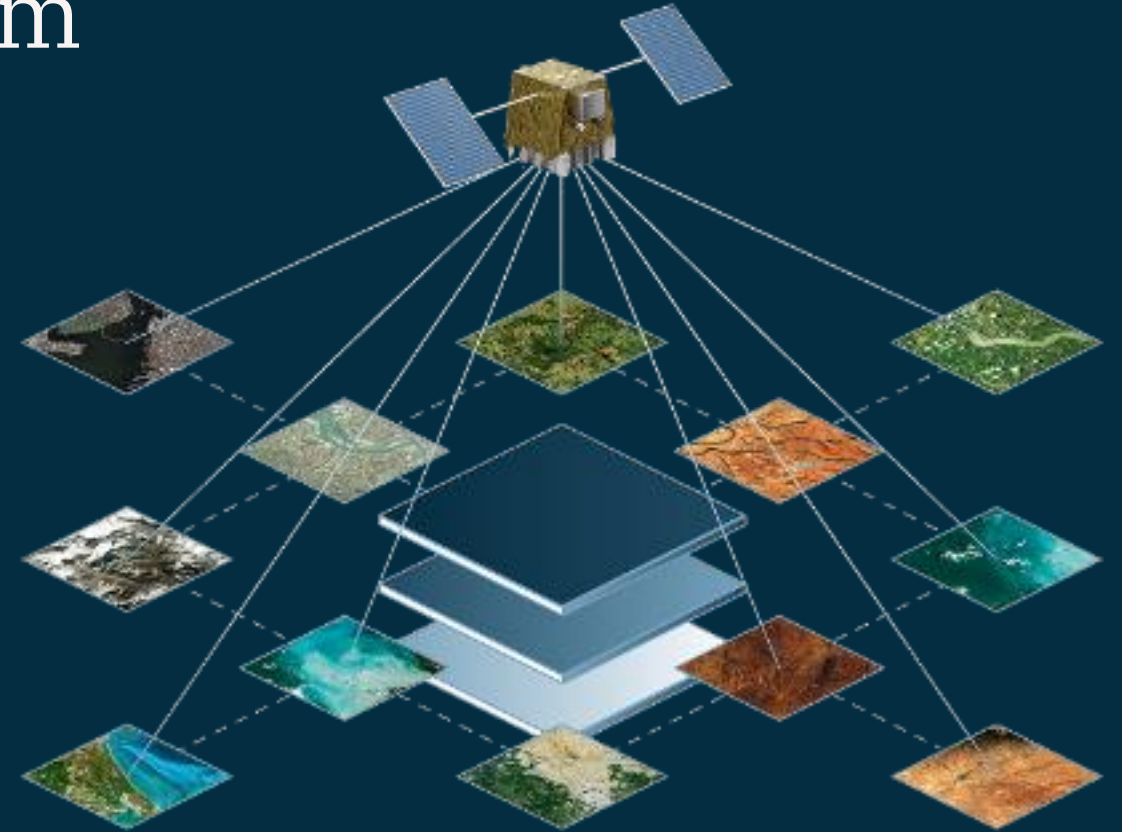
EarthDaily Constellation

In Summary



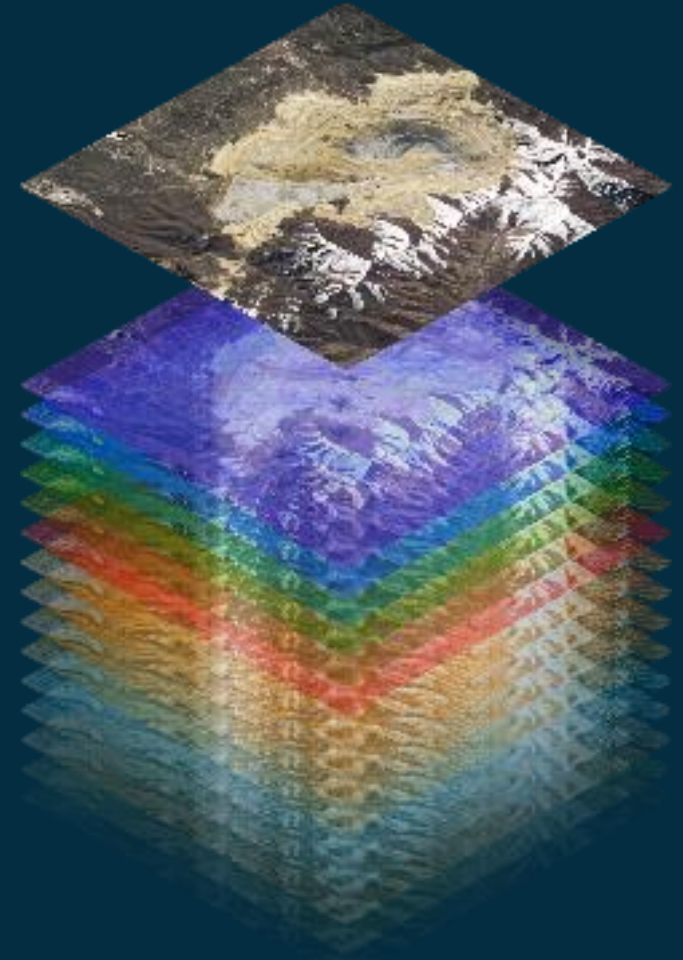
An *AI-first approach* to reclaim engineering budgets and foster more innovation

- First constellation engineered from day-1 for **AI/ML workflows**
- Plug-and-play **Ai-Ready Data (AiRD)**
- **Models train faster**, generalize globally, and stay accurate in production
- **Supports Foundation Models** to accelerate solutions



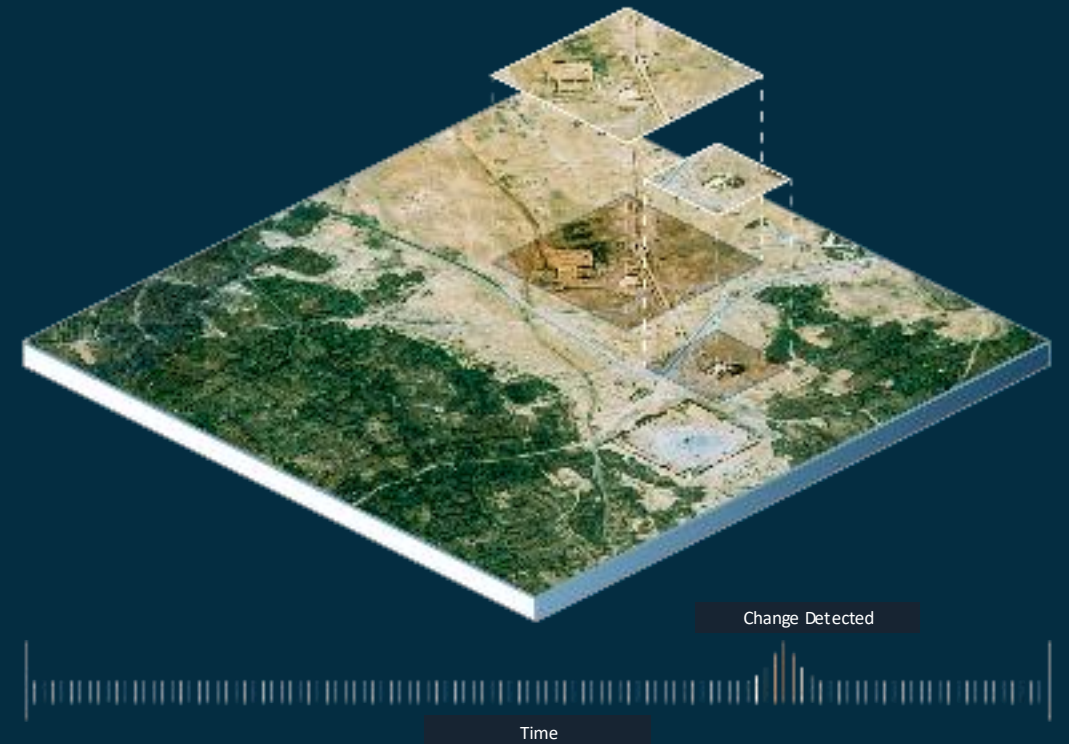
More consistent baselines mean better long-term *insights*.

- **Compatibility** with legacy, scientific datasets (e.g. Sentinel & Landsat)
- **Radiometric consistency** across the entire constellation
- **22-band spectrum** (including SWIR & thermal)
- **10-year** mission continuity



Fewer temporal gaps and *improved event detection.*

- **Daily global revisit** – less critical events missed; zero temporal interpolation required
- **Geometric fidelity** guaranteed by SLA
- Large swaths & mosaic capabilities for **maximized consistency**



AI-ready, low-latency, API-native delivery

Every image is radiometrically consistent, geometrically corrected, and ready for integration into our customer's pipelines.

FORMAT

Cloud-optimised GeoTIFF

Per band, ready for direct ingestion

METADATA

STAC-compliant

Industry-standard catalogue integration

LATENCY

Under 12 hours

From acquisition to availability

DELIVERY

API-first

STAC API and direct-to-cloud delivery