



**ANYWAVES**  
CONTROL MATERIAL TO MASTER WAVES

*Press release*  
*Toulouse (France), 12<sup>th</sup> December 2019*

## **Launch from Guiana Space Center on 17th December to put ANYWAVES into Orbit**

### **Inaugural mission for revolutionary, miniature antennas for nanosatellite sector**

**ANYWAVES**, a start-up company for the NewSpace sector, today announced that the launch on **17th December 2019** from the Guiana Space Center will enable ANYWAVES to secure the first flight heritage of its miniature and revolutionary antennas. Five ANYWAVES antennas will be on board the launcher, two antennas on the Angels (25kg - 12U) and three antennas on EyeSat (10kg - 3U) nanosatellites. Once this step is successfully completed, ANYWAVES will become the first European equipment supplier on the growing market for SmallSat antennas.

Created in April 2017 in Toulouse by its founder Nicolas Capet (former antenna Expert at CNES), ANYWAVES offers two antenna products for SmallSats: the S-band antenna for TTC links and the X-band antenna for payloads TM.

«We are the only pure player on the market for nanosatellite antennas in Europe» says Nicolas Capet, founder and CEO of ANYWAVES.

ANYWAVES' miniature and revolutionary antennas have a diameter less than 10cms and a thickness of around 1cm thanks to properties derived from metamaterials. They are designed to transmit information on the operational state of the satellite. The materials and processes used for assembly have proven space heritage based on CNES expertise (CNESADVANCE label).

The space segment market has long been structured by a HIGH TECH - LOW VOLUME dynamic serving ever more demanding missions. With the arrival of NewSpace, the new challenge for the space industry is to move towards a dynamic of NEW TECH - HIGH VOLUME. ANYWAVES has addressed this challenge by developing a new generation of antennas especially designed for NewSpace, with a standard delivery time of 3 - 5 months that can be converted into a 1-month delivery.

### **ANGELS space program**

ANGELS (ARGOS Neo on a Generic Economical and Light Satellite) is a nanosatellite jointly developed by CNES and the electronic equipment manufacturer Hemeria, which will carry a payload for localisation and collection of geo-satellite data. The ANGELS project gathers many of the Newspace Factory's industrial partners such as ANYWAVES, Hemeria, CS Group, Eremis, Mecano ID as well as other partners: SAFT, Spacebell and Steel.

For the ANGELS mission, start-up company ANYWAVES provided two units of its SmallSat S-band antennas, which operate simultaneously in transmission and reception. ANYWAVES antennas offer the best Half Power Beam Width ( $> 90^\circ$ ) on the market, which significantly improves the average throughput and budget link margins in satellite orbits.

### **JANUS space program (EyeSat)**

The JANUS space program is an astronomy mission which will enable studies of the zodiacal light and the milky way. On board, there will be new technologies to be tested in orbit and to be analysed jointly by CNES, members of Newspace Factory (ANYWAVES, Eremis) and the JANUS research field team (Jeunes en Apprentissage pour la réalisation de Nanosatellites au sein des Universités et des écoles de l'enseignement Supérieur).

Once the launch has been successful and the nanosatellite EyeSat has been put into orbit, ANYWAVES will acquire flight heritage with its miniature high-performance antennas in S and X bands, which will firmly cement its place in the NewSpace sector.

#### **Note to Editors:**

**Launch: 17th of December 2019 (08:54:20 TU)**  
**Vehicle: VS-23 (Soyuz ST-B/Fregat M),**  
**Payload: CSG-1/CHEOPS, Angels, Janus (EyeSat)**

### **About ANYWAVES**

ANYWAVES, CNES (French Space Agency) spin off created in 2017, develops revolutionary antennas for the satellites constellations market.

Based on a breakthrough technology and an expert team, ANYWAVES designs and manufactures according to space standards a new generation of high quality antennas, on demand or off-the-shelf.

Unique European « pure player » antenna equipment manufacturer, ANYWAVES has tripled its work force within two years and reached a 1-million euros turn-over in 2019.

Based in Toulouse, the European Space capital, the company aims at becoming the leader of miniature antennas for critical systems.

ANYWAVES is also one of the founding members of Newspace Factory, a collective hub of companies from the Aerospace Valley cluster which gathers 12 very talented French SMEs and through focused export activities aims to support the development of the New Space market and to stimulate growth of the industrial sector.

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