

An overview of the Pléiades Neo mission

What

Pléiades Neo is a constellation of two identical, very high-resolution (VHR) satellites, developed as a follow-on to the Pléiades optical satellites.

The satellites bring unprecedented capability to provide imagery with a high level of detail, including more visibility of small objects, such as vehicles and road markings

When

Launched on



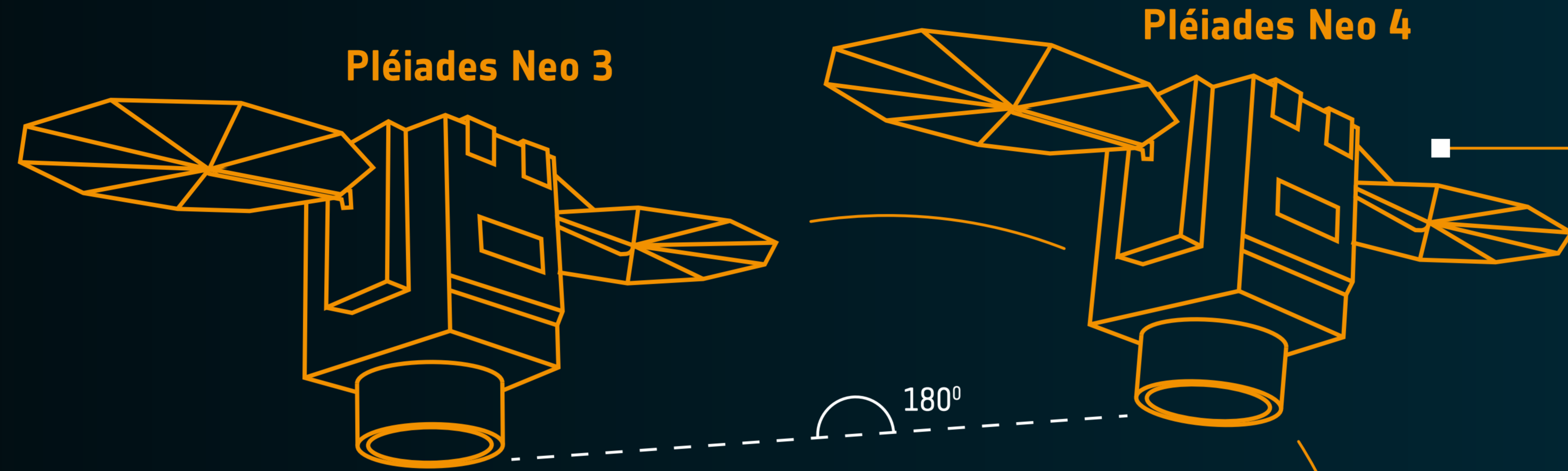
Pléiades Neo 3 Pléiades Neo 4

The two satellites launched in 2021, phased at 180° from each other. Their expected lifetime is ten years

Instruments

The sensors carried onboard the satellites have a spatial resolution up to 30 cm (panchromatic) and 1.2 m multispectral imagery (4 or 6 bands), offering mono, stereo and tri-stereo acquisitions

1 million km²
per day
(half a million per satellite)



Built by

The constellation is funded, owned, manufactured and operated by Airbus Defence & Space



Objectives

The constellation has several remote sensing applications for commercial, institutional and governmental use, including:



- Defence, security and crisis management
- Maritime monitoring – such as oceans protection
- Agriculture
- Urban planning – such as mapping, civil engineering and mobility
- Forestry
- Environment

Innovation

Pléiades Neo can be tasked at any time of the day and up to 15 minutes in advance. It has a revisit capability to any point on the globe at least twice daily

Data access

ESA offers access to Pléiades Neo data and to the OneAtlas Living Library subscription via the TPM programme earth.esa.int/eogateway/catalog/pleiades-neo-full-archive-and-tasking

