

Pléiades Neo

Croatia, Galesnjak
Feb. 9th 2022
Pléiades Neo

Pléiades Neo & OneAtlas

a Shift In Paradigm for Remote Sensing

AIRBUS

Pléiades Neo

Bora Bora
May 26th 2021
Pléiades Neo

What we'll talk about

Who We Are

What We Use

Introducing Pléiades Neo

Capabilities

Some Use Cases

HD15

How to Access

and of Course, Nice Images

AIRBUS

Pléiades Neo

Riga
May 26th 2023
Pléiades Neo

AIRBUS



Airbus Intelligence

Delivers Rapid Insight from Truly Actionable Data



DATA

**To fuel the
value-creation chain**

Easy access
to multi-sourced premium data



SYSTEMS & SERVICES

**The engine to transform data
into action**

Industry-specific insight for more
accurate and efficient decisions



DIGITAL OFFERS

**A new planetary
perspective**

Online plug-and-play platforms for
fresh data and insight

An Unrivalled Access to Space Imagery

OPTICAL CONSTELLATION

Pléiades Neo

Pléiades

SPOT

DMC Constellation

Vision-1

RADAR CONSTELLATION

TerraSAR-X

TanDEM-X

PAZ

NovaSAR

SIGNAL INTELLIGENCE

HawkEye

(Partners)

HawkEye³⁶⁰

Radio Frequency

AIRBUS

Pléiades Neo

Singapore
May 26th 2021
Pléiades Neo

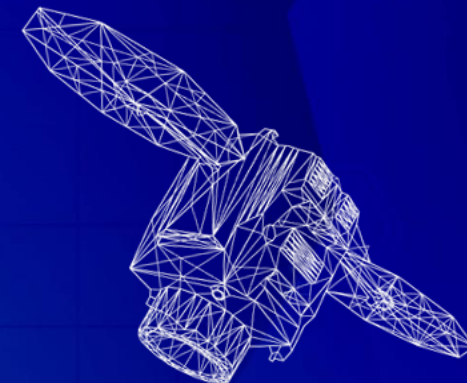
Introducing Pléiades Neo

AIRBUS

Introducing Pléiades Neo



Designed for a
10-YEAR
NOMINAL LIFETIME



2 IDENTICAL
SENSORS

14 KM
SWATH



6 Delivering
band imagery



with 3.5m 
geolocation accuracy

Intra-day **Revist** 

At 30cm
Native resolution



CAPACITY PER DAY

1Msq.km



Pléiades Neo

Singapore
May 26th 2021
Pléiades Neo

Capabilities

AIRBUS





New Spectral Bands

Pléiades Neo delivers 6 multispectral channels

Panchromatic: 450-800nm

Multispectral channels:

Deep blue

Blue

Green

Red

Red-Edge

Near infrared

Red-Edge & Deep Blue



High Revisit Capacity

Intraday revisit

Regularity of revisit: same time, everyday

Cover the entire globe, even at extreme latitudes

Organized in 180 deg. Separation

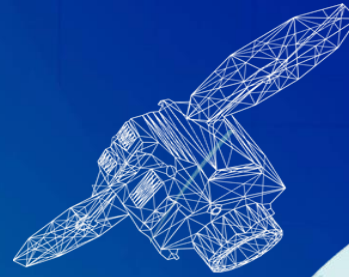
10:30 LTDN

for a intraday revisit anywhere

15 plans / satellite / day

Customer request up to 15 min before plan upload

TASKING PLAN
UPDATED EVERY
MINUTES **25'**



AIRBUS

???



0

50 m

Pléiades Neo

Athens
Aug. 23rd 2021
Pléiades Neo

Use Cases

AIRBUS

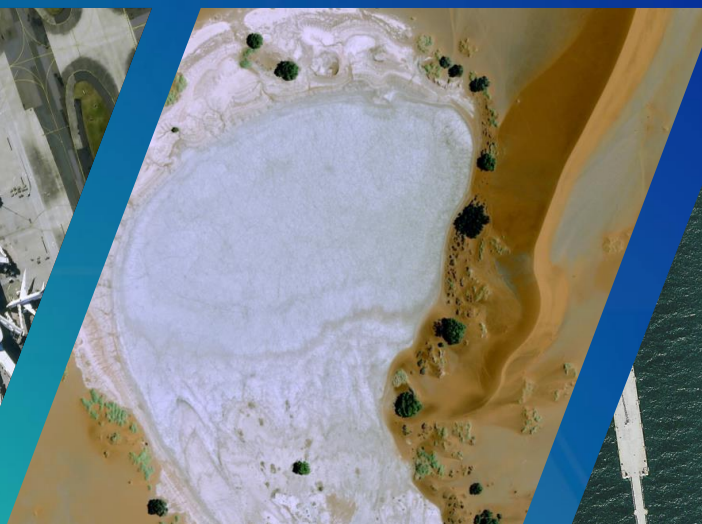
USE CASES



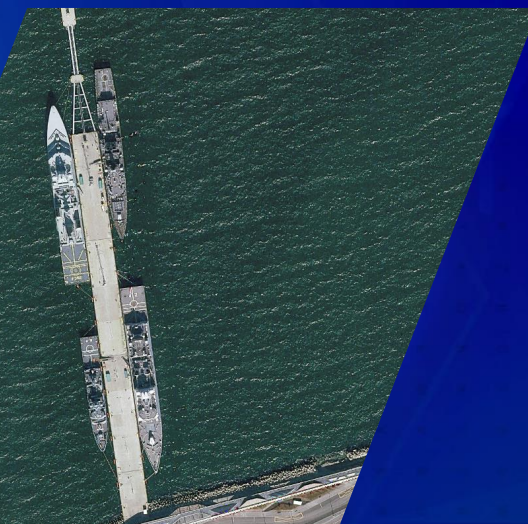
Infrastructures



Agriculture



Maritime



USE CASES

Infrastructures

Agriculture

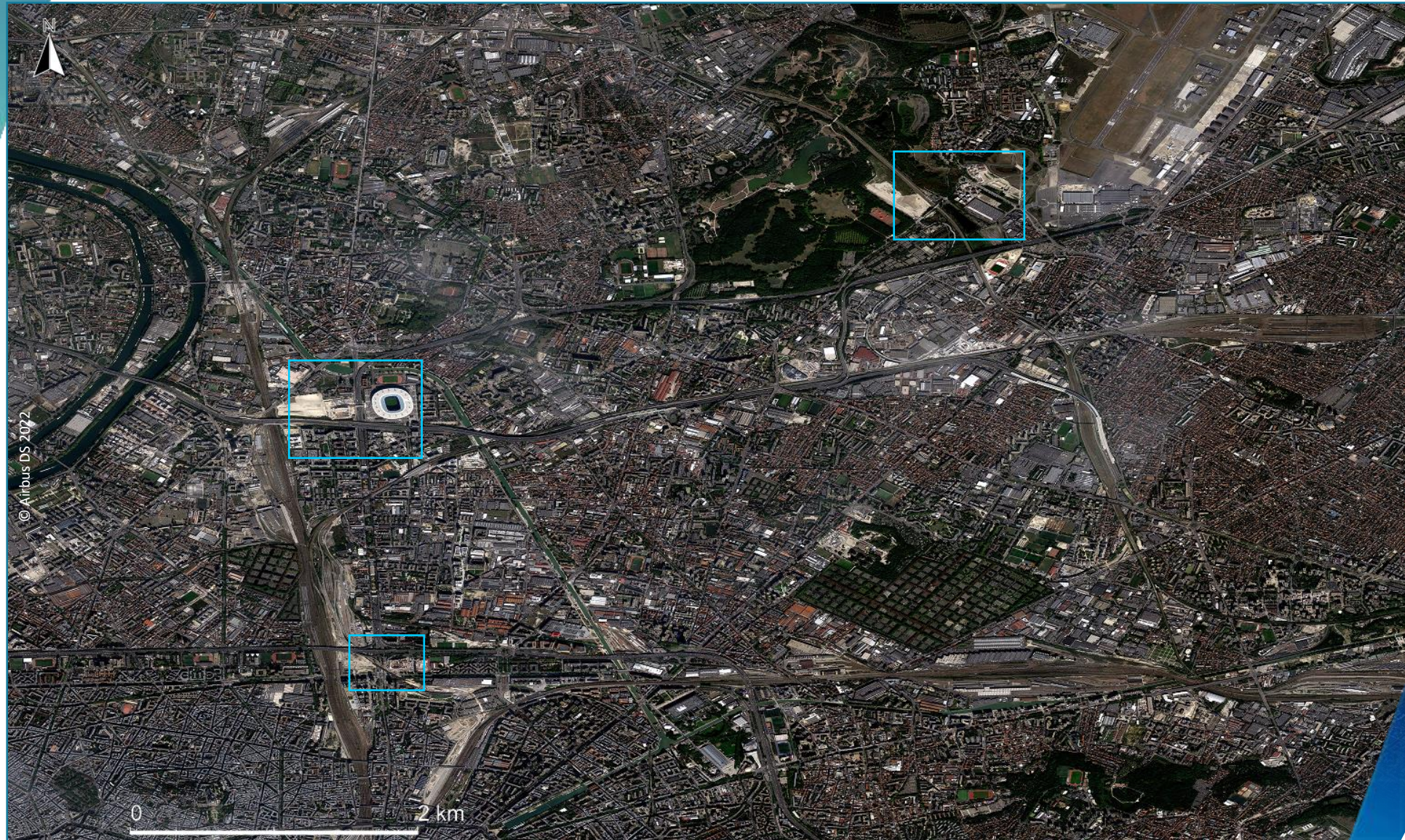
Maritime



JO 2024 – Paris – Olympic and Paralympic games

Sept 22, 2022 11:01:19 GMT

RP : 48°55'27"N / 002°21'36"E



© Airbus DS 2022

0

2 km



PARIS 2024



AIRBUS

JO 2024 – Paris _ Aquatic center

Sept 22, 2022 11:01:19 GMT

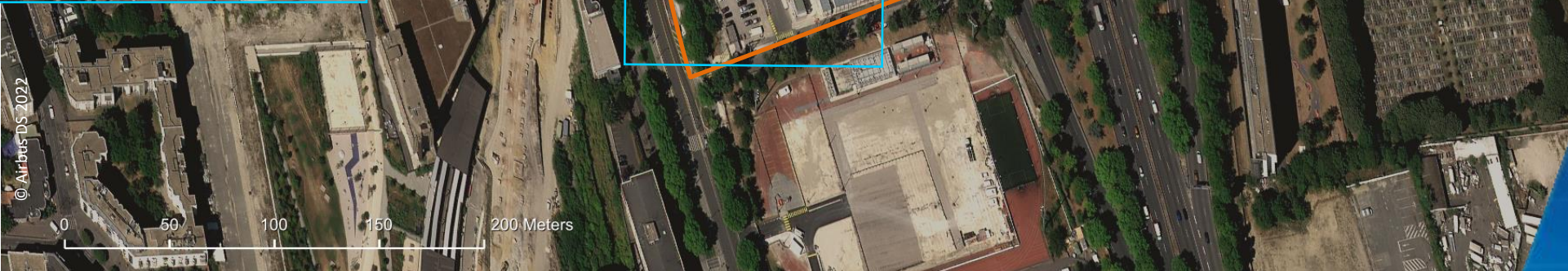
RP : 48°55'20"N / 002°21'25"E



JO 2024 _ Arena Porte de la Chapelle

Aug 3, 2022 10:50:26 GMT

RP : 48°53'58"N / 002°21'33"E



JO 2024 _ Arena Porte de la Chapelle

Sept 22, 2022 11:01:19 GMT

RP : 48°53'54"N / 002°21'37"E



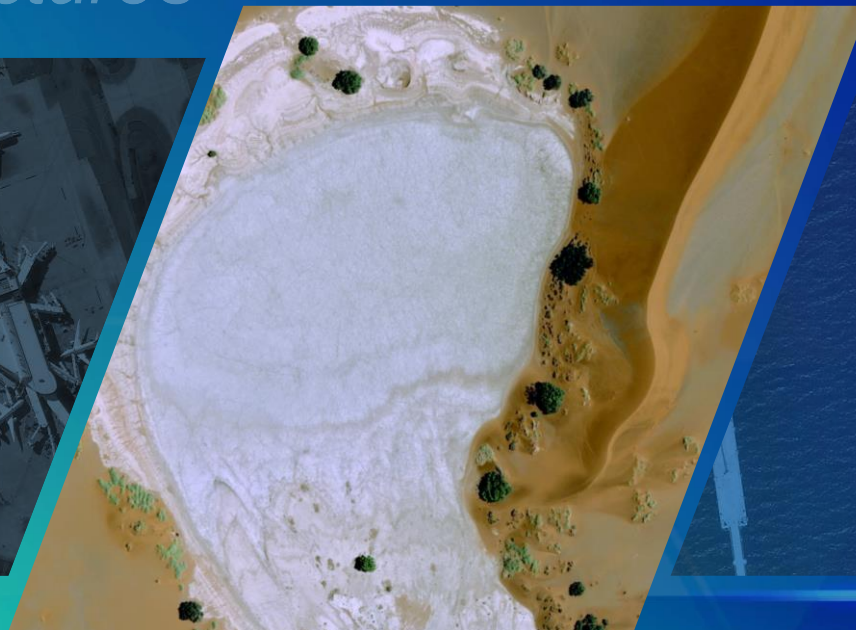
USE CASES



Infrastructures



Agriculture



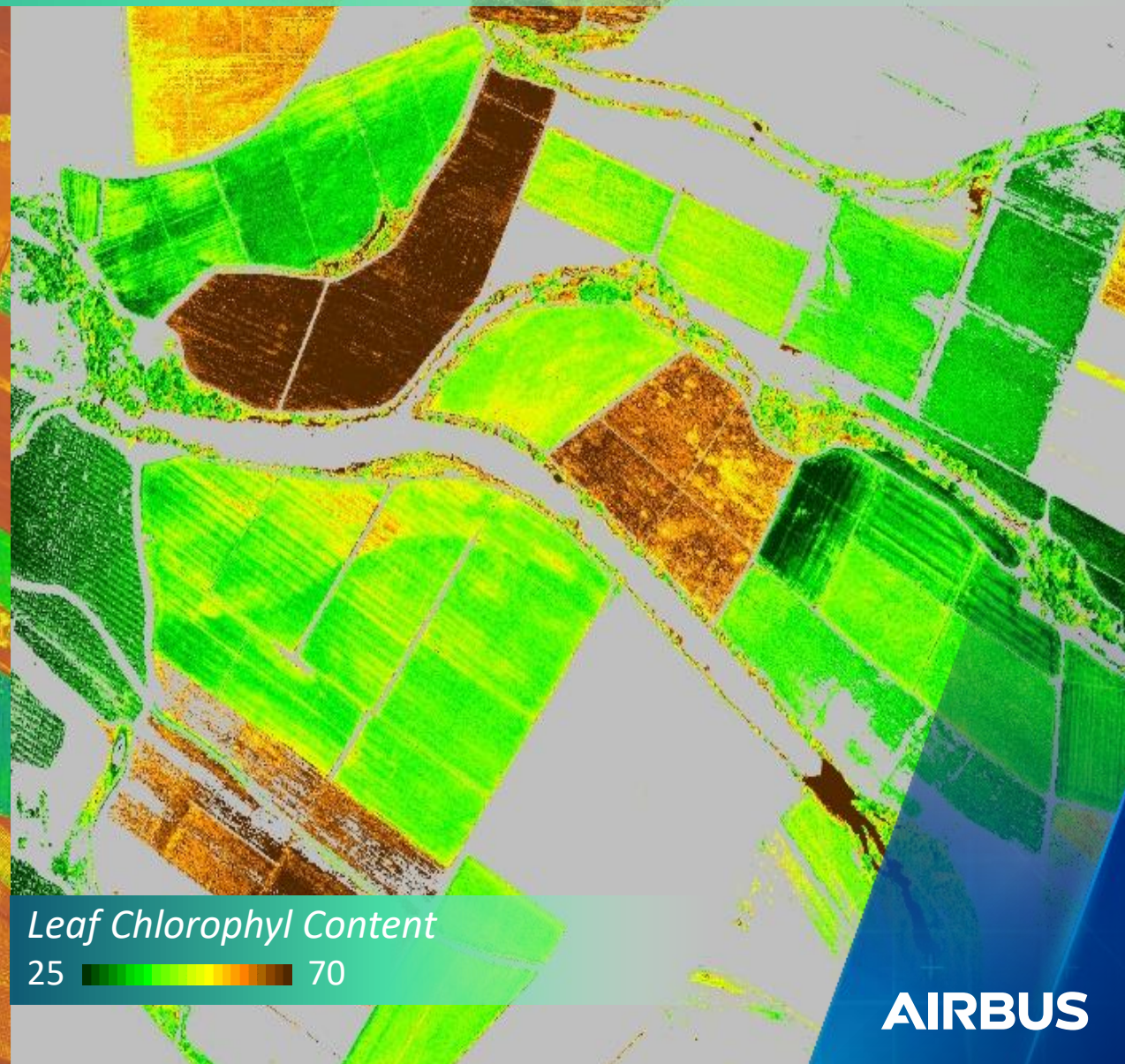
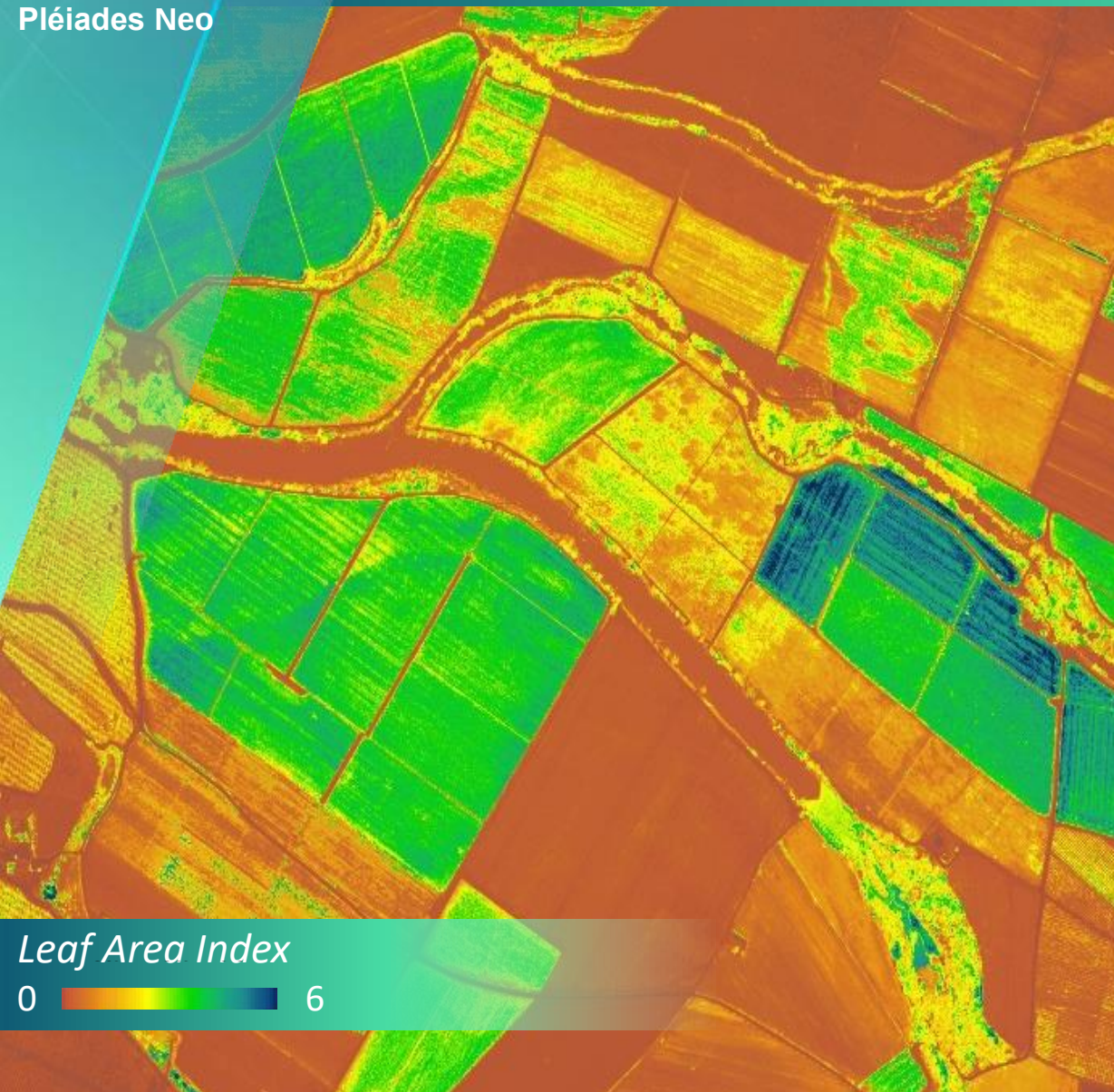
Maritime



Pléiades Neo

Merida
Mexico
Pléiades Neo

Red Edge for Precision Agriculture



AIRBUS

Comparison of Pléiades Neo with Sentinel-2 data

images acquired on the same day (24/08/2021) in Merida province, Spain



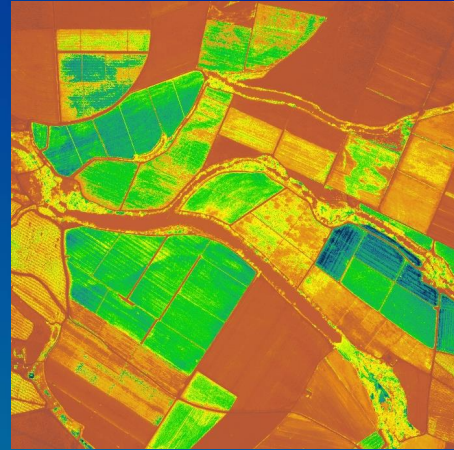
Pléiades Neo image



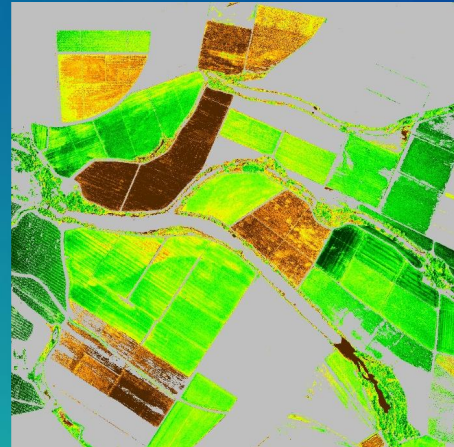
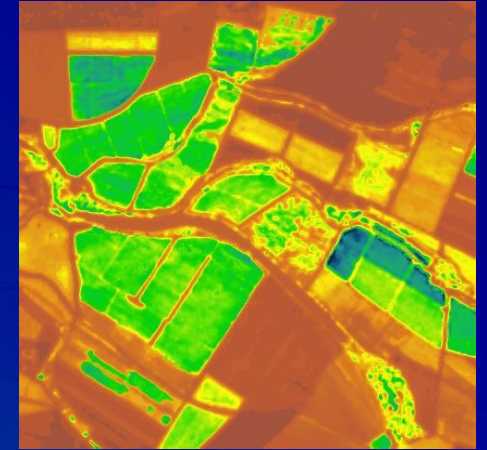
*Sentinel-2B image
(extract over same area)*

Comparison of Pléiades Neo with Sentinel-2 data

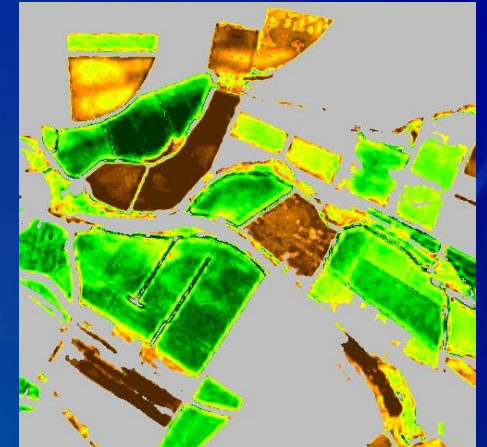
extract of vegetation maps over sample area



Leaf Area Index
0 6

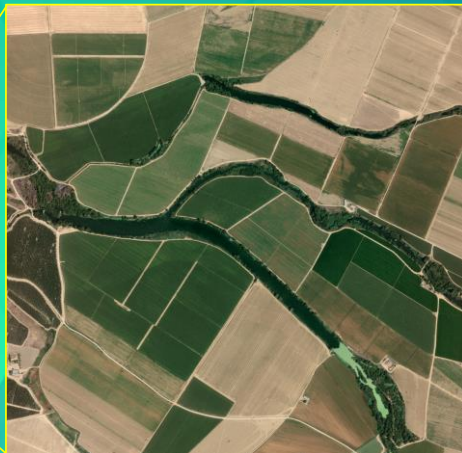


Leaf Chlorophyll Content
25 70

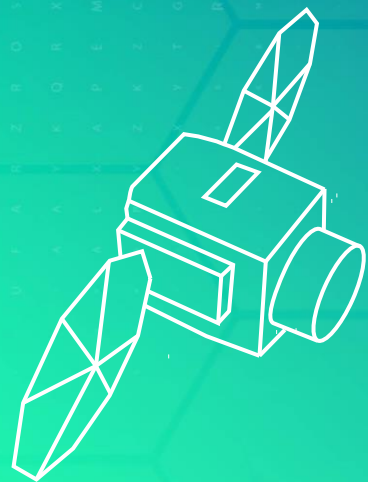


Pléiades Neo

Sentinel-2



USE CASES



Infrastructures



Agriculture



Maritime



Water - Deep blue

for new Use Cases

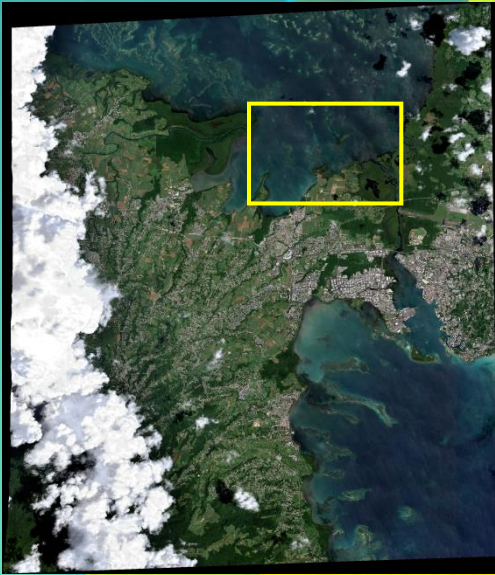
- Estimate water depth (bathymetry), water quality and turbidity
- Coastal mapping up to 35m deep
- Better characterization of atmospheric factors and improve atmospheric correction



Pléiades Neo

Pléiades Neo in Guadeloupe

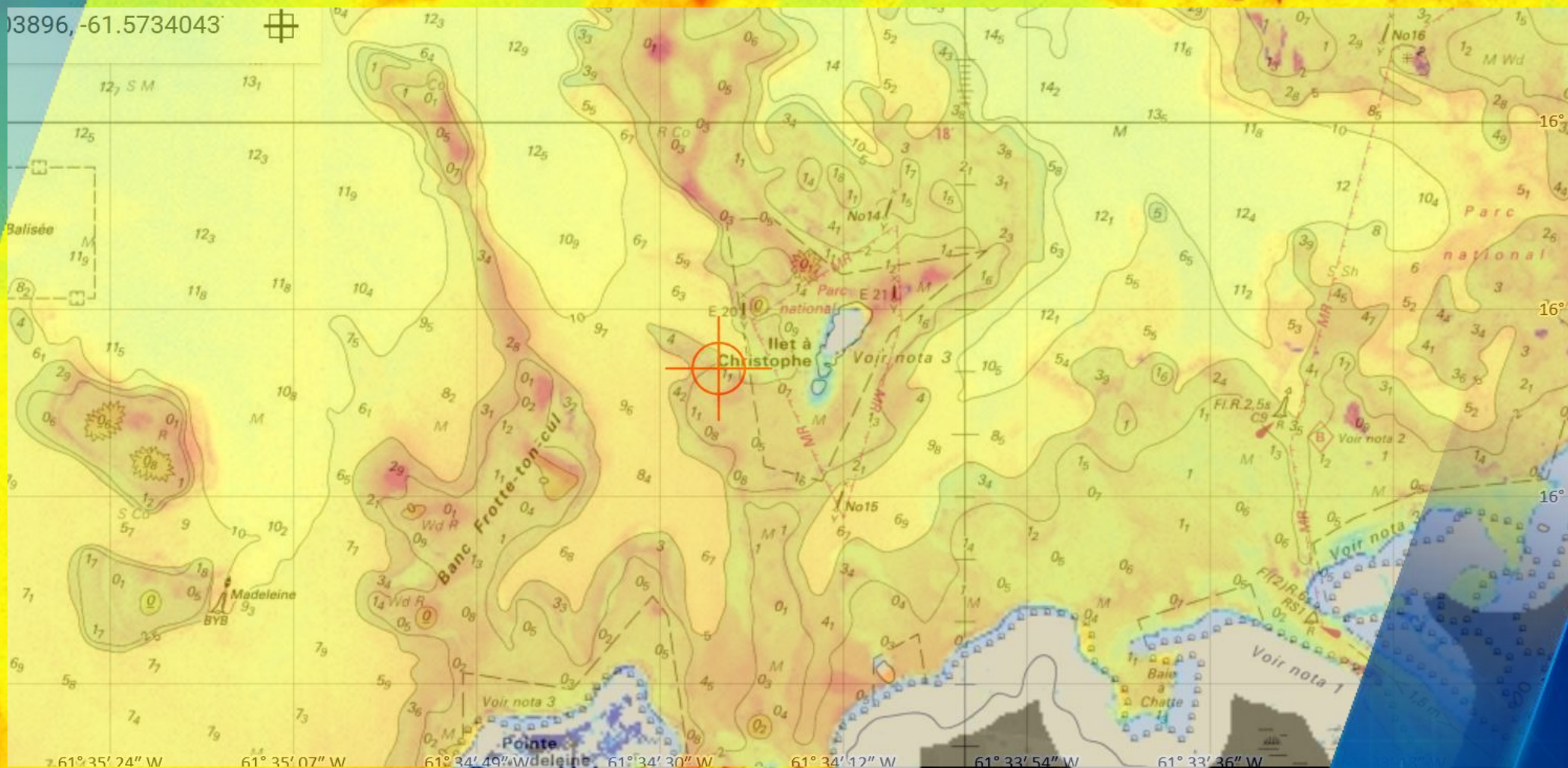
October 2021



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Pléiades Neo in Guadeloupe

Comparison with
nautical chart

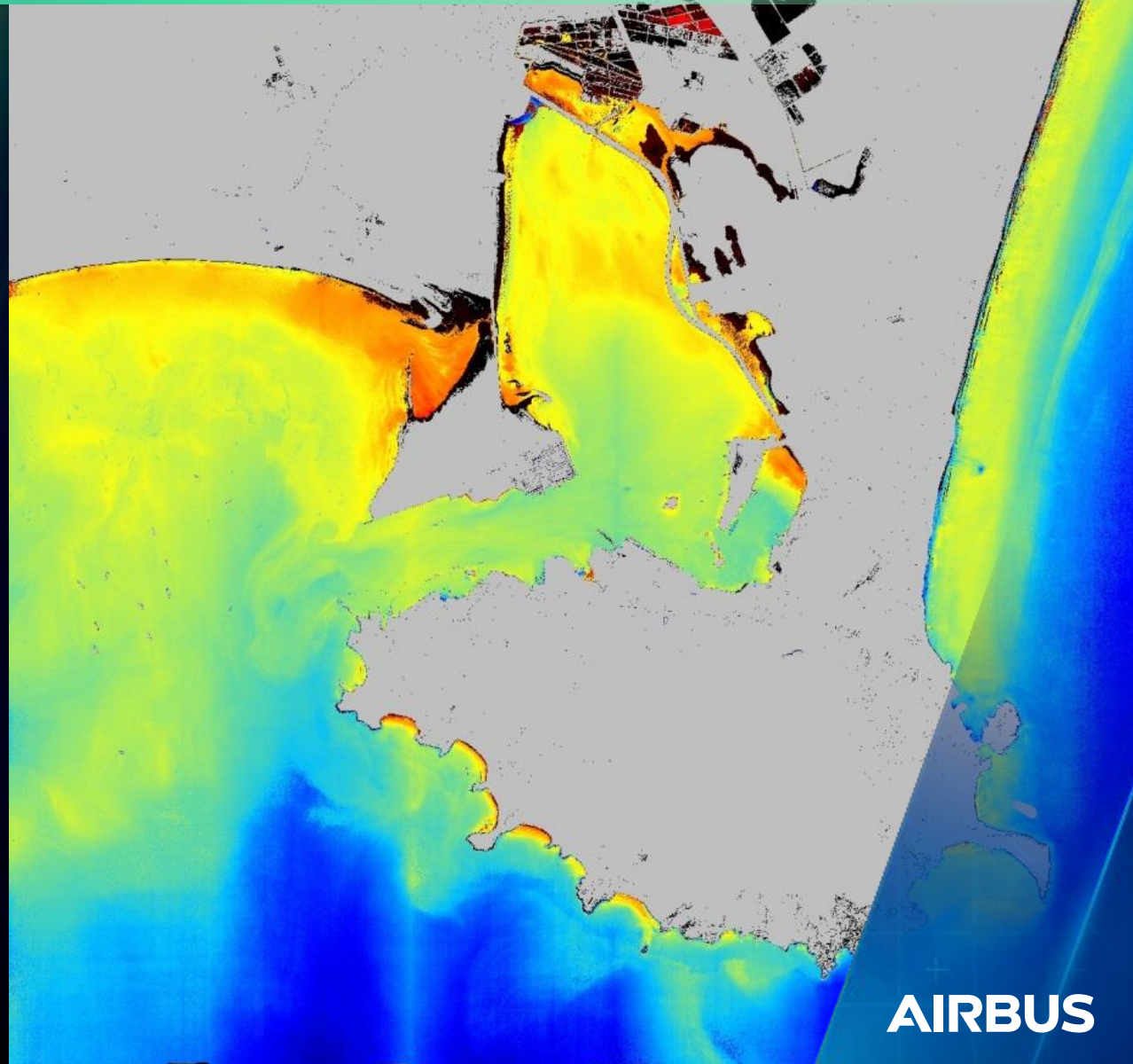
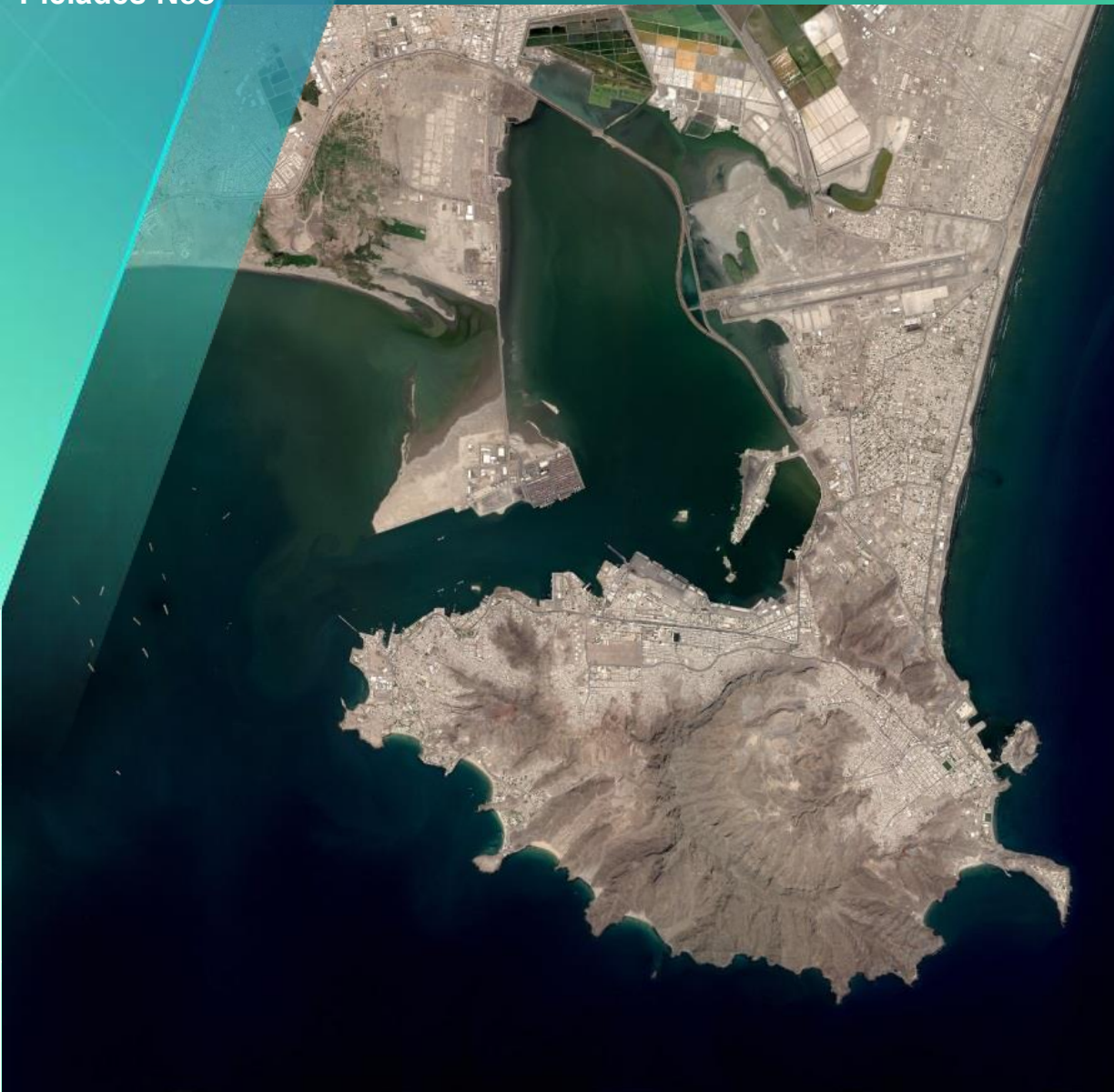


Pléiades Neo

Aden
Sept. 2021
Pléiades Neo

Deep Blue for Bathymetry applications

0 50
water depth (in m)



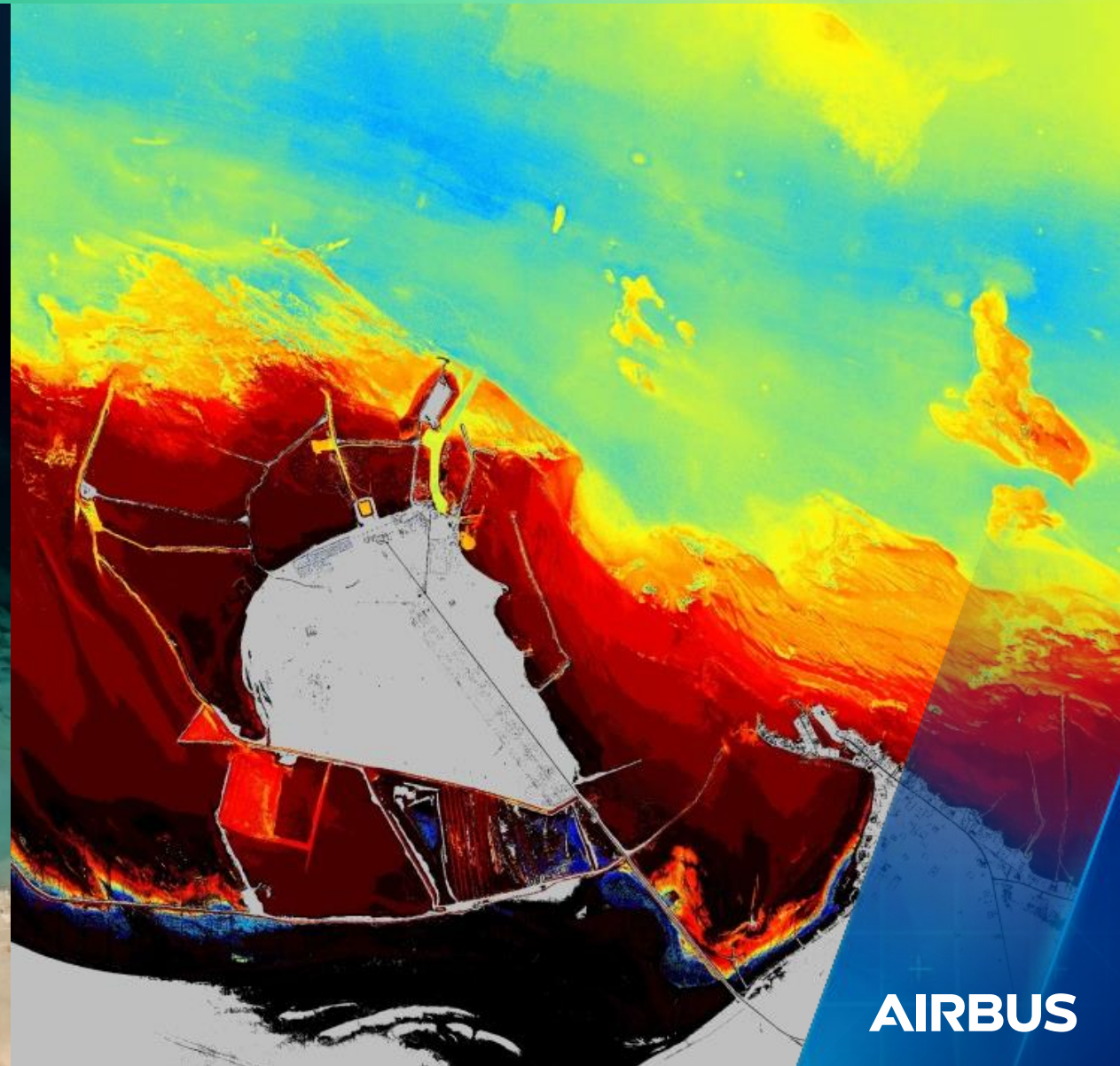
AIRBUS

Pléiades Neo

Persian Gulf
Feb. 2021
Pléiades Neo

Deep Blue for Bathymetry applications

0 50
water depth (in m)



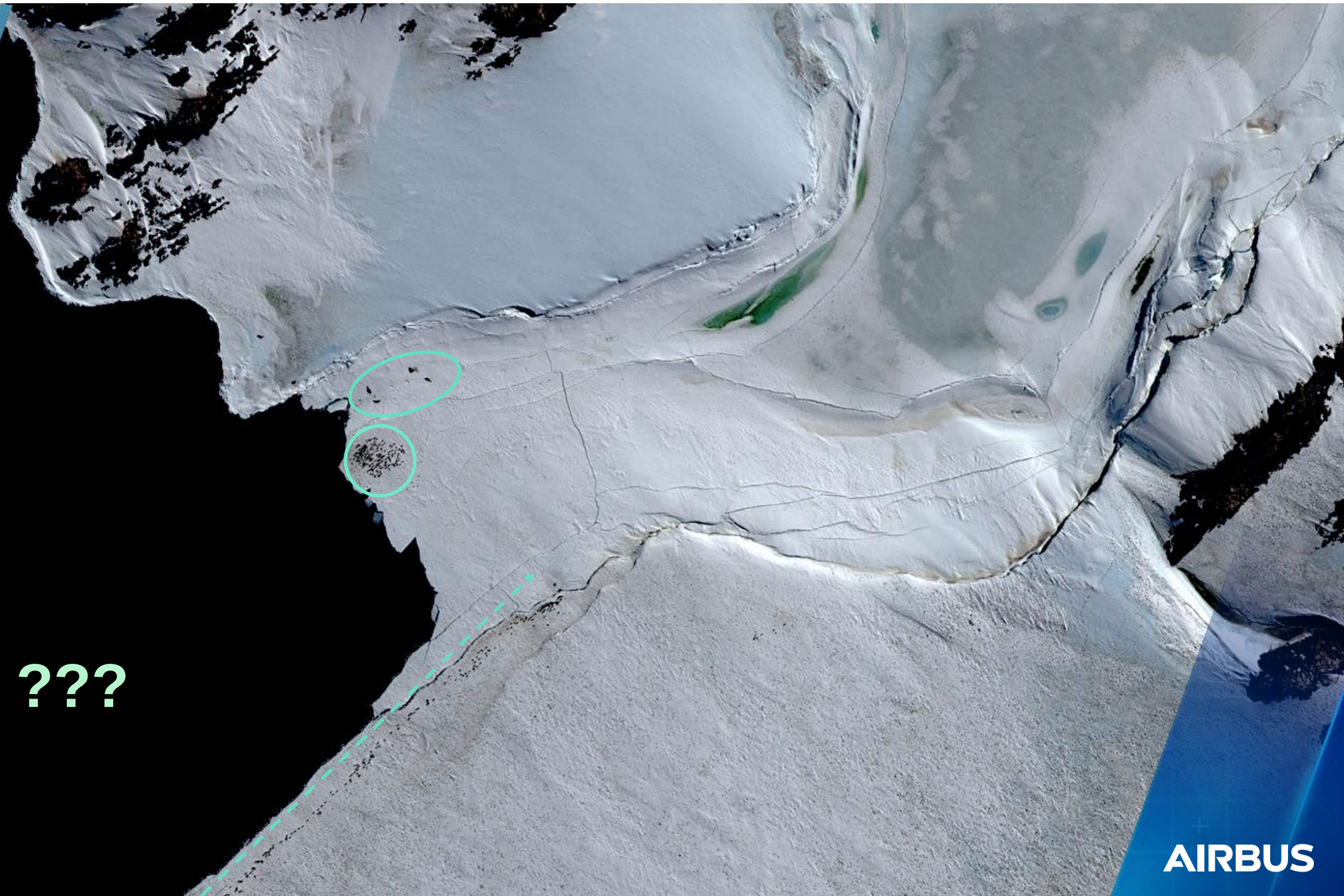
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Pléiades Neo

Antarctica
Pléiades Neo

???

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Pléiades Neo

Riga
May 26th 2023
Pléiades Neo

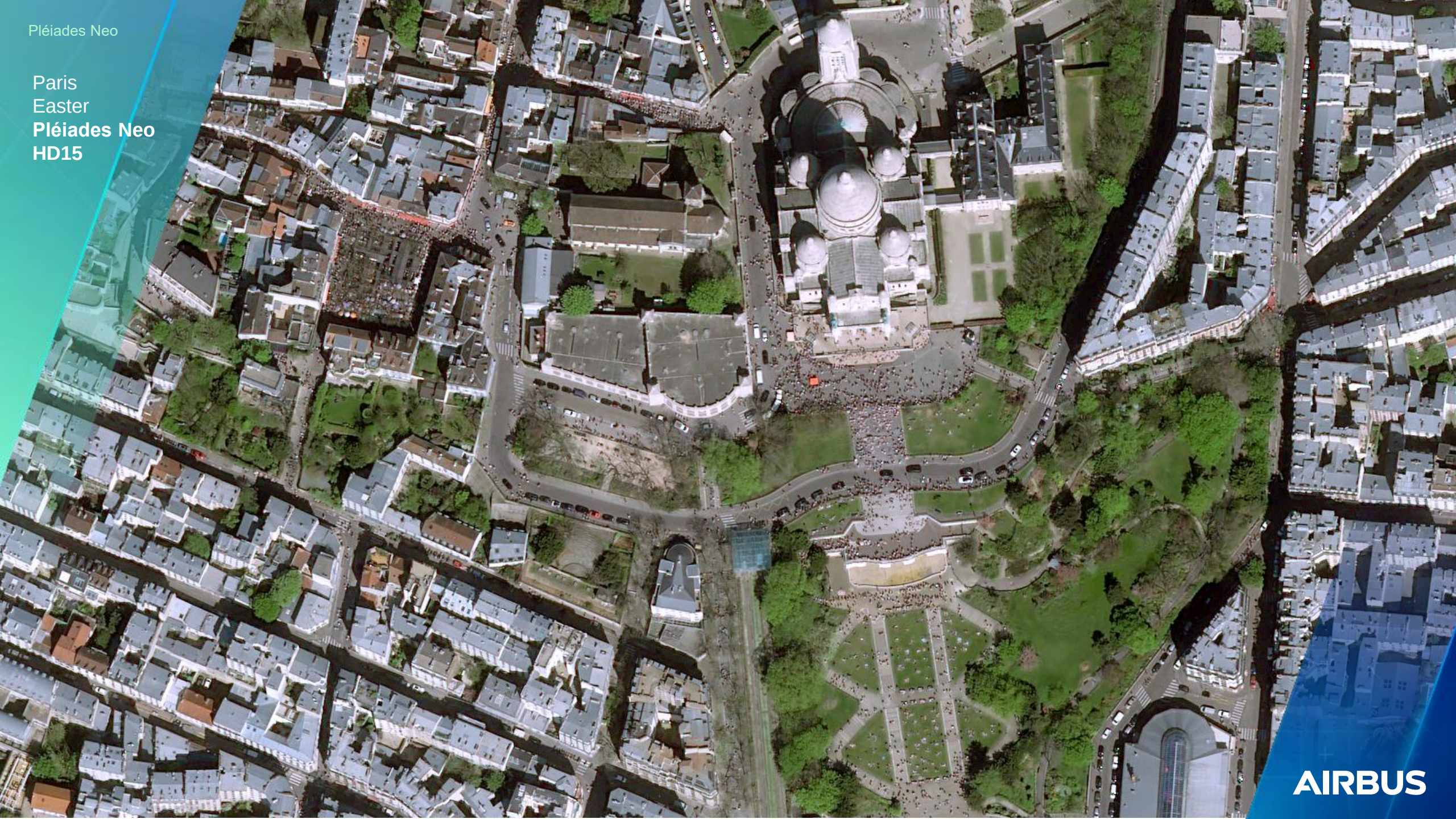
HD15

AIRBUS



Pléiades Neo

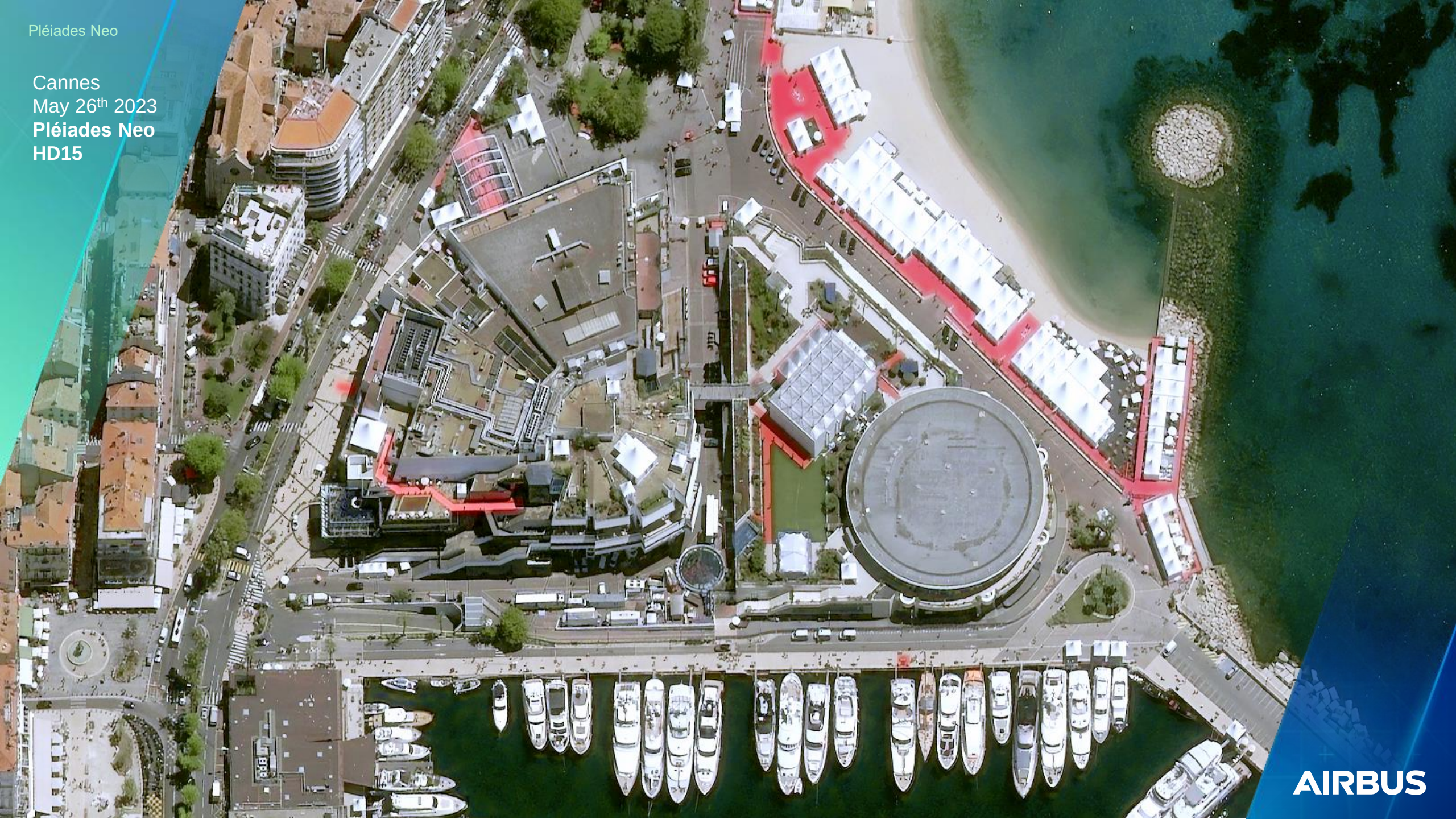
Paris
Easter
Pléiades Neo
HD15



AIRBUS

Pléiades Neo

Cannes
May 26th 2023
Pléiades Neo
HD15



AIRBUS



74.731 m



Pléiades Neo

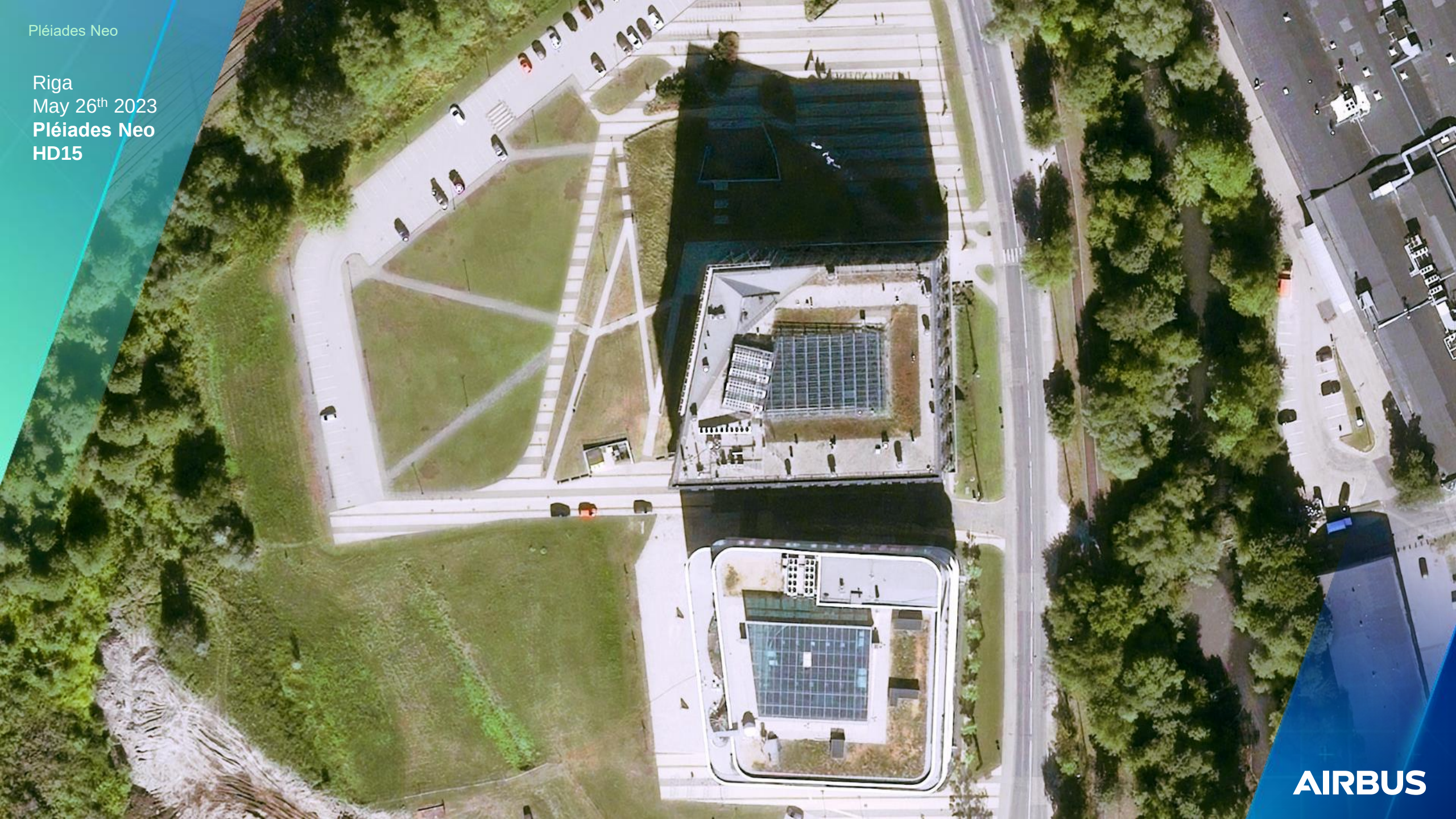
Riga
May 26th 2023
Pléiades Neo



AIRBUS

Pléiades Neo

Riga
May 26th 2023
Pléiades Neo
HD15



AIRBUS

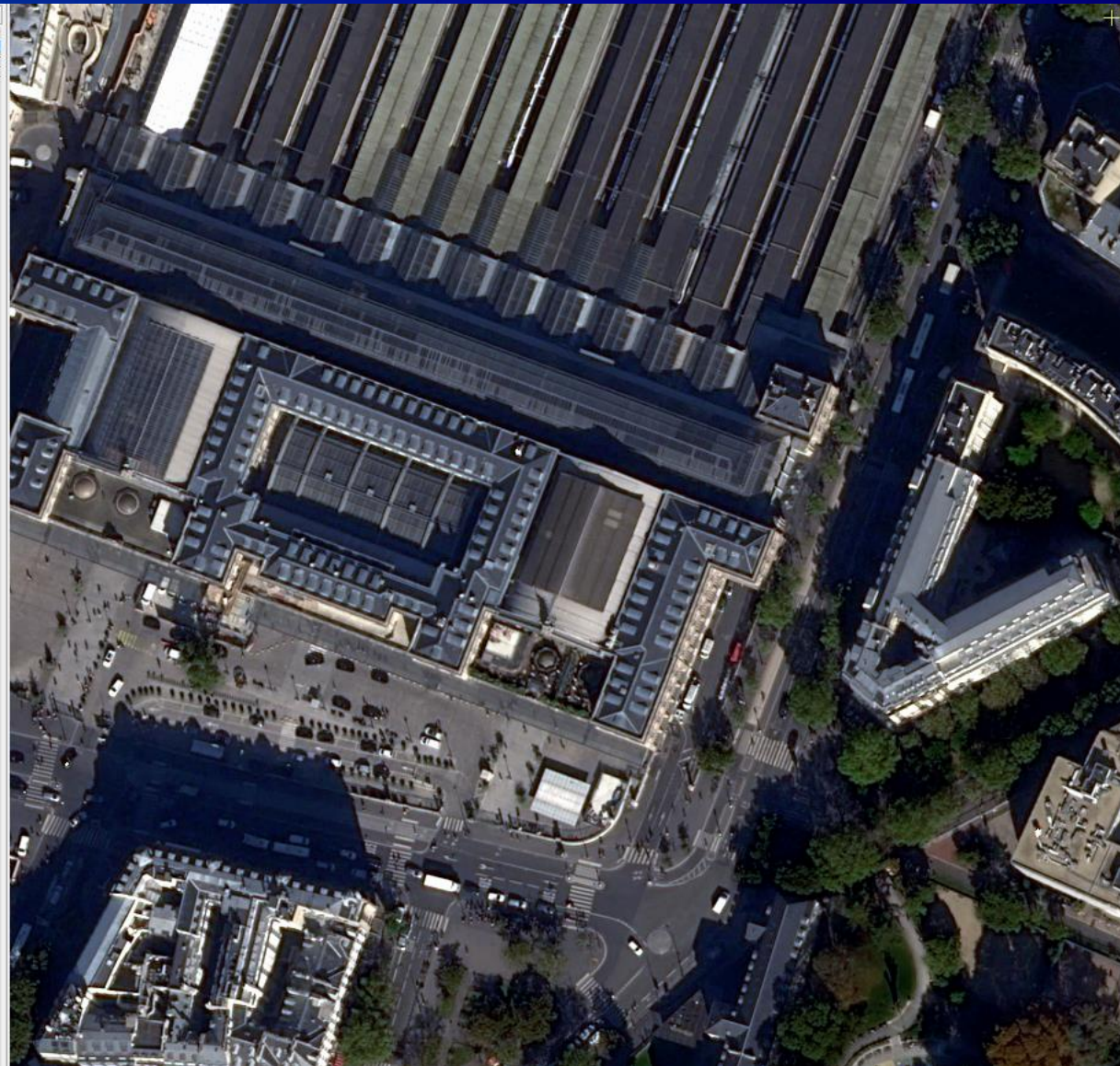
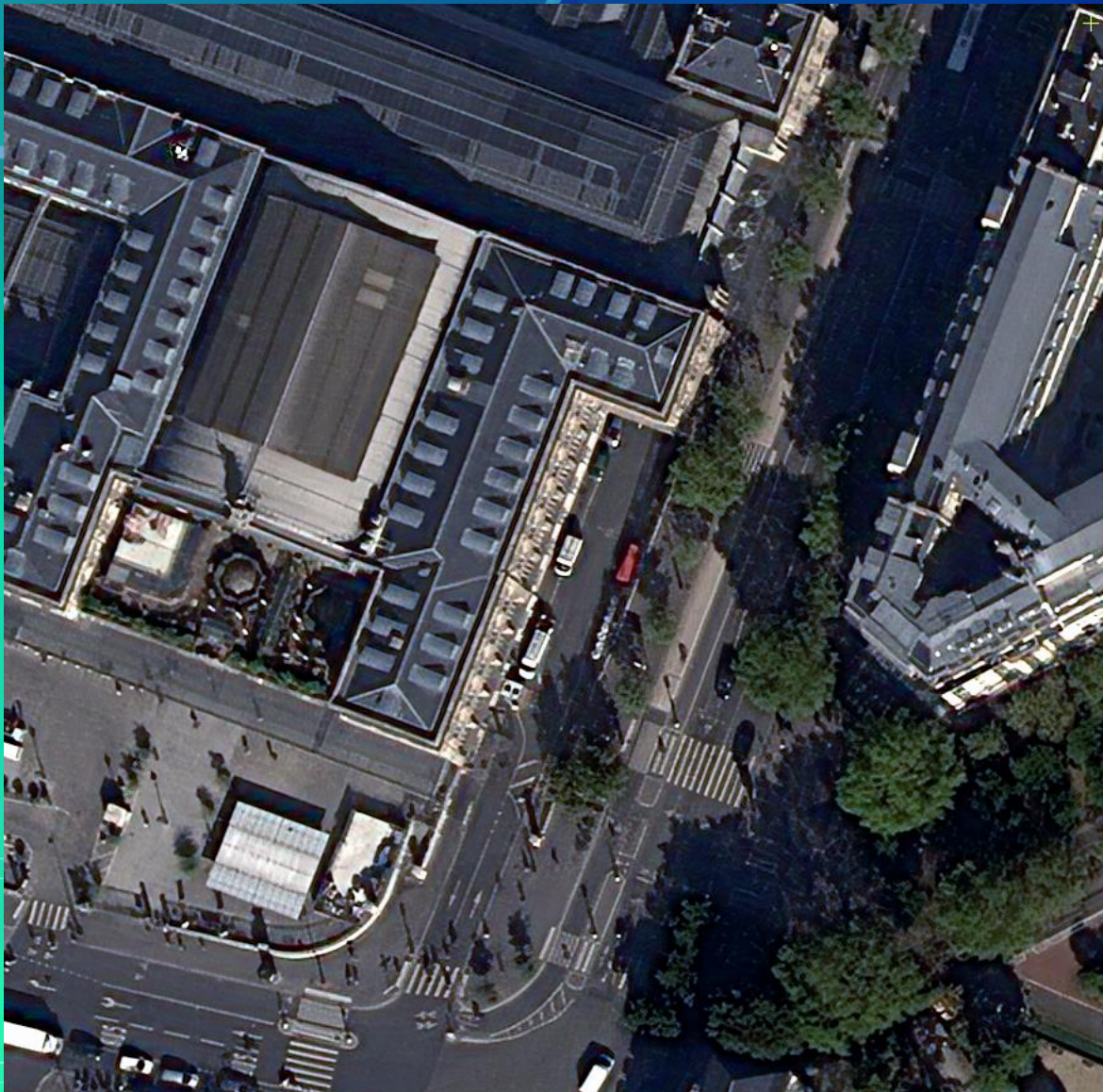
HD-15cm

(Zoom 1)

Paris
(gare de l'Est)

Pléiades Neo 30cm

(Zoom 1)



HD-15cm

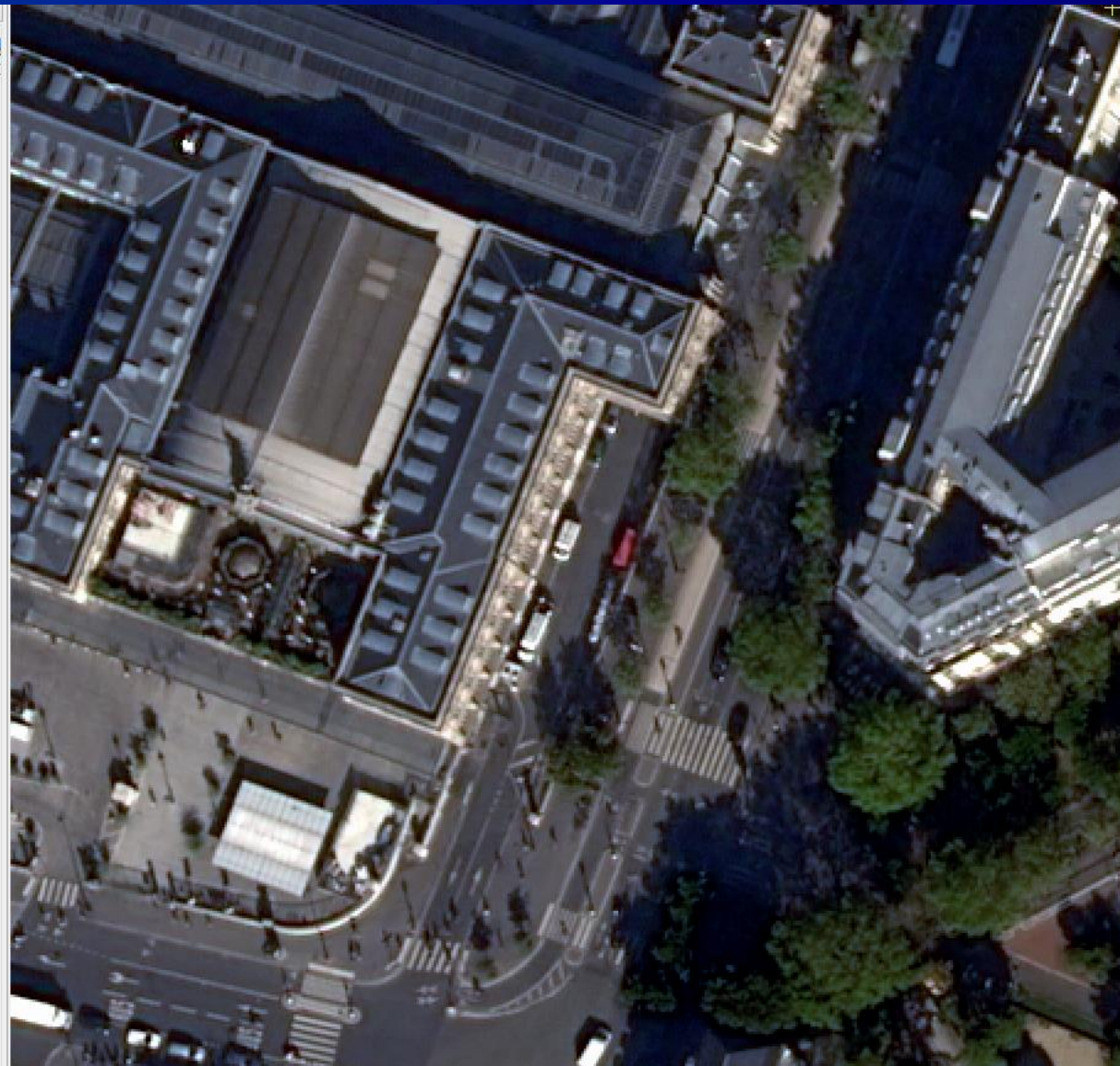
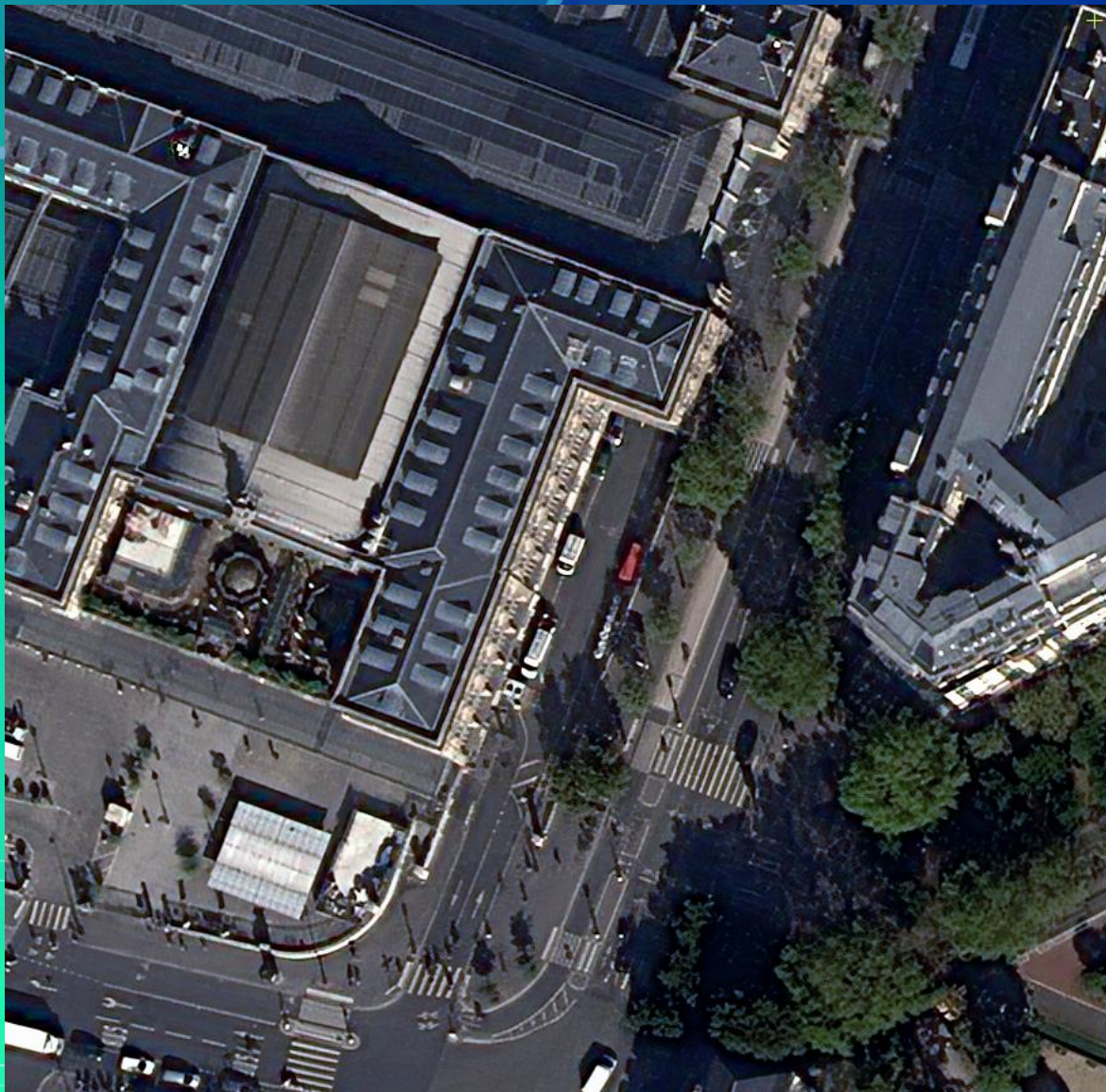
(Zoom 1)

Paris

(gare de l'Est)

Pléiades Neo 30cm

(Zoom 2)



HD-15cm

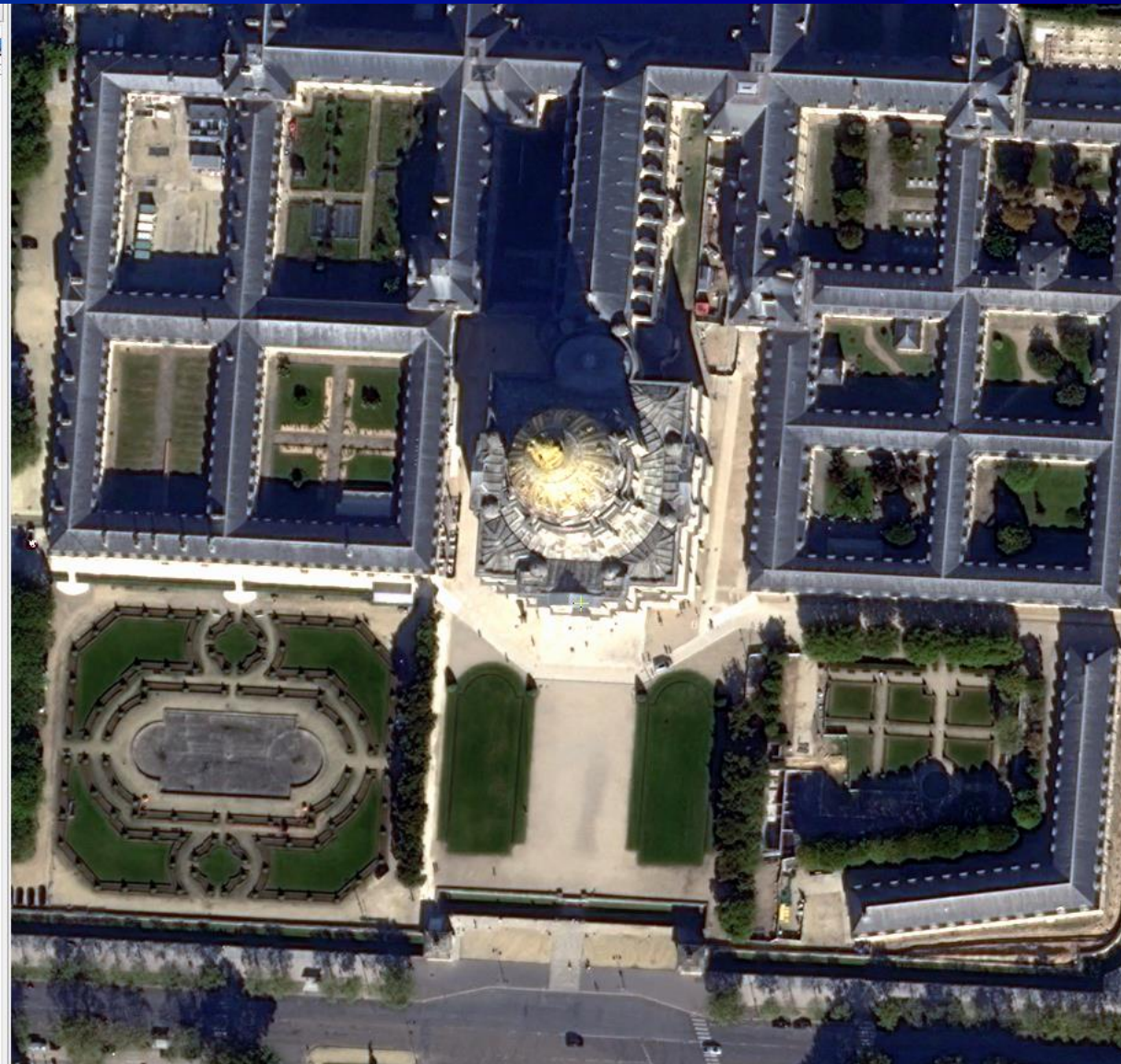
(Zoom 1)

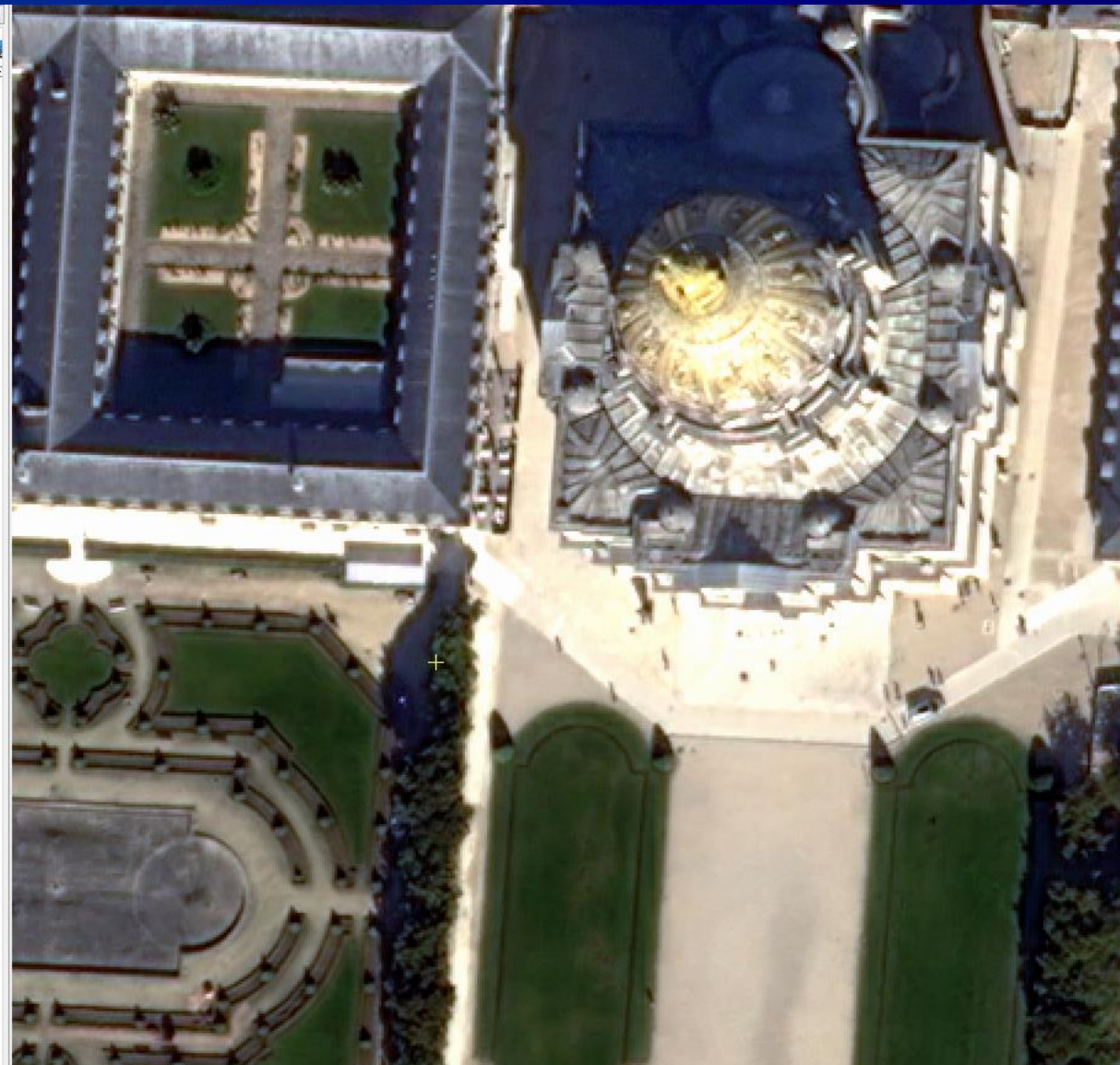
Paris

(gare de l'Est)

Pléiades Neo 30cm

(Zoom 1)





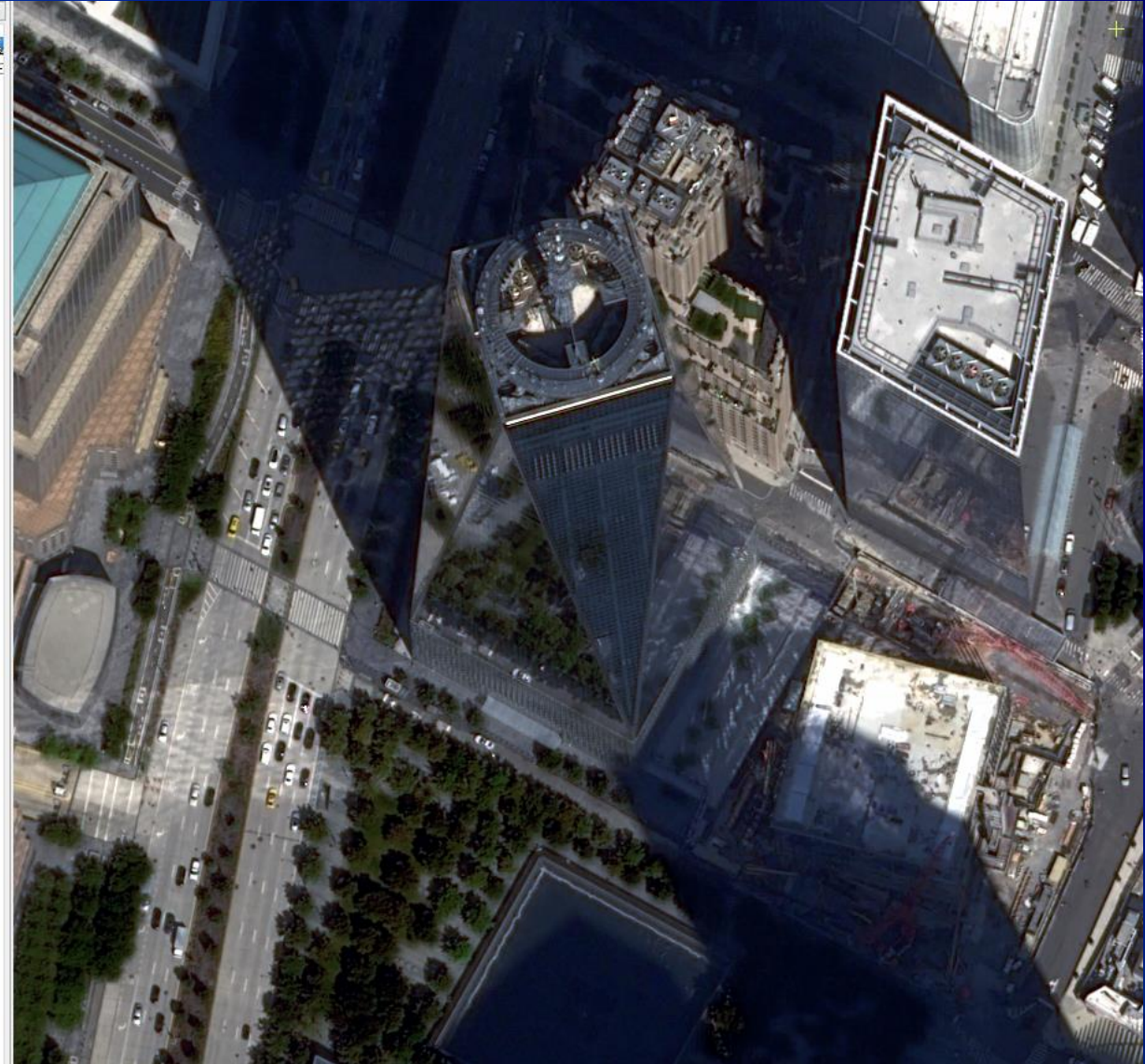
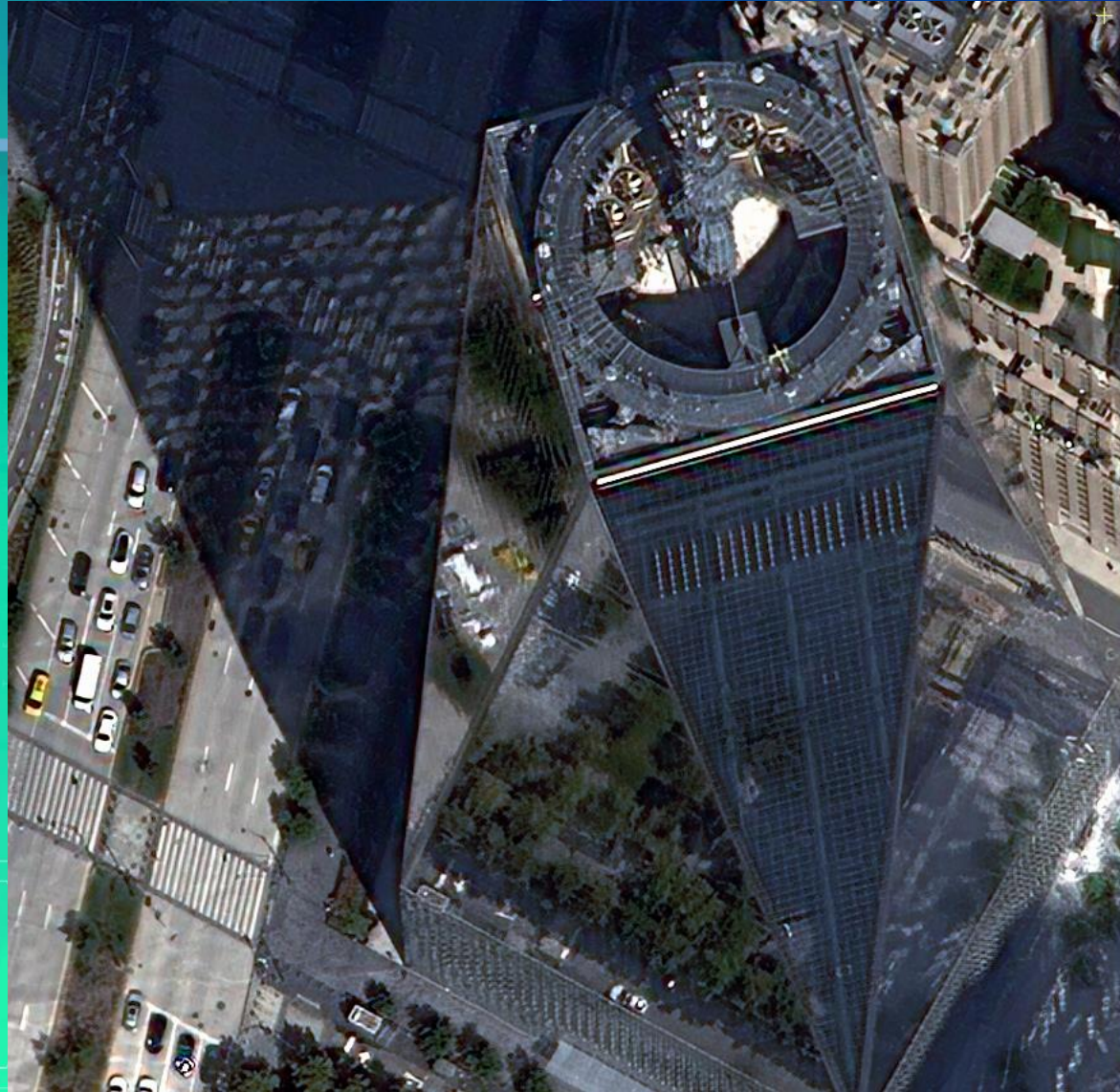
HD-15cm

(Zoom 1)

New York

Pléiades Neo 30cm

(Zoom 1)



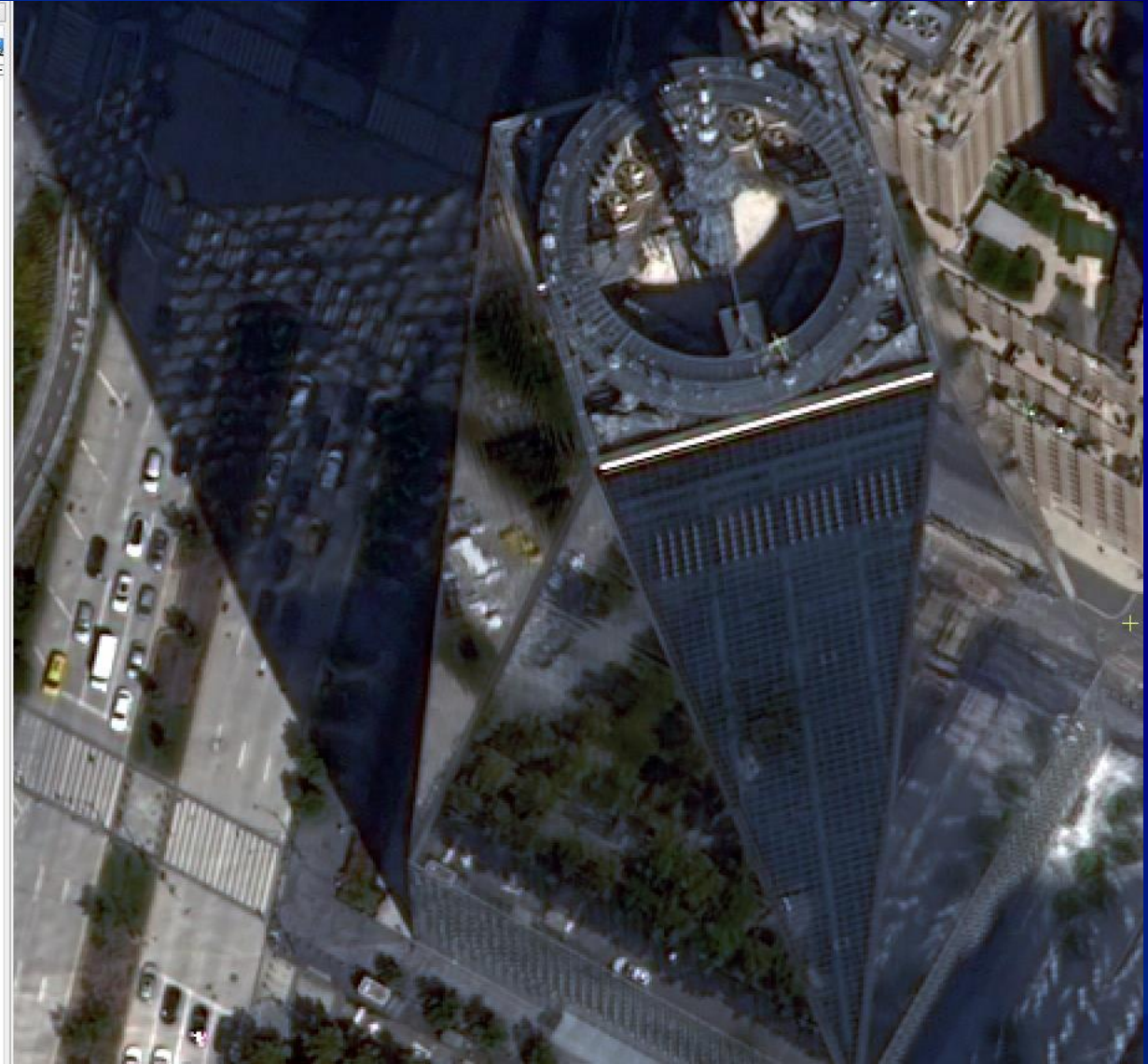
HD-15cm

(Zoom 1)

New York

Pléiades Neo 30cm

(Zoom 2)



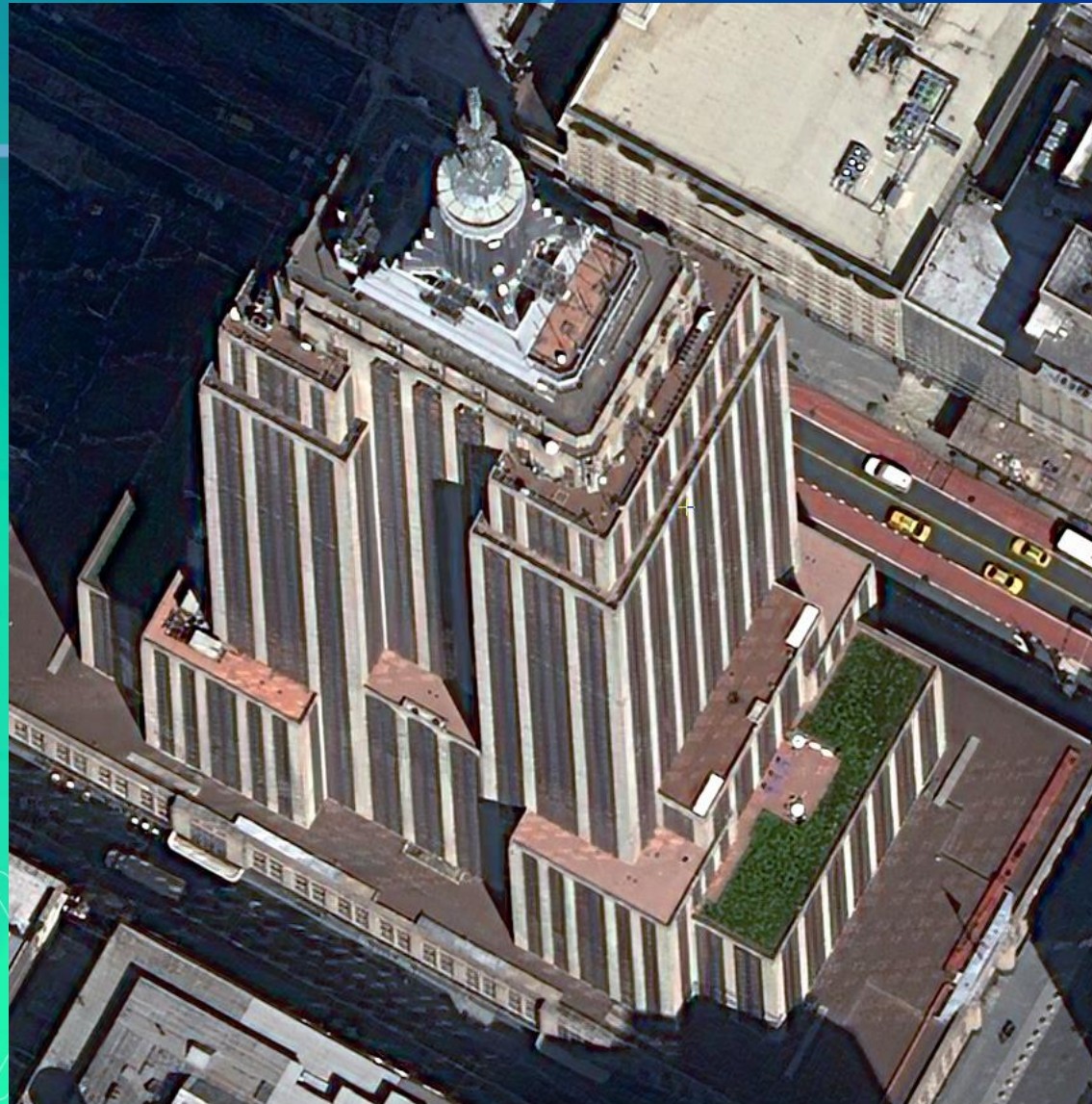
HD-15cm

(Zoom 1)

New York

Pléiades Neo 30cm

(Zoom 1)



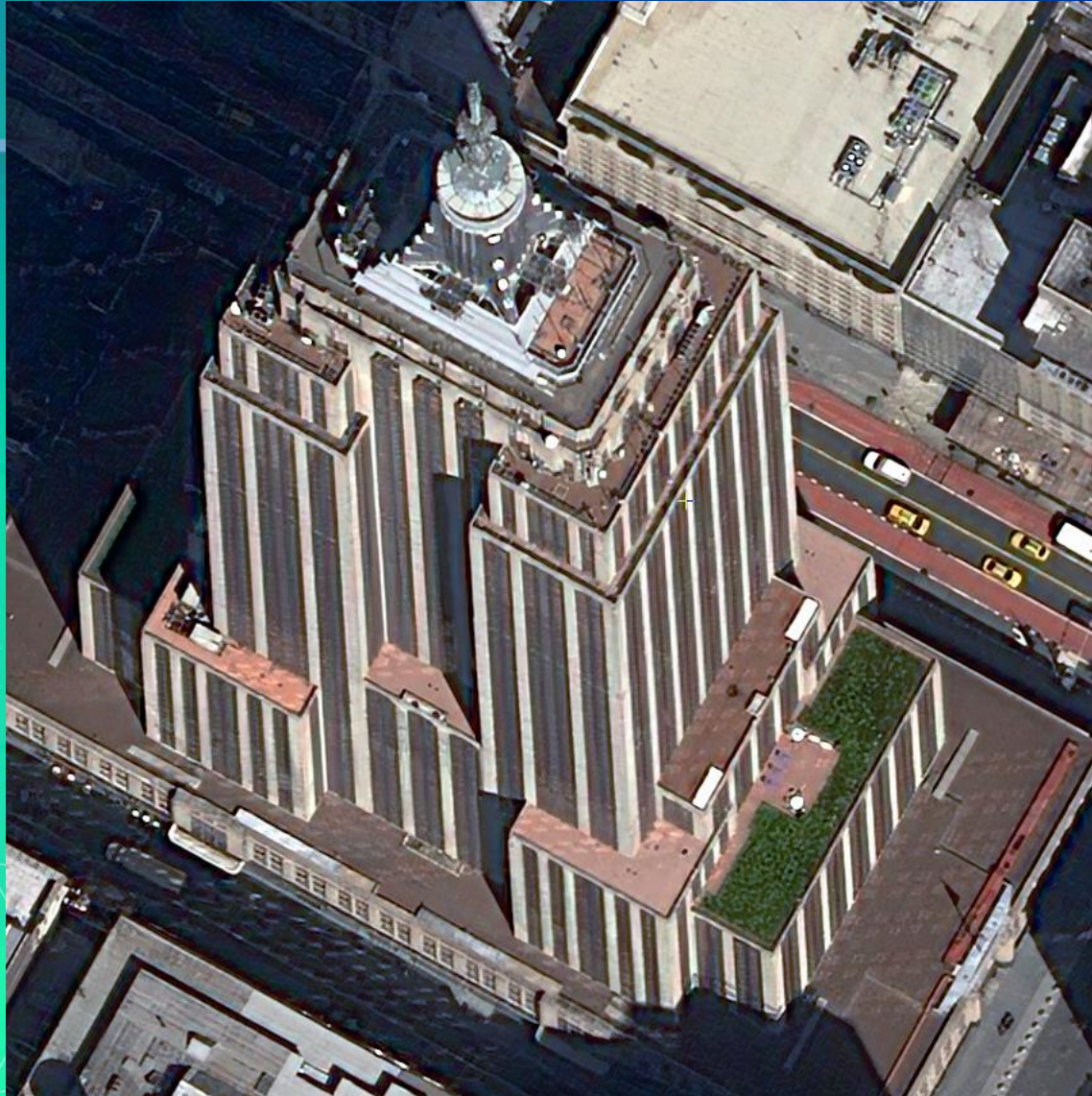
HD-15cm

(Zoom 1)

New York

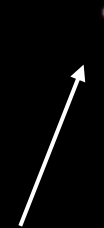
Pléiades Neo 30cm

(Zoom 2)



Pléiades Neo

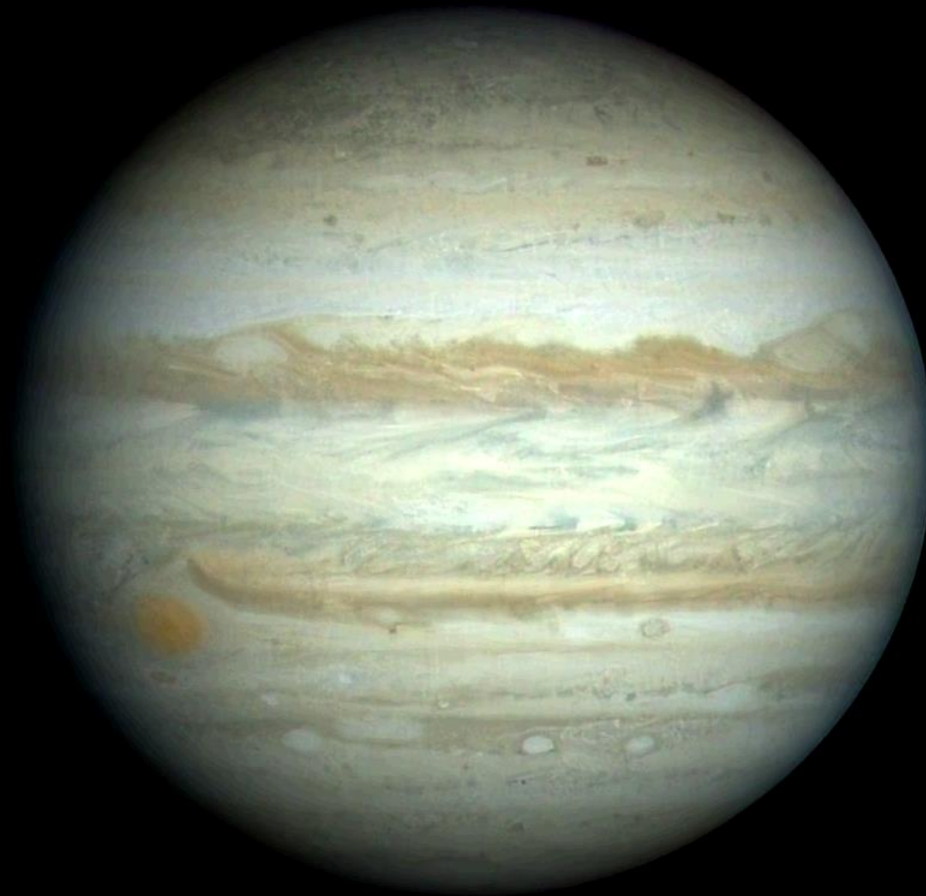
Jupiter
April 26th 2023
Pléiades Neo



Transit d'Europe sur Jupiter

Pléiades Neo

Jupiter
April 26th 2023
Pléiades Neo



How to Access?

OneAtlas

ANALYTICS

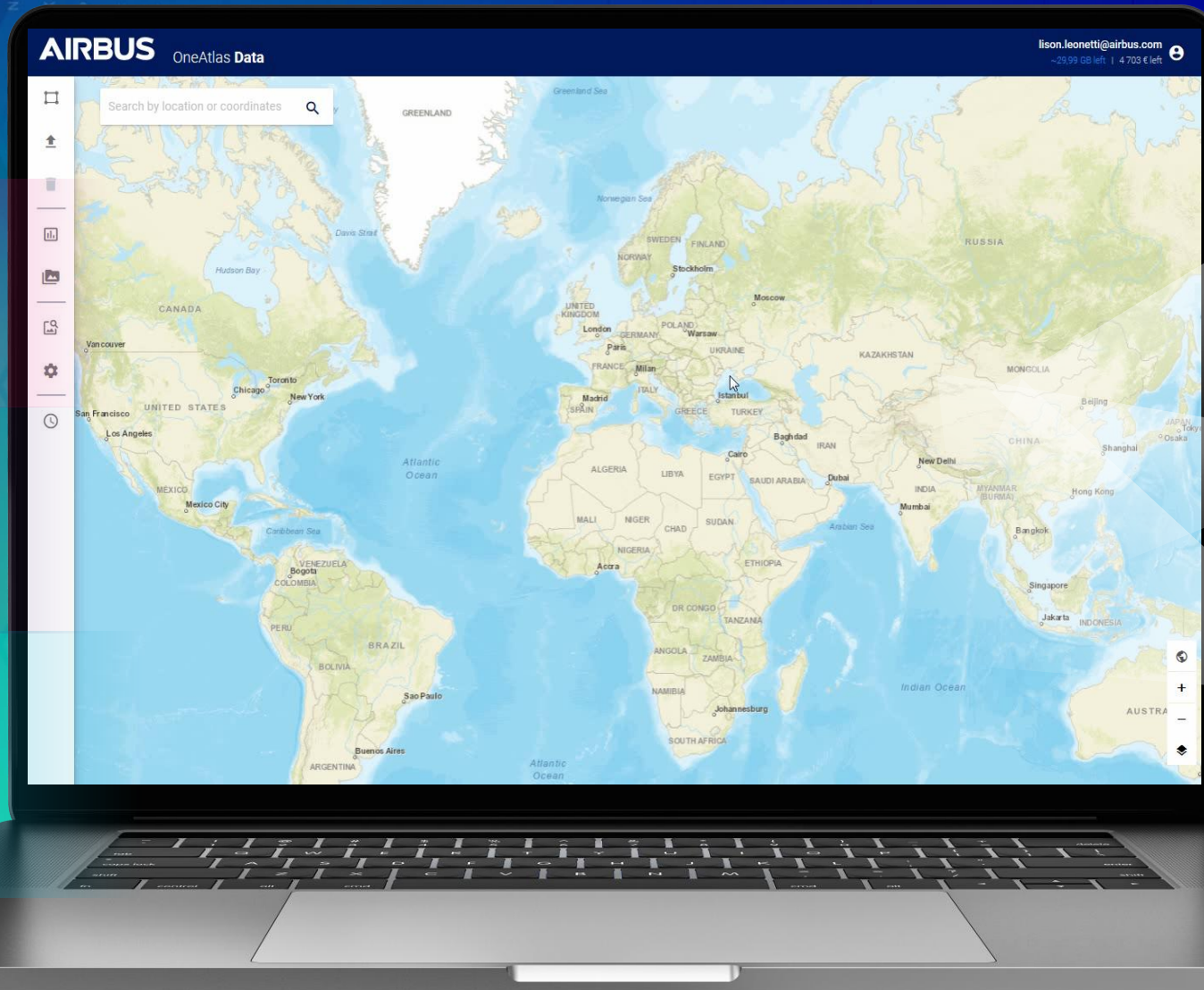
Change Detection
Land Use
Map extraction

IMAGERY

Archive & Tasking
Multi-resolution Sensors
Optical & Radar

REFERENCE LAYERS

Basemap
Digital Elevation Models
3D Models



In streaming

In download

Multiple &
flexible formats

API access

Access via our Digital Platform, OneAtlas

AIRBUS

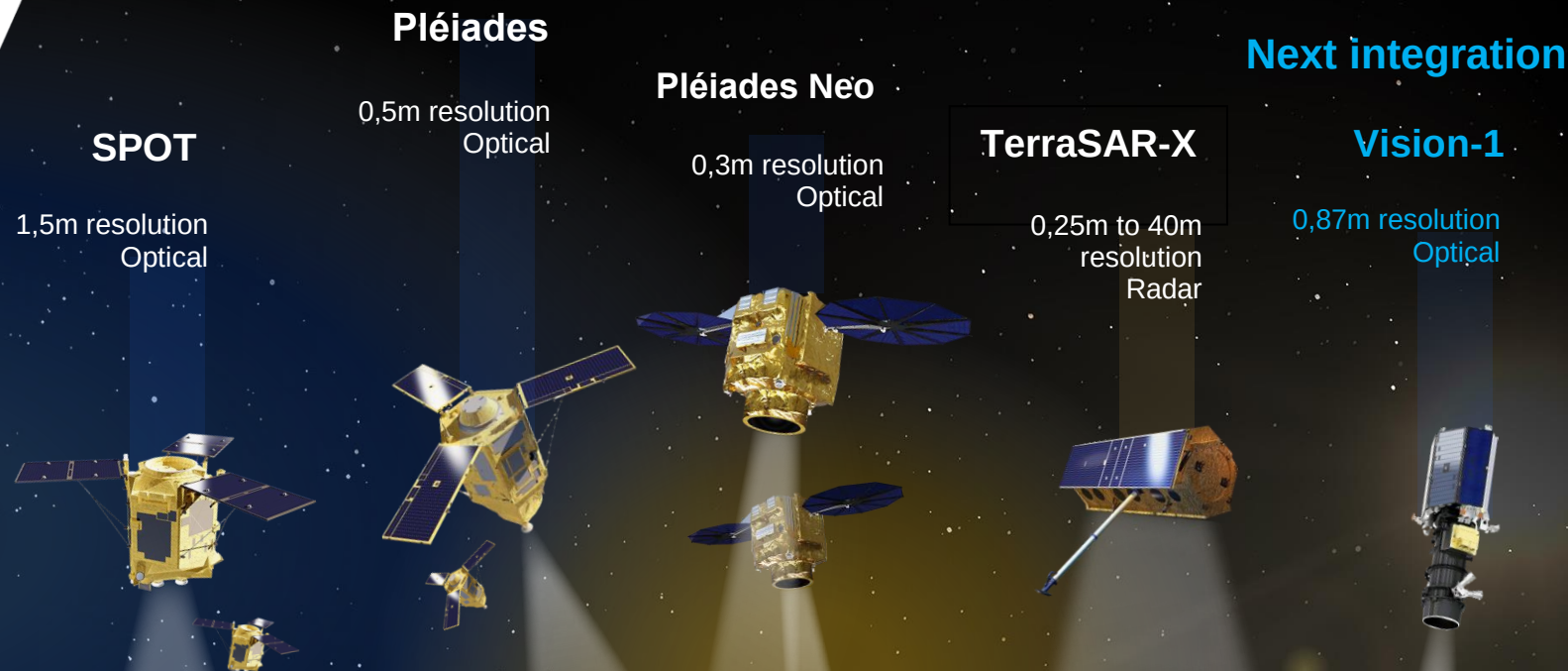
OneAtlas Data

IMAGERY

Multi-resolution and
Multi-sensors

Archive and Tasking

Download and Streaming



OneAtlas Data

IMAGERY Archive

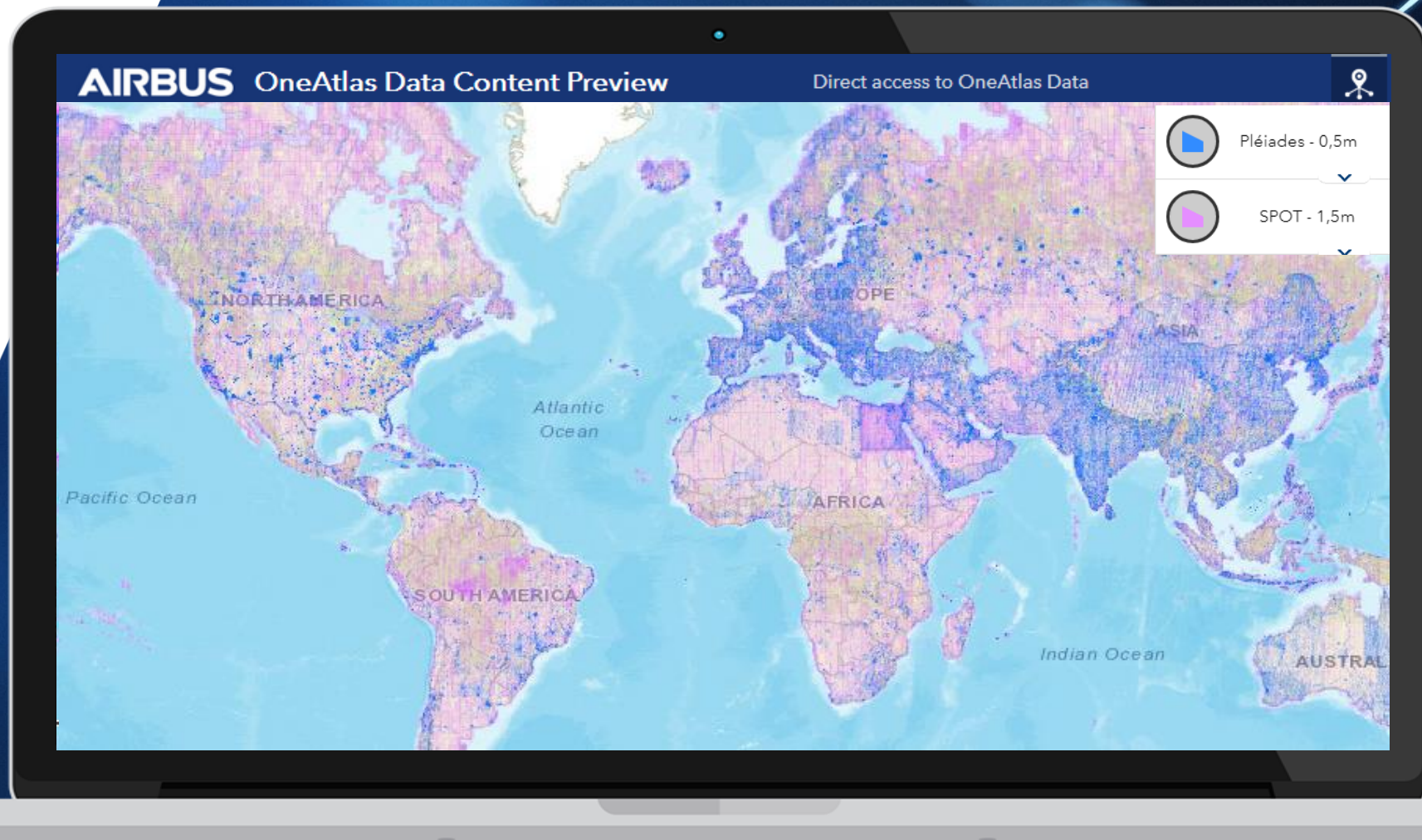
Living Library:

Immediate access to a premium selection of imagery

Extended archive:

Full archive
(0.3cm, 0,5cm, 1,5m res.)

New content every day,
every where



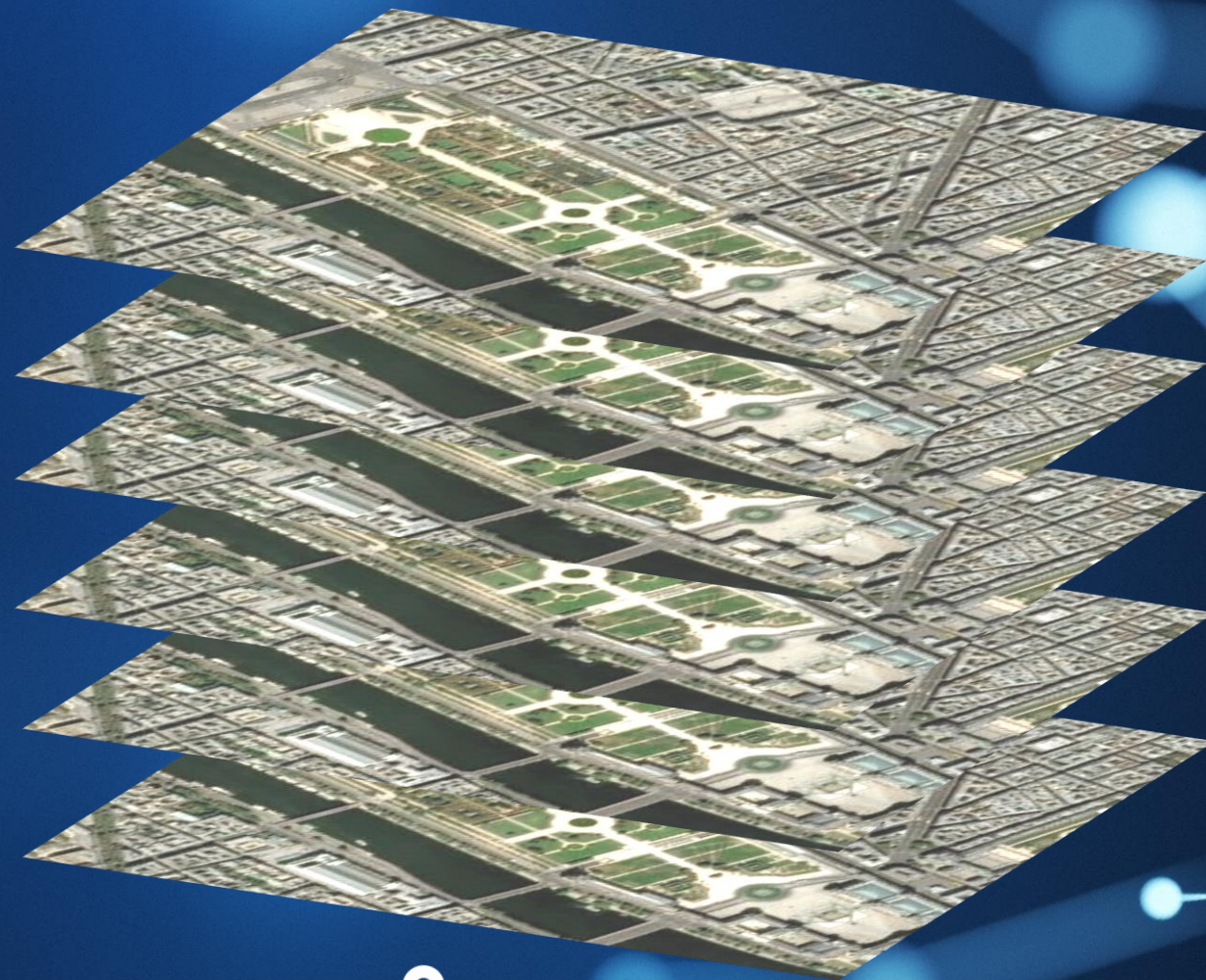
OneAtlas Data

IMAGERY Archive

Living Library Time Series

Exploit Ready Data:

- Orthorectified
- Native co-registration
- Curated: marginal cloud cover, minimal incidence angle



📍 Paris

Nov. 2020

Dec. 2018

Apr. 2016

Sep. 2015

Mar. 2014

Nov. 2012

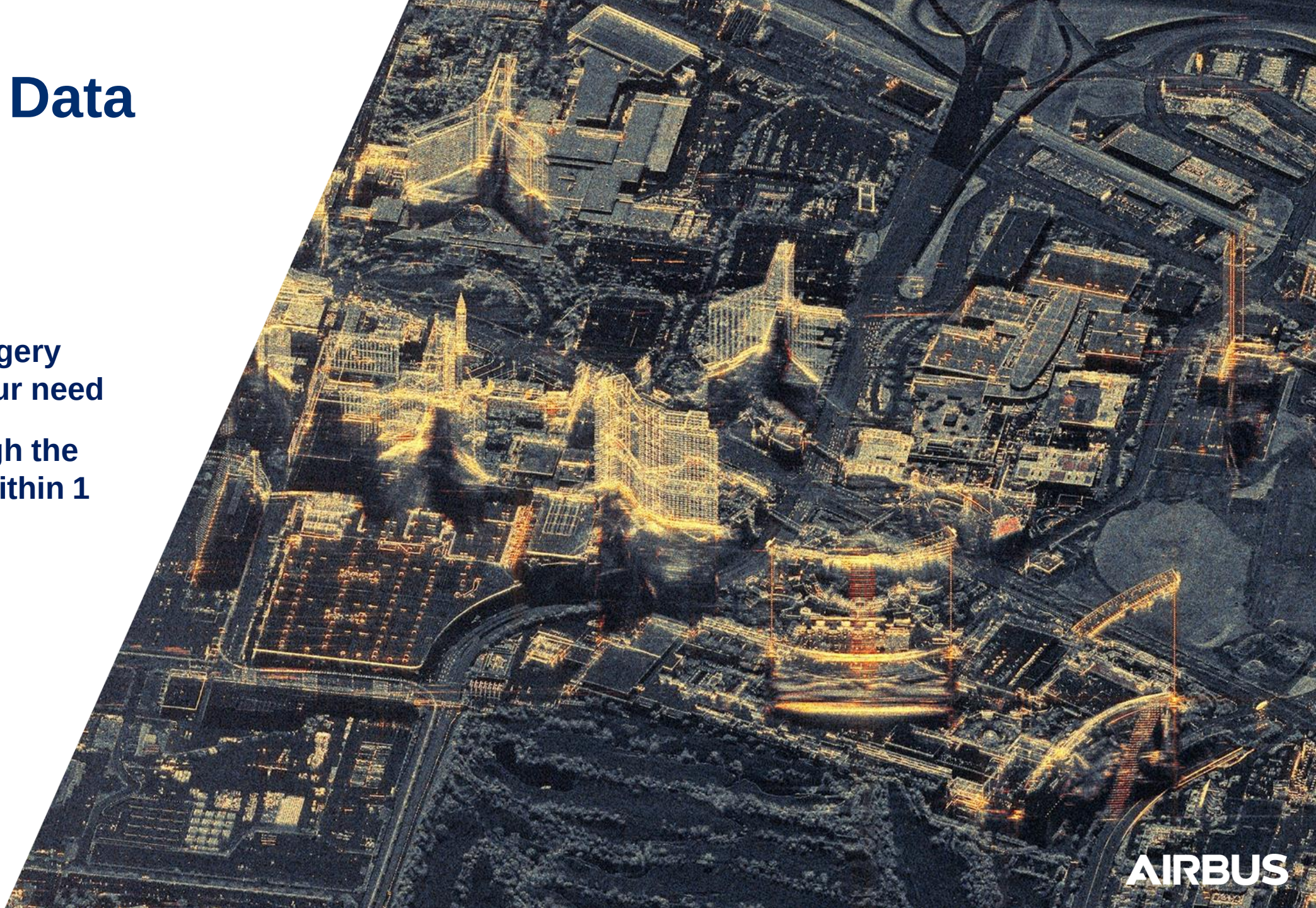
DEFENCE AND SPACE

OneAtlas Data

IMAGERY Tasking

Collect new imagery
according to your need

Access it through the
Living Library within 1
business day



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Pléiades Neo

Archaron, France
April 26th 2021
Pléiades Neo

???

AIRBUS



Pléiades Neo

Victoria Falls
Pléiades Neo



Thank you for your attention

Joe Cotti
Joe.Cotti@airbus.com

AIRBUS