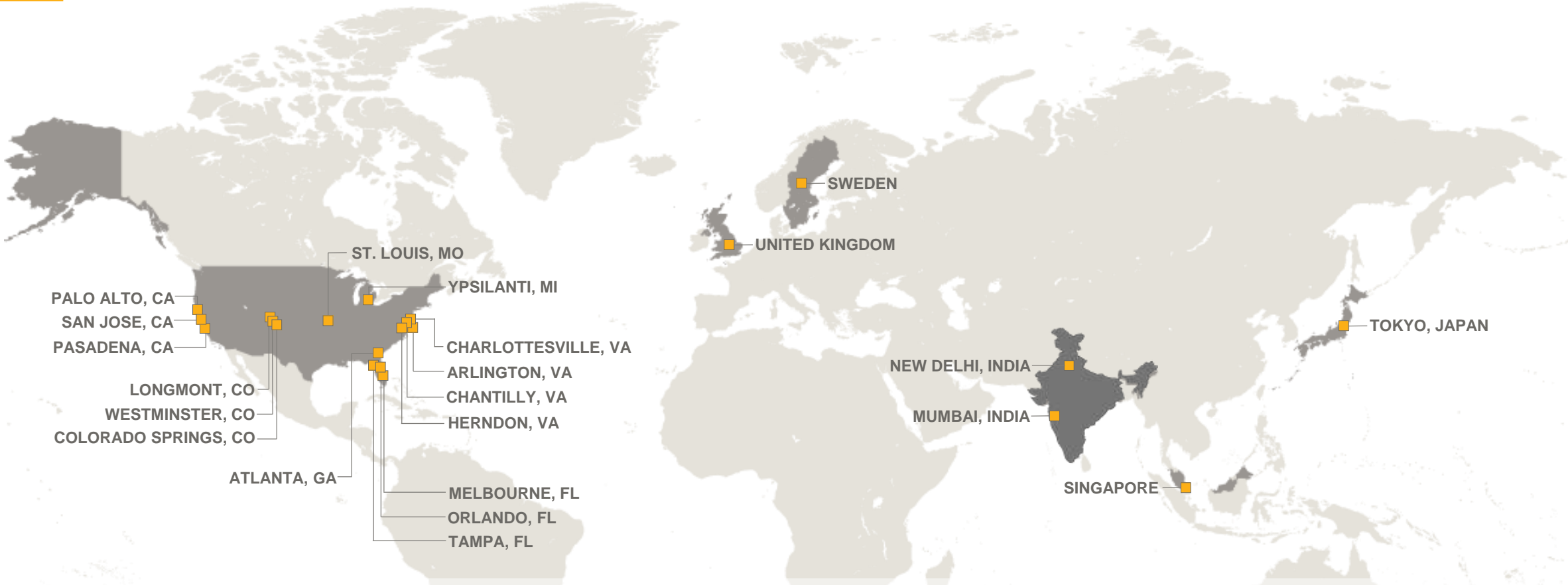




SecureWatch for Crime Prevention and Internal Security

Jake Dickinson, Maxar Product Management



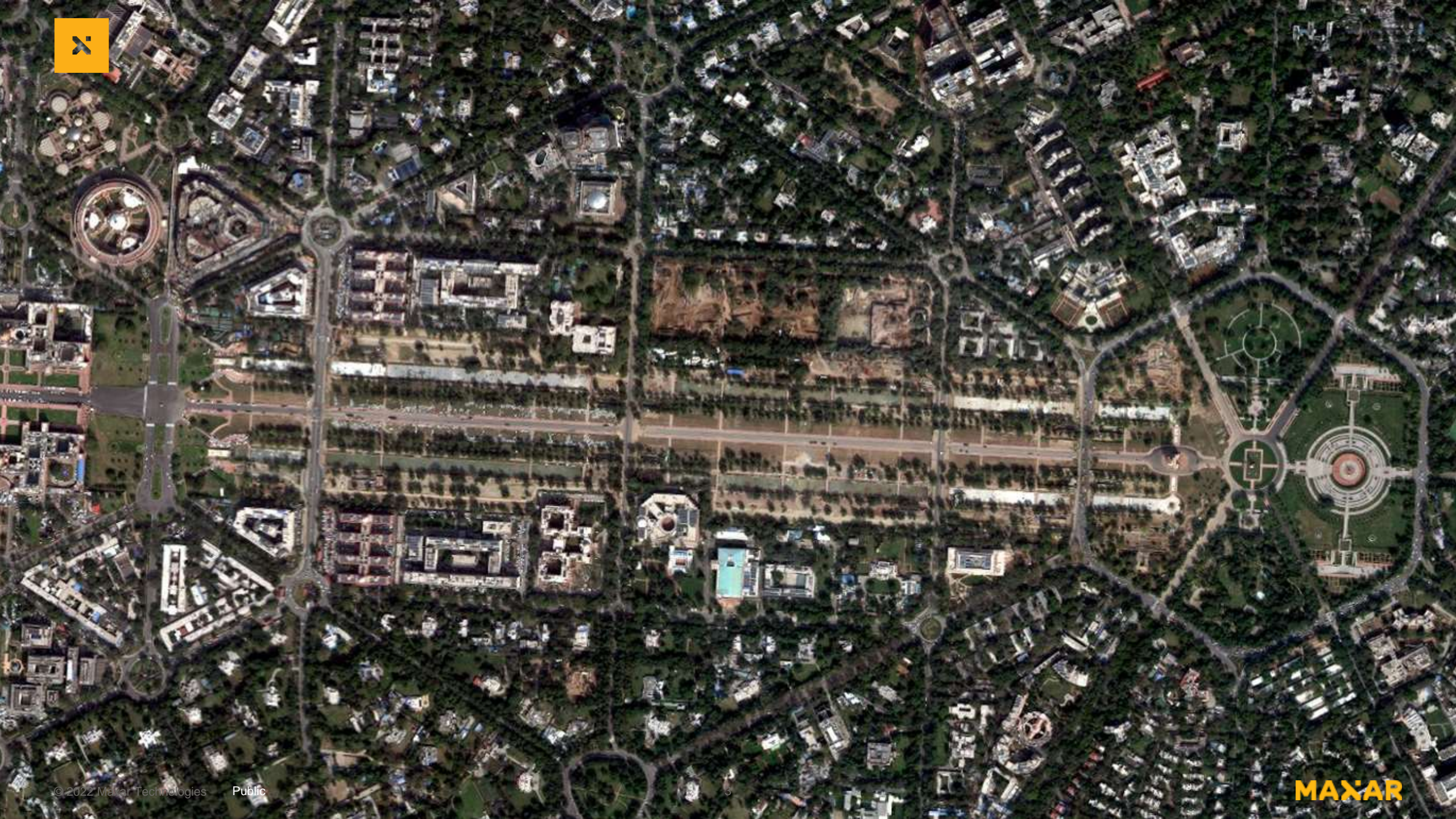


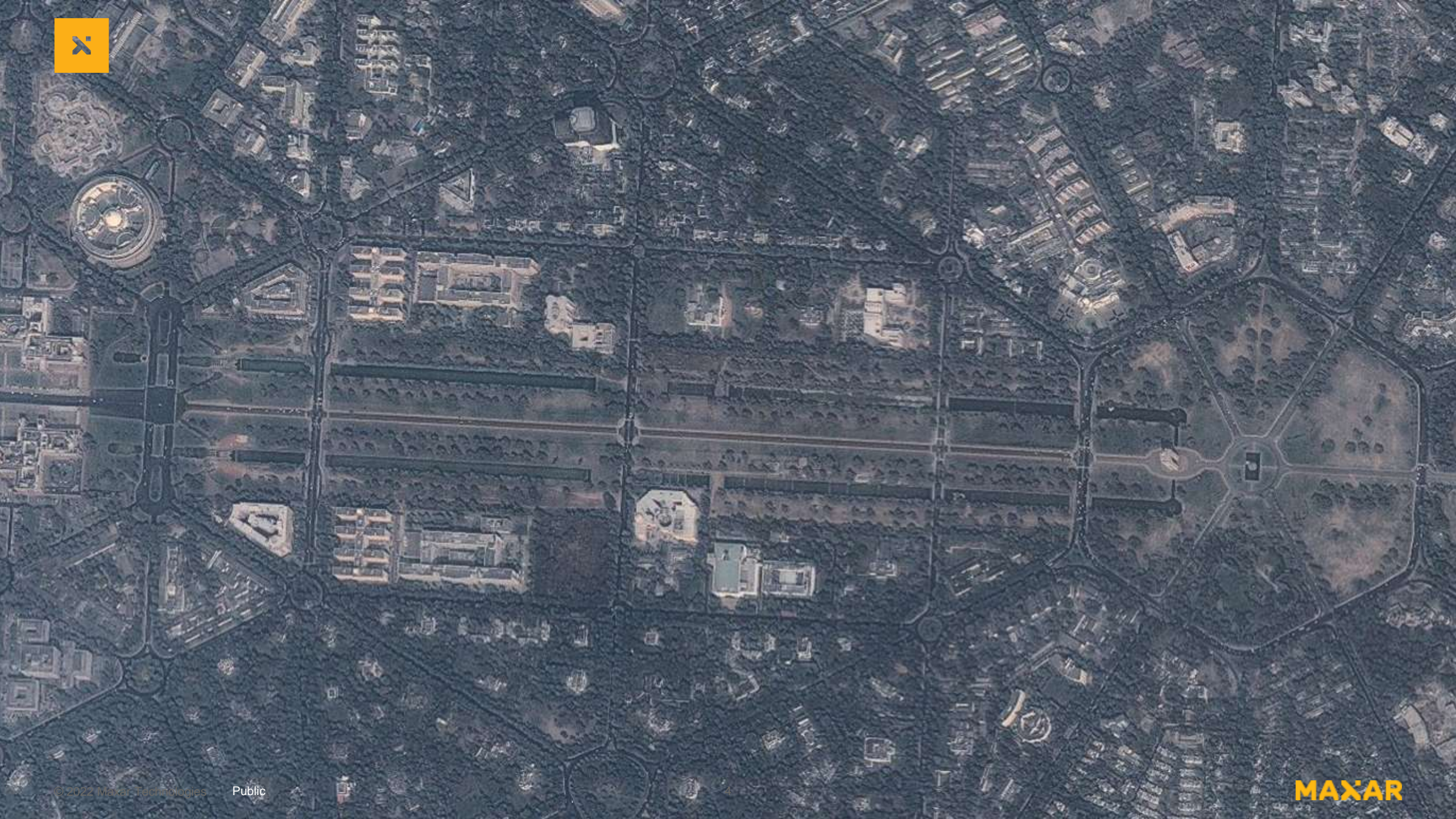
More than **20**
locations

Customers
in more than **70**
Countries

170
Resellers

4,400
Employees









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

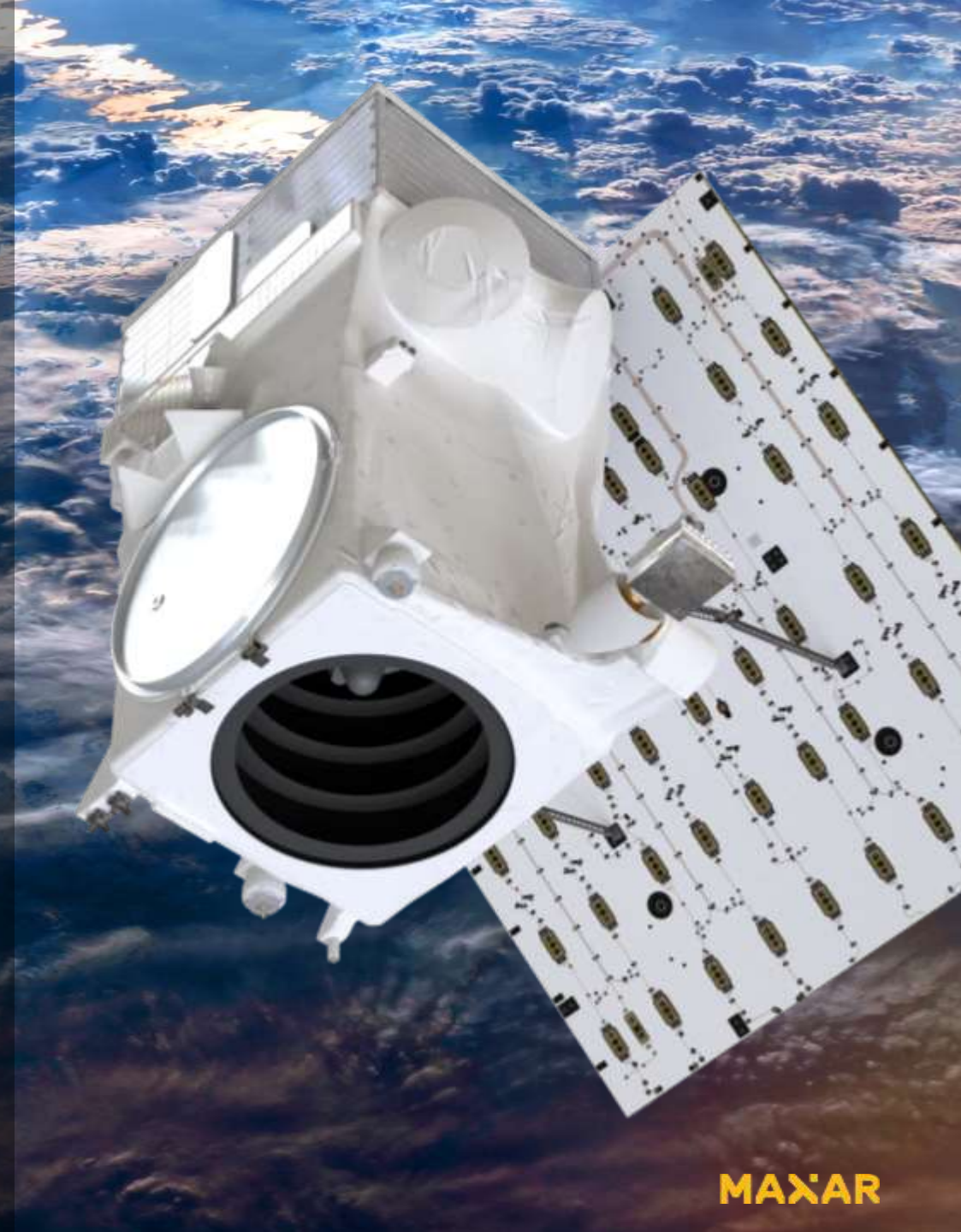
3.8 million

Square kilometers of Earth imagery capacity each day

WITH WORLDVIEW LEGION

5+ million

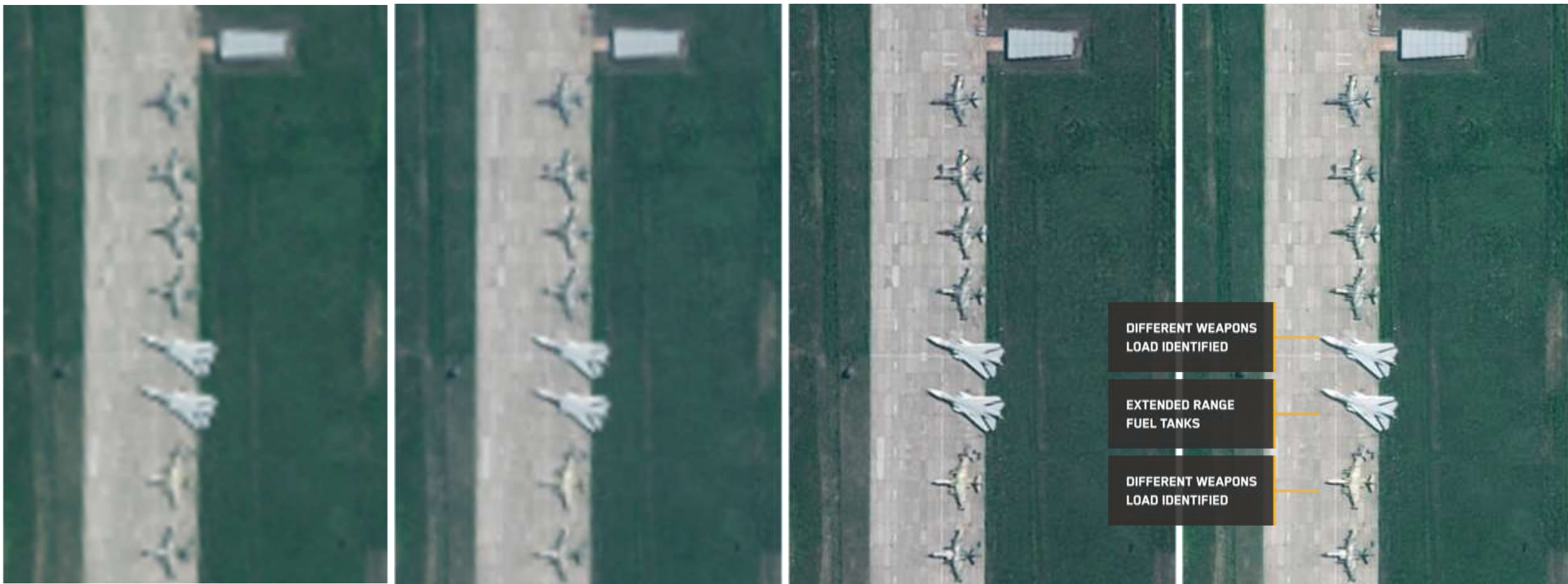
Square kilometers of Earth imagery capacity each day





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:

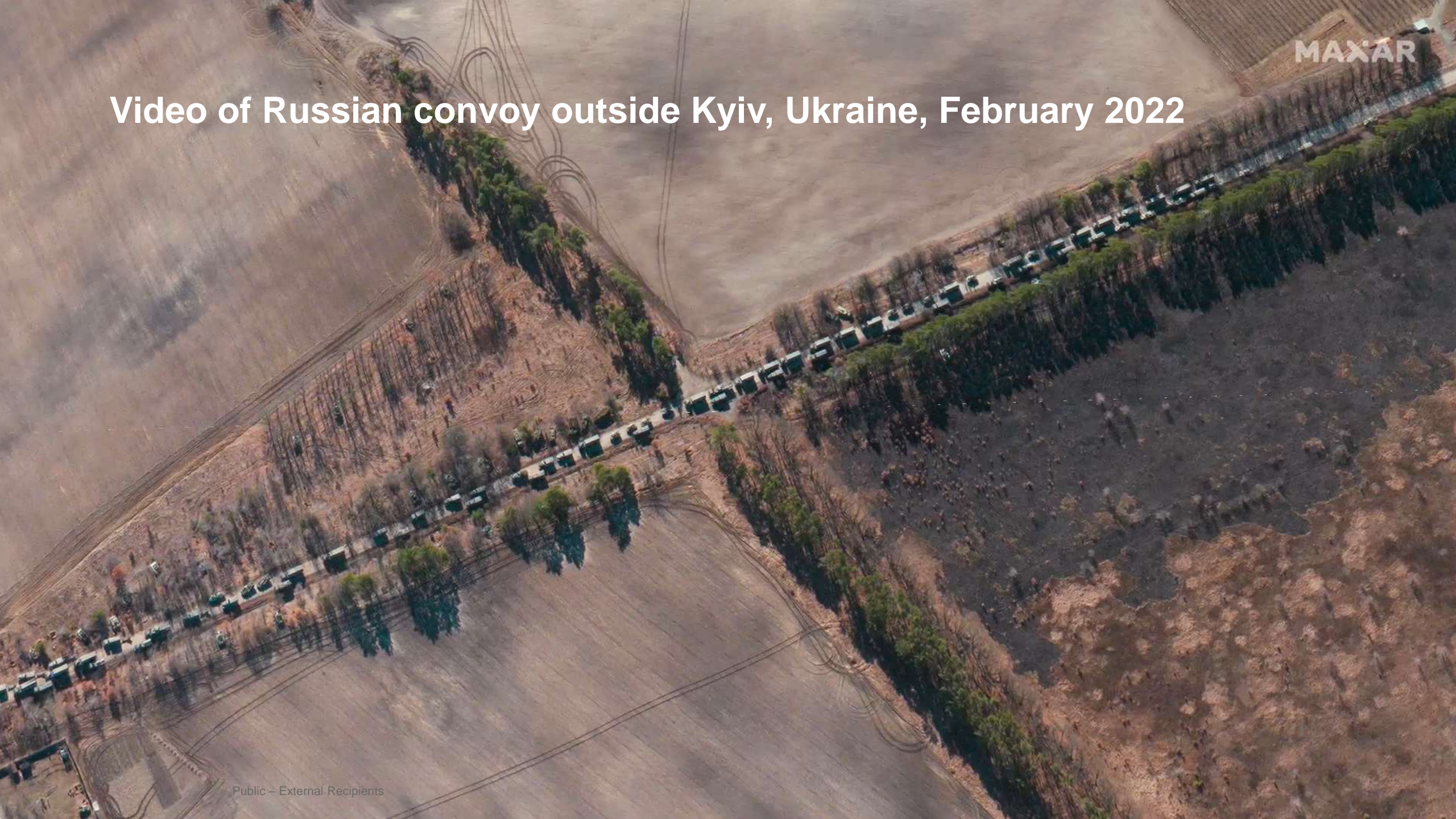
- 672 sq km @ <50 cm resolution
- Area: Metro D.C. and Potomac River from Bethesda, MD to Fredericksburg, VA



U.S. Competitor Single Image:

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

Video of Russian convoy outside Kyiv, Ukraine, February 2022





Use case: Geo-correlation for crime prevention



Geo-Correlation #1

Geo-Correlation #2

Geo-Correlation #3

Geo-Correlation #4

Geo-Correlation #5

Google Street View
Cellular Tower

Cellular
Tower



MAXAR



**CONFIRMED
LOCATION**





Use case: Border security



Border crossing analysis–AOI identification, Latin America sample



Total border distance: 4,993 km

Points discovered: 3,212

- ◆ 26 key high-confidence crossings
- 1,622 foot crossings
- 1,590 vehicle crossings

Areas with a high confidence of human activity:

- Paraguachon, Colombia: AOI 1
- Cucuta, Colombia: AOI 2
- Arauca, Colombia: AOI 3
- Pacariaima, Brazil: AOI 4



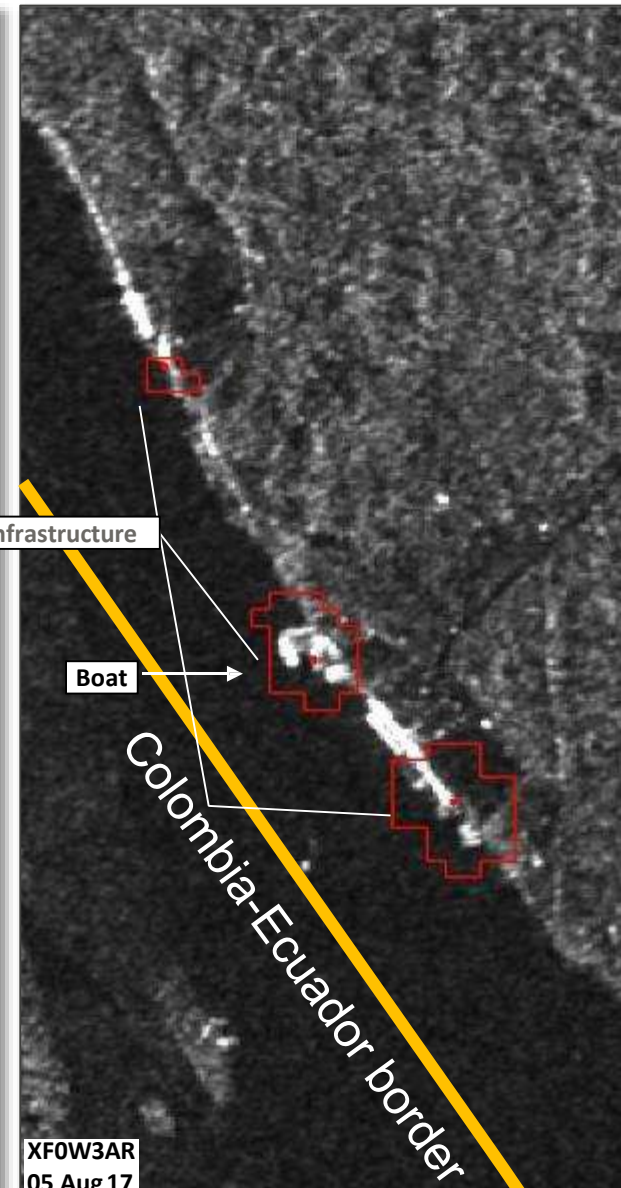
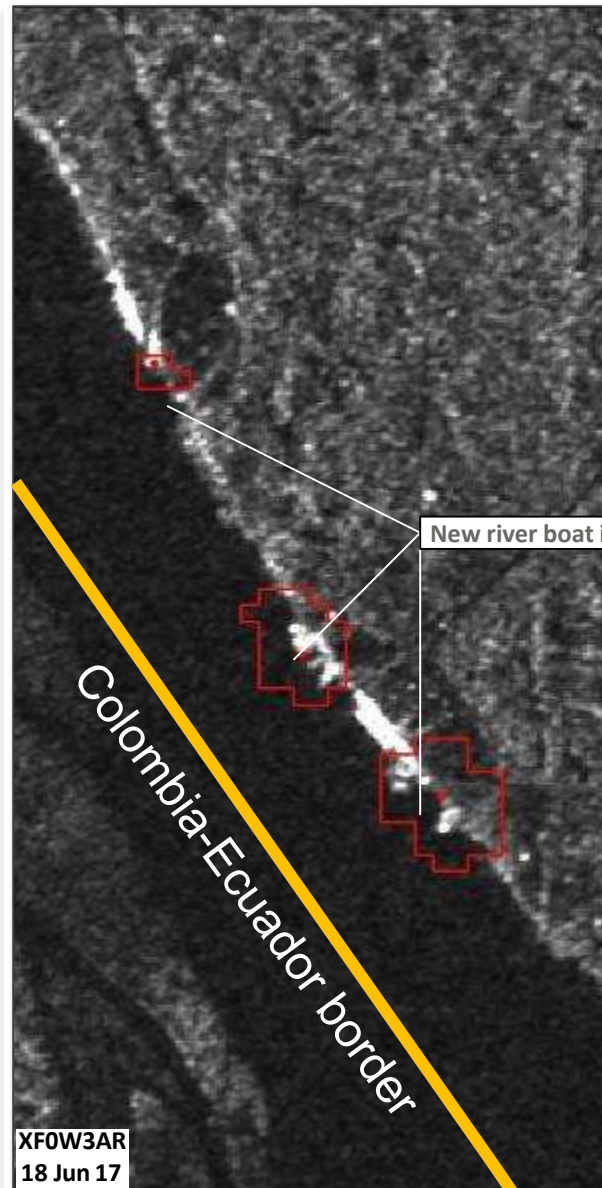
Waterway (river) crossing activity near Cucuta, Colombia



● Vehicle crossing ● Foot crossing ◆ Key high-confidence crossing



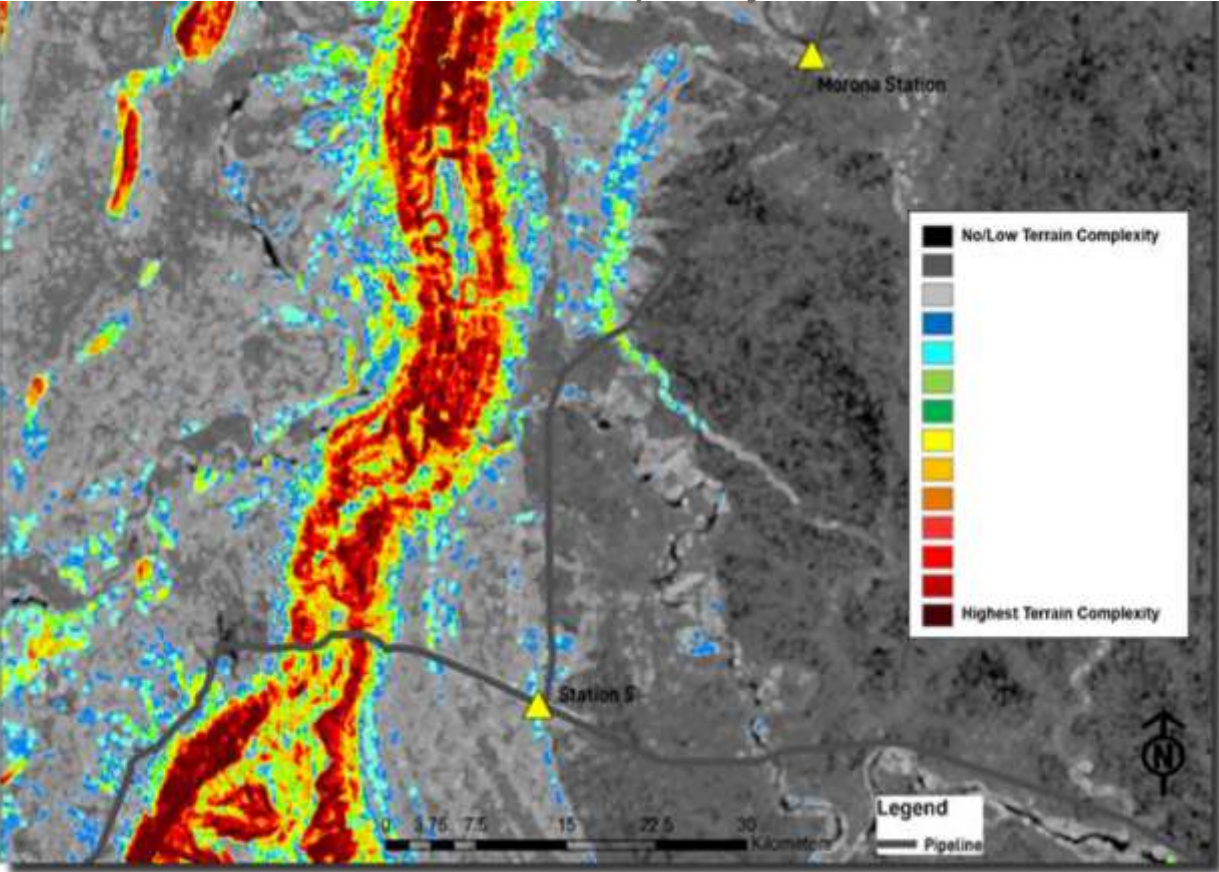
✕ Day/night border activity monitoring



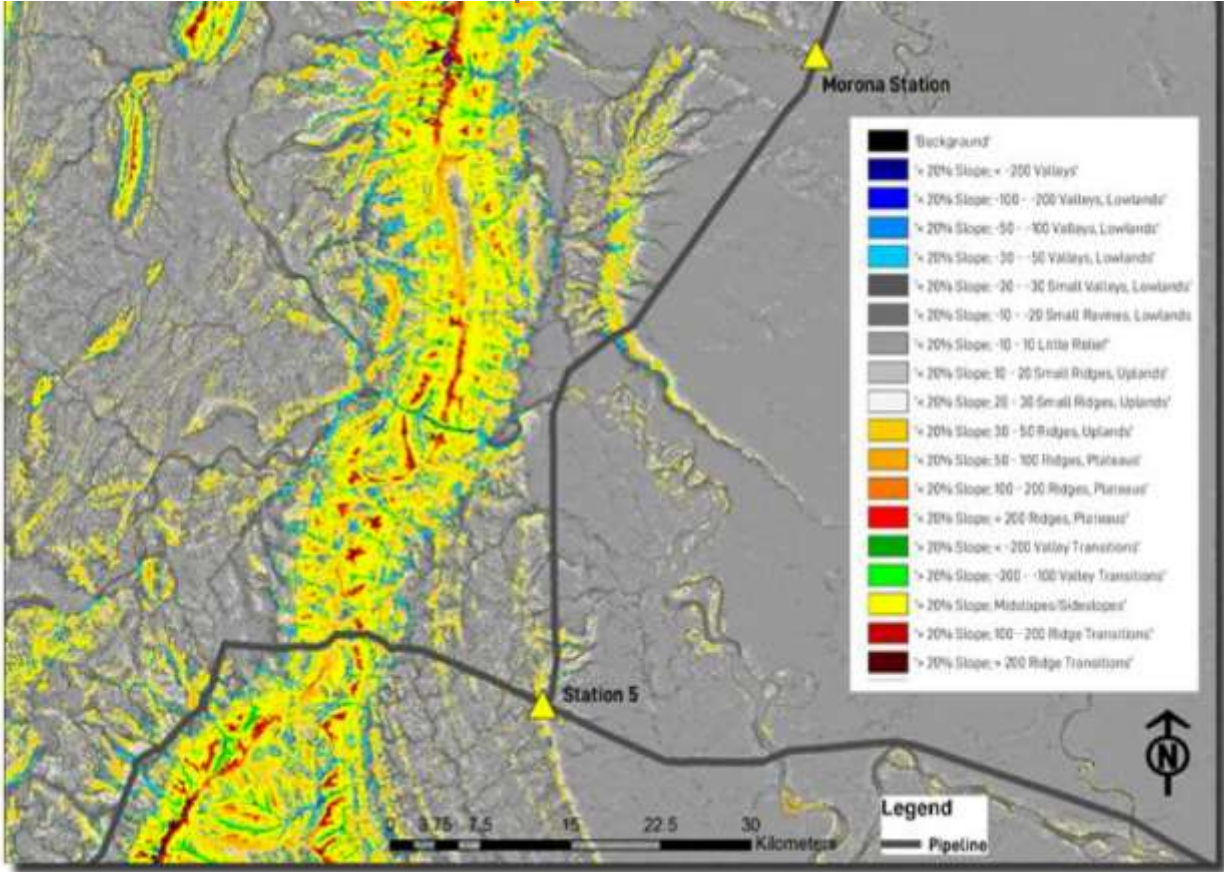


Area reduction for border crossing and illicit activity

Terrain complexity



Terrain slope characterization



Focus border security resources and analysis by identifying most-likely areas for illegal border crossing and illicit crop farming



China | November 11, 2020 | Maxar WorldView-1 Satellite Image



Airport construction | China | June 06, 2022 | Maxar WorldView-1 Satellite Image



Airport construction | Skardu Air Base | March 20, 2020 | Maxar WorldView-3 Satellite Image



Airport construction | Skardu Air Base | March 14, 2022 | Maxar WorldView-2 Satellite Image



Use case: Contextual basemap for planning and real-time operations



Image strips over large areas can be challenging due to clouds, seasonal variation and image overlap

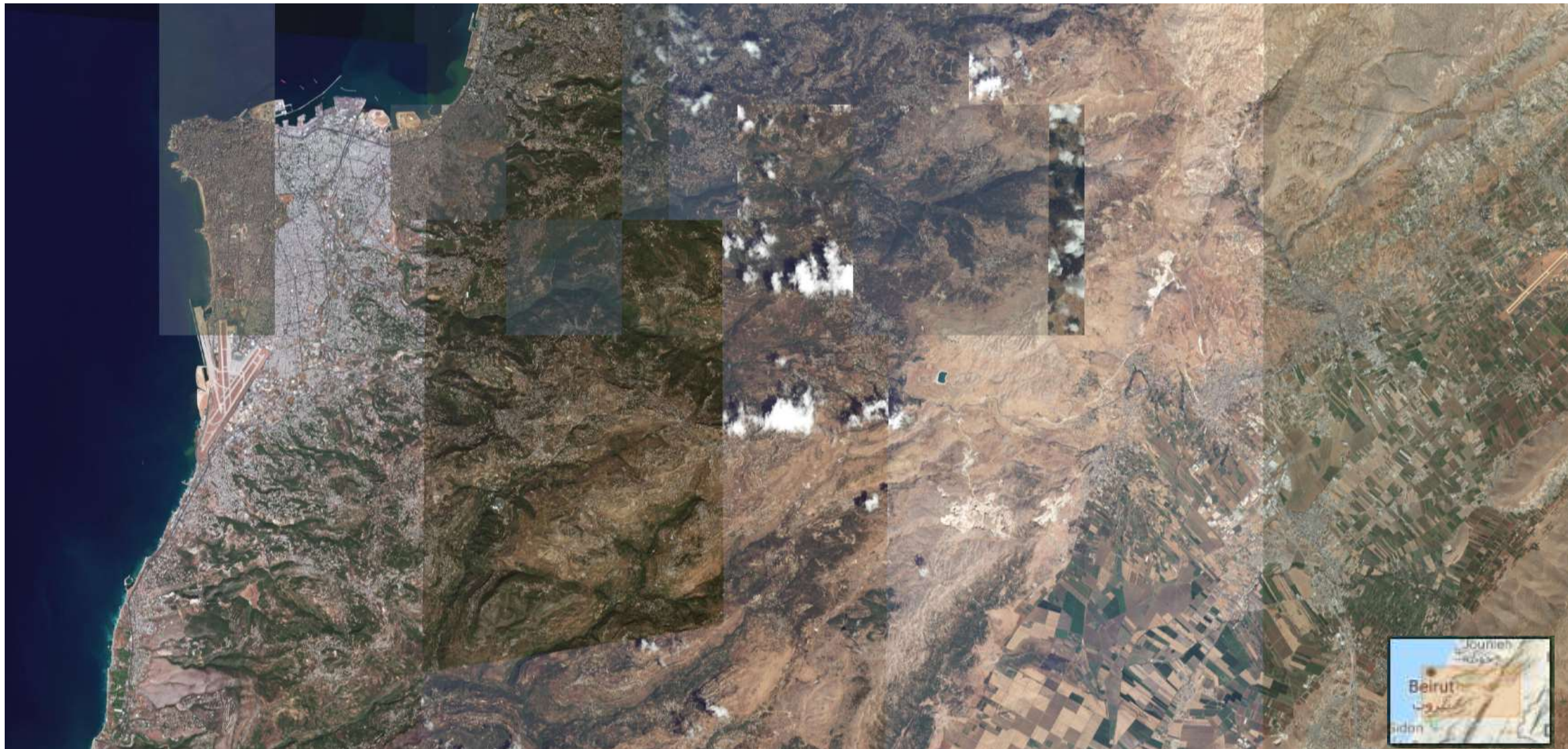




Image mosaics offer a composite basemap over large areas with optimal aesthetics and visual consistency

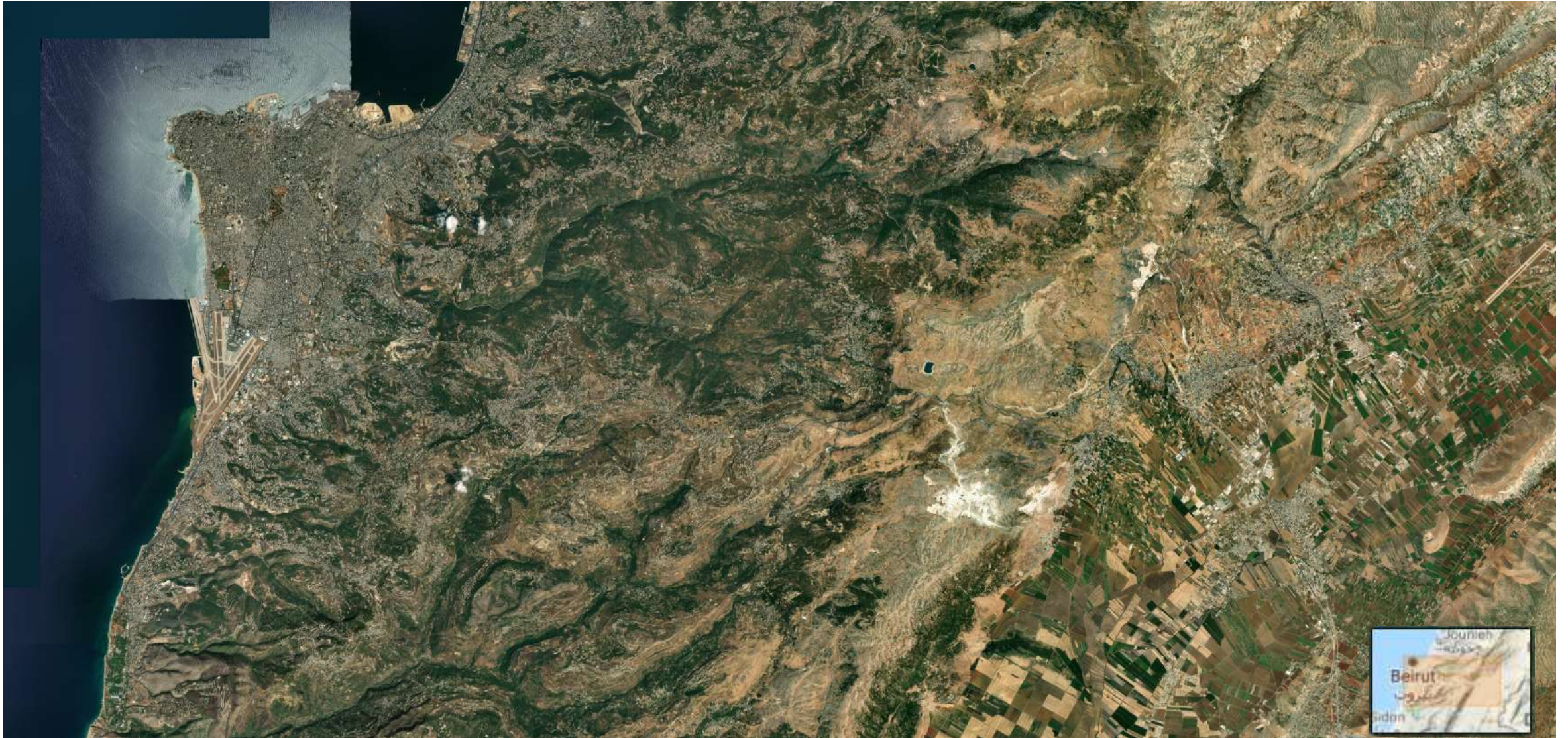
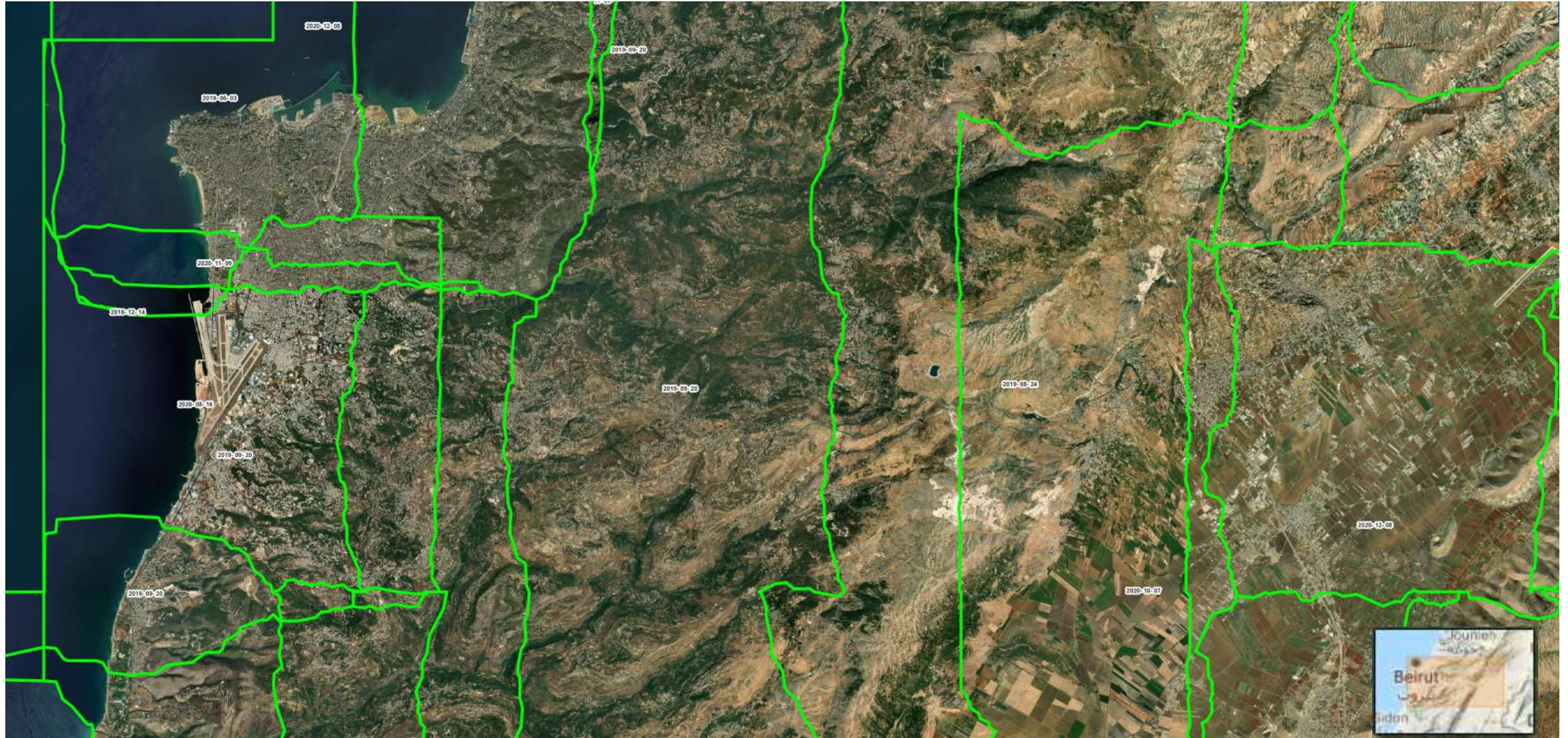




Image seamlines and metadata included with basemap products enable mapping with known reference data





Basemaps as a contextual layer

Why you need an imagery basemap:

- Maps don't include every possible detail a user may need
- Our world is always changing, so maps can quickly become out of date
- Users want to connect what they're experiencing with what they're seeing on their device

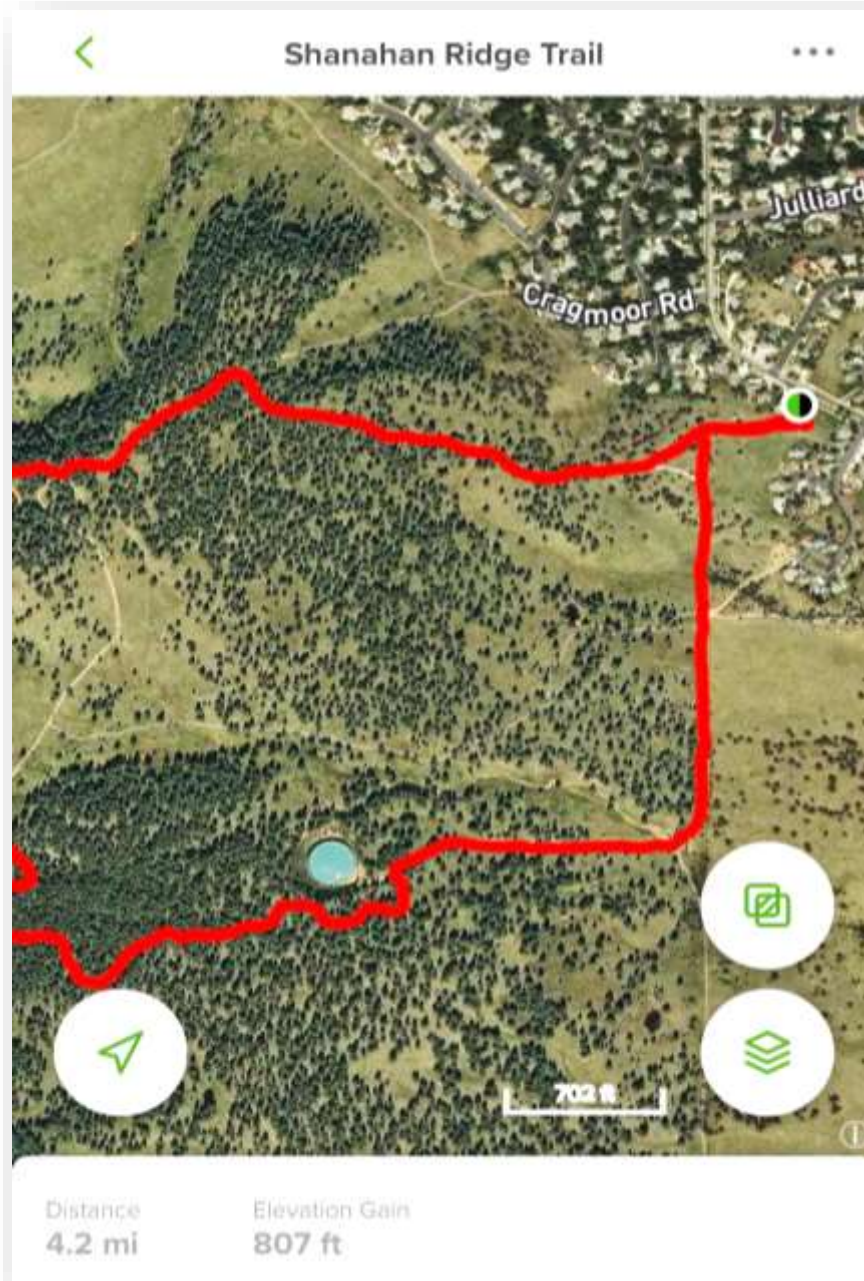
Which basemap: **Vivid Standard or Vivid Basic**

- Current imagery over cities and high-interest/use areas globally
- Basemaps with stunning aesthetics that reflect reality
- 30 cm (~12 in) or 50 cm resolution for reliable context world-wide
- 5- or 8.5-meter accuracy for good alignment with map layers

Integration: We make it easy with offline and streamlining/API options

What's next: Keep your map current with annual basemap updates

New imagery is blended into the existing basemap for a consistent view





Imagery basemaps need to reflect reality



Contextual layer

Complement map data with an imagery basemap that provides valuable context to users

Visual simulations

Simulate the world with an imagery basemap that offers a realistic perspective to users



Advanced mapping

Create high quality, reliable maps with an imagery basemap that provides a reliable foundation



Use case: Monitor change for law enforcement



Meth lab locations easy to identify in satellite imagery

- Key indicator of a meth lab in Afghanistan is an effluent or runoff pool connected to a nearby roofed structure by a ditch or other linear feature
- Imagery can be used to confirm the presence of these indicators, leading to probable meth lab locations
- The size of the pool can provide an indication as to how much meth any single lab may be producing relative to others





Optical imagery illicit activity indicators

Featuring SecureWatch

August 2014



Illegal Forest Clearings

August 2016

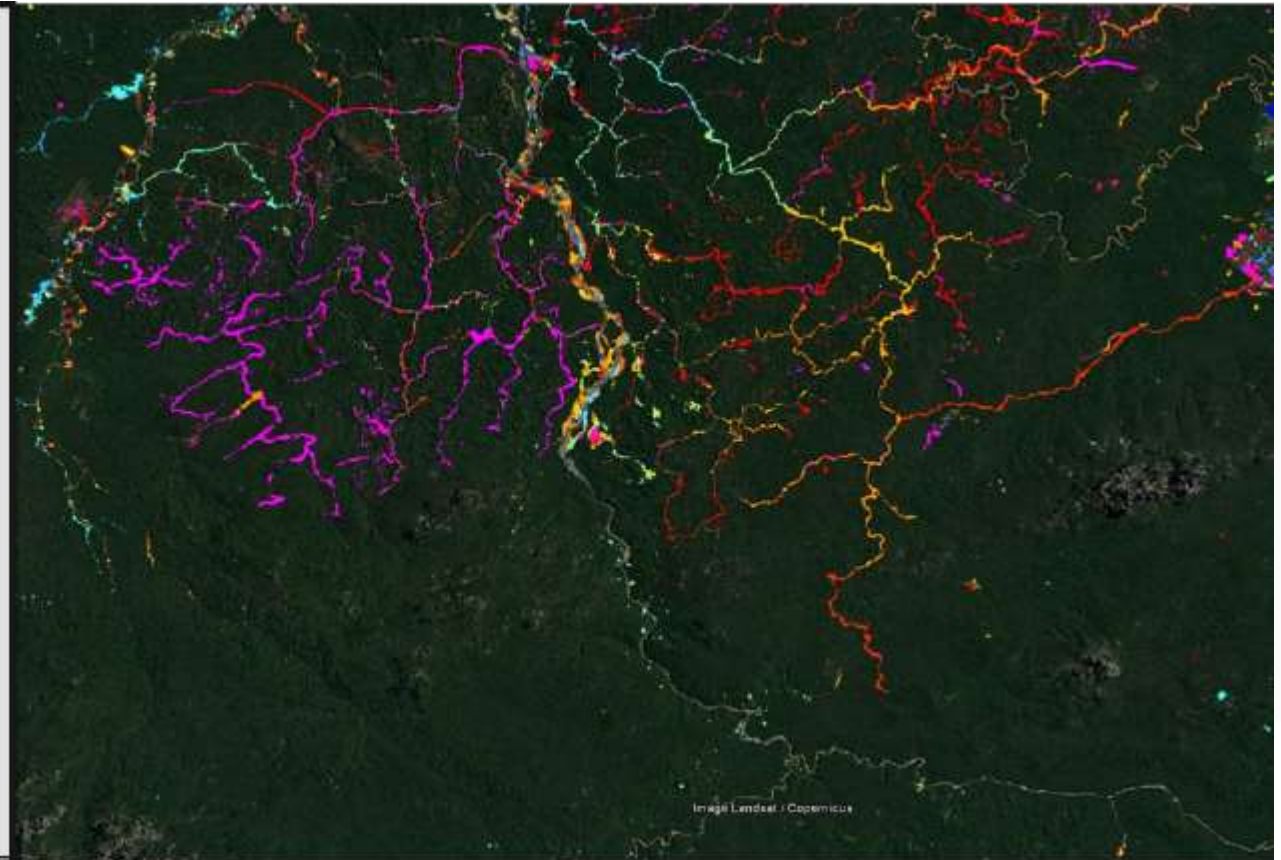




Monitor road development in remote regions



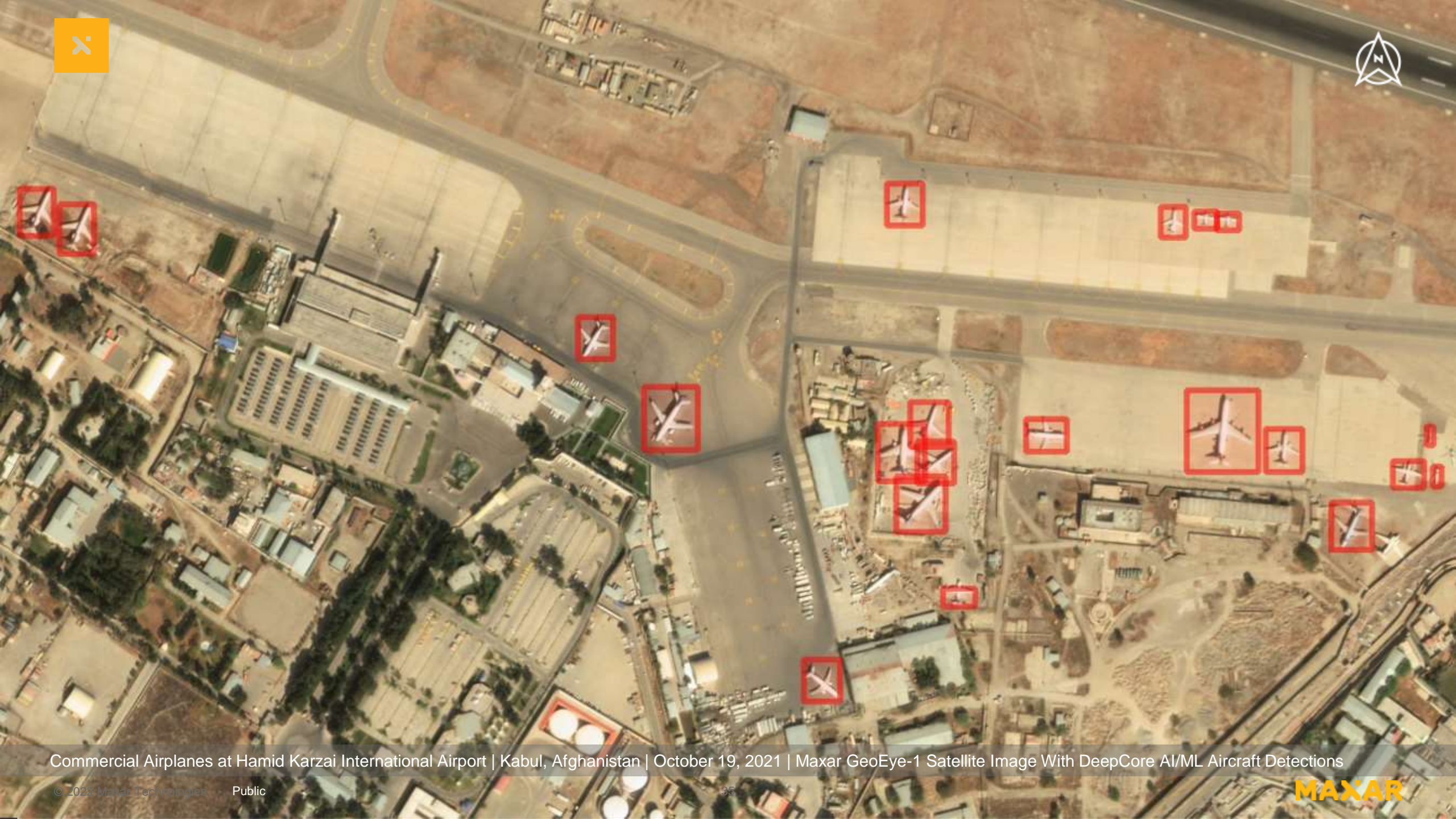
Papua New Guinea (1998-2018)



Identify clandestine airstrips

Possible clandestine airstrip
(false-color IR)

Possible ground disturbance
from recent vehicle activity



Commercial Airplanes at Hamid Karzai International Airport | Kabul, Afghanistan | October 19, 2021 | Maxar GeoEye-1 Satellite Image With DeepCore AI/ML Aircraft Detections

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