



# Build your Satellite Imagery Library

New Access to 30cm  
Pléiades Neo

## OneAtlas

Spatial data infrastructures  
OGS 2022

**Fabrice Triffaut**

Airbus DS Intelligence Oceania,  
Canberra

**AIRBUS**



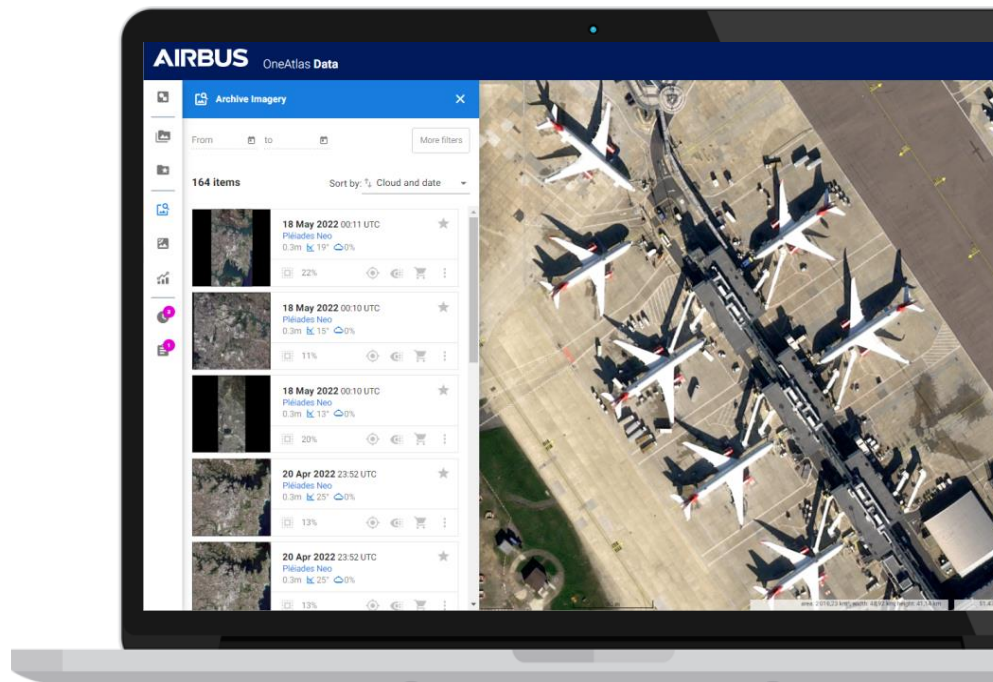
# Agenda

- OneAtlas introduction
- Living Library
  - What is the Living Library?
  - Content strategy
  - Use cases
  - Access and API
  - Live demo
- Q&A

# The OneAtlas Platform

A single platform to easily access the Airbus imagery, reference layers and advanced analytics

<https://oneatlas.airbus.com>

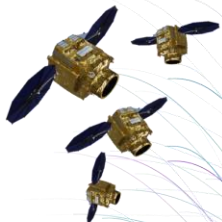


**AIRBUS**

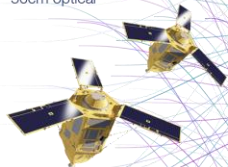


# OneAtlas

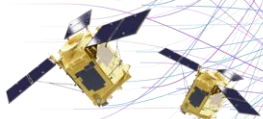
Pléiades Neo  
30cm optical



Pléiades  
50cm optical



SPOT 6/7  
1.5m optical



RADAR  
CONSTELLATION  
25cm to 40m radar



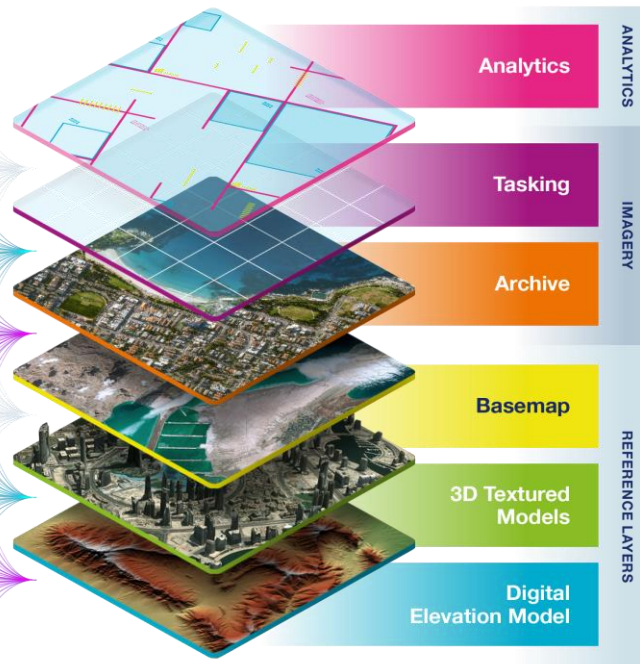
Streaming



Download



API, GIS  
Plugin or  
Web  
Interface



AIRBUS

# OneAtlas

## Flexible Business Models

### Subscription



**Easily stream and download data from any satellite within your annual subscription.**

- Living Library (Pléiades Neo, Pléiades and SPOT)
- Basemaps
- Analytics
- WorldDEM suite

### Pay-per-Order



**Order the product you need when you need it, without commitment.**

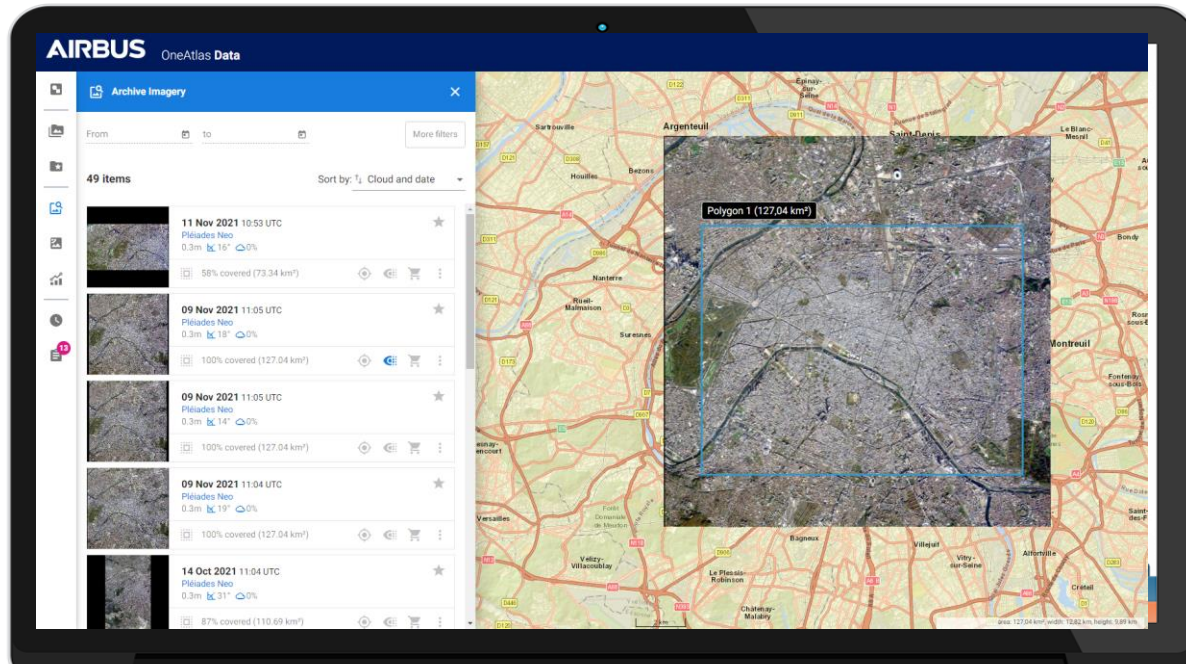
- Pléiades & SPOT Tasking
- Pléiades Neo Archive & Tasking
- Radar Archive & Tasking

**AIRBUS**

# OneAtlas

## Imagery Archive

**Easy & quick access** to the Airbus entire optical archive Pléiades Neo (30 cm), Pléiades (50 cm) and SPOT 6/7 (1,5m) data as well as the Radar Constellation.



# OneAtlas TASKING

## IMAGERY Tasking

Collect new imagery  
according to your need

### ONE DAY

Choose your  
acquisition day

### ONE NOW

Access useful  
information in an  
instant

### ONE PLAN

Obtain qualified  
coverage within an  
agreed timeframe

AIRBUS

# OneAtlas

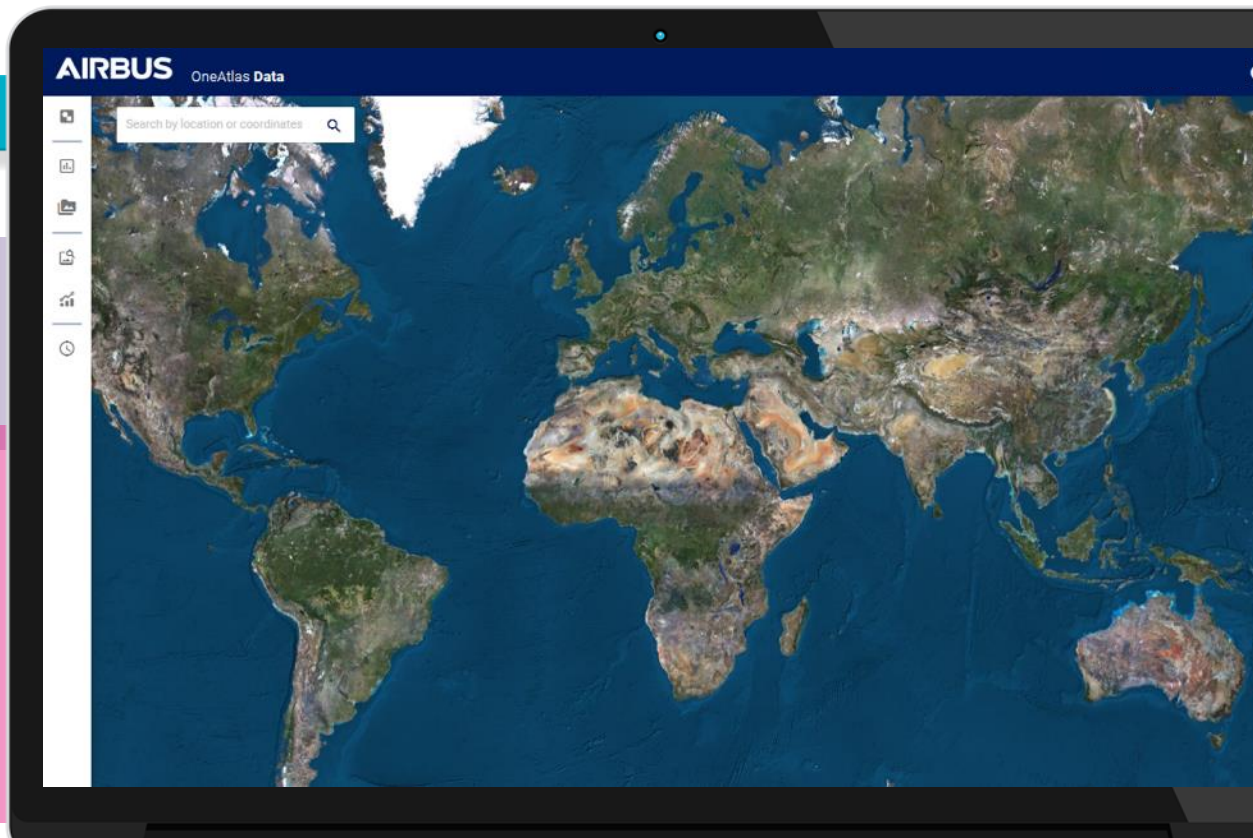
## Imagery Archive

### LAYERS

#### Basemap

##### Basemap global layer

- 1,5m resolution worldwide
- 0,5m resolution in nearly 3000 urban areas
- 30cm imagery on large cities
- Yearly refresh





# OneAtlas DEM

## WorldDEM Suite

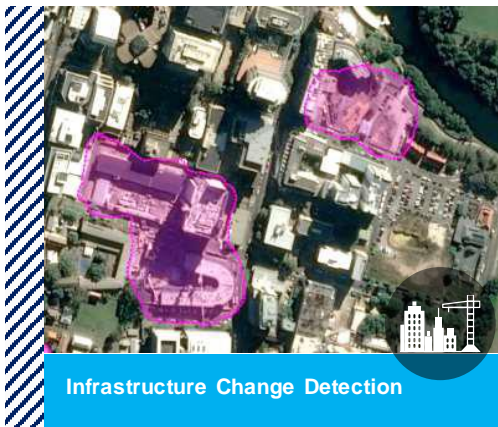
WorldDEM Neo, WorldDEM,  
WorldDEM4Ortho and  
WorldDEM DTMLite



# OneAtlas Analytics

## Change Detection

1



Monitor man-made changes over your sites and areas of interest

## High-accuracy Map Extraction

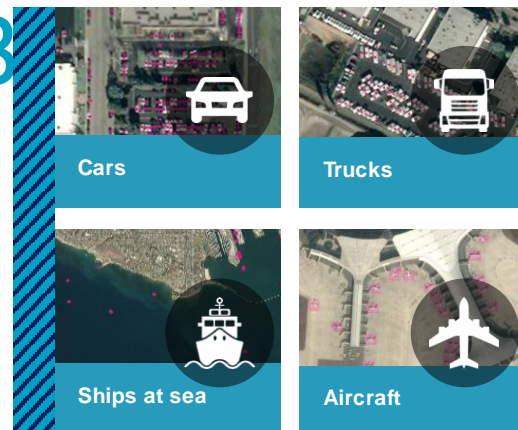
2



Build accurate datasets at city, regional or country-wide scale

## Activity Analysis & Monitoring

3



Get objective answers about supply chains, commodities, business intelligence and more

AIRBUS



# What is the Living Library?

A library of multi-resolution archive imagery  
More than 10 years of archive  
Daily revisits and frequent updates

## SPOT

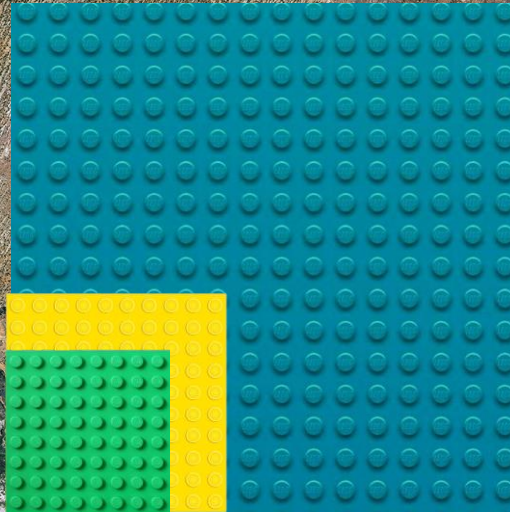
1,5m resolution  
Optical 60km Swath

## Pléiades

50cm resolution  
Optical 20km Swath

## Pléiades Neo

30cm resolution  
Optical 14km Swath





# Living Library New Access to 30cm Pléiades Neo Data

Build your archive Satellite Imagery Library with Airbus Optical constellation

## Pléiades Neo

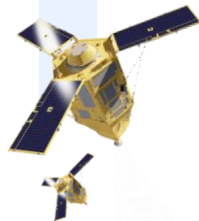
0,3m resolution  
Optical

**NEW**



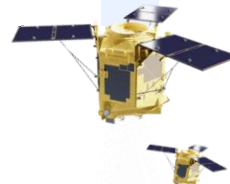
## Pléiades

0,5m resolution  
Optical



## SPOT

1,5m resolution  
Optical



**AIRBUS**



# Living Library

## Content specifications

| Ortho products only   | Pléiades Neo 30cm   | Pléiades 50cm  | SPOT 1.5m   |
|---|---|--|---|
| <b>Living Library (online)</b><br><br>Available for instant streaming and fast download | Minimum AOI order 0,1km <sup>2</sup>  |  |   |
|   | Premium selection up to: <ul style="list-style-type: none"> <li>• 15% Cloud Cover</li> <li>• 30° Incidence Angle</li> <li>• Since satellite launch</li> </ul> | Up to: <ul style="list-style-type: none"> <li>• 25% CC</li> <li>• 30° IA</li> <li>• &lt;18 months old</li> </ul> | Up to: <ul style="list-style-type: none"> <li>• 0% CC</li> <li>• 25° IA</li> <li>• &lt;18 months old</li> </ul> |
| <b>Extended Archive (warm-up)</b><br><br>Available within 24h after product ordering    | Minimum AOI order 1km <sup>2</sup>  |  |   |
|   | <b>X</b><br><br>Pléiades Neo catalogue available on-demand with Pay-per-order account (no warm-up)  | Entire catalogue back to 2012  | Entire Catalogue back to 2012   |

# Living Library

## Product formats

### DOWNLOAD

| Geometric processing | Spectral Band Combination | Pixel depth | Radiometric processing | Format   | Projections                       |
|----------------------|---------------------------|-------------|------------------------|----------|-----------------------------------|
| Orthorectified       | Bundle                    | 16 bits     | Reflectance            | JPEG2000 | Geographic (WGS 84)<br>UTM WGS 84 |
|                      | Bundle                    | 8 bits      | Display                | GeoTIFF  |                                   |
|                      | Pansharpened              | 8 bits      | Display                | GeoTIFF  |                                   |
|                      | Pansharpened              | 8 bits      | Display                | JPEG2000 |                                   |

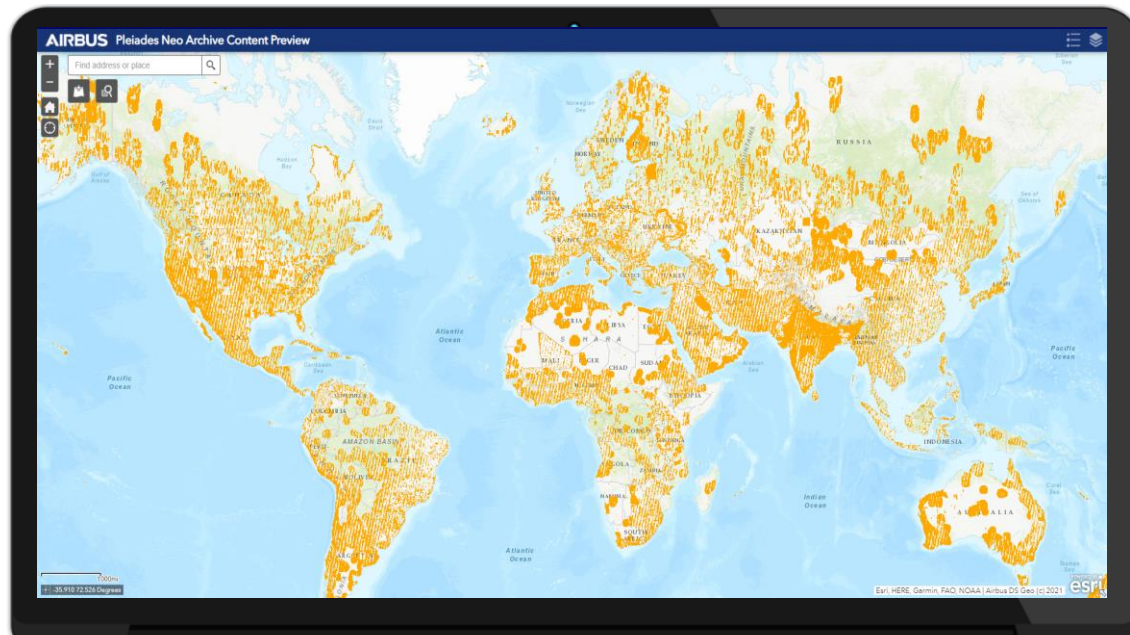
### STREAMING (WMS/WMTS)

| Geometric processing | Spectral Band Combination | Pixel depth | Radiometric processing | Format | Projections                        |
|----------------------|---------------------------|-------------|------------------------|--------|------------------------------------|
| Orthorectified       | Pansharpened              | 8 bits      | Display                | PNG    | Geographic (WGS 84)<br>WebMercator |

# Living Library Content Strategy

## Content Preview Tool

- Pléiades Neo 30cm
- Pléiades 50cm
- SPOT 1.5m



# OneAtlas Data

## USE CASES

MONITORING



ANALYSIS



MAPPING



MACHINE LEARNING

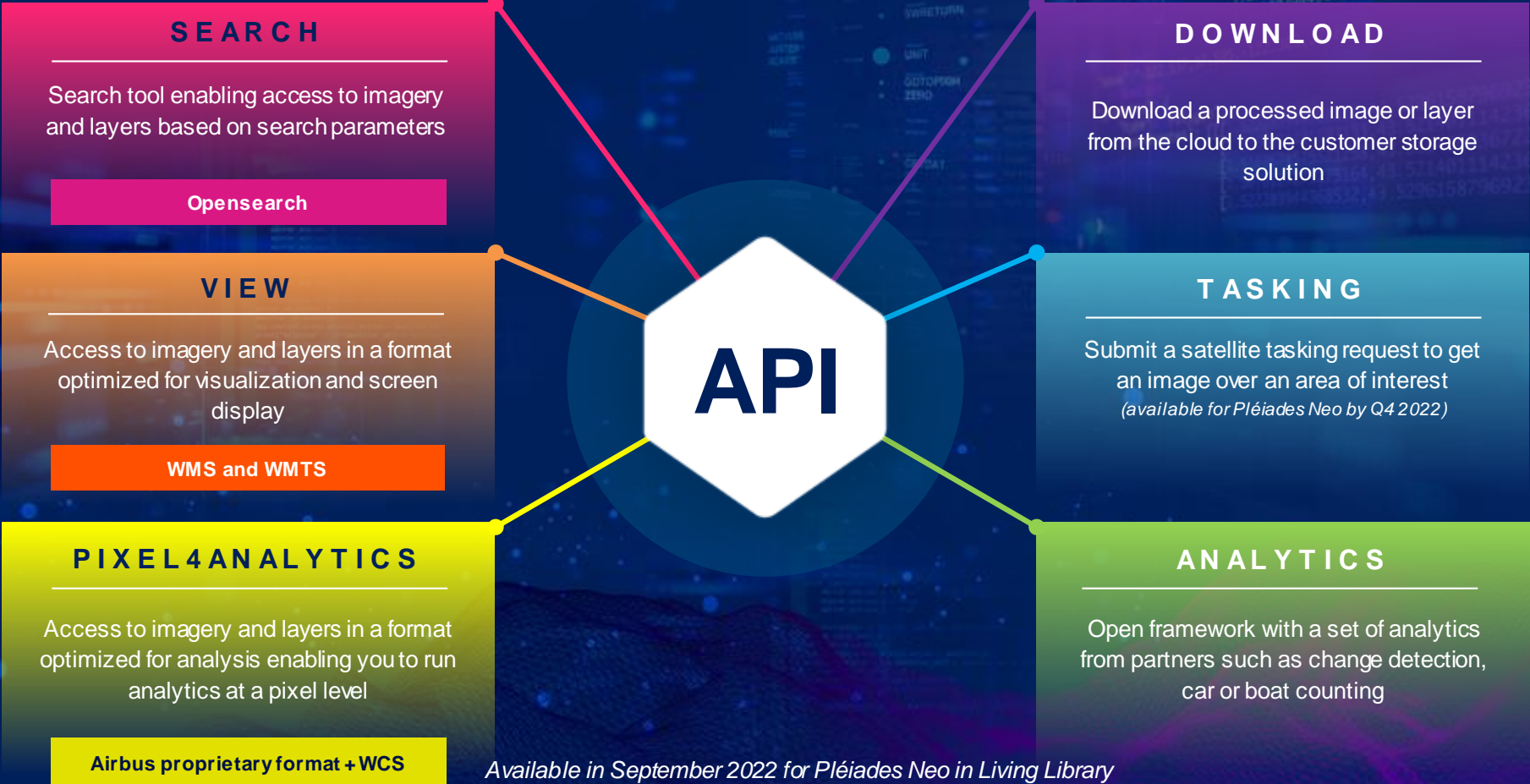




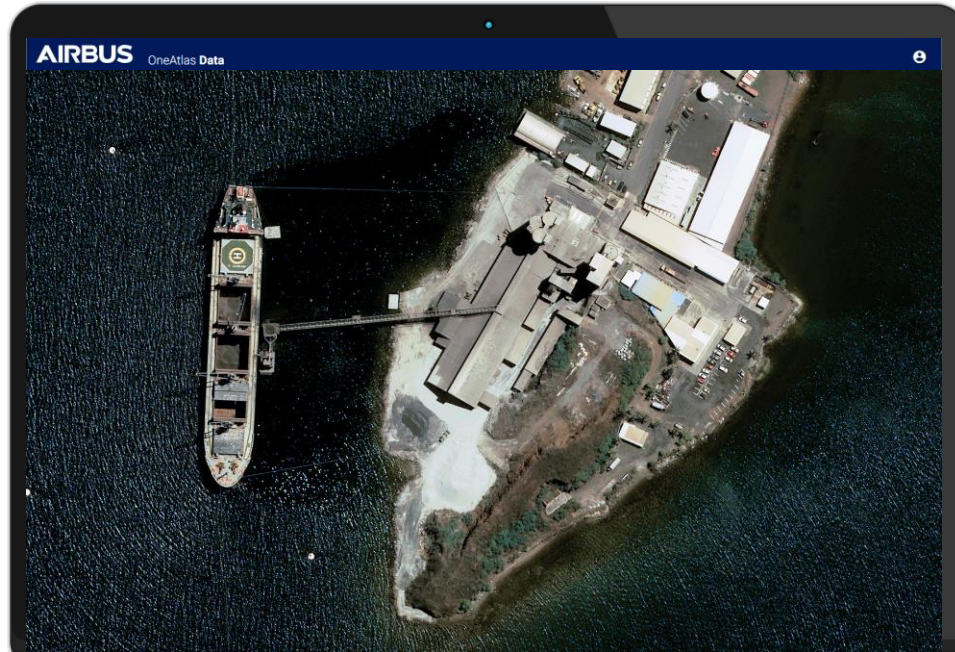
# Living Library

## Access modes: GIS





# Living Library Demo Nouméa



**AIRBUS**



# Thank you!

Discover what the OneAtlas platform can do for you



geo-contact@insight.nc



fabrice.triffaut@airbus.com



<https://oneatlas.airbus.com>

**AIRBUS**