

PLÉIADES NE



Trusted Intelligence

30+ years
experience



Part of Airbus
Defence and Space

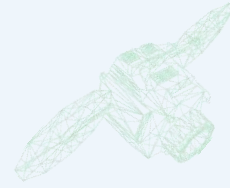
Legacy
of innovation
and expertise

Requirements in our Rapidly Changing World

**Extract useful
information**

**When
I need it**

**With easy
and secured access**



Receive information
more **frequently**

More **revisit**

Higher quality
of the pixel

Receive
more data

More **digital**

Be able to task **at
the last moment**



See more **details**

Various
sensors

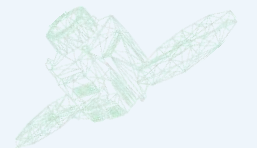
Better **resolution**

Automatic analysis
and **change detection**

More **confidentiality
and security**

More **services**

Better **reactivity**



AIRBUS

Space data is key for mapping

An aerial photograph of San Francisco, showing the dense urban grid of the city, the Golden Gate Bridge in the upper right, and the surrounding water. The image is used as a background for the text.

AIRBUS

For planning

AIRBUS



For monitoring

AIRBUS



For security & safety

AIRBUS



For environmental monitoring

AIRBUS

For crisis management

A photograph showing a wildfire in progress. A white car is driving away on a paved road that is partially obscured by thick, billowing white and grey smoke. The smoke rises from the ground and fills the air, partially obscuring the background. In the foreground, there are green trees and dry, yellowish grass. Some smoke is also visible rising from the grass on the left side of the road. The sky is a hazy, brownish-grey color. The overall scene is one of a major crisis, likely a wildfire.

AIRBUS

For situational awareness



AIRBUS

Airbus Intelligence

Delivers Rapid Insight from Truly Actionable Data



DATA & SERVICES

**To fuel the
value-creation chain**

Easy access
to multi-sourced premium data



SYSTEMS & SOLUTIONS

**The engine to transform data
into action**

Industry-specific insight for more
accurate and efficient decisions

An Unrivalled Operational Constellation

N E X T



OPTICAL CONSTELLATION

RADAR CONSTELLATION

SIGNAL INTELLIGENCE



Introducing Pléiades Neo

Airbus' most advanced
constellation with very high
resolution imagery and optimum
reactivity

4 IDENTICAL
SATELLITES

30cm
RESOLUTION

Revisit
2-TIMES
A DAY

CAPACITY PER DAY

2Msq.km

Designed for a

10-YEAR
NOMINAL LIFETIME

100%
COMMERCIALY AVAILABLE

AIRBUS

Extract useful information



30cm native resolution

14 km swath

<5m CE90 geolocation accuracy



An aerial multispectral image of a city. The vegetation, including trees and lawns, is rendered in a vibrant red color. Buildings, roads, and other urban structures are shown in shades of blue and grey. The image is taken from a high angle, providing a clear view of the city's layout and architecture.

Spectral resolution

Pléiades Neo delivers
6 multispectral channels

AIRBUS

WDC: 3°
CAPITOL
PANSHARPENED



May 2021

This image is part of the first set acquired on May 2021, One week after the launch of the satellite. No geometric and radiometric

WDC: 3°
PANSHARPENED



NY: 17°
PANSHARPENED



DUBAI: 38°
PANSHARPENED



AIRBUS

This image is part of the first set acquired on Nov 6th. One week after the launch of the satellite. No geometric and radiometric

CAIRO



AIRBUS

This image is part of the first set acquired on May 6th. One week after the launch of the satellite. No geometric and radiometric corrections have been applied.

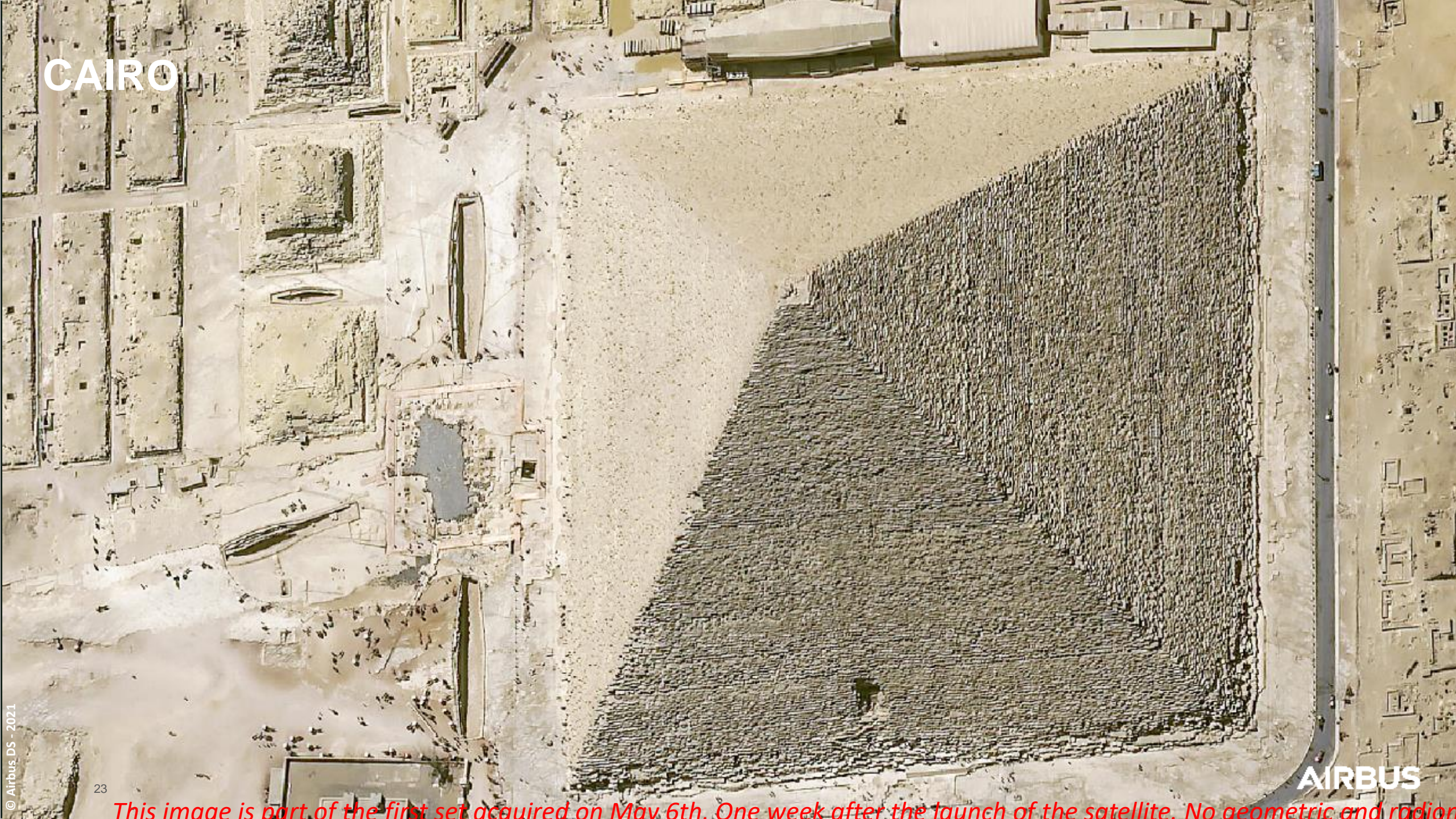
CAIRO



AIRBUS

This image is part of the first set acquired on May 6th. One week after the launch of the satellite. No geometric and radiometric corrections have been applied.

CAIRO



AIRBUS

SHANGHAI

© Airbus DS - 2021

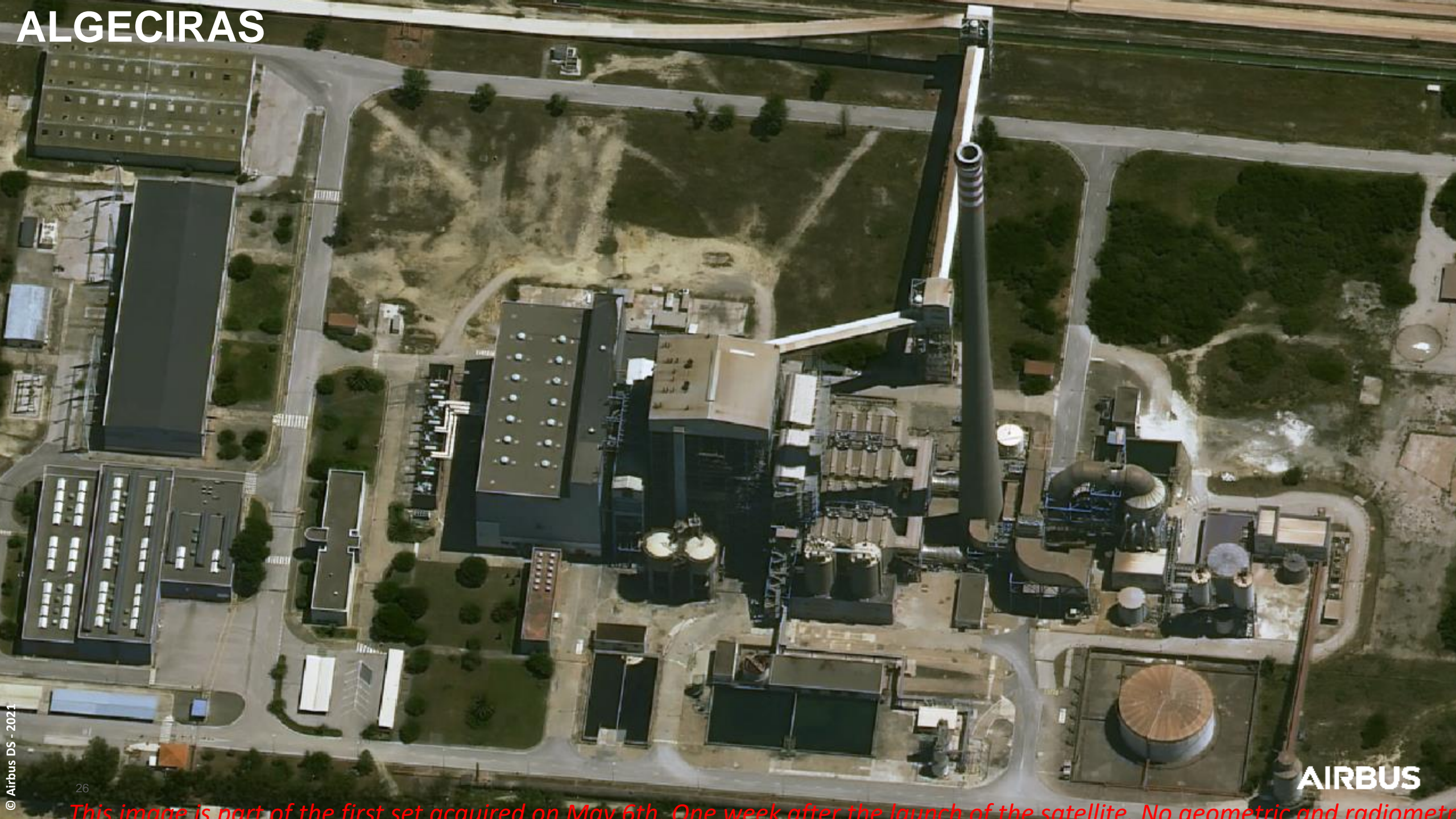
AIRBUS

ALGECIRAS



AIRBUS

ALGECIRAS



AIRBUS

THE MOON



THE MOON

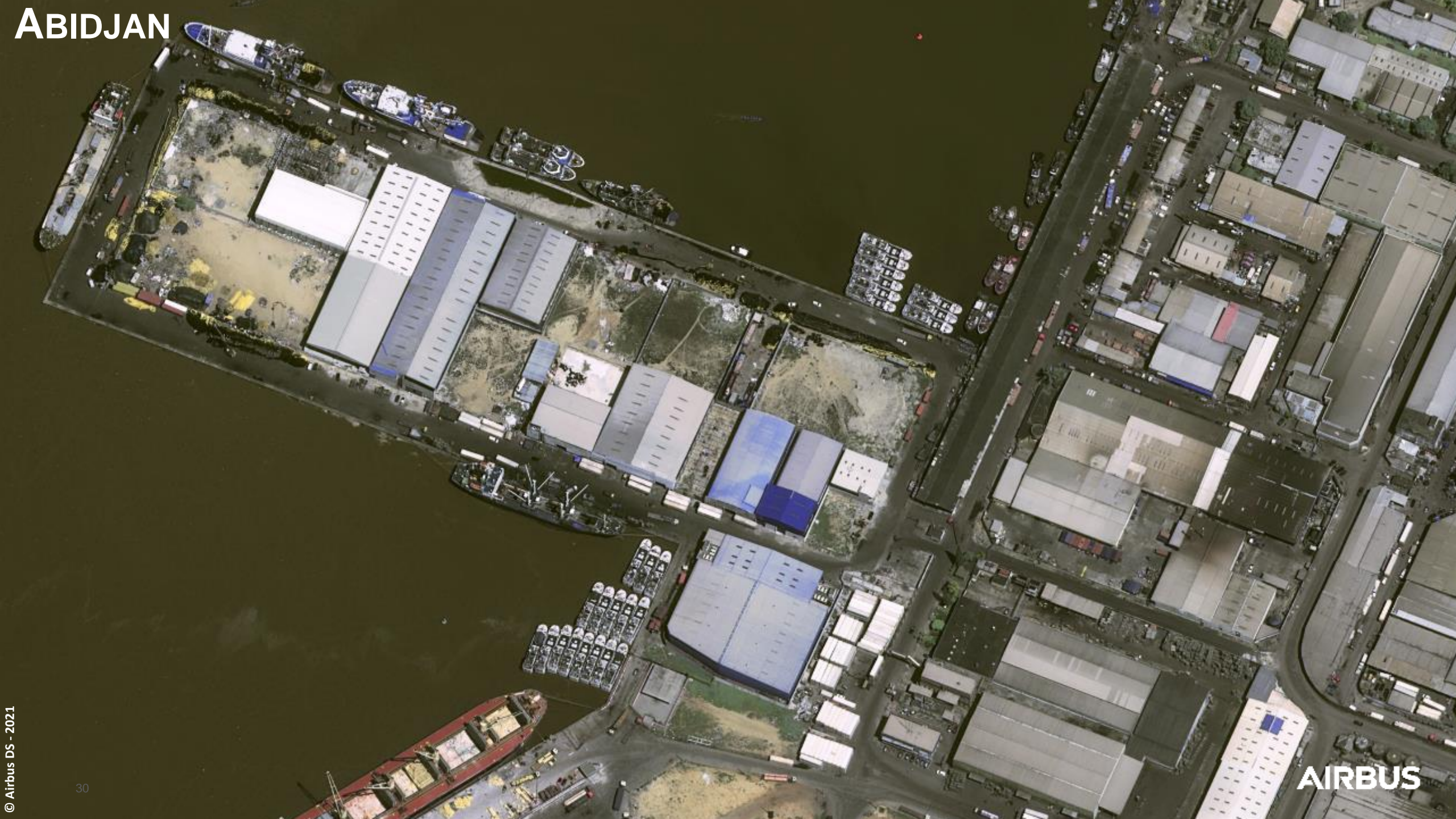


ABIDJAN



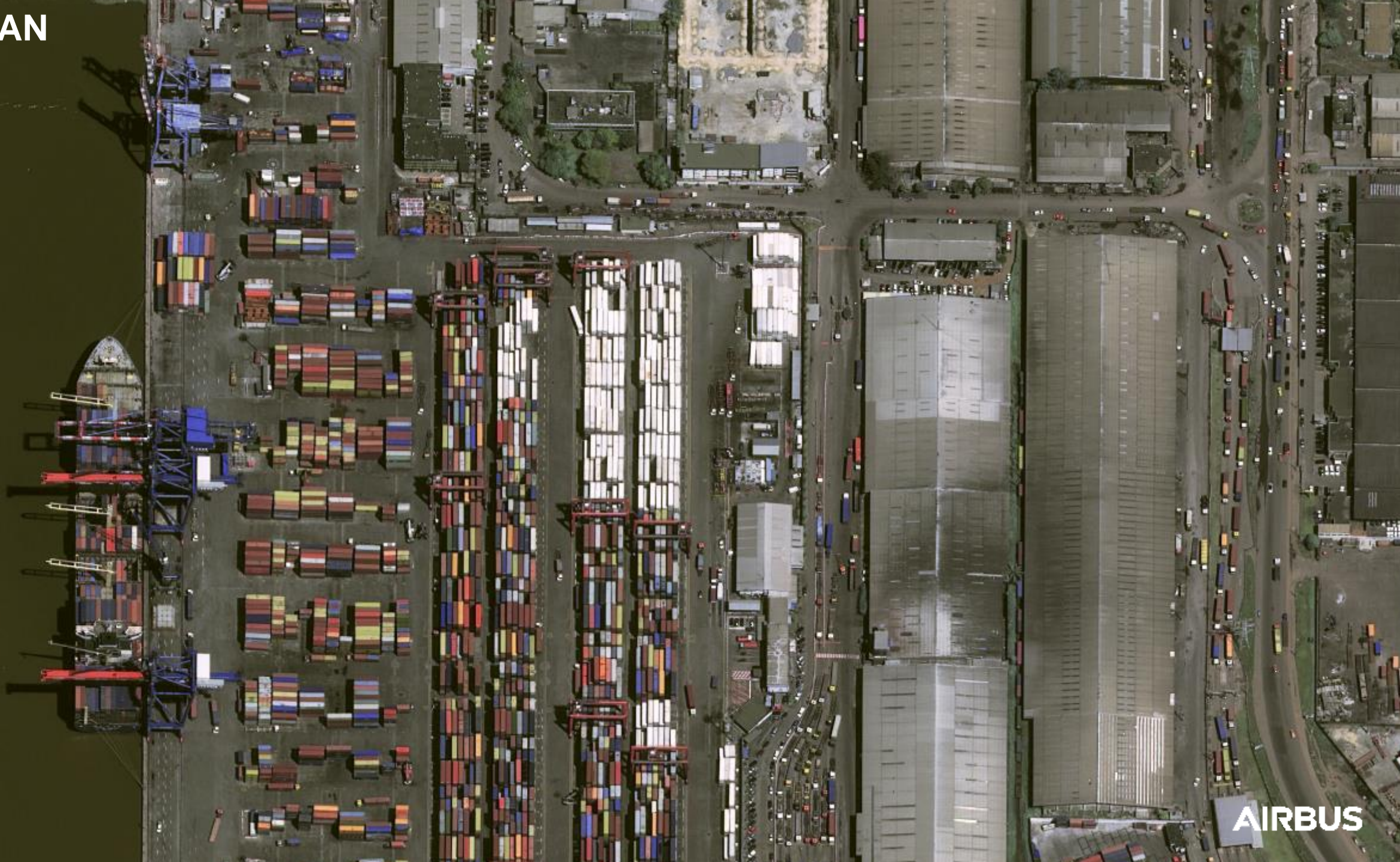
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ABIDJAN

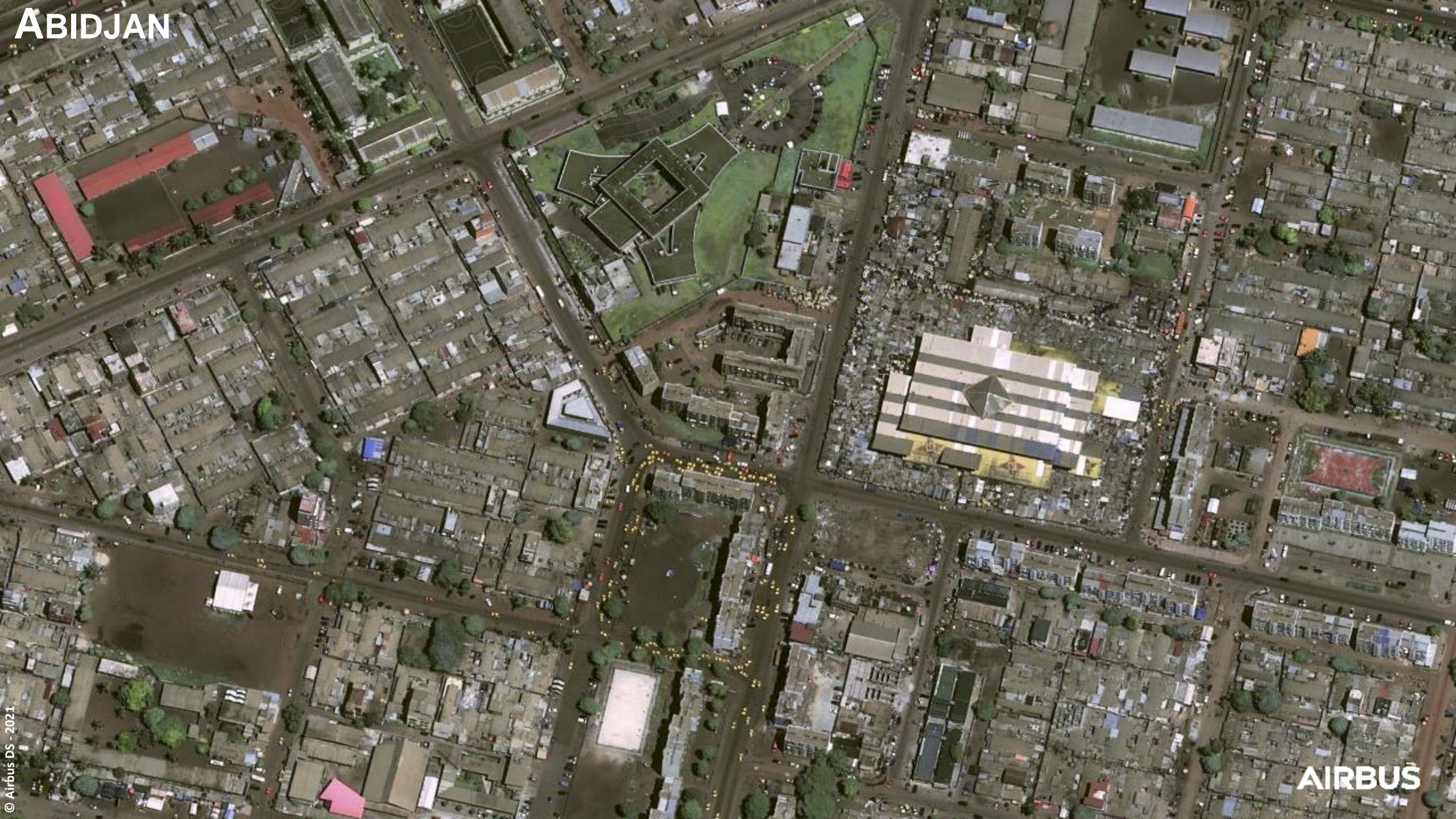


AIRBUS

ABIDJAN

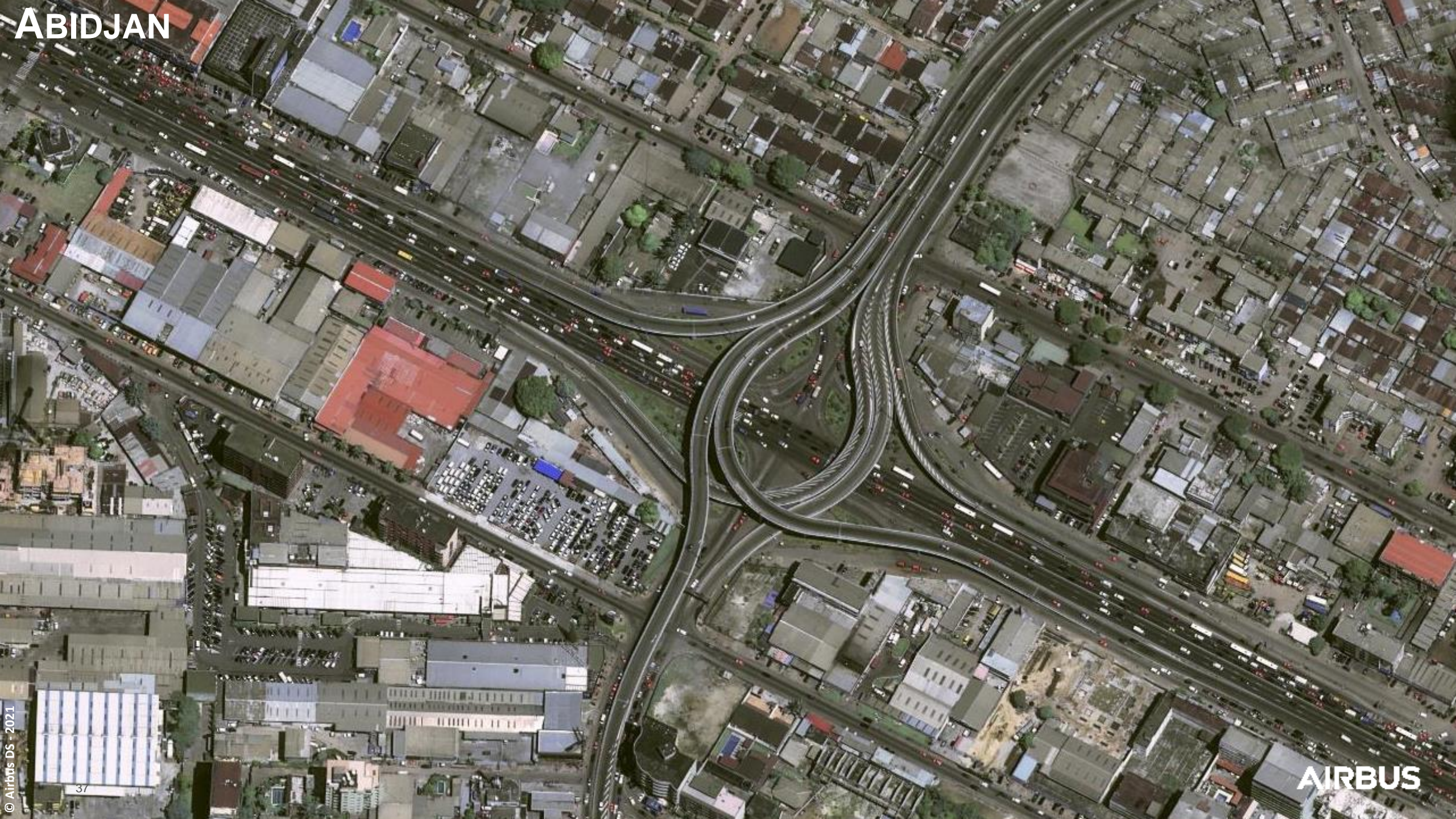


ABIDJAN



AIRBUS

ABIDJAN



AIRBUS


Receive data on schedule





Agile System

A Pléiades-like agility

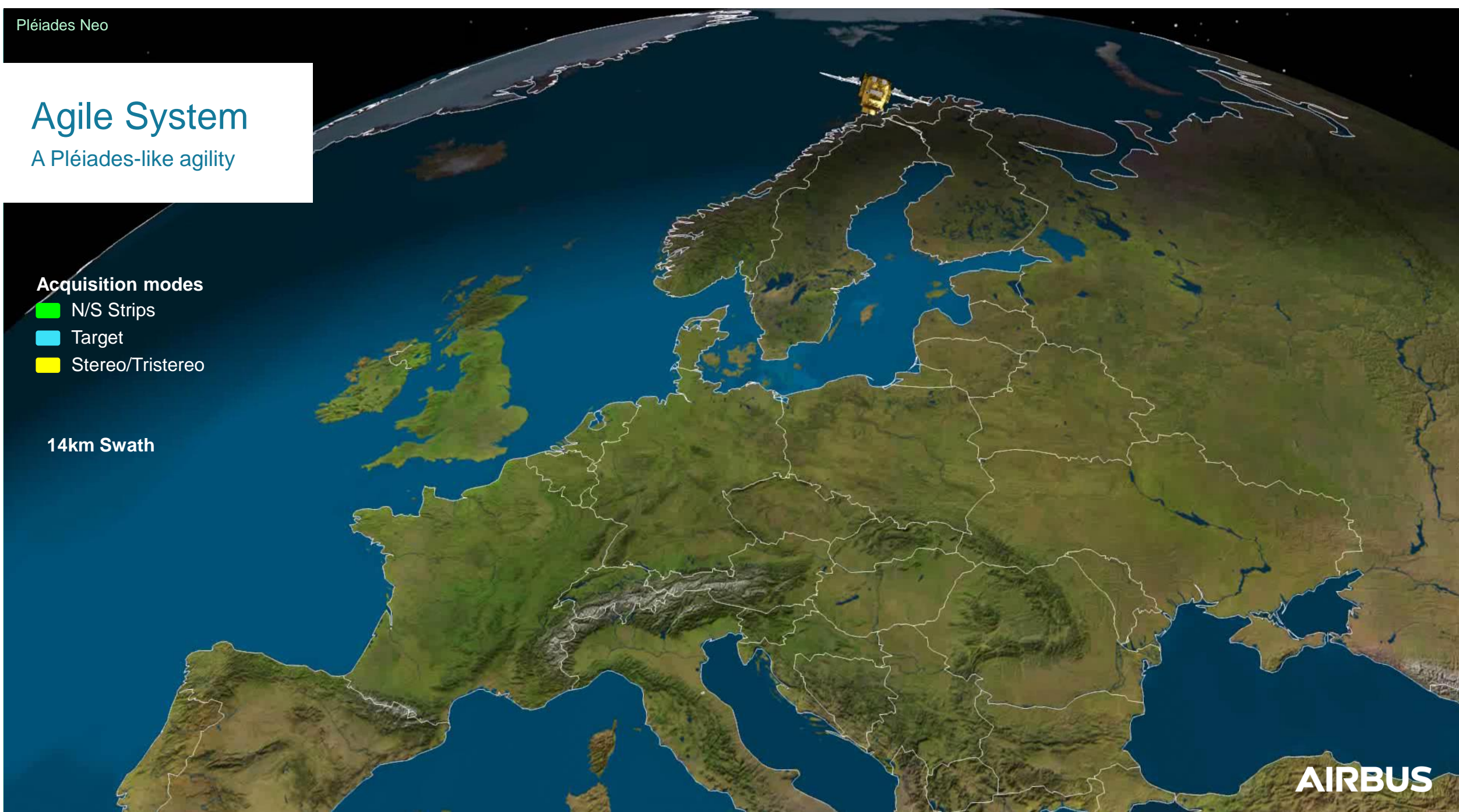
Acquisition modes

 N/S Strips

 Target

 Stereo/Tristere

14km Swath



Chronology of Pleiades Neo operation

Tasking, Collection and Delivery timeline (UTC time)

- AOI: Damascus, Syria
- lat 35,51/long 36,31
- 01/08/2022 (D1)
- Max Roll Angle +/-46°
- Download via Airbus receiving station

Pléiades Neo

ONE TASKING

01/08/2022
Airbus reception
(VRS mode)
(UTC time)

T0
Day 01/08/2022

Last time operator can
send his request to the
AIRBUS system

T0 + 36 min
Day J

Acquisition time
by the satellite

T0 + 1h54
Day J

Download over
Customer reception
station

T0 + 2h14
Day J

Time of availability
of product

07:52

08:28

09:46

10:06

2h14

AIRBUS

Global coverage capacity

Up to 2million km² every day!

Up to 7,500 km² in a single pass.

7,500km²

70km

110km

Track

AIRBUS

Global coverage capacity

Up to 2million km² every day!

Up to 15,000 km² of consistent coverage within a day.






An innovation driver



AIRBUS

Analyse Smart & Automatically

- ▶ We provide a set of analytics algorithms which have been developed, trained and qualified by ourselves and Orbital Insight
- ▶ This ensures a high level of accuracy and delivery worldwide

ANALYTICS	TYPICAL USE	
Infrastructure Changes	<ul style="list-style-type: none"> • Detect and locate new constructions / settlements • Monitor urban change • Tip and cue 	
Detection & count of cars, trucks, aircrafts	<ul style="list-style-type: none"> • Monitor activity level over target sites • Detect abnormal activity 	
Land use & land use change	<ul style="list-style-type: none"> • Monitor land use change • Characterise urban development 	

Access via our Digital Platform, OneAtlas

IMAGERY

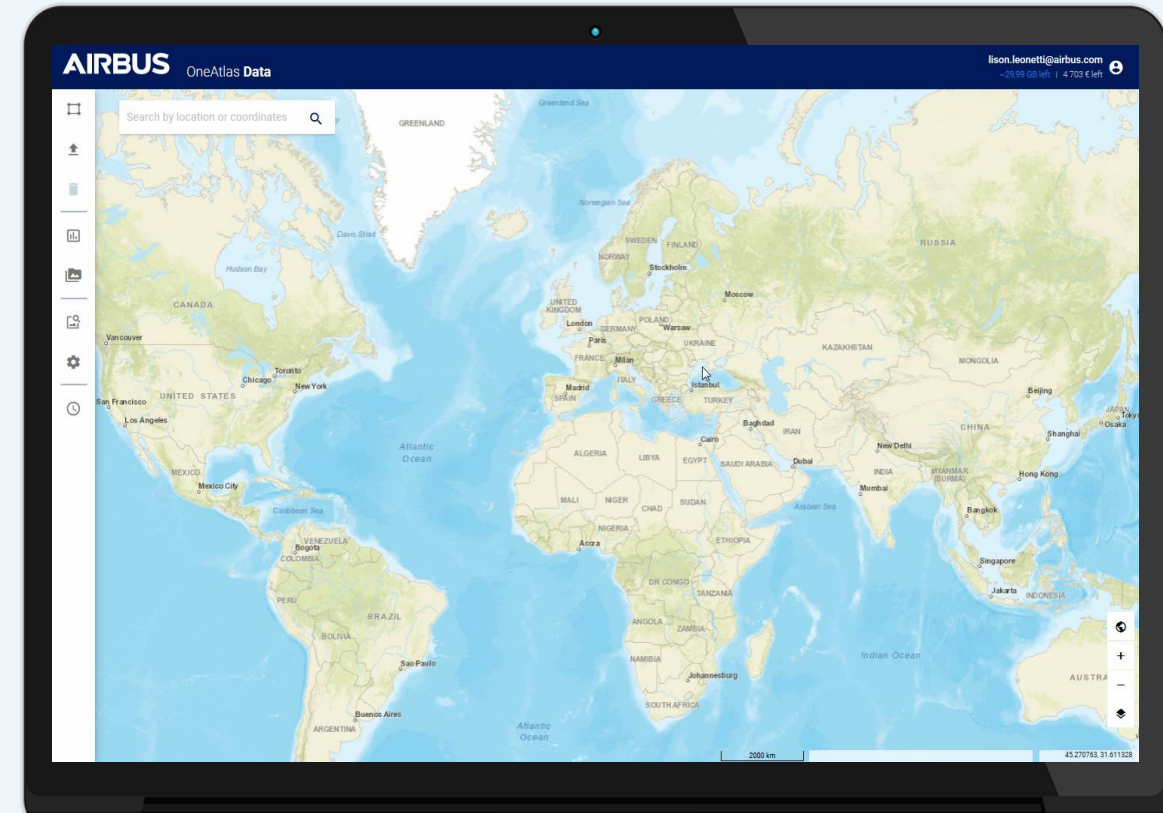
Living Library and Tasking
Multi-resolution and sensors

LAYERS

Basemap, reliable context
Digital Elevation Model

ANALYTICS

Objects identification
Change detection



Pléiades Neo

Key Benefits

Performance

World-class

- 30cm native resolution
- Highest location accuracy
- 2M km² every day

Reliability

Regular revisits

- At least twice revisit per days anywhere on Earth, with adequate acquisition parameters, often 3 acquisitions
- Easy to integrate to your workflow

Adaptability

Tailored to your needs

- Task the satellites from the most urgent request to regular monitoring, and be sure you'll get what you need.

Availability

100% commercially available

- Unrivalled resource allocation: 100% available for your missions

A satellite with two large solar panels is shown in orbit above a stylized globe. The globe features a network of white lines and dots, representing a global communication or data network. The background is a solid teal color.

Thank you

For further information
on Pléiades Neo and product portfolio:
<https://www.intelligence-airbusds.com/>

AIRBUS