

# Galileo in place for launch

October 24 2017

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Galileos 21 and 22 being unloaded from their 747 cargo aircraft at Cayenne – Félix Eboué Airport in French Guiana on the evening of 17 October 2017.

Credit: ESA–P. Muller

Two more Galileo satellites have reached Europe's Spaceport in French Guiana, joining the first pair of navigation satellites and the Ariane 5 rocket due to haul the quartet to orbit this December.

Galileos 21 and 22 left Luxembourg Airport on a Boeing 747 cargo jet on the morning of 17 October, arriving at Cayenne – Félix Eboué Airport in French Guiana on the same day.

Resting within distinctive white air-conditioned containers, the satellites were driven to the cleanroom environment of the preparation building within the space centre.

Waiting for them there were Galileos 19 and 20, which arrived in September.

The four satellites will be launched together in mid-December by a customised Ariane 5, the elements of which reached French Guiana last month by sea.

Galileo is Europe's own [satellite](#) navigation system, providing an array of positioning, navigation and timing services to Europe and the world.

A further eight Galileo 'Batch 3' satellites were ordered last June, to supplement the 26 built so far.

With 18 satellites now in orbit, Galileo began initial services on 15 December 2016, the first step towards full operations.

Further launches will continue to build the constellation, which will gradually improve performance and availability worldwide.



Inside aircraft. Credit: ESA–P. Muller

Galileo is the EU's own global [satellite navigation](#) system, consisting of both the satellites in space and their associated ground infrastructure.

The definition, development and in-orbit validation phases were carried out by ESA, and co-funded by ESA and the European Commission. This phase created a mini constellation of four satellites and a reduced ground segment set up to validate the overall concept, ahead of further deployment.



Europe's Galileo navigation satellites orbit 23 222 km above Earth to provide positioning, navigation and timing information all across the globe. Credit: GSA

Provided by European Space Agency

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