

EARTH OBSERVATION SYMPOSIUM (B1)  
Interactive Presentations (IP)

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PERÚSAT-1: A DEVELOPMENT SUCCESS FOR QUICK PRACTICAL APPLICATIONS IN PERU

**Abstract**

The PeruSAT-1 VHR Earth Observation Satellite System was developed by Airbus Defence and Space for and in collaboration with CONIDA (Comisión Nacional de Investigación y Desarrollo Aeroespacial), the Peruvian Space Agency, within less than two years which is unrivalled for such a high performance system. The satellite was launched in September 2016 and the System was handed over at the beginning of December.

The PeruSAT-1 System features a VHR 0.7m resolution satellite, the associated control and image ground segment installed near Lima, the access to the Airbus Earth Observation Constellation (Spot-6 7, Pleiades 1A 1B, TerraSAR-X and Tandem-X) since the entry into force of the contract, the Customer Office Web interface allowing users to order and receive image products from both PeruSAT-1 and the Constellation, and, last but not least, a complete technology transfer and capacity building program.

This paper describes how the complete System was conceived and developed to build, within such a short period, through the cooperation between CONIDA and Airbus, a high level of knowledge in the space field in Peru for current and future applications and programme development, and to provide Peru with full autonomy to operate their own satellite.

The other important objective of the System development plan was to initiate in Peru the massive usage of space imagery and the development of applications before the launch of PeruSAT-1 to generate added value and return on investment as soon as the PeruSAT-1 System was declared operational.

As a demonstration of this development strategy, this paper focuses also on the usage of the satellite imagery in Peru through application examples after a few months of operation of the System.