

The DigitalGlobe Constellation

The world's most advanced constellation of sub 50 cm high-resolution satellites



The world's most advanced constellation

The DigitalGlobe constellation of high-resolution satellites offers incredible accuracy, agility and collection capacity, imaging more of the world in the finest level of detail. This constellation is unprecedented in the industry, enabling customers around the globe to get the highest quality view of their world.

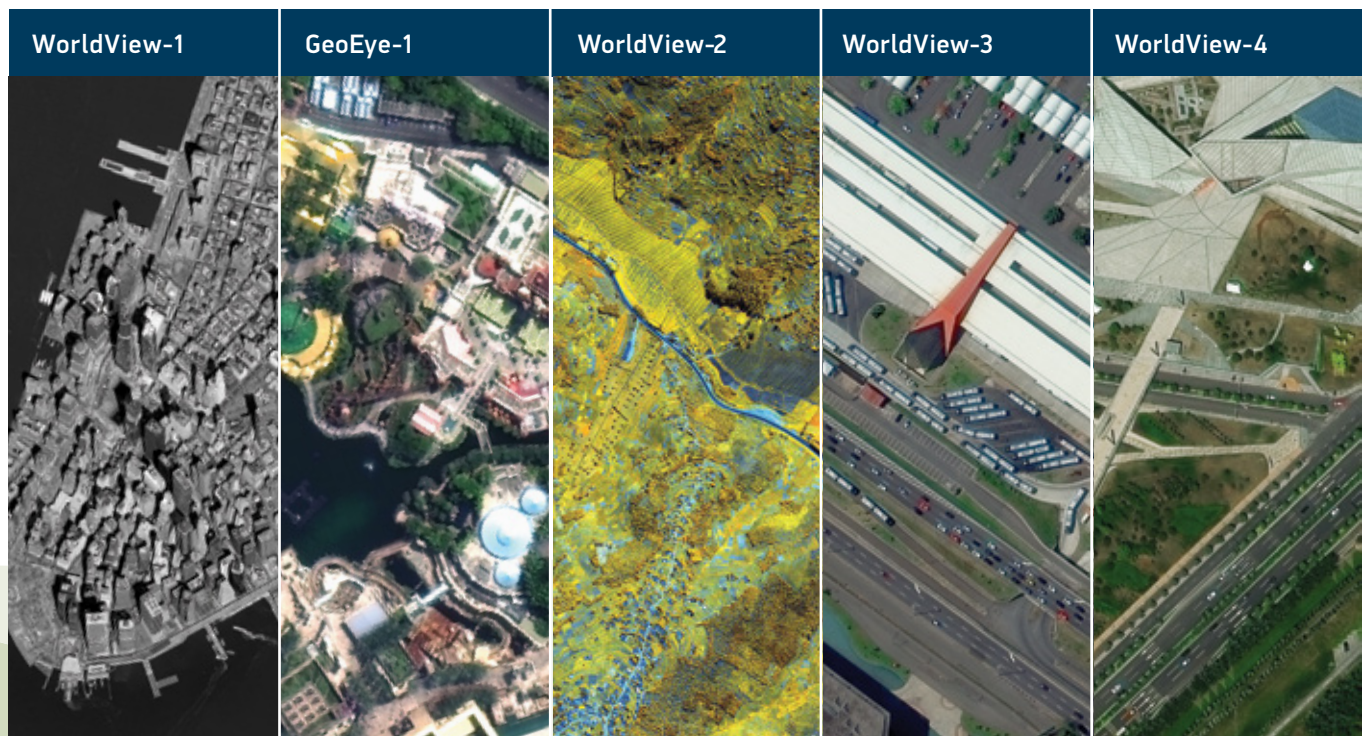
GREATEST COLLECTION CAPACITY

The DigitalGlobe constellation collects over one billion km² of high-resolution imagery per year—building and refreshing the most comprehensive and up-to-date high-resolution imagery library in the world as well as offering tremendous tasking capacity. You choose the world imagery you need and the way you need it—online, offline, on your mobile device or directly into your GIS—and we deliver real-world perspective you can rely on.

MOST ADVANCED SATELLITES

DigitalGlobe owns and operates the most agile and sophisticated constellation of commercial earth imaging satellites in the world.

- » High-resolution showing crisp detail
- » Most spectral diversity commercially available
- » Greatest collection capacity
- » Fastest 50 cm revisit times—intraday revisits
- » High geolocational accuracy
- » Large high-resolution swath width
- » Most agile with rapid retargeting
- » Greatest in-track stereo collection



SPECIFICATIONS

Feature	WorldView-1	GeoEye-1	WorldView-2	WorldView-3	WorldView-4
Operational altitude	496 km	681 km	770 km	617 km	617 km
Spectral characteristics	Pan	Pan + 4 MS	Pan + 8 MS	Pan + 8 MS + 8 SWIR	Pan + 4 MS
Panchromatic resolution (nadir)	.50 m	0.41 m	0.46 m	0.31 m	0.31 m
Multispectral resolution (nadir)	N/A	1.64 m	1.85 m	1.24 m	1.24 m
Accuracy Specification (nadir)	6.5 m CE90	3 m CE90	6.5 m CE90	3.5 m CE90	4 m CE90
Swath width	17.7 km	15.3 km	16.4 km	13.2 km	13.1 km
Average revisit at 40°N latitude	1.7 days	< 3 days	1.1 days	1.0 day	1.0 day
Monoscopic area coverage (30° off-nadir)	111 km x 112 km (6 Strips)	45 km x 112 km (3 Strip)	138 km x 112 km (8 Strips)	69 km x 112 km (5 Strips)	66.5 km x 112 km (5 Strips)
Single-pass stereoscopic coverage (30° off-nadir)	51 km x 112 km (3 Pairs)	15 km x 112 km (1 Pair)	63 km x 112 km (4 Pairs)	28 km x 112 km (2 Pairs)	26.6 km x 112 km (2 Pairs)
Weight class	2500 kg (5500 lbs)	1955 kg (4,310 lbs)	2800 kg (6200 lbs)	2800 kg (6200 lbs)	2600 kg (5700 lbs)
Attitude control actuators	Control Moment Gyros	Reaction Wheels	Control Moment Gyros	Control Moment Gyros	Control Moment Gyros
Onboard storage	2199 Gbits	1000 Gbits	2199 Gbits	2199 Gbits	3200 Gbits
Wideband data downlink rate	800 Mbps total	740 Mbps total	800 Mbps total	800 or 1200 Mbps total	800 Mbps total
Rapid delivery options	Direct Downlink, Virtual Ground Terminal	Direct Downlink, Virtual Ground Terminal	Direct Downlink, Virtual Ground Terminal	Direct Downlink, Virtual Ground Terminal	Direct Downlink, Virtual Ground Terminal

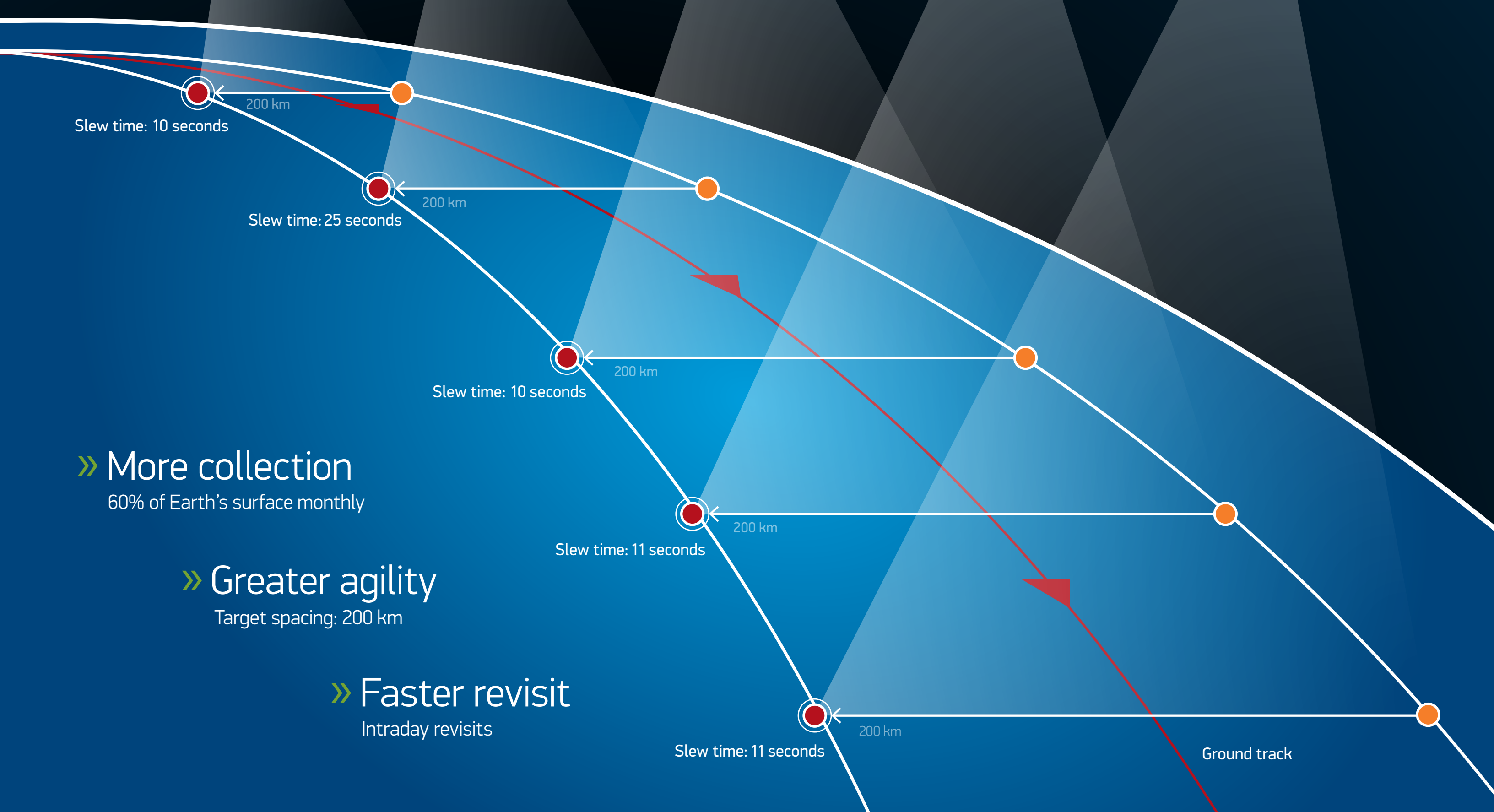
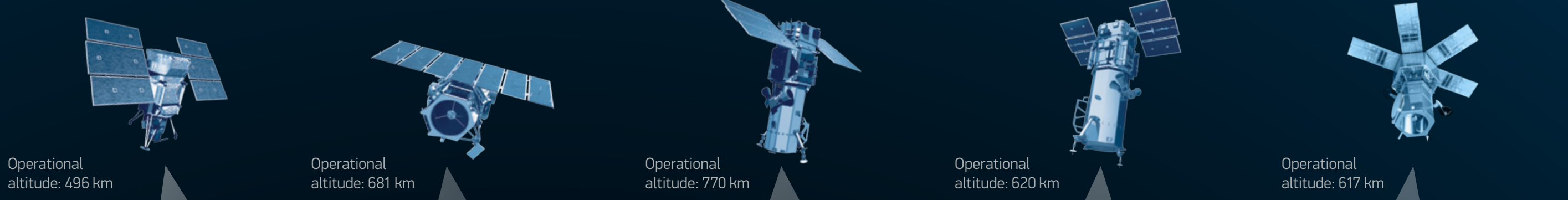
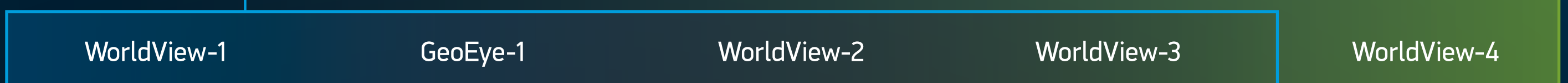
The DigitalGlobe Constellation

2015

Capable of collecting over 1,000,000,000 km² per year.

Worldview-4 further increases our 30 cm collection capabilities.

2016



» More collection
60% of Earth's surface monthly

» Greater agility
Target spacing: 200 km

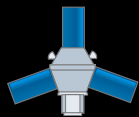
» Faster revisit
Intraday revisits

HIGH PERFORMANCE @ FLEXIBILITY

Living digital library

IKONOS

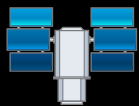
16 years of successful missions: **1999-2015**
 408 MILLION SQ KM.
 (~3x the world's land surface area)



Living digital library

QuickBird

13 years of successful missions: **2001-2014**
 636 MILLION SQ KM.
 (~4x the world's land surface area)



Collection scenarios

GeoEye-1

30° off-nadir angle

Sensor bands

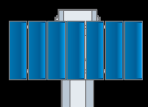
- Panchromatic
- Multispectral

Multiple point targets: 15.4 km x 15.4 km

Large area collect: 44 km x 112 km

Long strip: 360 km x 15.4 km

Stereo available



Collection scenarios

WorldView-1

30° off-nadir angle

Sensor bands

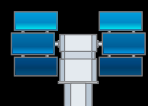
- Panchromatic

Multiple point targets: 17.7 km x 17.7 km

Large area collect: 112 km x 111 km

Long strip: 360 km x 17.7 km

Stereo available



Collection scenarios

WorldView-2

30° off-nadir angle

Sensor bands

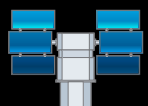
- Panchromatic
- Multispectral
- 4 additional bands

Multiple point targets: 16.4 km x 16.4 km

Large area collect: 112 km x 138 km

Long strip: 360 km x 16.4 km

Stereo available



Collection scenarios

WorldView-3

30° off-nadir angle

Sensor bands

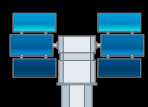
- Panchromatic
- Multispectral
- 4 additional bands
- SWIR

Multiple point targets: 13.2 km x 13.2 km

Large area collect: 112 km x 69 km

Long strip: 360 km x 13.2 km

Stereo available



Collection scenarios

WorldView-4

30° off-nadir angle

Sensor bands

- Panchromatic
- Multispectral

Multiple point targets: 13.2 km x 13.2 km

Large area collect: 112 km x 69 km

Long strip: 360 km x 13.2 km

Stereo available

