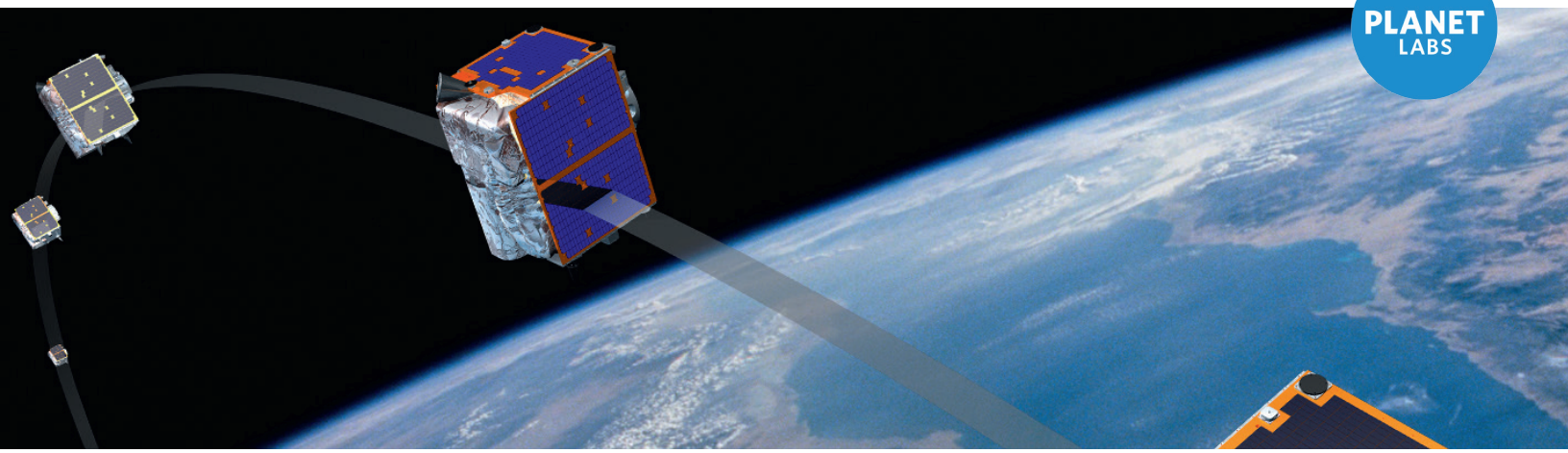


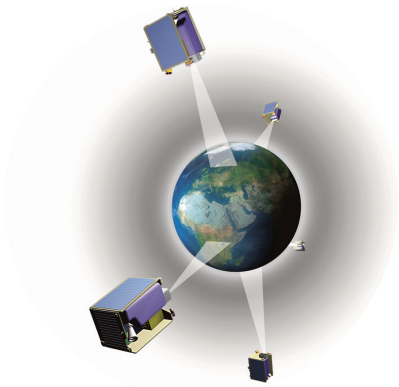
The RapidEye Satellite Constellation

Unrivaled Earth Observation Capacity

The Collection Benchmark

The RapidEye constellation of five identical satellites offers a unique combination of attributes within the industry.

A remarkable amount of high-resolution, multi spectral imagery can be collected from the satellites: up to 5 million km² a day, and over one billion km² every year.



Features

- Five Identical Satellites - equally calibrated
  - Indistinguishable differences in images from any of the 5 satellites
- High-Resolution Imagery
  - 6.5 m (1B Basic Product)
  - 5 m (3A Ortho Product)
- Wide Area Coverage
  - 77 km swath width
- Outstanding Daily Collection Capacity
  - Up to 5 million km² of imagery collected daily
  - Over 1 billion km² every year
- Five Spectral Bands
  - Blue, Green, Red, Red Edge, Near-Infrared
- Multitemporal Capabilities
  - Daily revisit at low view angle - never more than 20°
- Direct Downlink Availability

Benefits

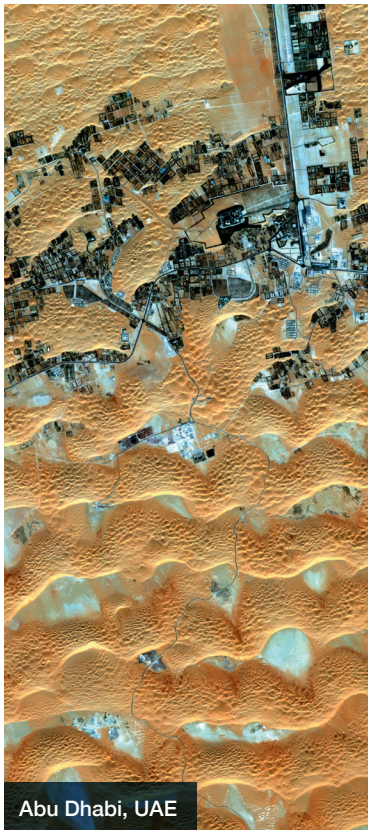
- Regions, states and entire countries can be imaged shortly
- Cost effective high-resolution data
- Effective for land cover / land use classification applications, change detection, background imagery, mapping, biophysical monitoring, etc.
- 70% of RapidEye‘s imagery is taken at 10° off nadir or less
- Over 60% of the RapidEye archive has 10% cloud cover or less
- The Red Edge band assists in advanced vegetation discrimination and identification of vegetation health status
- EyeFind is Planet‘s online discovery tool, allowing easy access to the entire RapidEye archive: eyefind.blackbridge.com

The RapidEye Satellite Constellation

Unrivaled Earth Observation Capacity

Mission and Product Characteristics

Number of Satellites	5	
Size of Each Individual Satellite	Less than one cubic meter	
Weight of Each Individual Satellite	150 kg	
Orbit Altitude	630 km (in Sun-synchronous orbit)	
Equator Crossing Time	11:00 am (approximately)	
Sensor Type	Multi spectral push broom imager	
Swath Width	77 km	
Spectral Bands	Blue	440 – 510 nm
	Green	520 – 590 nm
	Red	630 – 685 nm
	Red Edge	690 – 730 nm
	Near-Infrared	760 – 850 nm
Ground sampling distance (nadir)	6.5 m	
Pixel size (orthorectified)	5 m	
On board data storage	Up to 1500 km of image data per orbit	
Revisit time	Daily (off-nadir; always less than 20°), 5.5 days (at nadir).	
Image capture capacity	5 million km²/day	
Camera Dynamic Range	12 bit	


Abu Dhabi, UAE

EyeFind - Online Archive

EyeFind provides you online viewing access to the complete archive of RapidEye imagery. With EyeFind you can easily search and browse images collected by the RapidEye constellation over your specific area of interest.
Visit eyefind.blackbridge.com


Fiji

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