

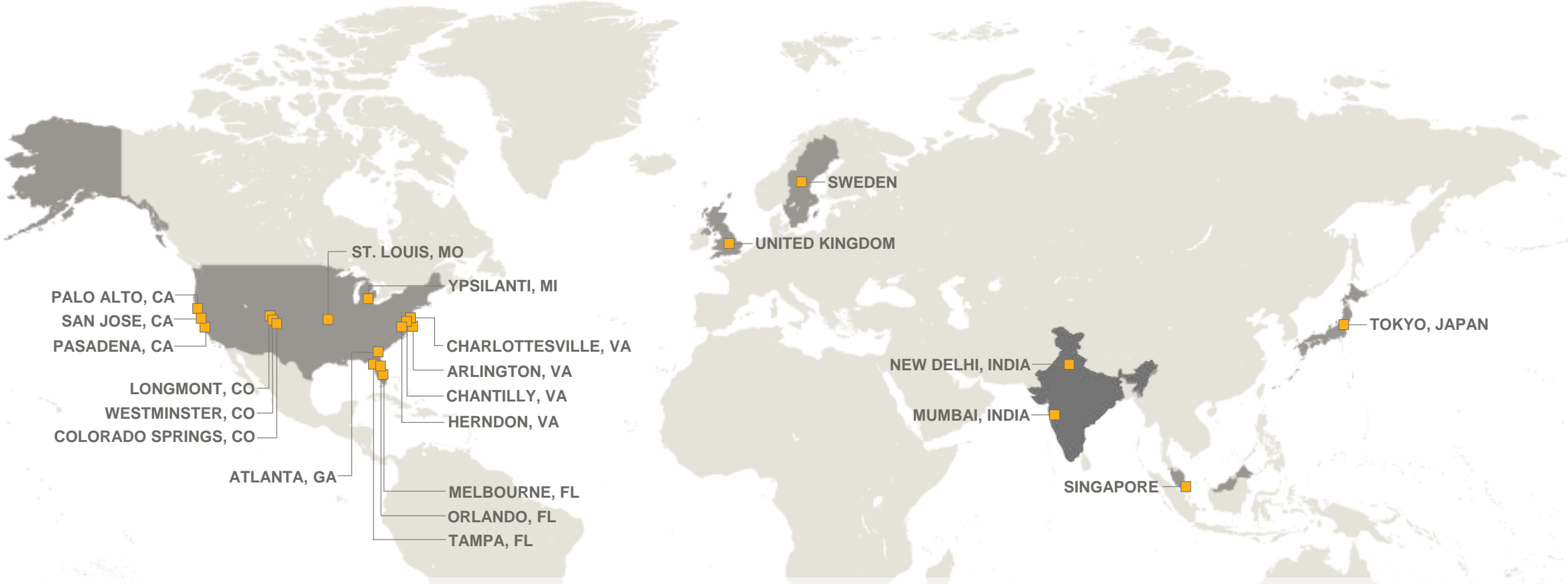


# SPACE-BASED INTELLIGENCE, SURVEILLANCE AND RECONNAISSANCE (ISR) FOR DECISION SUPPORT & TARGETING

**Aaron Wyand** | Product Manager, Maxar Technologies

Geointelligence 2022





More than **20**  
locations

Customers  
in more than **70**  
Countries

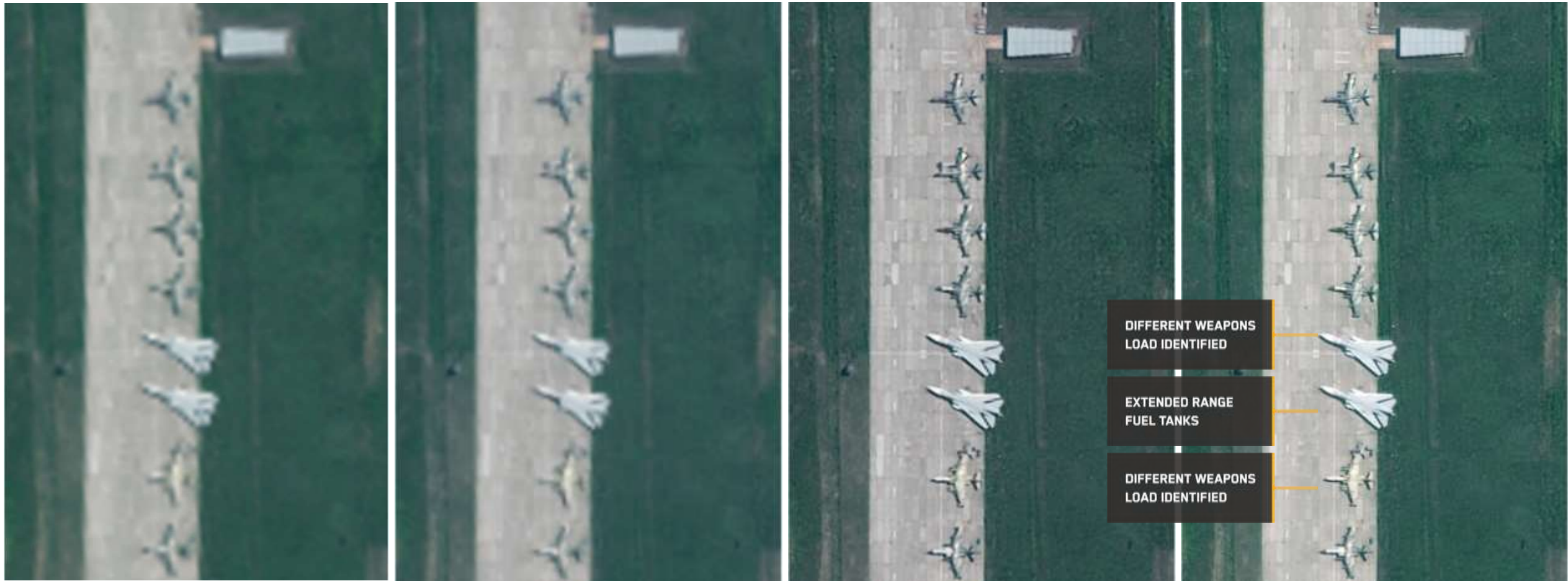
**170**  
Resellers

**4,400**  
Employees



# High resolution provides clarity into on-ground conditions

WorldView Legion will capture 30 cm-class imagery



1.5 m GSD  
NIIRS 3.4

1.0 m GSD  
NIIRS 4.0

50 cm GSD  
NIIRS 5.0

30 cm class GSD  
NIIRS 5.7



# High geolocation accuracy results in precise, reliable maps

An object's position in an image accurately reflects its true ground position



- 5 M ACCURACY
- 20 M ACCURACY
- 100 M ACCURACY



## Maximizing data collection

- One WorldView Legion collection area will be 22x larger in a single swath than a U.S. competitor and at least 2x better in native resolution quality.
- WorldView Legion's ability to slew and capture multiple swaths during a single overhead pass means contiguous area collection will be significantly greater in volume for visual consistency over very large areas.

### Contiguous Area Collection of Taiwan at 50 cm

- One WorldView Legion will collect 100% of Taiwan's landmass in single pass (22,000 sq. km)
- One U.S. competitor collects < 3% in single pass at half the resolution



### Maxar Single Swath Image:

- 672 sq km @ <50 cm resolution
- Area: Metro D.C. and Potomac River from Bethesda, MD to Fredericksburg, VA



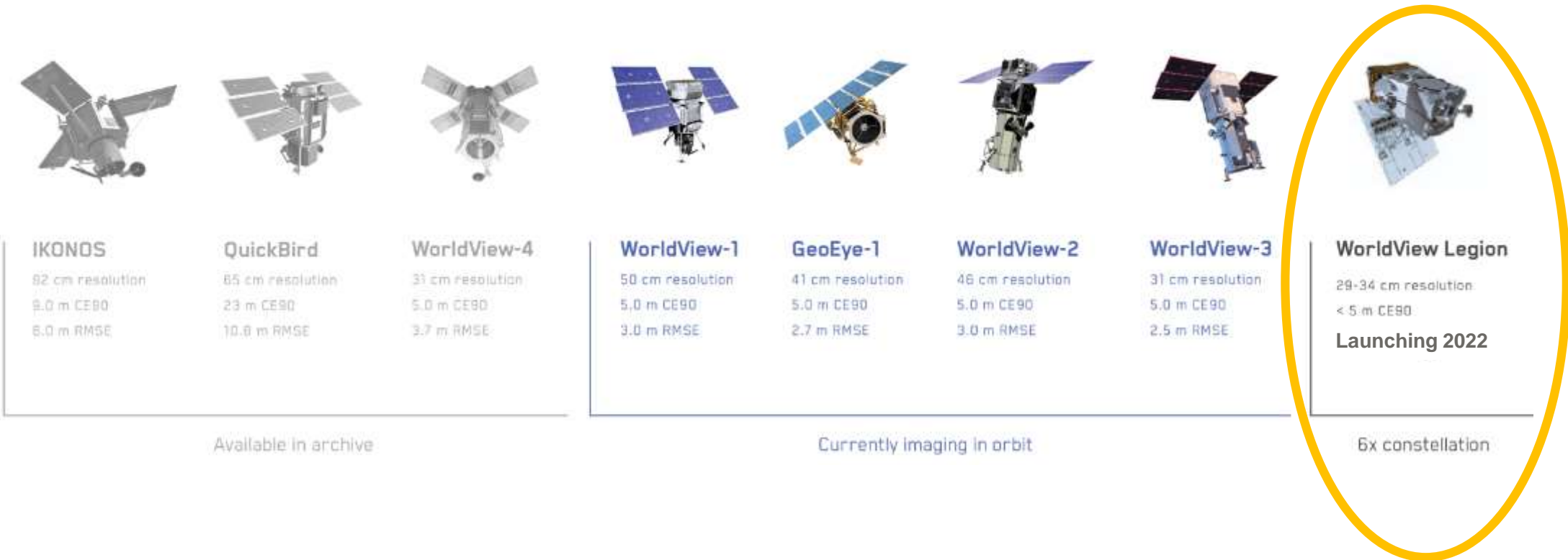
### U.S. Competitor Single Image:

- 26 sq km @ 78 cm resolution
- Area equivalent: Dulles Airport, VA



# Maxar constellation today:

WorldView Legion is the cornerstone of our future constellation



## WE OPERATE THE WORLD'S MOST ADVANCED EARTH IMAGING CONSTELLATION

Maxar's imaging satellites capture **more imagery** at a **higher resolution** than other commercial imagery providers, with 1.4 billion square kilometers of imagery captured each year

### LOOKING TO THE FUTURE

Maxar is building WorldView Legion, a new generation of Earth observation satellites meant to serve our customers' evolving needs. WorldView Legion's six satellites will image Earth's most active areas more frequently than ever before.

TODAY

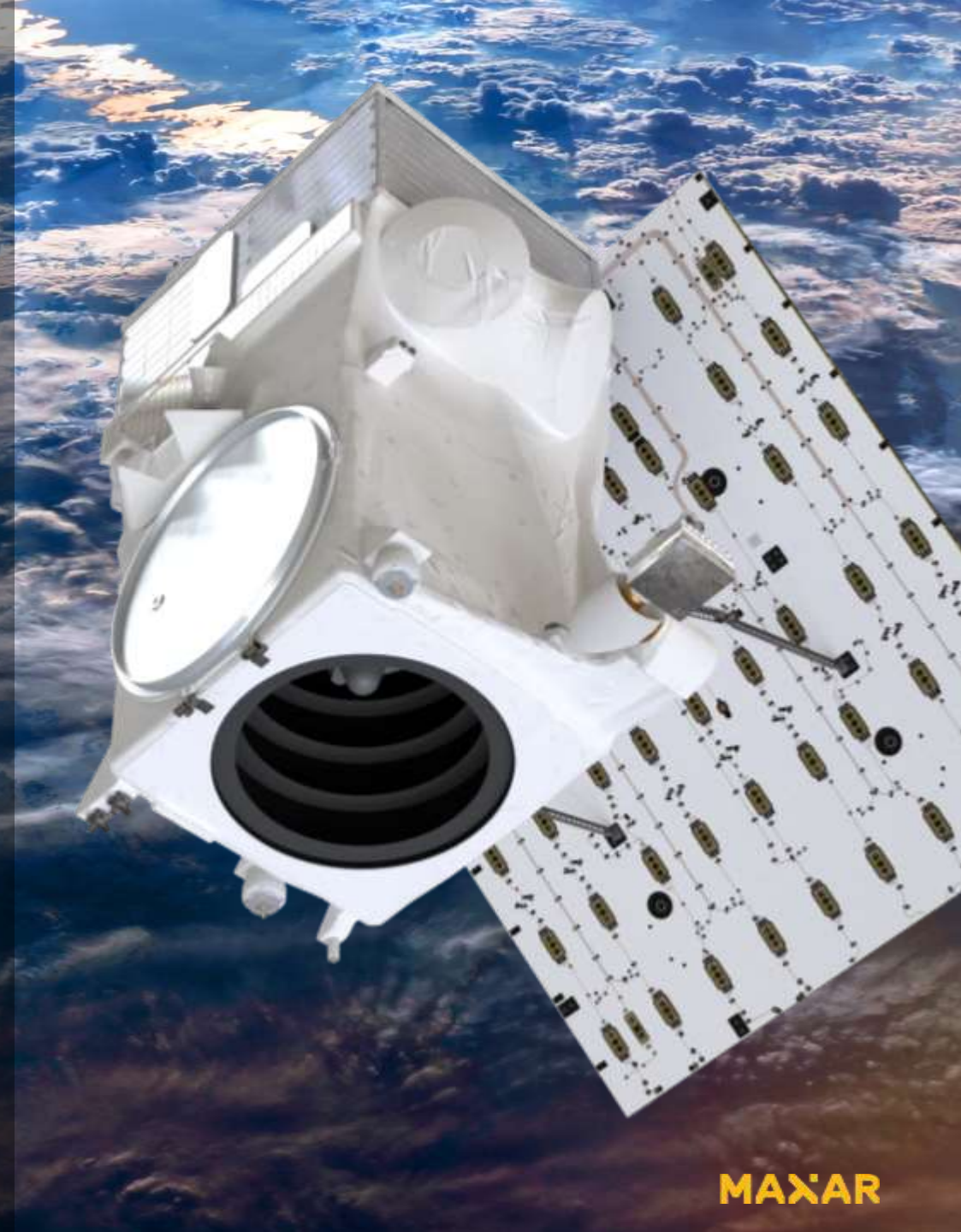
**3.8 million**

Square kilometers of Earth imagery capacity each day

WITH WORLDVIEW LEGION

**5+ million**

Square kilometers of Earth imagery capacity each day



**MAXAR**

# Video of Russian Convoy Outside Kyiv, Ukraine, February 2022





# International Systems

## Maxar delivers ground systems to dozens of allied nations

- Maxar's systems and services give customers the ability to lease time on a given spacecraft to perform their own mission operations.
- Direct Access customers are typically international defense and intelligence agencies needing:
  - High volume of image collections
  - Timeliness and reduced latency
  - Privacy in their collection plans and imagery
  - System security
  - Retention of raw data collected



### Direct Access Facility (DAF)

Direct satellite tasking using an in-situ ground station for real-time imagery acquisition and downlink. Fast, secure, and guaranteed access.



### Rapid Access Program (RAP)

Eliminates large upfront costs via a web-based application and private, secure cloud hosting. Virtual tasking through Maxar.



### Tactical Access Program (TAP)

Transportable multi-sensor direct downlink solution for disconnected and challenging environments.



## Direct Access Program

Direct satellite tasking using your own ground station for real-time imagery acquisition and downlink to support the most demanding mission requirements.

- Dedicated ground system for the fastest, most secure throughput
- Predictable tasking for assured collections
- Task up to 15 minutes prior to imaging event and receive data via direct downlink within minutes of collection
- Local control and encrypted downlink to ensure a secure, confidential end-to-end workflow
- Flexible licensing terms to satisfy mission and security requirements





# Rapid Access Program

Virtual control of the Maxar constellation through priority tasking, predictable access and imaging operations with a simple and affordable web interface.

- Flexible tasking options allowing changes up to 90 minutes before image acquisition
- Receive processed imagery within six hours of collection (2-3 hours 90% of time)
- Gain secure, online access from anywhere on Earth
- Multi-tiered protection via AWS for your information and imagery archive
- Utilize point targets and large area scans
- Fast, cost-effective deployment; no infrastructure investments required





# Tactical Access Program

Assured, near-real-time insights through a proven, transportable, and adaptable downlink solution that delivers and processes the world's highest resolution multi-sensor data at the tactical edge.

- Direct downlink of multi-sensor data to the tactical edge in disconnected environments
- Low latency image downlink, processing, and dissemination where it's needed most
- Transportable on a variety of commercial and military aircraft, vehicles, and vessels
- Set up in under an hour by two trained users
- Advanced analytics and 3D registration for fast, accurate, data-driven insights
- Modular and adaptable to multiple antennas, receivers, and hardware and software stacks
- Widely-shareable unclassified commercial imagery



**MAXAR**

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