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## ANOTHER SUCCESS FOR ARIANE 5 TWO SATELLITES IN ORBIT FOR BRAZIL AND SOUTH KOREA

Colleferro, 5 May 2017 – Another successful launch for Ariane 5, which successfully put two new satellites into orbit this evening, one for Brazil and another for South Korea.

From the Space Centre in French Guiana, back to normal operations following the strike of recent weeks, Ariane 5 orbited the **SGDC geostationary satellite** for VISIONA Tecnologia Espacial S.A. of the Brazilian operator Telebras S.A., **to enhance Internet services in the area and for defence purposes**, and the **KOREASAT-7 satellite** on behalf of the South Korean operator ktsat, **to enhance Internet and TV services**.

Mission no.236 for the Ariane family concluded successfully after 37 minutes, with the perfect positioning of the satellites in the fixed orbit.

The mission started at 18:51 local time in Kourou, 23:51 in Rome.

Avio provides the solid propulsion engines and the liquid oxygen turbopump for the Ariane 5 launcher.

Avio's CEO Giulio Ranzo had the following to say: *"Once again our company has shown reliability and precision in its decisive contribution to European partners in the latest mission of the Ariane 5 launcher.*

*The successful performance of Ariane 5 place the European space industry in a leading position in the global launcher market. These results reward the work, skills and passion of our staff in Italy, France and French Guiana, and confirm Avio's leadership in the space industry".*

SGDC (Geostationary Satellite for Communications and Defence) is a satellite for a Brazilian government programme which has three key objectives:

- To reduce the digital divide in Brazil, providing internet services to the whole country
- To provide the Brazilian Government and defence with independence and security in strategic communications
- To acquire strategic technologies for the Brazilian space industry, enabling it to take on increasingly important roles in future Brazilian space programmes.

KOREASAT-7 is a satellite that will provide a full range of video and data applications, including internet access, domestic television services, government communications, and connectivity for specific networks.

For more information:

[www.avio.com](http://www.avio.com)

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## **Avio S.p.A.**

Avio is a leading international space launcher, spacecraft propulsion and space transport group. It employs over 760 people and has a total of 5 sites in Italy, France and French Guiana. In 2016, it generated approximately €292 million in revenue.

The Avio Group manufactures the Vega launcher, with its subsidiary ELV (30% owned by the Italian Space Agency) as prime contractor. This makes Italy one of the very few countries in the world able to produce a complete space launch vehicle.

Avio will build the new Vega C launcher and contribute to the new Ariane 6 launcher by providing the new solid engines and the Vinci and Vulcain liquid oxygen turbopumps. The new solid propulsion engine, currently named P120C, for the Ariane 6 European launch vehicle and the new, more powerful version of the Vega launcher will be developed and built by Europropulsion (J.V. 50% Avio, 50% ASL). To create this engine and the new Zefiro 40 engine (entirely developed, built and tested in Italy by AVIO and designed for the second stage of the Vega launch vehicle), a new composite material made of pre-impregnated carbon fibre will be used. It will be made directly by Avio in Italy, in its research centres in Colleferro (near Rome) and Airola (near Benevento).

Avio has many years of experience in the design and construction of solid and liquid propellant propulsion systems for space launch vehicles and tactical propulsion. Avio built the liquid oxygen turbopump for the Vulcain cryogenic engine, as well as the two lateral solid propellant engines for Ariane 5, the first stage of the Aster 30 anti-missile defence missile. To date, Avio solid propulsion has been used successfully in all of Ariane's launches (which number over 230 in total) and all of Vega's launches.

In the field of satellites, the Avio Group has built and supplied propulsion subsystems for ESA and ASI to put into orbit and control over 30 satellites, including most recently SICRAL and Small GEO.



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