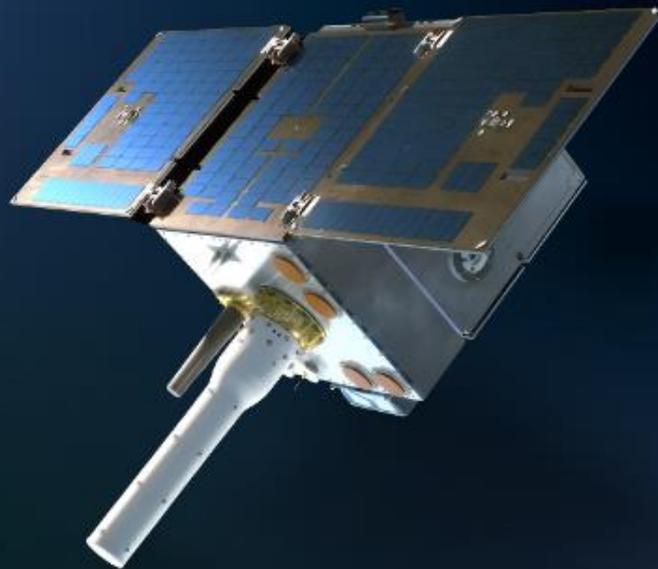


Two new launches, one step closer towards a full constellation

Within the next two months, two new satellites will be launched to complement the existing seven satellites of the Argos Legacy Constellation. A major step for Kinéis towards a full constellation dedicated to the Internet of things (IoT).



Two new Argos-4 launches pave the way to the 2023 Kinéis nanosatellites constellation.

On October 5th, the “HOPS” satellite, from the National Oceanographic and Atmospheric Administration (NOAA) will be launched from New Zealand to reach the low earth orbit and complement the already existing Argos 7-payload flying constellation.

Then in November 2022 it will be an Indian satellite, called OceanSat-3, that the Indian Space agency, the ISRO, will put into orbit for the benefit of the Argos community. Embedding CNES-made Argos-4 payloads, these satellites will improve the current data collection & localization services provided by Kinéis.

"I am very thankful to all the public agencies that worked hard to put in place the right international cooperation back in the years, so that we can today make sure that the whole user community can benefit from these two new Argos-4 payloads in orbit. This will grow the current connectivity system to 9 satellites, before our additional 25 nanosatellites that will be launched in 2023. The satellite IoT capabilities are getting better and better, opening the way too many new useful applications."



Alexandre TISSERANT,
CEO



Sophie COUTIN-FAYE,
Head of ARGOS project Office

"Indeed, thanks to our historical cooperation with NOAA and ISRO, these two new ARGOS missions will be able to significantly increase the capabilities of collecting data worldwide. This will be very helpful to better support various applications such as monitoring and protecting the Earth's oceans and wildlife" comments Sophie Coutin-Faye, the CNES Head of ARGOS project Office.

25% increase in daily coverage

These new payloads will reduce the revisit time by about 20%, before the launch in 2023 of the 25 Kinéis nanosatellites. On average, at the equator, the mean waiting time between two satellites passes will be reduced to 45 minutes, compared to 55 minutes today. This also greatly decreases the peak revisit time, from 6h now to 3h30 after these two launches. Overall, the daily coverage will be significantly improved, increasing by 25% the duration of the satellites visibility allowing to receive data.

A big step towards more capacity

This new chapter will also enable a significant increase in the overall system capacity. Additional onboard processing power and 9 times more frequency bands available will make a great step towards what the new constellation will bring in 2023. In addition, two new modulations open up the way for greater uplink transmission abilities, one dedicated to "very low power" applications (VLDA4), the other for higher Data Collection volume (HDA4), enabling an extended range from 120 bps up to 4800 bps.

The final sprint towards the full constellation

This improvement in service comes at a strategic time, during which Kineis' customers and partners will benefit from a better service, upgrading existing projects and paving the way for large-scale deployments. Along with new development possibilities, such as the recently announced partnership with STMicroelectronics, this major step will allow many new great projects to beacon alive. Then the future 25-nanosatellite additional constellation launched in 2023 will give satellite IoT a whole new world of possibilities.

About

Kinéis

Created in 2018, Kinéis is a satellite operator and global connectivity provider. It inherited 40 years of expertise in the Argos system, founded by CNES (French space agency) and historically operated by CLS (Collecte Localisation Satellites). Its mission is to develop reliable technology that provides easy access to useful satellite data. To make life easier for professionals and individuals and encourage them to use its products and services, Kinéis locates and connects objects wherever they are on the planet. Thanks to its technological innovation capabilities, Kinéis forges links between New Space and IoT and connects hundreds of customers with satellite IoT.



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