

# TECH FOR THE NEWSPACE REVOLUTION

## PRESS RELEASE

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### NEWSPACE FACTORY

**Unique solutions developed by the Newspace Factory group set to be orbited on 17 December from the Guiana Space Centre (CSG).**

*Flight VS-23 (Soyuz ST-B/Fregat M) – Launch scheduled 17 December (08:54:20 UTC) - Payloads: CSG-1/CHEOPS, ANGELS, EyeSat.*

**Hemeria's 12U spacecraft bus:** ANGELS (ARGOS Neo on a Generic Economical and Light Satellite), a 25-kg nanosatellite developed jointly with the French space agency CNES, is a demonstrator of a French commercial solution carrying an Argos-Neo location and data collection instrument. This demonstrator features a number of systems from the Newspace Factory group: **patch antennas from Anywaves, flight and ground software from CS Group, the power conditioning and distribution unit from EREMS and mechanical expertise from Mecano ID.** Some of these systems are also on the EyeSat 3U nanosatellite.

With this launch, the **Newspace Factory** group is enhancing its credibility with entrepreneurs through systems geared towards series production for future satellite constellations.

Qualification of these systems and the nanosatellite bus in space constitutes a first step, as several SMEs in the group are already working on a constellation of 25 satellites for KINEIS, paving the way for a new French space industry to make its mark in the global NewSpace arena.



#### Firms and systems contributing to the mission:



**ANYWAVES** is a spin-off from **CNES** and the first European start-up to emerge as a pure play antenna supplier for NewSpace. With its S-band TTC antennas from **ANYWAVES**, ANGELS will send its first signal back to Earth and connect the nanosatellite to assure its successful operation for years to come. **ANYWAVES'** ambition is to become the leader in small-form-factor antennas for NewSpace and critical systems.



[www.newspace-factory.com](http://www.newspace-factory.com)



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For the ANGELS mission, **CS GROUP** has developed an innovative and economical ground control segment optimized for nanosatellites. Called **CS NANO**, this product is configurable and reusable for all types of nanosatellites and constellations. **CS GROUP** is also contributing its expertise to assist integration and operation of the software on ANGELS.



**EREMS** has designed and developed in partnership with **CNES** an innovative radiation-hardened power conditioning and distribution unit. Called **PCDU NANO**, this product is built around a modular architecture geared towards the needs of nanosatellites in the 6U-to-27U class. **EREMS** also developed the embedded software based on an innovative algorithm that optimizes distribution of power from solar panels and the battery. The first flight model will be on the ANGELS mission.



**HEMERIA** is an SME active in two areas with high stakes, space and French deterrence. The company is very actively involved in developing the future of space, in particular by developing an innovative nano-satellite sector. From development to final assembly, the ANGELS nano satellite was designed in the Toulouse premises of **HEMERIA**, with a co-located project team **HEMERIA-CNES**.



**MECANO ID** was responsible for mechanical and thermal engineering, as well as environmental testing of the satellite on behalf of **HEMERIA**, and for fabrication and environmental testing of the S-band antennas for **ANYWAVES**.

## PRESS CONTACTS

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## ABOUT NEWSPACE FACTORY

Newspace Factory is a team initiative led by the **Aerospace Valley** competitiveness cluster that today counts **12 highly talented PMEs** in its ranks. Its goal is to fuel development of the **NewSpace** market through export actions and to boost the commercial satellite industry.

## ABOUT AEROSPACE VALLEY:

*Based in France, Aerospace Valley is world's first aerospace cluster, dedicated to the strategic sectors of Aeronautics, Space and Drones, in the Occitanie/ Pyrénées-Méditerranée and Nouvelle-Aquitaine regions. With its 5 excellency ecosystems – Embedded and Communicating Systems, Structures, Materials and Mechanical Systems, Propulsion and Embedded Energy, Data Engineering and Artificial Intelligence, Industry of the Future – Aerospace Valley drives a supportive, competitive and attractive community, aimed at fostering innovation in view of growth.*

*Ranking among the top three clusters for the performance of its cooperative R&T projects (among which 580 have already been financed), Aerospace Valley is in charge of animating a dynamic network of international reputation, composed of 850 members (companies, research laboratories, training centres, universities and schools, economic development structures). Since 2017, Aerospace Valley is chaired by Yann Barbaux, Senior Vice President of Airbus and former Head of Innovation at Airbus. More info on: [www.aerospace-valley.com](http://www.aerospace-valley.com)*



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