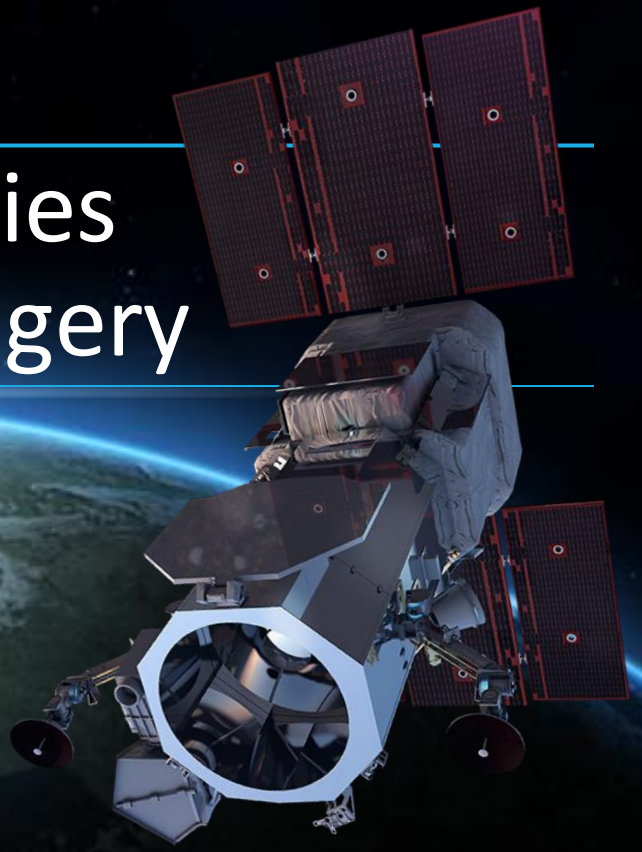
New cartography capabilities based on DigitalGlobe imagery

ILYA YUDIN | SALES LEAD RUSSIA & CIS | DIGITALGLOBE



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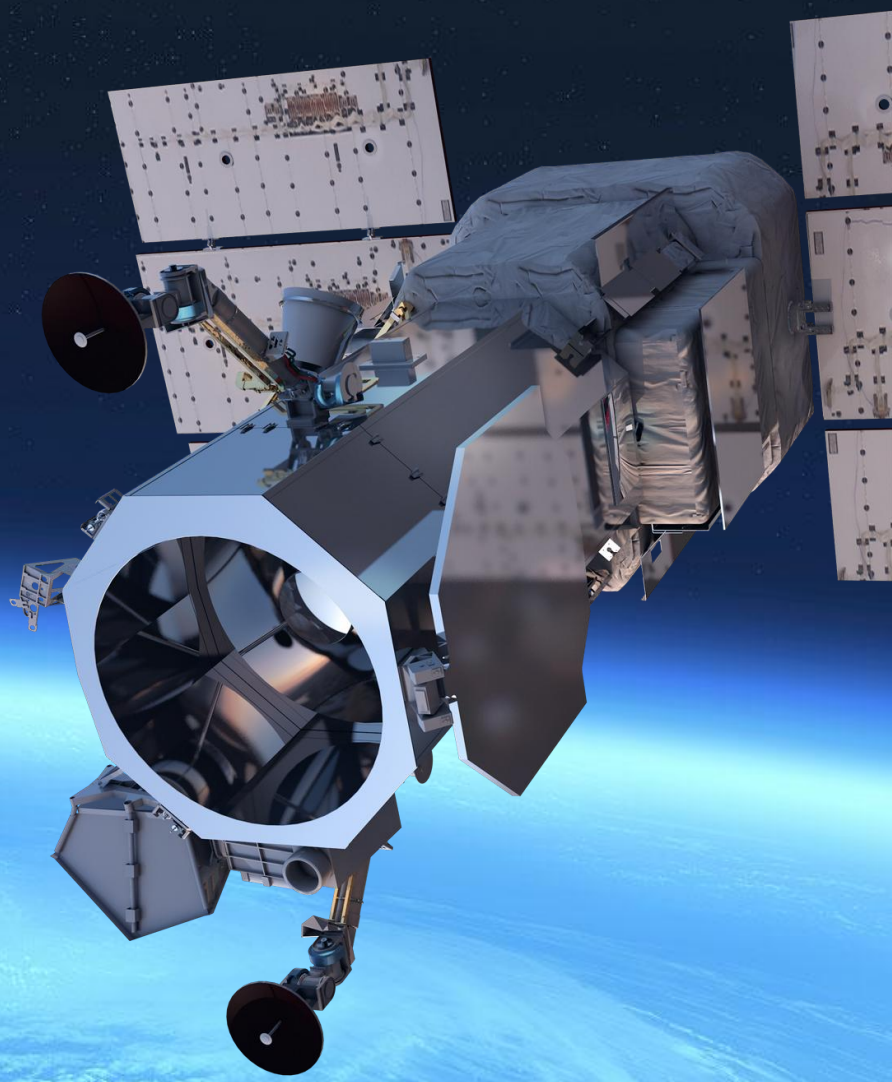
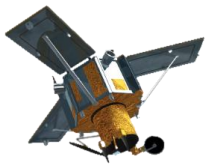
DigitalGlobe is…



The market leader in remote sensing



IKONOS®

.82 meter resolution
9 m CE90

QuickBird®

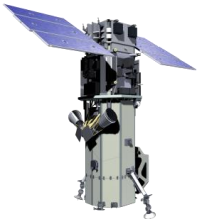
.65 meter resolution
23 m CE90

WorldView-1®

.50 meter resolution
<4 m CE90

GeoEye-1®

.46 meter resolution
<3.5 m CE90

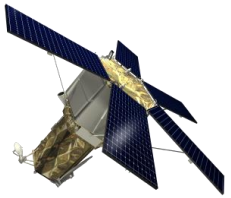


WorldView-2®

.46 meter resolution
<3.5 m CE90

WorldView-3®

.30 meter resolution
<3.0 m CE90



WorldView-4®

.30 meter resolution

CURRENTLY IMAGING IN ORBIT

AVAILABLE VIA DIGITALGLOBE ARCHIVE

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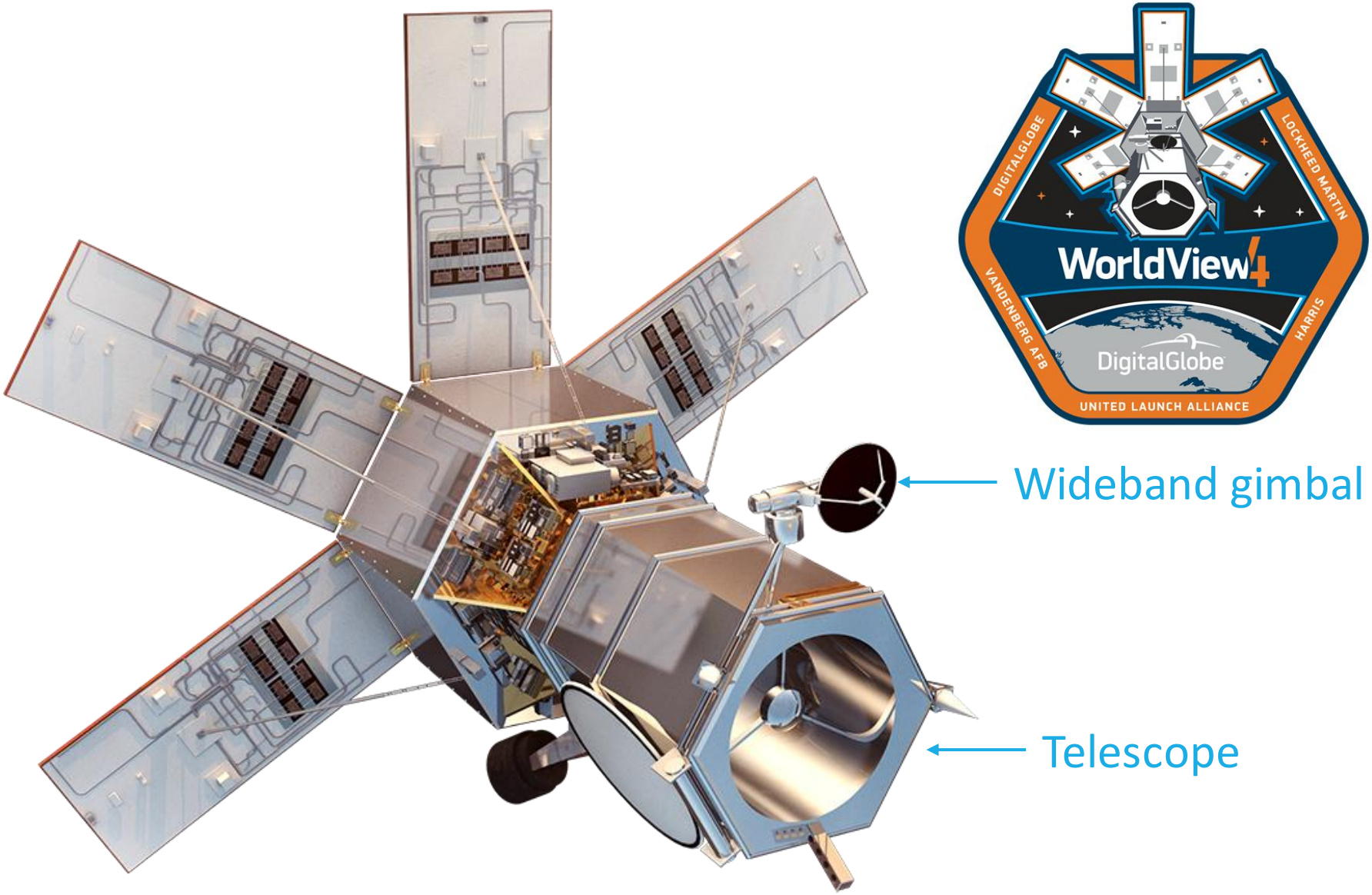
WorldView-4



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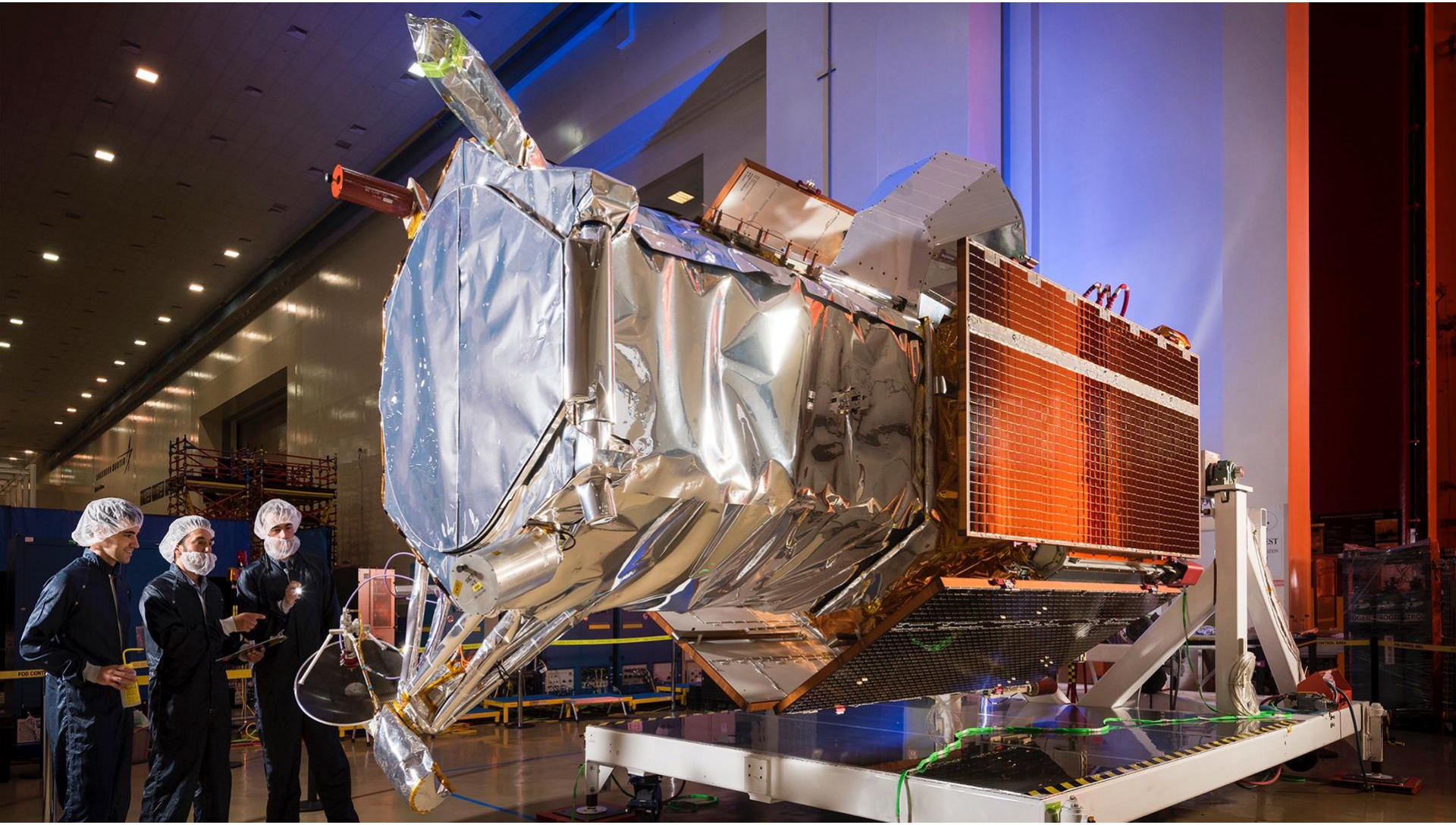
WorldView-4



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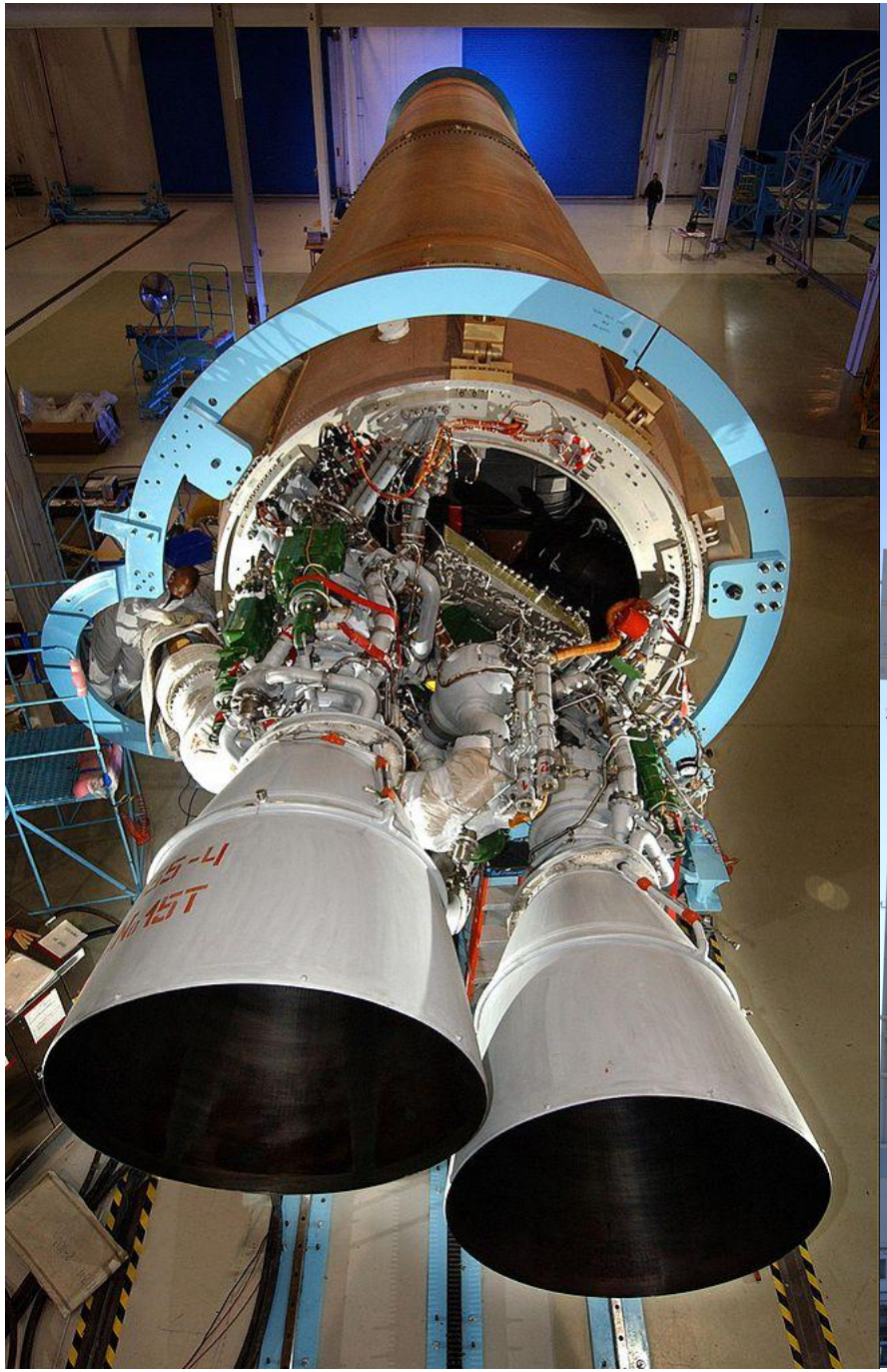

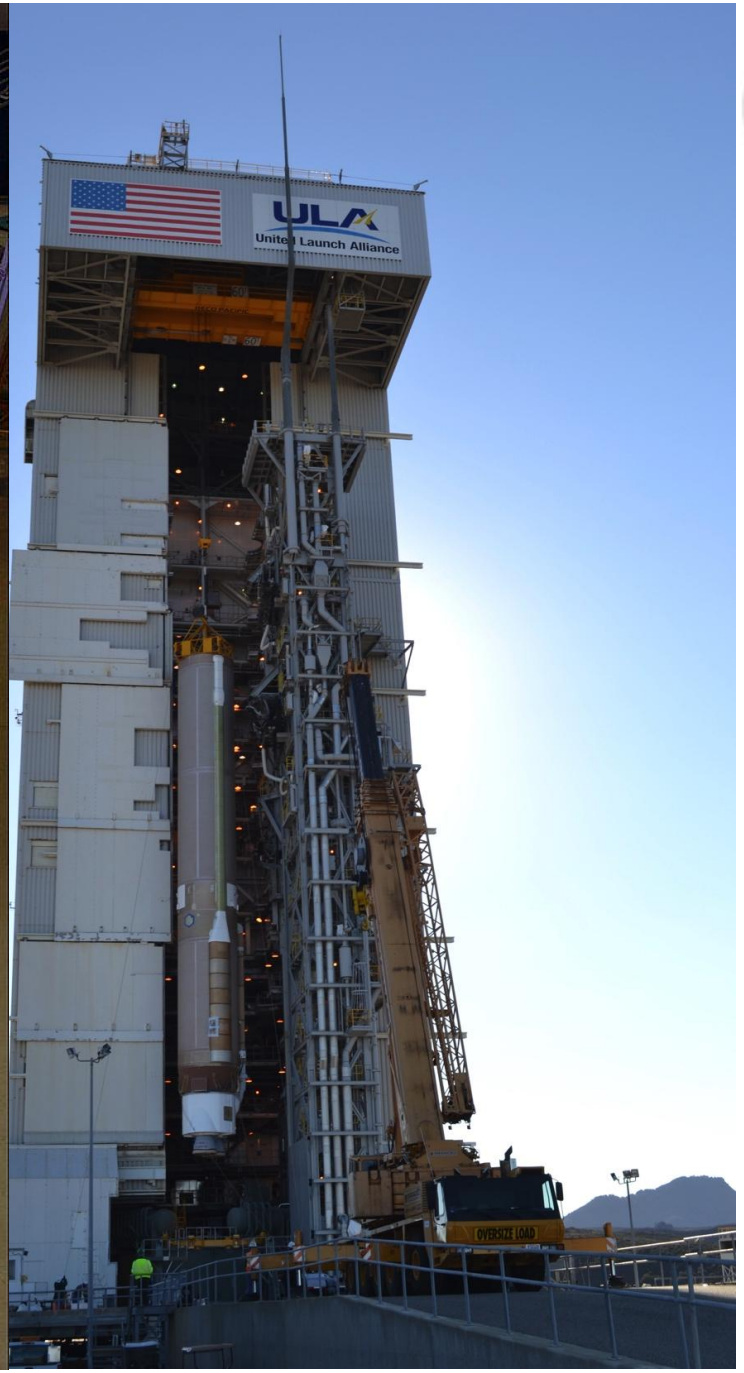

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Tasking – Yes you can decide on what's collected

Capable of collecting: Over 1,000,000,000 sq km per year
App. 3,000,000 sq. km+ per day

More collection: 60% of Earth's surface monthly

Greater agility: 200 km target spacing

Faster revisit: Intraday revisits

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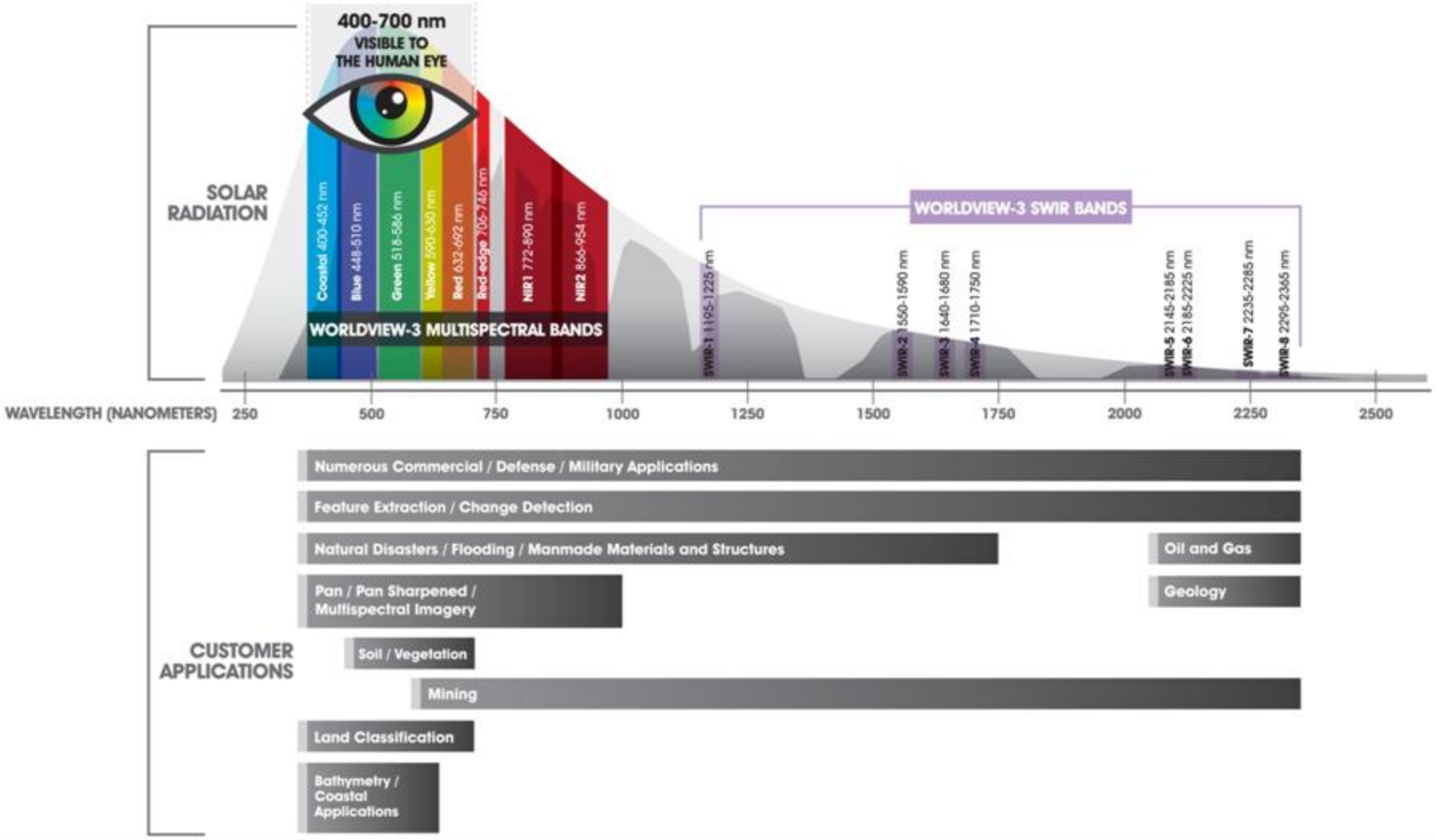
More Bands, More Information



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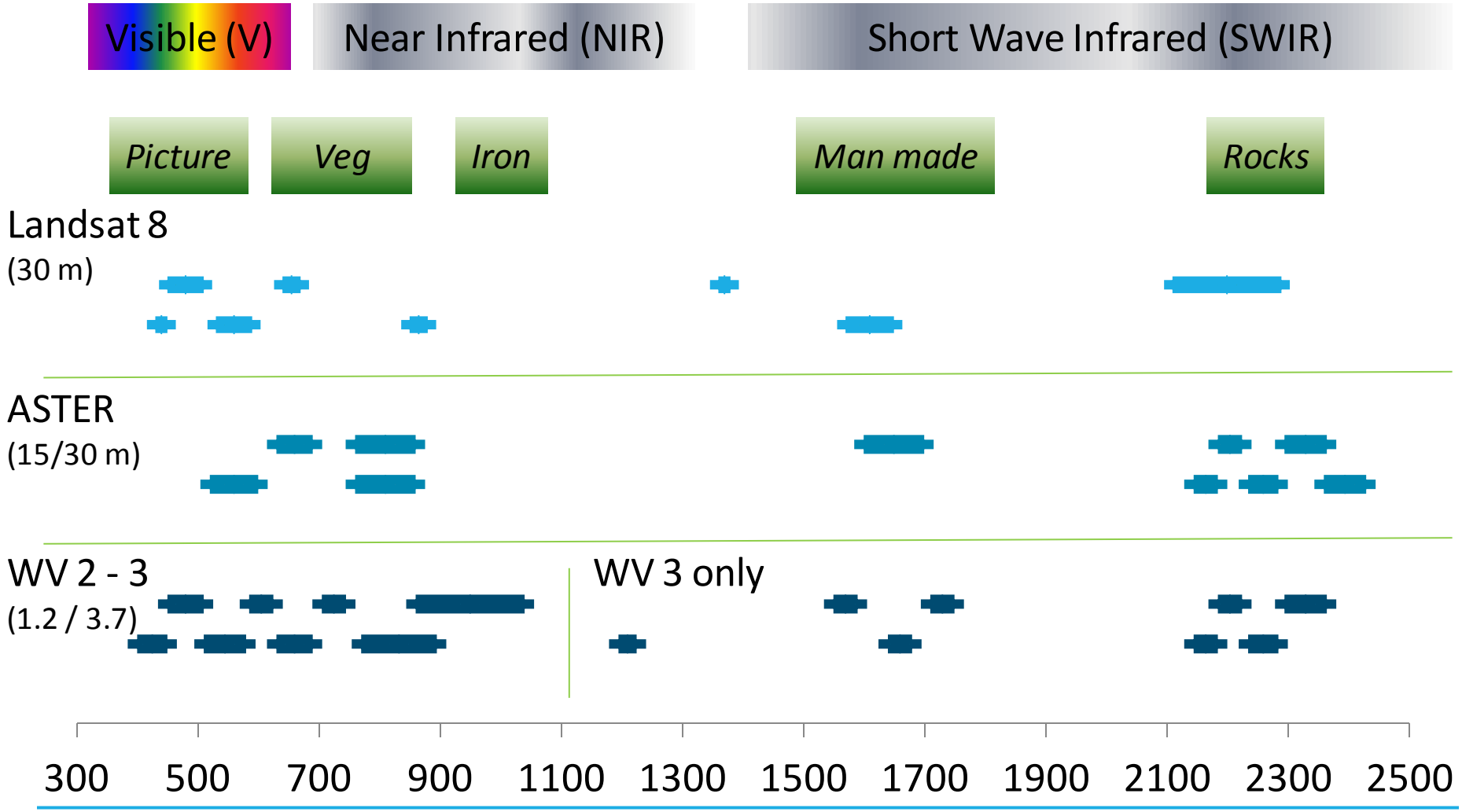
WV-2 & WV-3 Comparisson



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RACURS 2016

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DigitalGlobe Constellation Basic

Feature	WorldView-1	GeoEye-1	WorldView-2	WorldView-3	WorldView-4
Spectral characteristics	Pan	Pan + 4 MS	Pan + 8 MS	Pan + 8 MS + 8 SWIR + 12 CAVIS	Pan + 4 MS
Panchromatic resolution (nadir)	0.50 m	0.41 m	0.46 m	0.31 m	0.31 m
Multispectral resolution (nadir)	N/A	1.64 m	1.84 m	1.24 m SWIR 3.7 m CAVIS 30 m	1.24 m
Accuracy specification (nadir)	4 m CE90	3 m CE90	3.5 m CE90	3.5 m CE90	3.5 m CE90
SWATH (nadir)	17.7 km	15.3 km	16.4 km	13.1 km SWIR 10.8 km	13.1 km
Onboard storage	2199 Gbits	1000 Gbits	2199 Gbits	2199 Gbits	3000 Gbits
Collection capacity	1,500,000 km^2/day	350,000 km^2/day	1,200,000 km^2/day	680,000 km^2/day	680,000 km^2/day
Launch timing	2007	2008	2009	2014	expected late 2016

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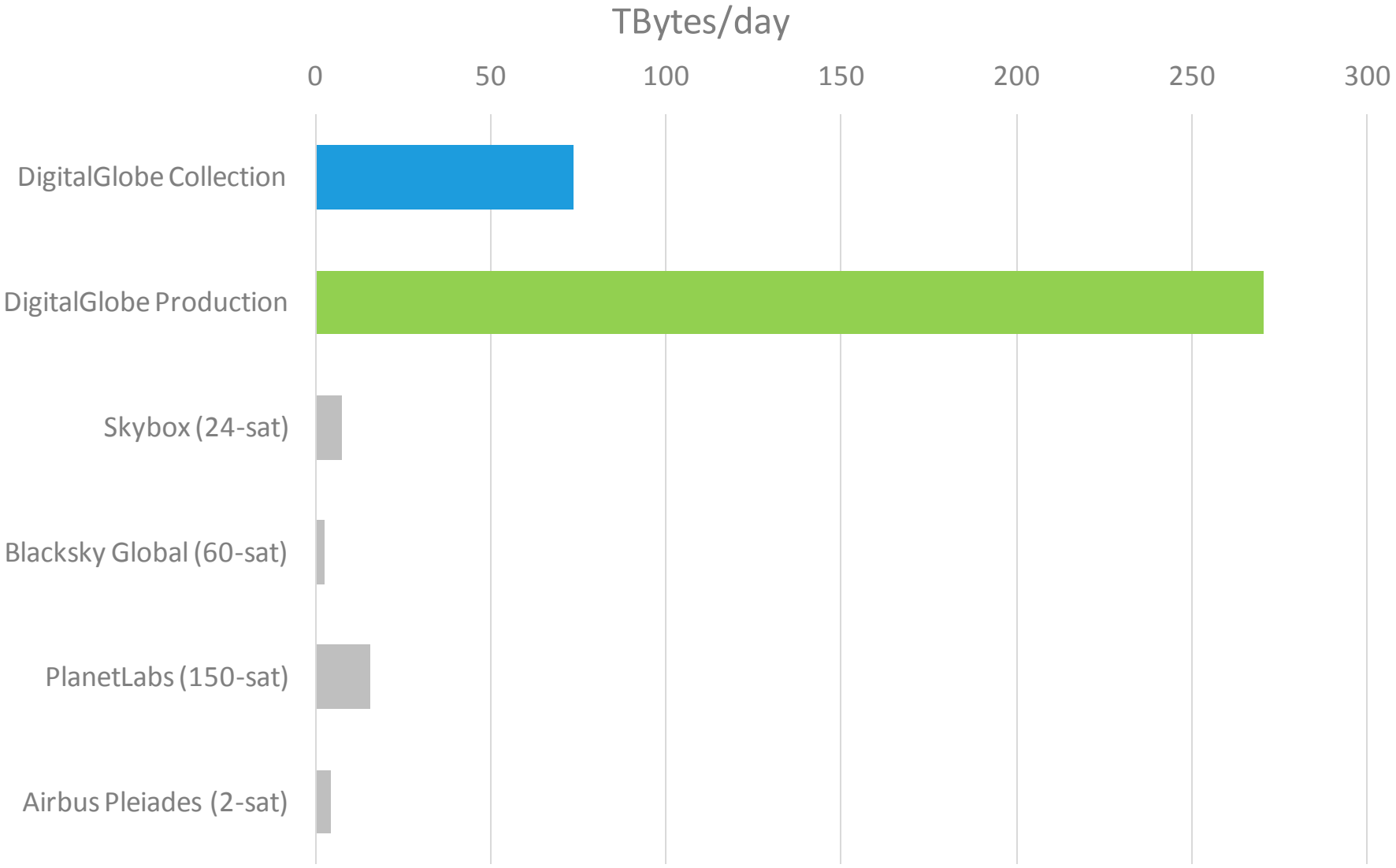
Our constellation collects a LOT of data



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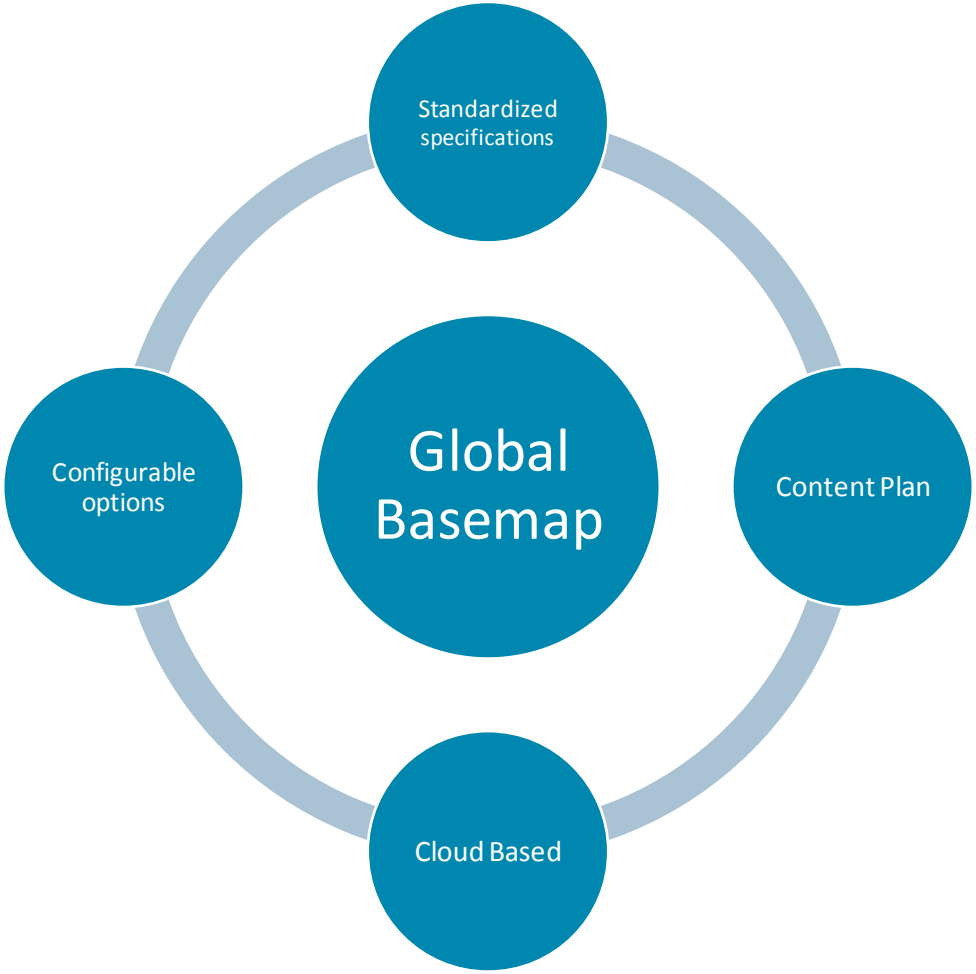
What is a Basemap?

Basemap is a product line that aggregates imagery to provide a digital basemap of the Earth as a service.



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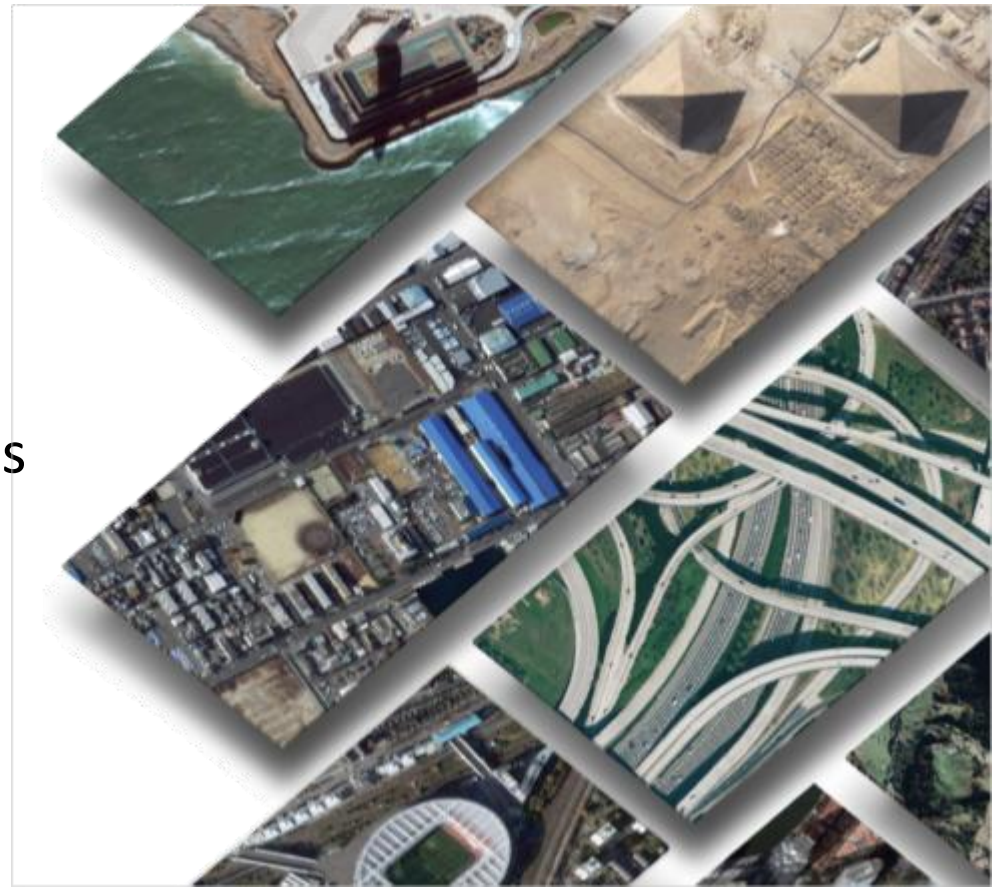
What is a Basemap?

- DigitalGlobe Basemap is imagery made easy
- DigitalGlobe Basemap
- 30-60cm global coverage
- Updates to areas of interest
- 1:12,000 or better accuracies
- Infrastructure mapping
- Data validation
- Geology & structural interpretation



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Coverage - Global

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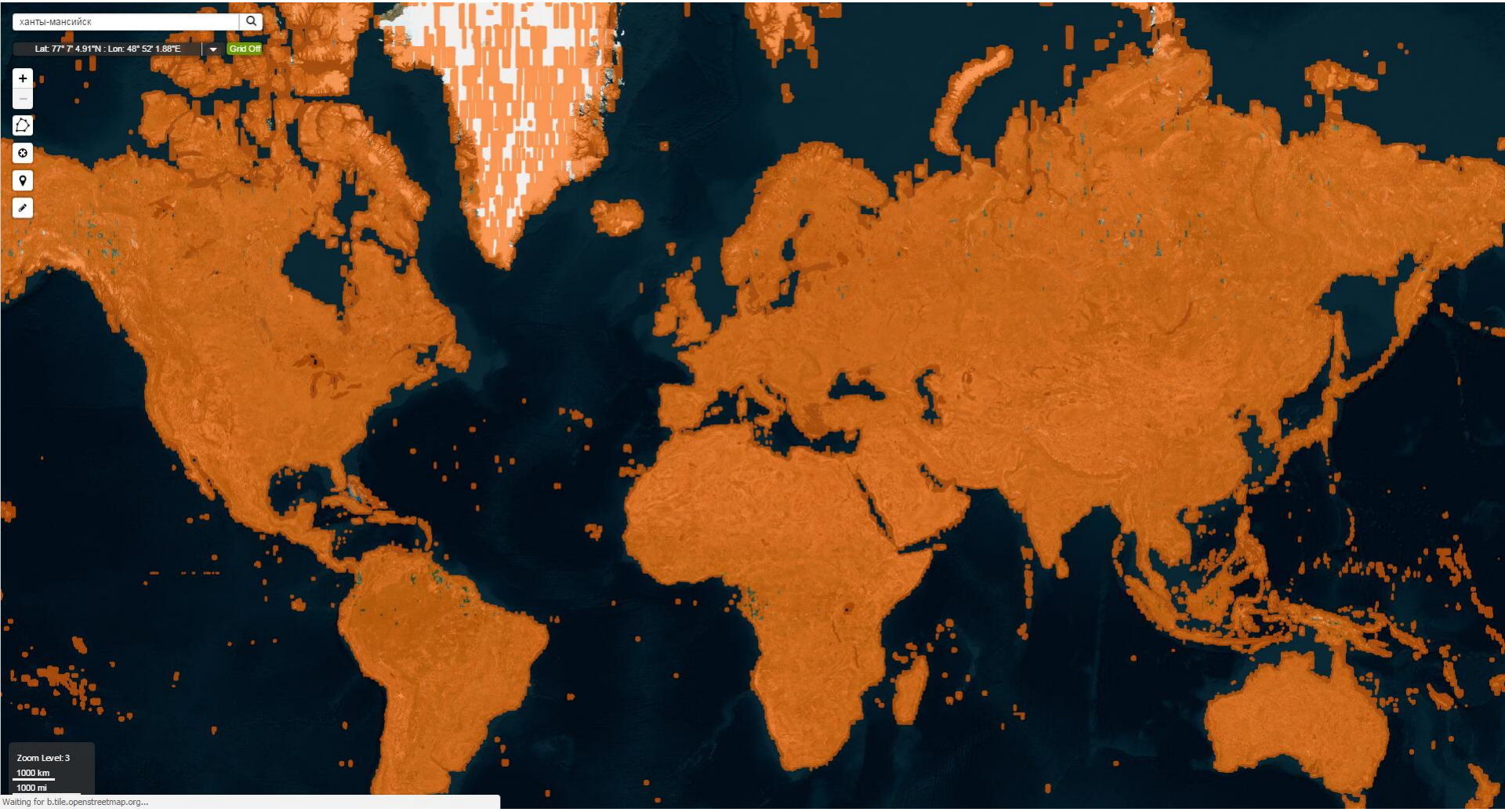
Coverage - Global



We got you covered

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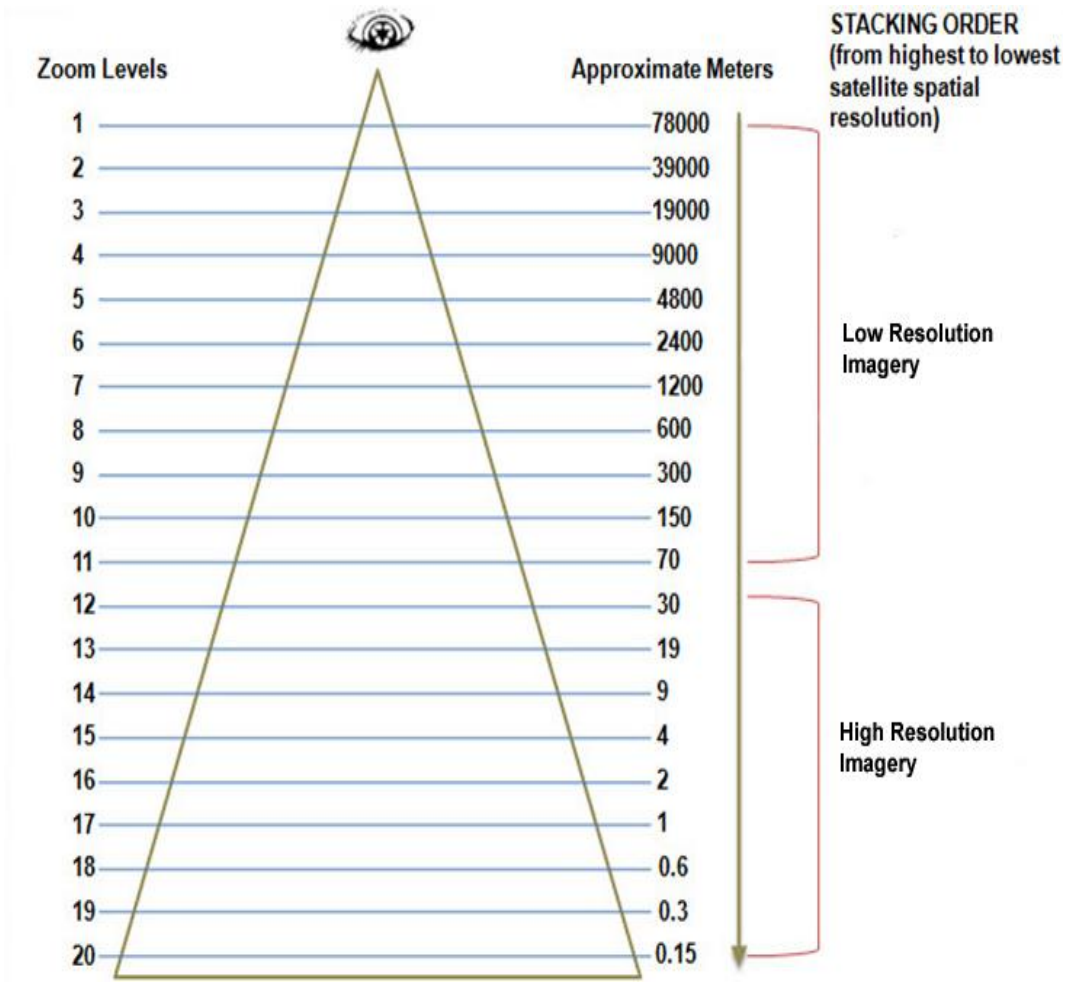
Imagery **Organized "Vertically" in** Zoom Levels



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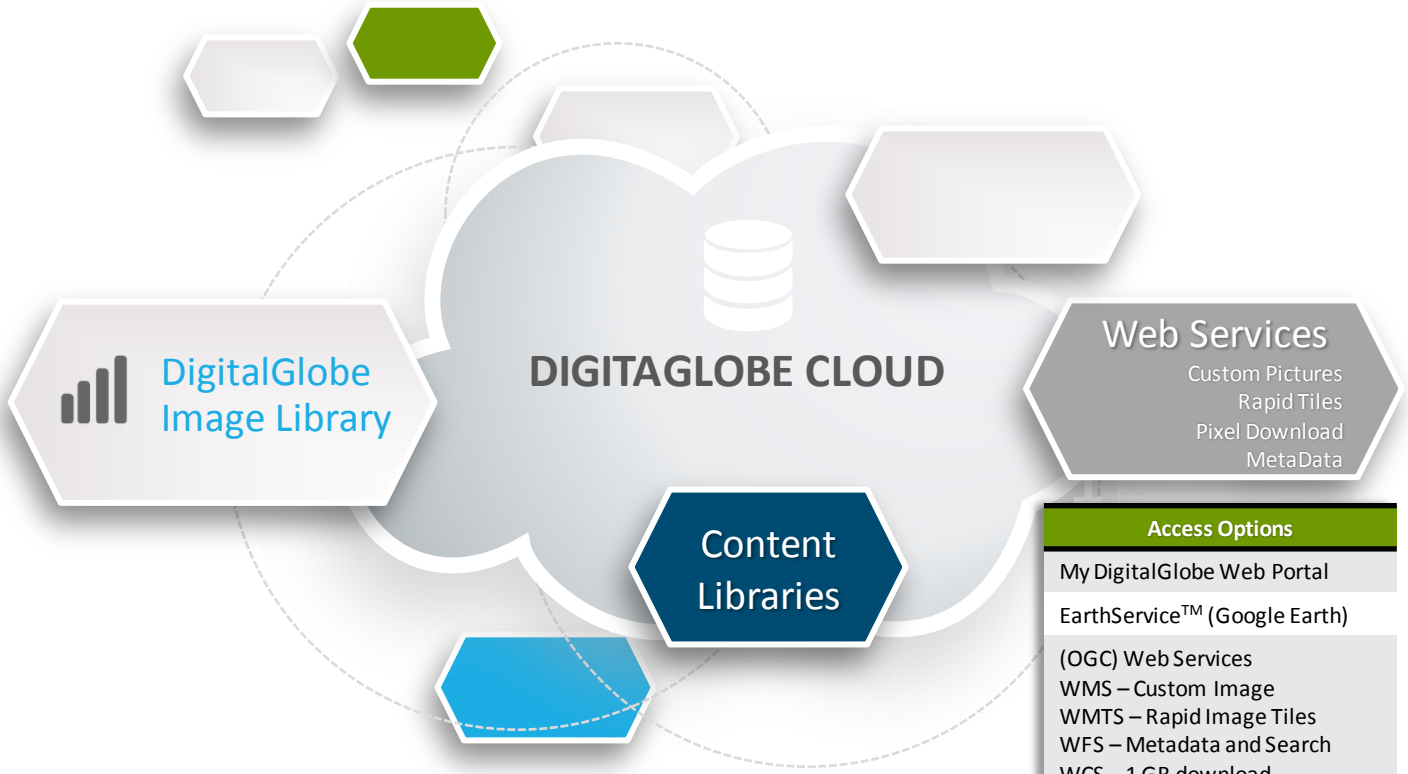
Access – Online



Access Options
My DigitalGlobe Web Portal
EarthService™ (Google Earth)
(OGC) Web Services WMS – Custom Image WMTS – Rapid Image Tiles WFS – Metadata and Search WCS – 1 GB download WPS – 50 GB download ImageConnect for ArcGIS

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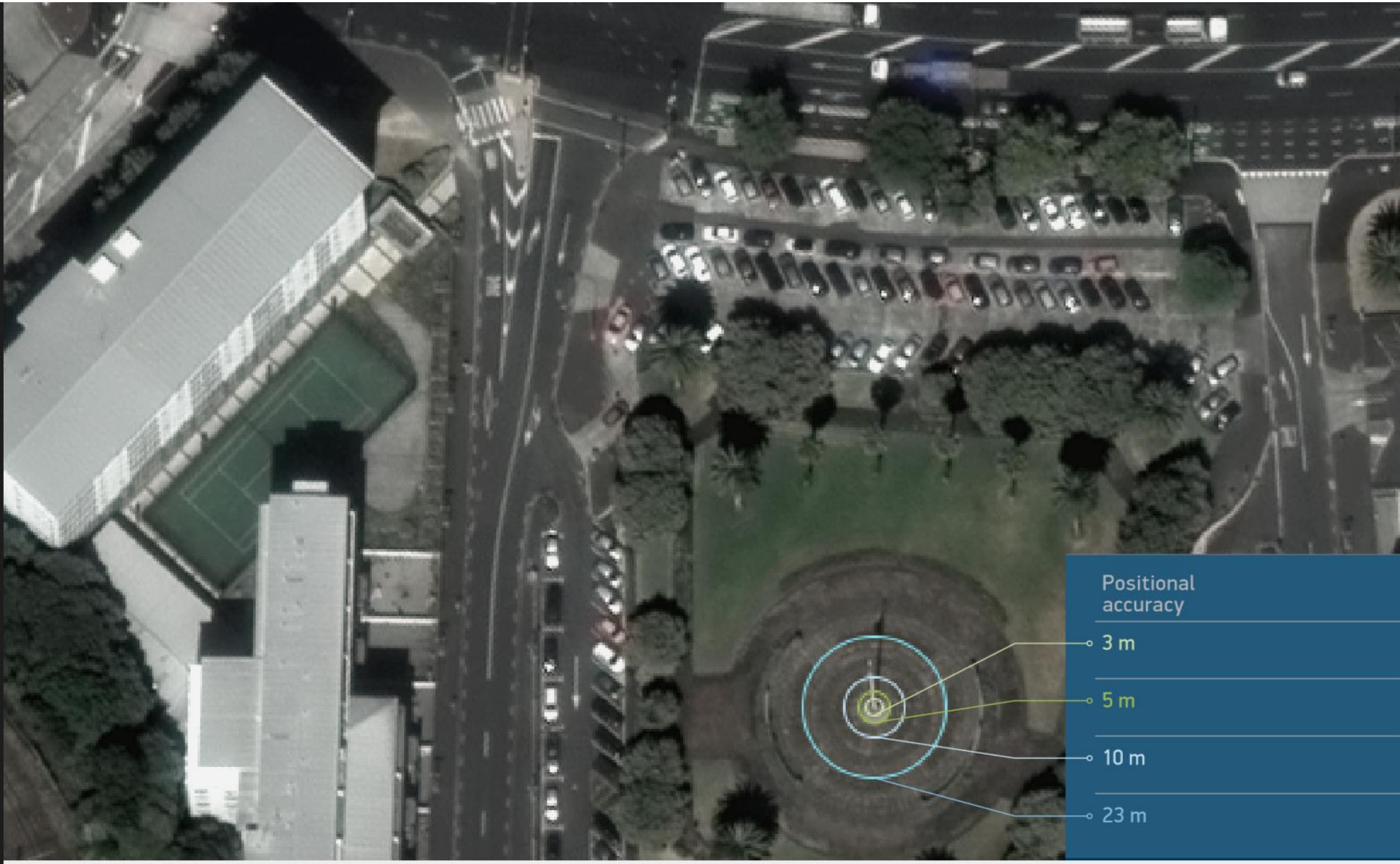
Accuracy



MetaData

- Collection date & time
- Collection sensor
- Horizontal accuracy
- Ground sample distance
- Cloud cover percentage
- Collection angle
- Sun elevation

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Basemap offers configurable options to meet varying customer requirements

- Configurable options have associated cost implications and can be chosen according to the top user priorities in order to maximize cost-effectiveness

Online

Coverage	Display Resolution	Updates	Users	Usage	Profile
• City • Country • Global	• 240 cm • 120 cm • 60 cm • 30 cm	• Annual • Semi-Annual • Quarterly • Continuous • None	•1 •2-5 •6-10 •11-20 •21-50 •51-100 •101-250 •251-500 •500+	• View only • View and download	• Consumer • Color • Cloud Cover • Currency • Accuracy

Offline

Coverage	Display Resolution	Updates	Users	Usage	Profile
• Country • Global	• 120 cm • 30 cm	• Annual • Semi-Annual • Quarterly	•1 •2-5 •6-10 •11-20 •21-50 •51-100 •101-250 •251-500 •500+	• n/a	• Consumer • Color

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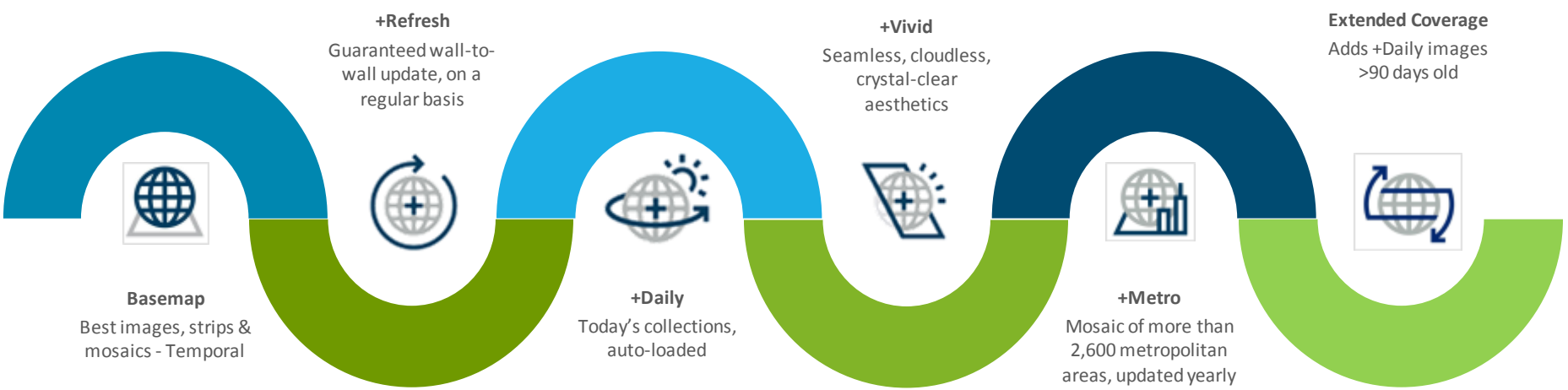
Currency, Consistency, Refresh & Coverage



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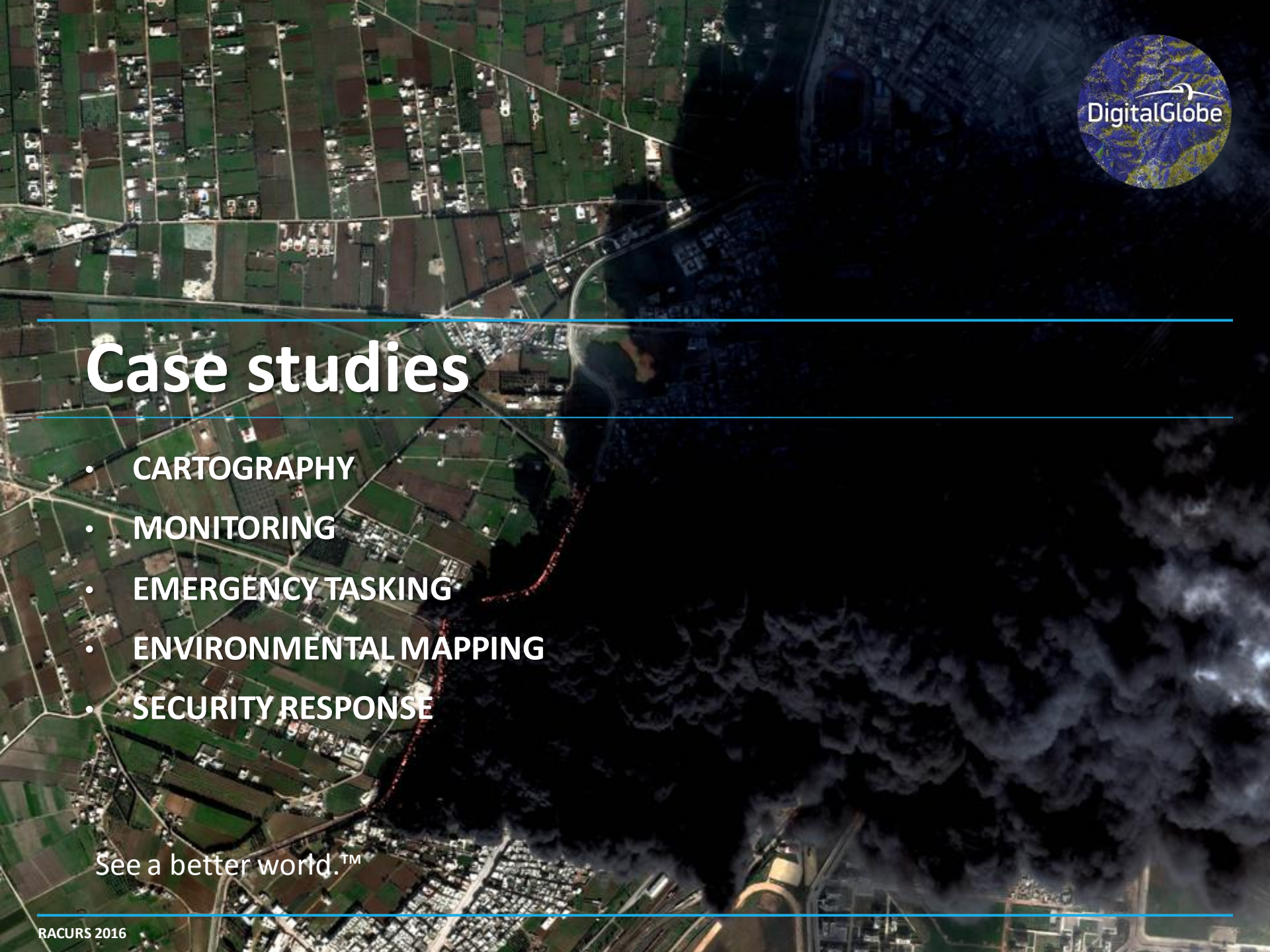

Case studies

- CARTOGRAPHY
- MONITORING
- EMERGENCY TASKING
- ENVIRONMENTAL MAPPING
- SECURITY RESPONSE

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Cartography

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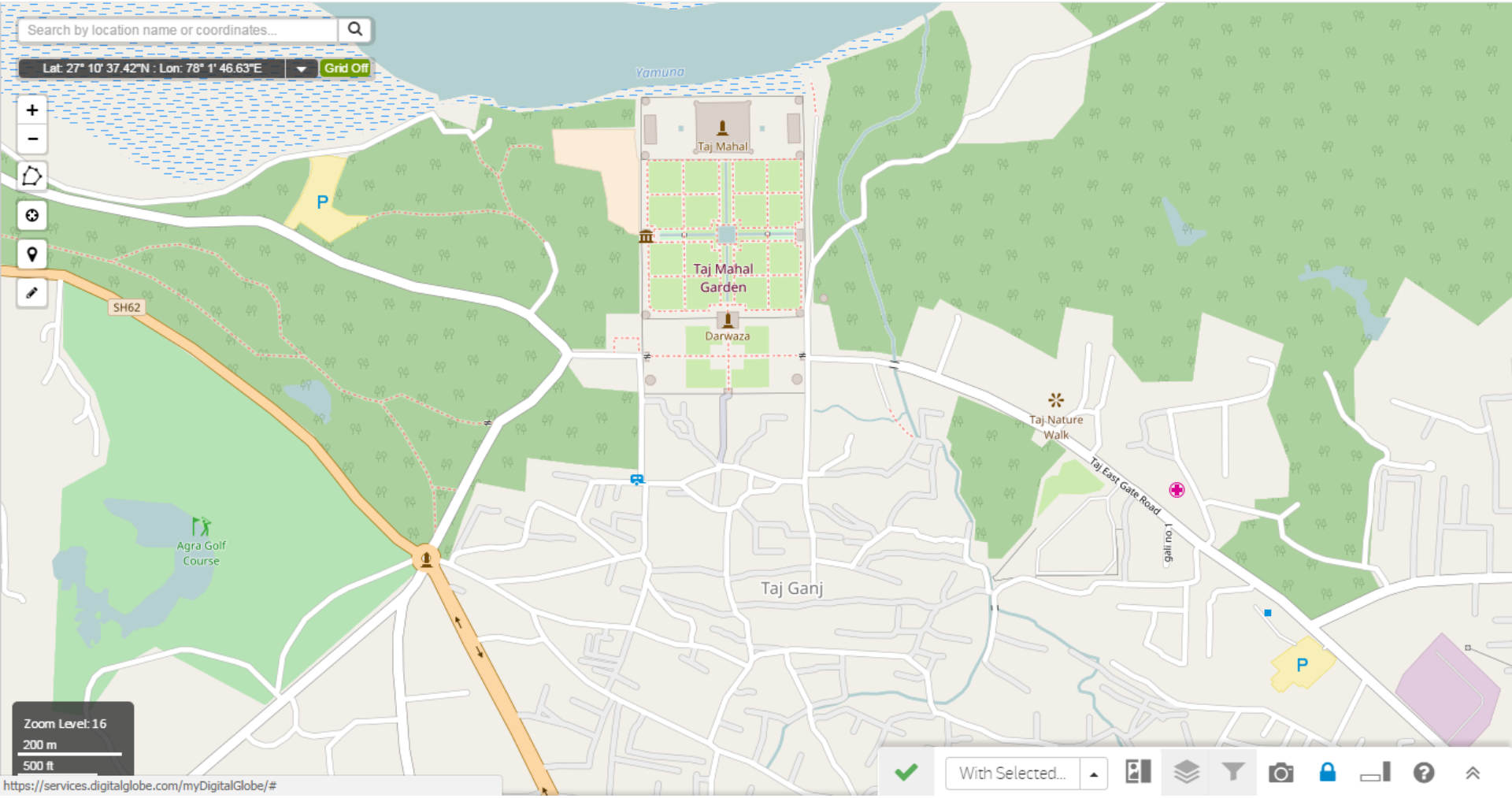
Cartography



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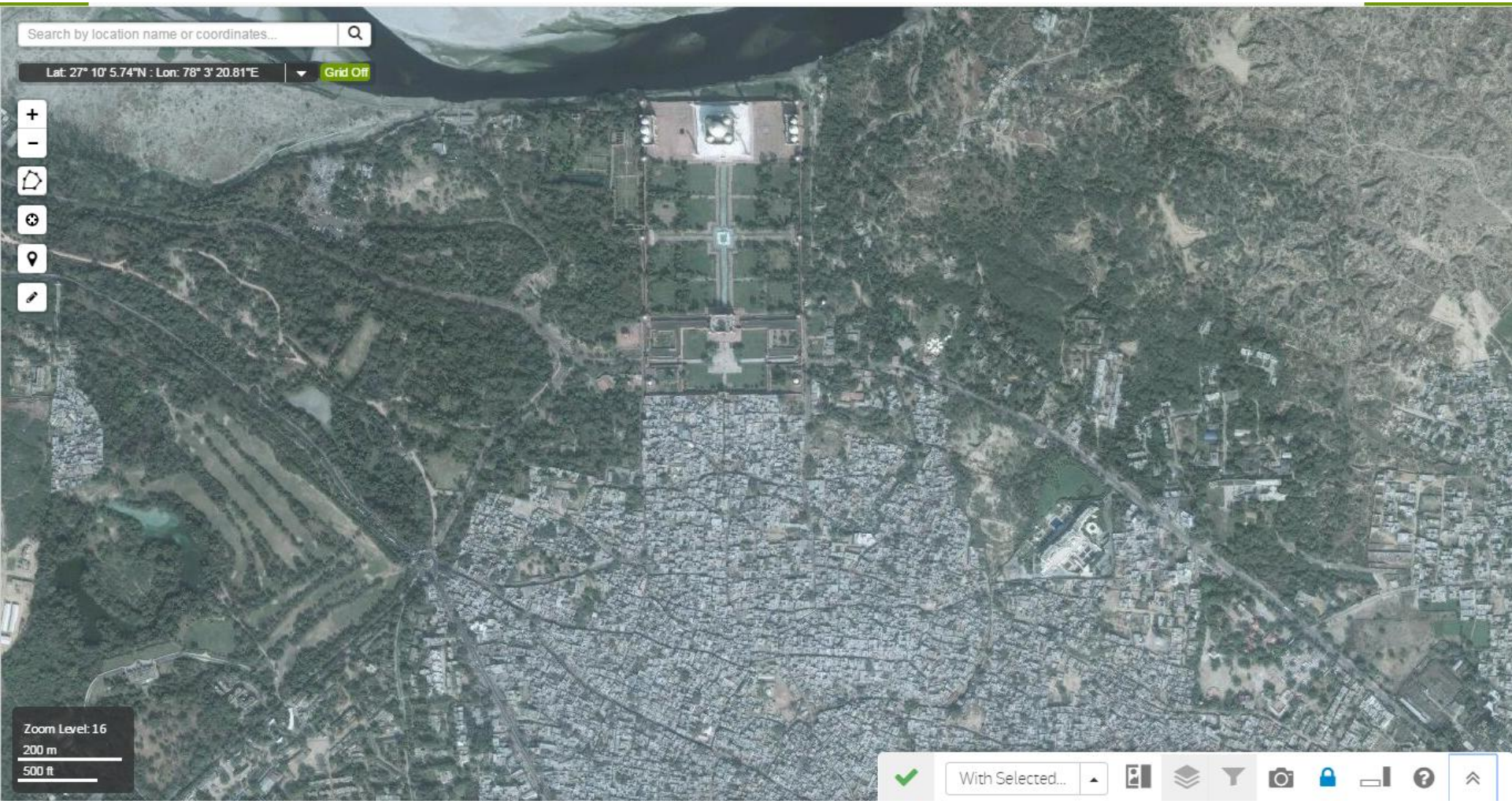
Monitoring. Agra 2011



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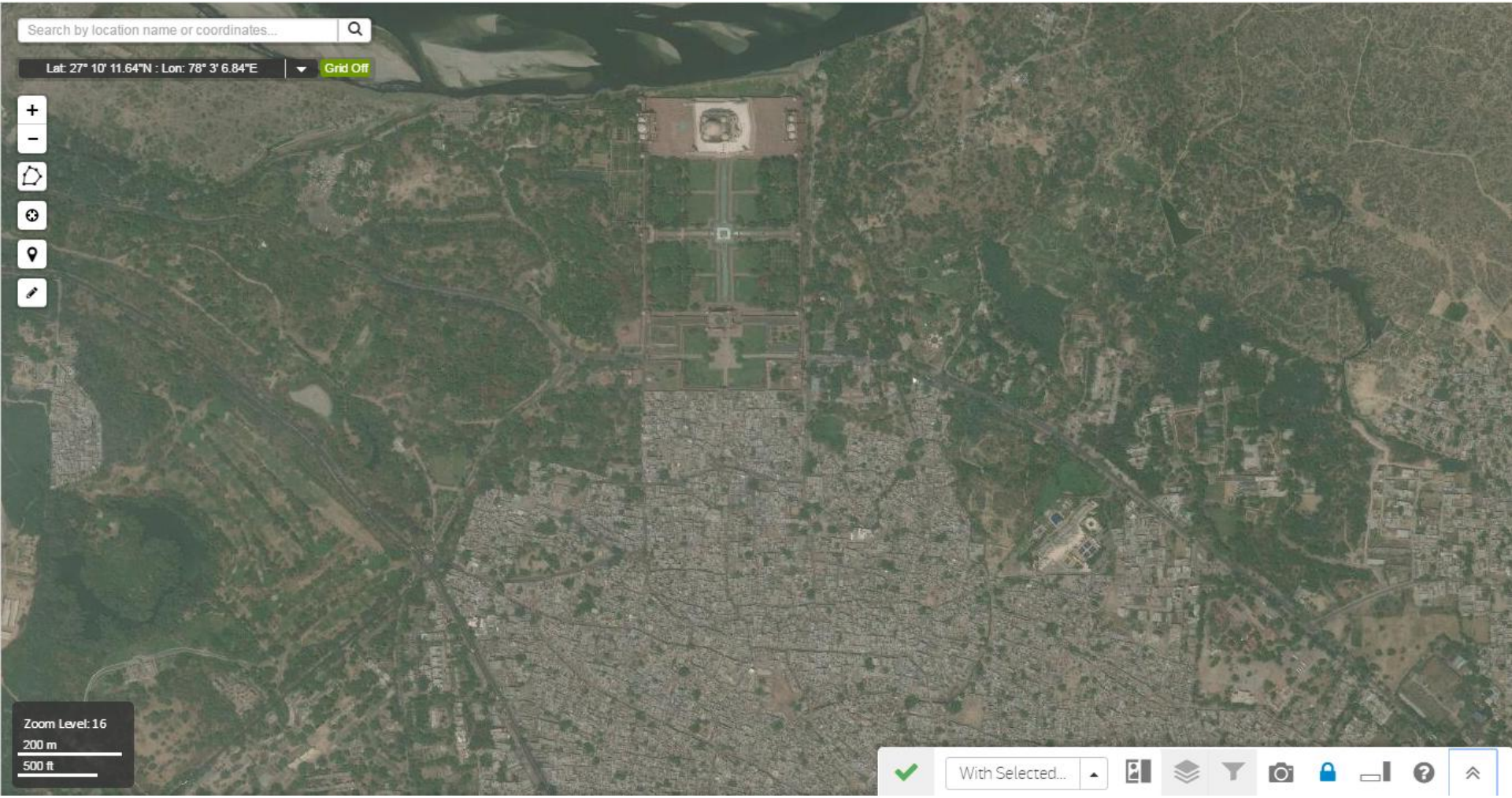
Monitoring. Agra 2013



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Monitoring. Agra 2015

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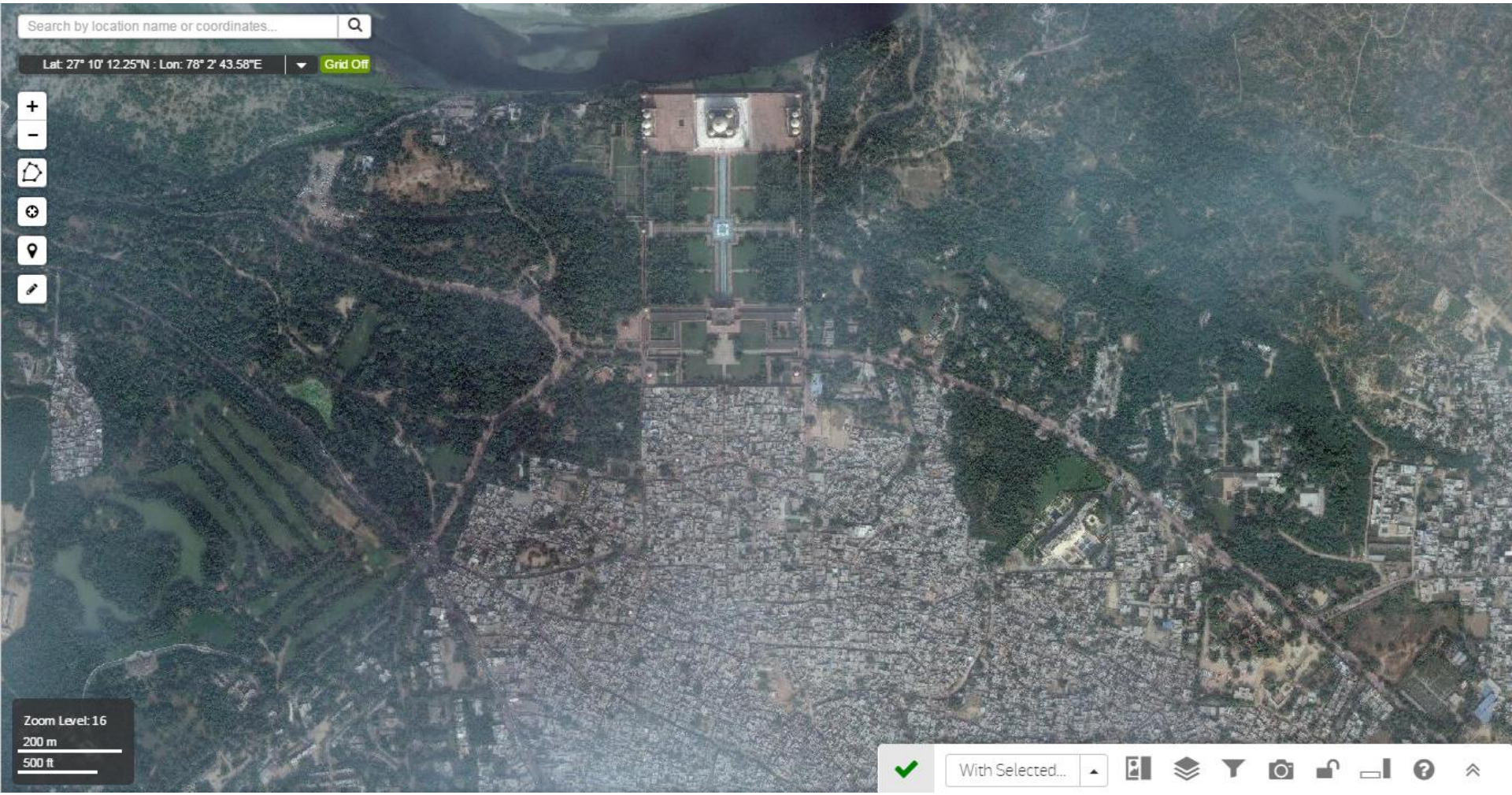
Monitoring. Agra 2016



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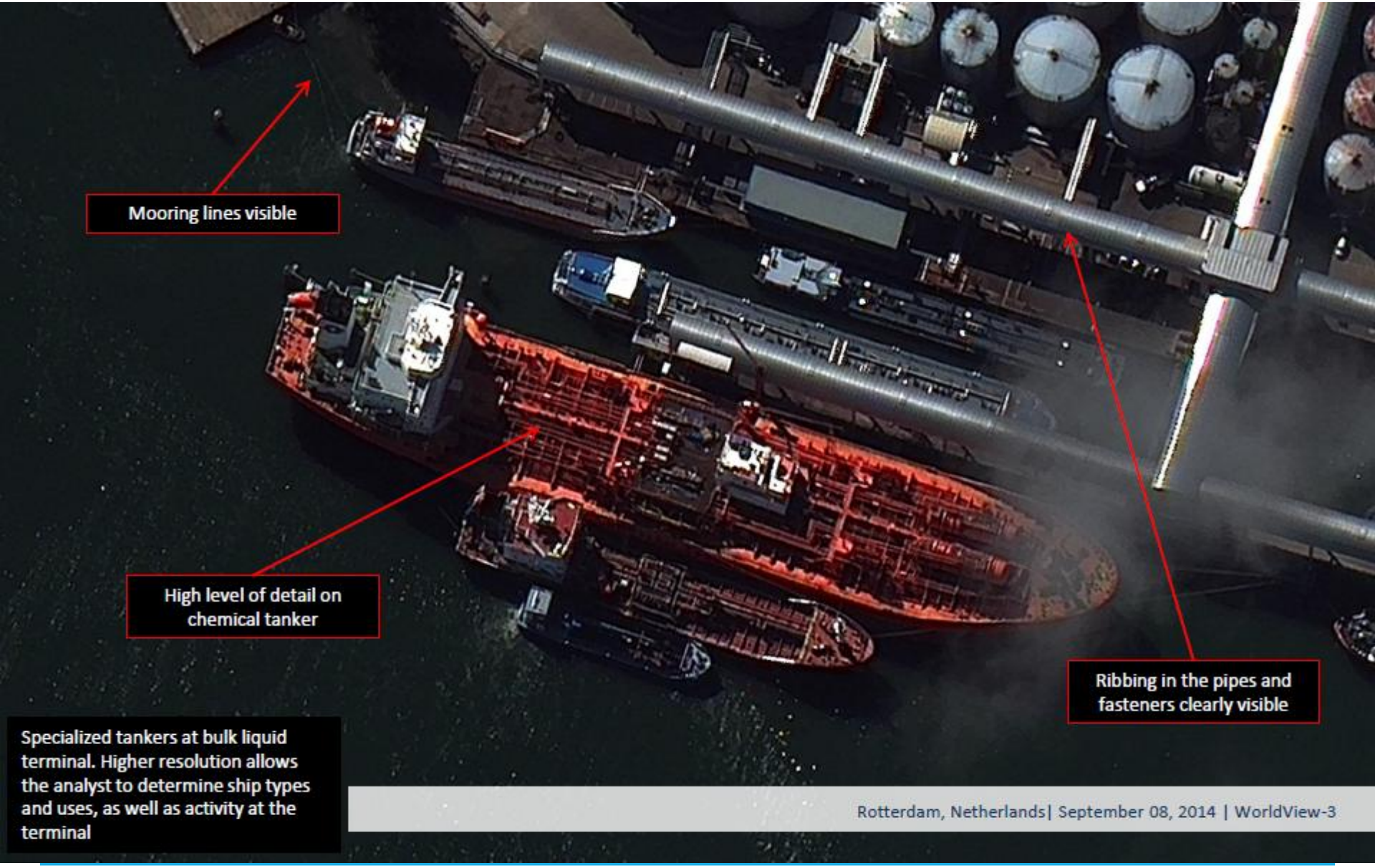
Monitoring



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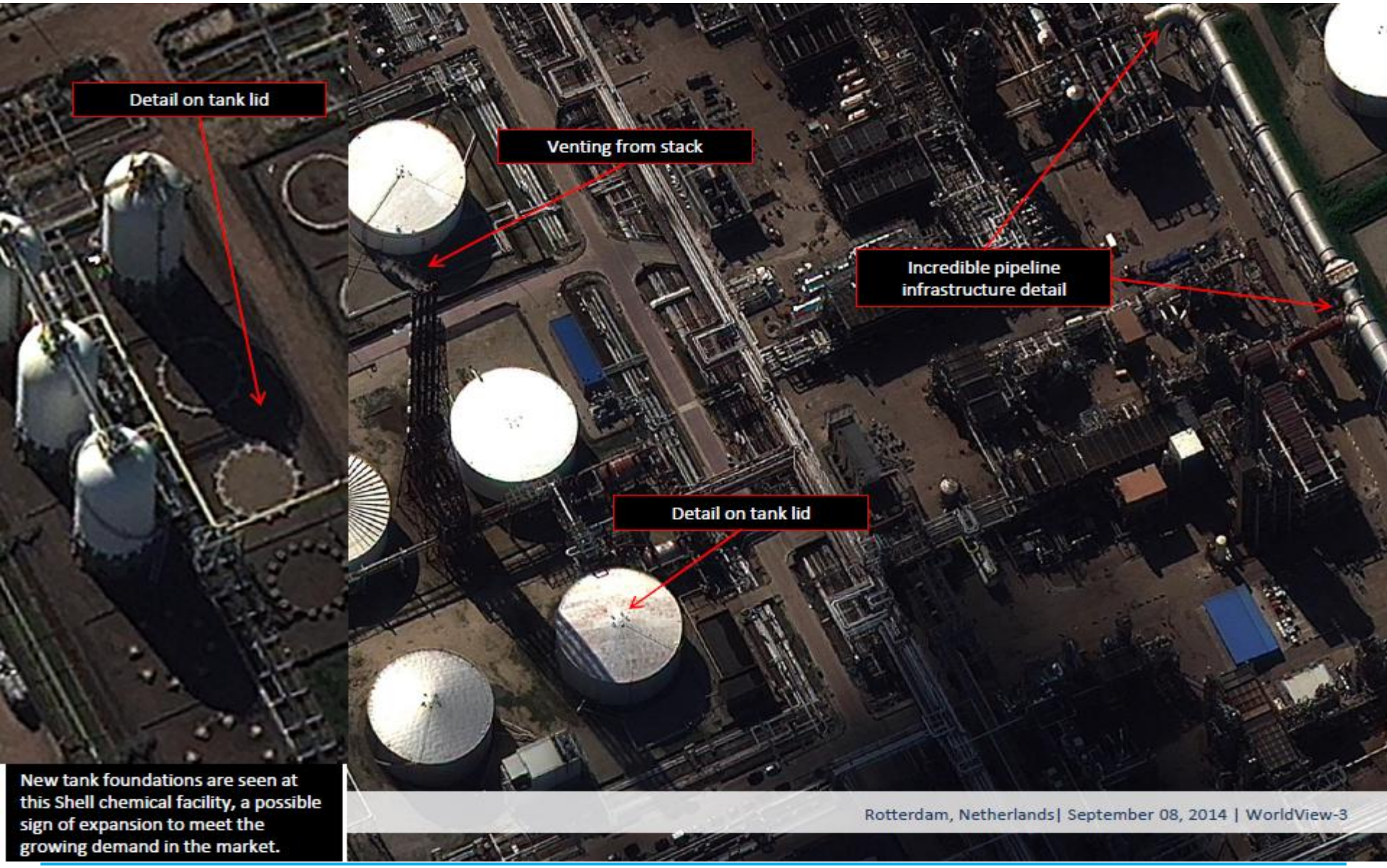
Monitoring



New tank foundations are seen at this Shell chemical facility, a possible sign of expansion to meet the growing demand in the market.

Rotterdam, Netherlands| September 08, 2014 | WorldView-3

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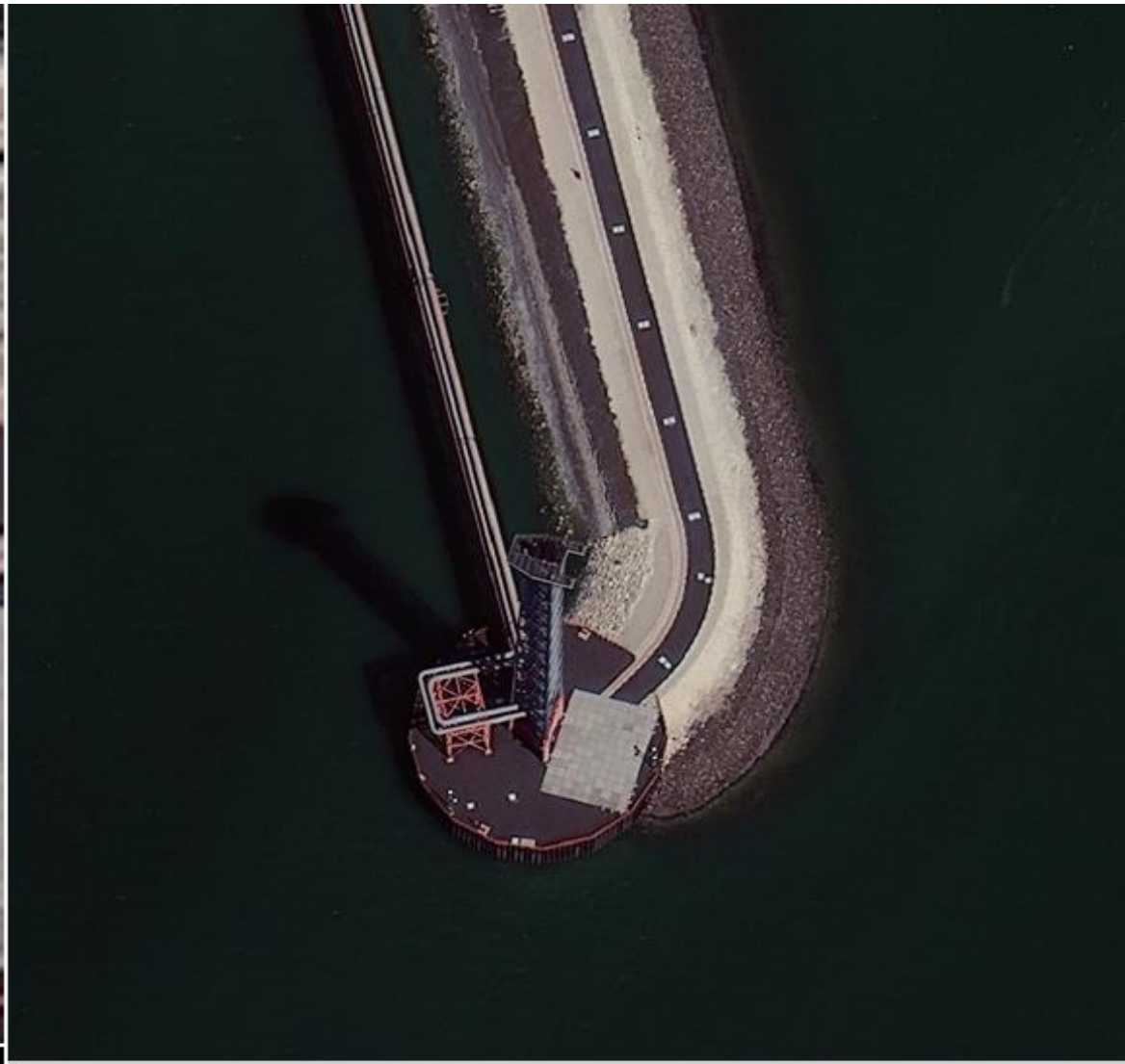
Monitoring

The lattice work and individual stairways are visible on the natural gas burn-off tower. Also, the individual concrete pads comprising the parking are clearly delineated.



Kashagan Oil Facility, Caspian Sea, Kazakhstan| September, 2014| WorldView-3

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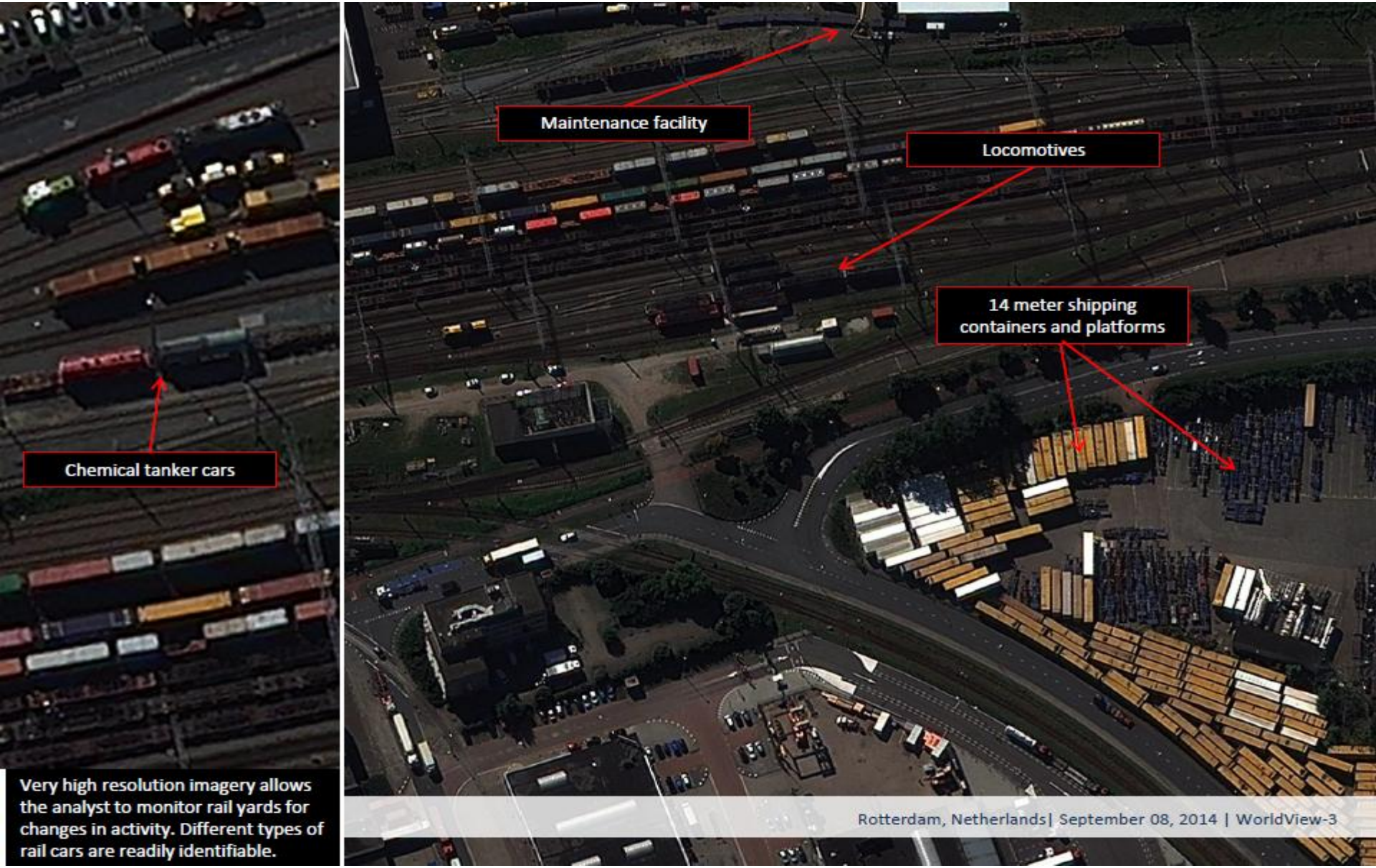
Monitoring



Very high resolution imagery allows the analyst to monitor rail yards for changes in activity. Different types of rail cars are readily identifiable.

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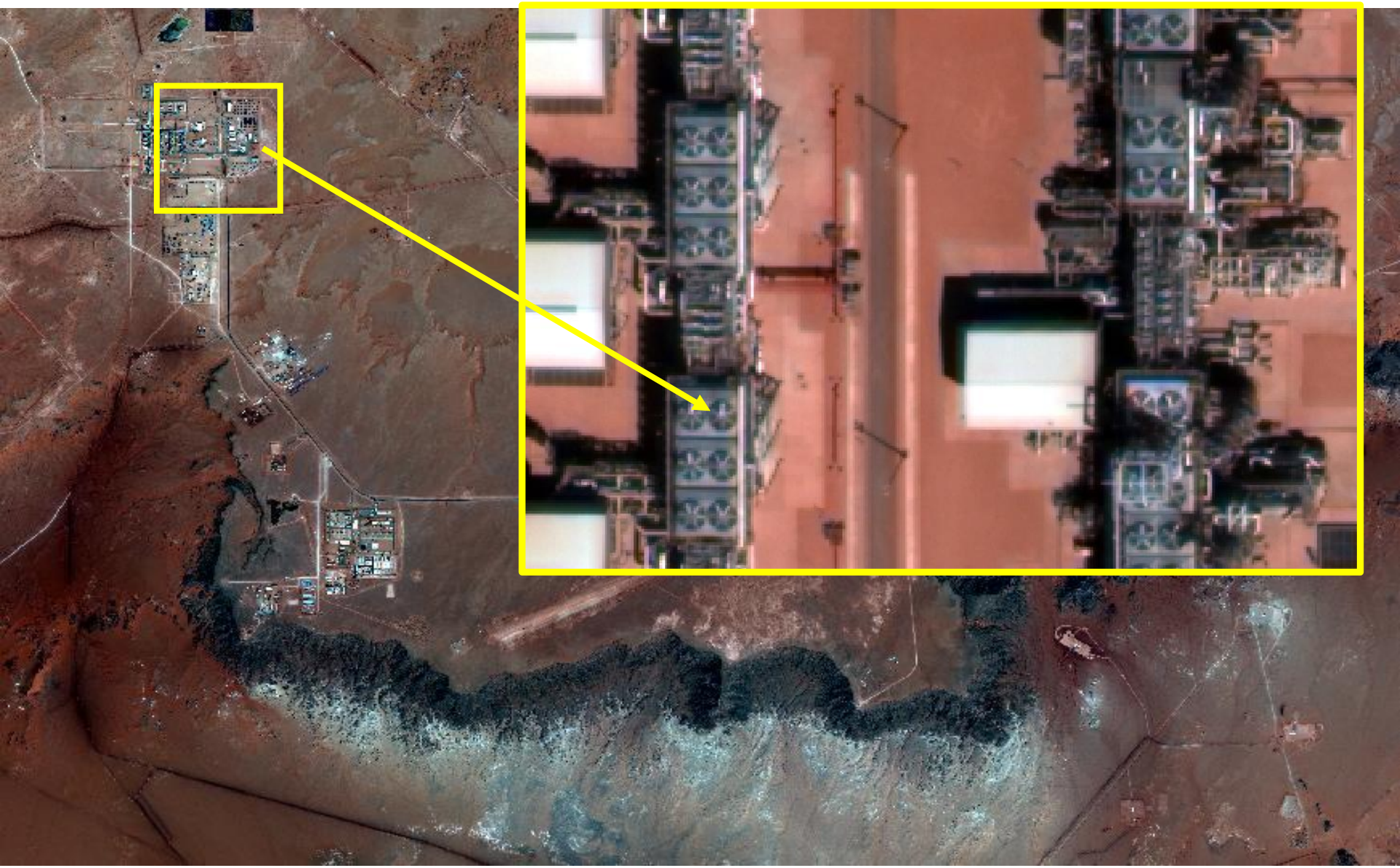
Security response



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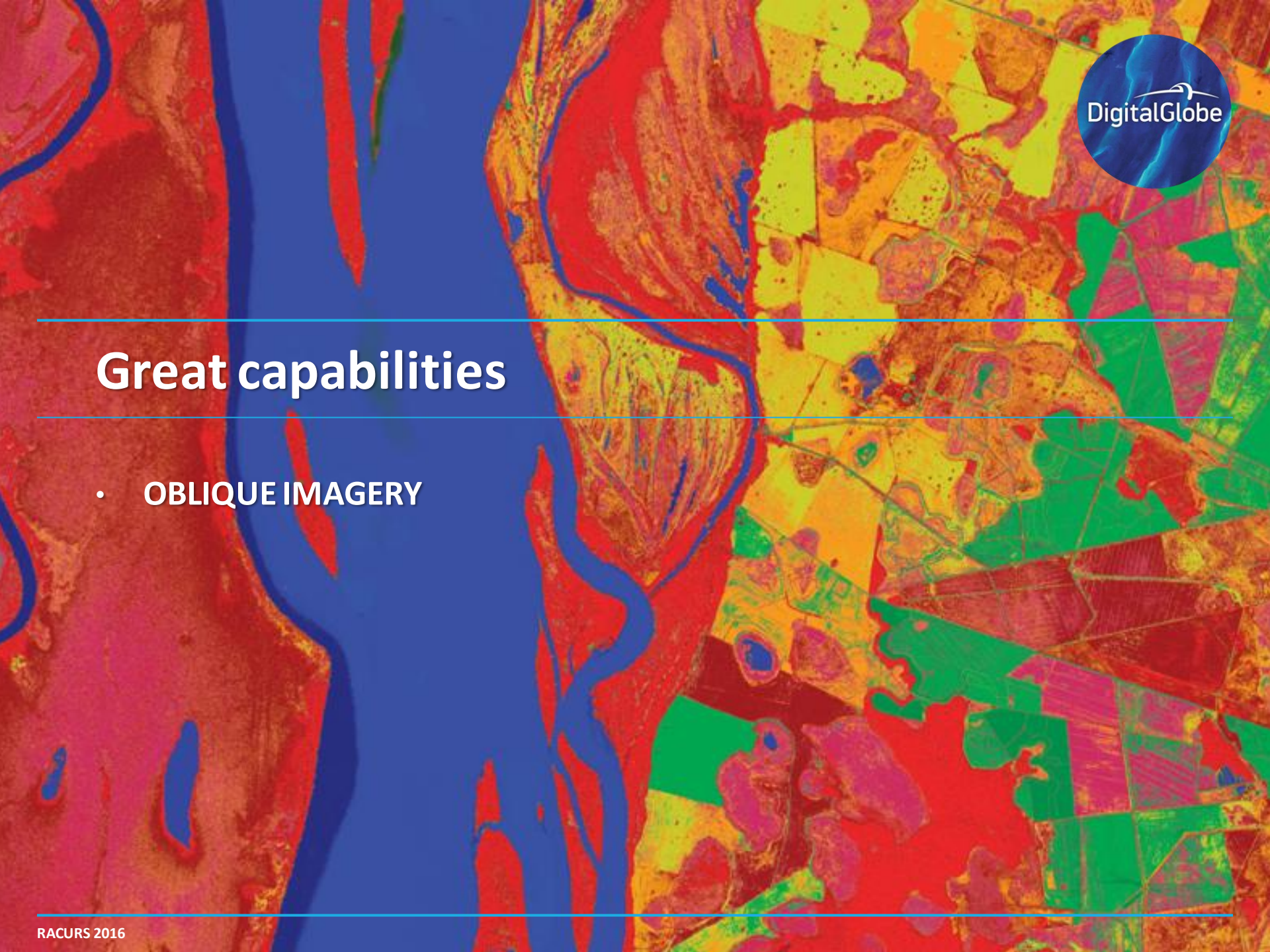

Great capabilities

- OBLIQUE IMAGERY

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