

Living Planet Symposium

DEFENCE AND SPACE

Pierre-Alain Bosc
Regional Head of Intelligence Sales
Connected Intelligence

AIRBUS

A Sole Constellation of EO satellites

NEXT



Optical Constellation

Pléiades Neo (4)

Pléiades (2)

SPOT (2)

DMC Constellation (4)

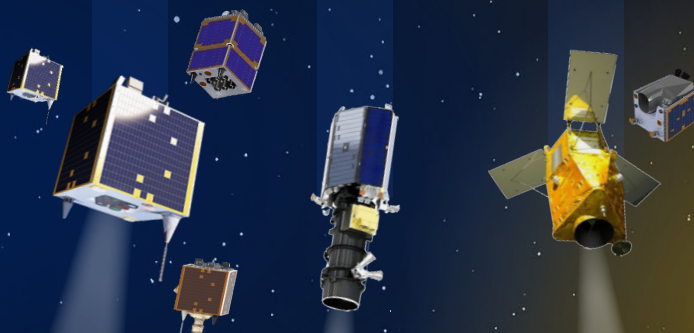
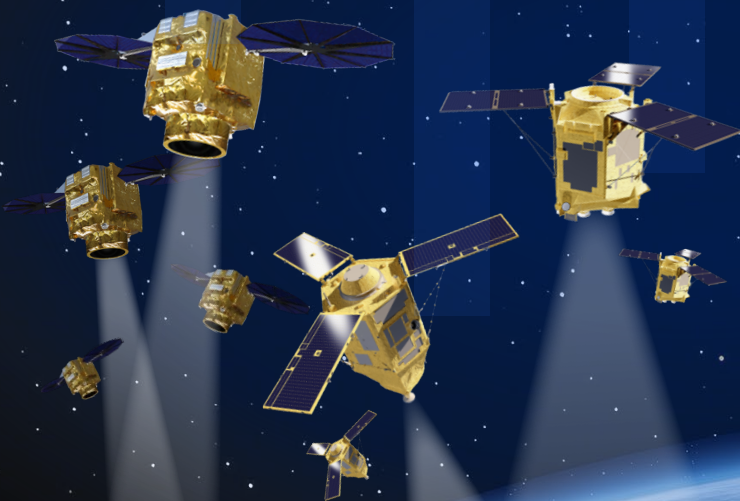
Vision-1

KazEOSat (partner, 2)

TerraSAR-X TanDEM-X

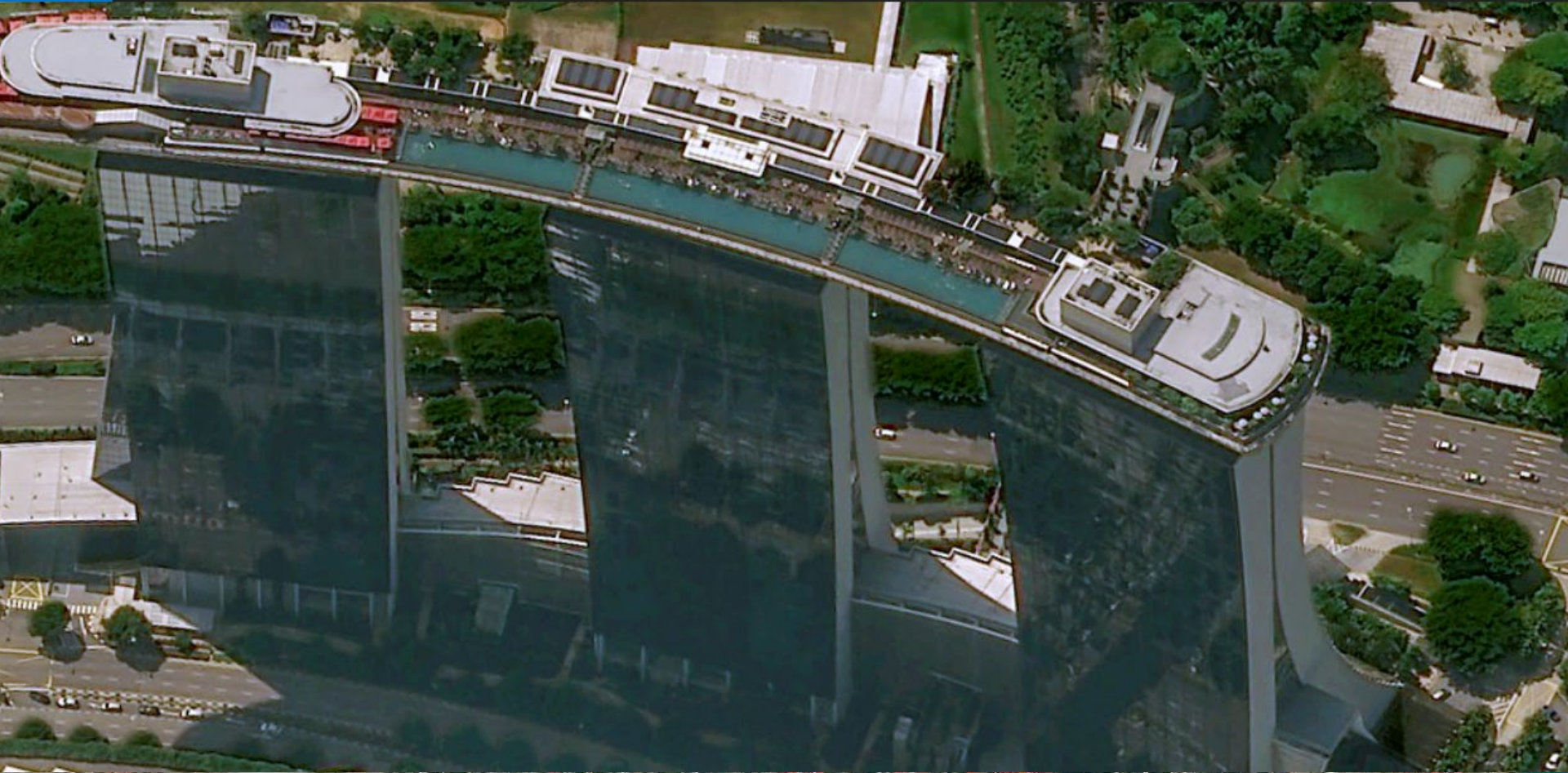
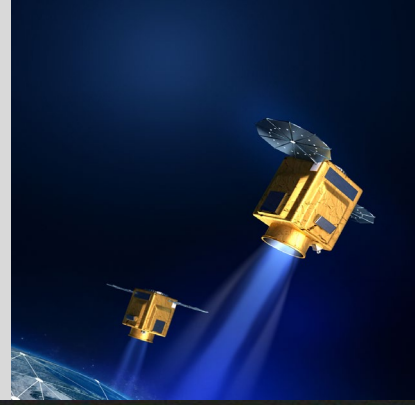
NovaSAR

PAZ (partner)



Airbus EO satellites constellation is impressive
But much more in Europe are coming and already exit
RADAR and OPTICAL

Guardians of the Earth Ensuring Safety with Pléiades Neo



Pléiades Neo

- 4 satellites
- 30 cm resolution
- Pan + 6 spectral bands
- 400 000 km² /day/sat
- Very high agility
- Tasking every orbit
- Ultimate reactivity EDRS

- Easy to access OneAtlas
- Easy to task OneAtlas



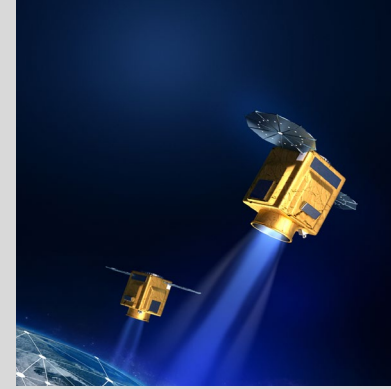
Pléiades Neo

- Looking every where
- 2 to 3-4 times a day
- Truly European
- From 2021 to 2033



Pléiades Neo

- Egypt Assouan



Pléiades Neo

- Kabul August 2021





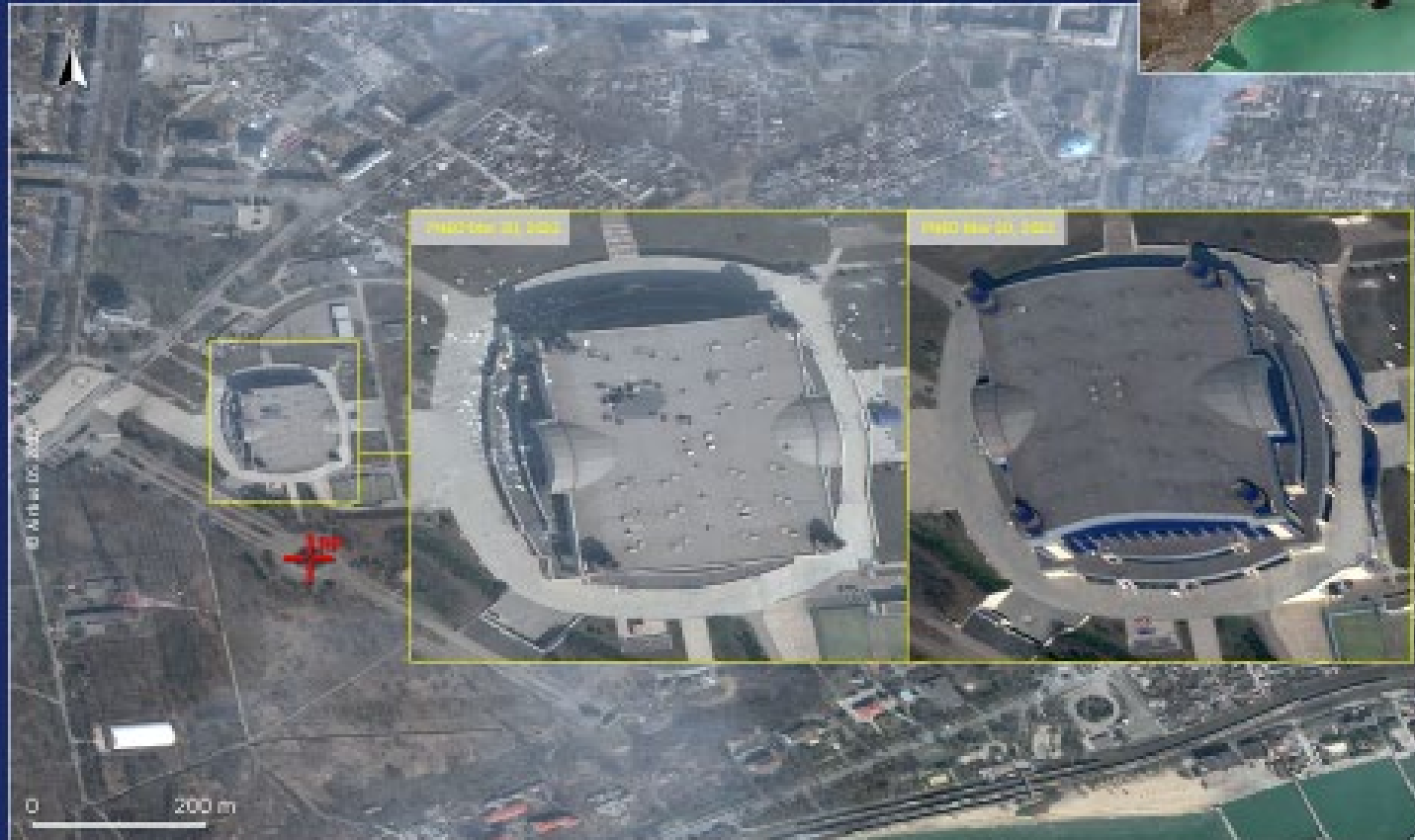
PNEO for Security

MARIUPOL

Ukraine

Mar 30, 2022 08:51:00 UTC

RP : 47°05'08"N / 037°31'48"E



The Mariupol sports complex was damaged. This type of infrastructure can serve as a gathering place for the population.

Mariupol 2022

- Evaluating buildings still available or not to gather population



PNEO for Emergency

MARIUPOL

Ukraine

Mar 30, 2022 09:51:00UTC

RP : 47°07'12"N / 037°10'11"E



thousands of people are visible in queues in front of a supermarket probably providing supplies to the population.

Mariupol 2022

- Monitoring Number of people queuing for food or else



PNEO for Emergency

Performances

- Taskig at the last moment
- 400km² up to 2000km²
- Images available to first responders less than 45 minutes after acquisition

Timeline UTC

- 03:55 last time for customer request deposit for tasking via polar station
- 04:47 acquisition
- 04:50 download via Space Data Highway
- 05:20 product availability via Space Data Highway
- Ordering-delivery <90m
- Age of Image = 33mn



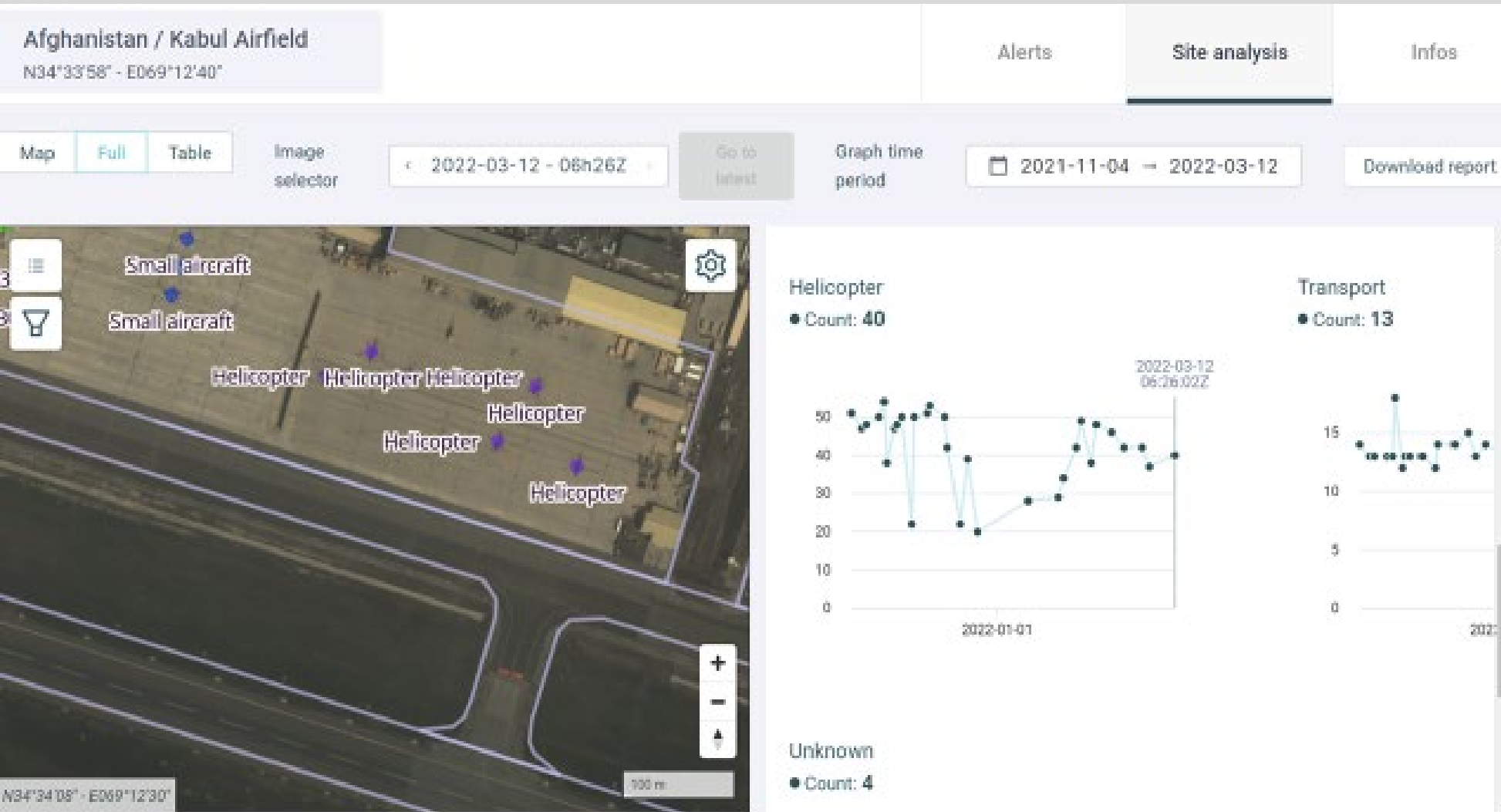
Bangladesh Reactive PNEO for Emergency situation

« Request and get Pléiades Neo data in a record time thanks to the near real-time SpaceDataHighway service »

Context:
After days of non stopping rain, the rivers levels have dramatically risen and floods caused a lot of disasters. Thousands of people are leaving their village to find shelter. Unfortunately, people have lost life. There is an emergency to assess the situation and to plan rescue operations. That is why accessing precise and near-real time information is key

Reactive
Download





Automatic Monitoring

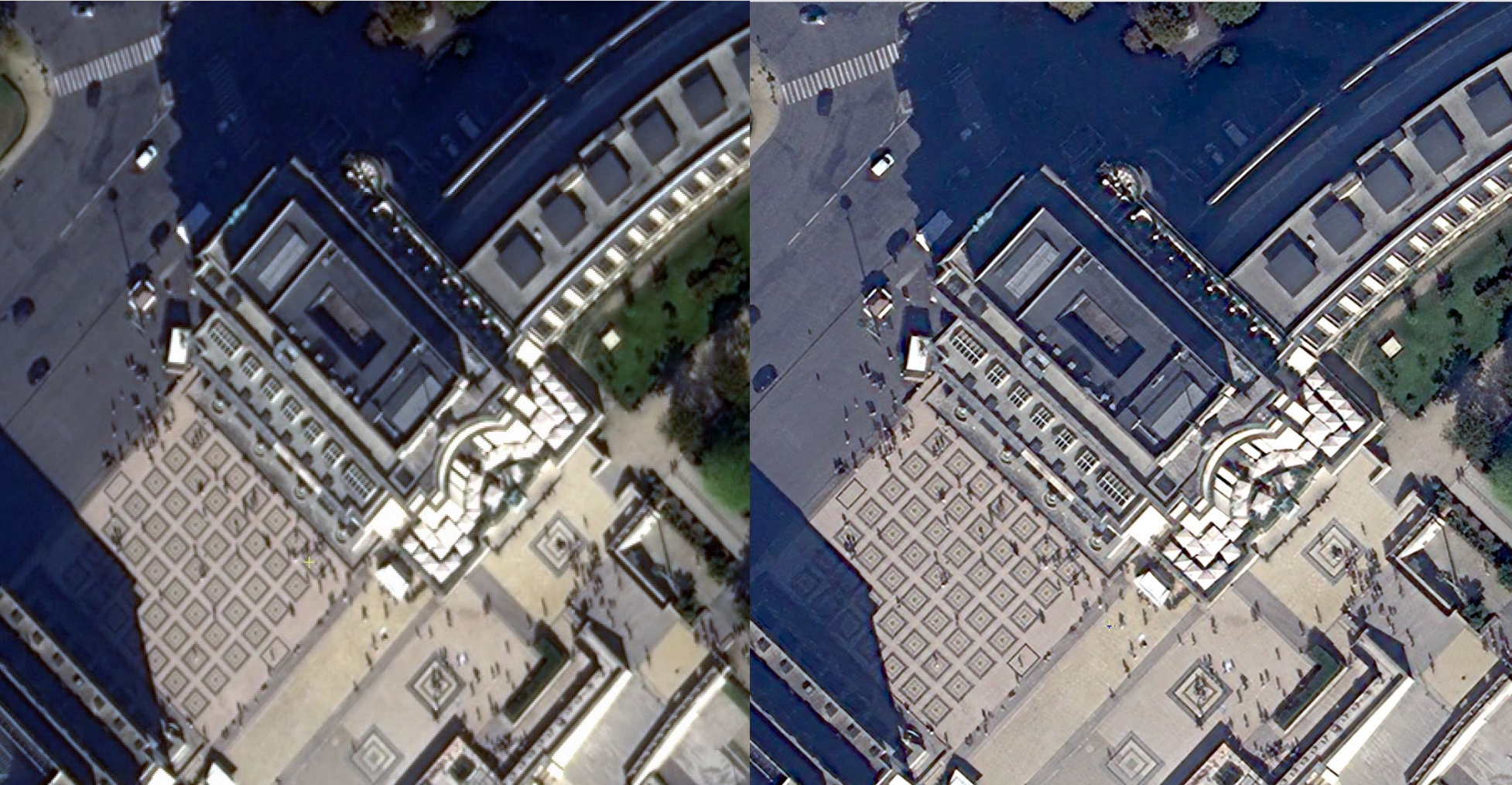
Preligens + Airbus

- AI of Preligens + Images of Airbus
- Automatic monitoring of Air force bases
- Provides alert and time vision
- >95% precision

Paris (Trocadéro)

Pléiades Neo 30cm (Zoom 2)

Pléiades NEO HD-15cm (Zoom 1)



Enhanced Resolution

Airbus AI for PNEO

- Easier for standard people
- Perfect for AI algorithm
- Better quality but no new information



Thank You

DEFENCE AND SPACE

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AIRBUS