

EARTH OBSERVATION SYMPOSIUM (B1)
International Cooperation in Earth Observation Missions (1)

Author: Ms. Tamara Montes
EADS CASA Espacio S.L., Spain, tamara.montes@airbus.com

SEOSAT/INGENIO MISSION: A SPANISH IMPLEMENTATION OF ASTROSAT-250 PRODUCT LINE

Abstract

With the goal to provide more performing and affordable space systems, EADS Astrium proposes a new generation product for LEO missions called AstroSat-250. It combines heritage with flexibility for customization. Through optimization of re-use, it helps to reduce program risk, to achieve reliable schedule and cost commitments and ensures high quality and robustness due to continuous application of proven solutions.

At present, AS250 is implemented on AstroTerra (SPOT-6/-7), SEOSAT/Ingenio of Spain and the Kazakhstan HR imaging satellite of KGS (Kazakhstan Gharysh Sapary), currently referred to as ERSSS (Earth Remote Sensing Space System).

This paper describes the implementation of AS250 on SEOSAT/Ingenio programme. The close relationships established between the AS250 product line developers (Astrium Satellites), the SEOSAT Prime (EADS CASA Espacio), the European Space Agency (in charge of technical and contractual management) and the Spanish Government (CDTI) are also presented; focusing on the co-engineering activities performed for adapting the AS250 product to the specificities of the mission.

The SEOSAT/Ingenio mission is the key of the Spanish observation system. It is a Spanish government initiative whose objective consists in promoting the space industry by developing the first Spanish optical earth observation satellite.

SEOSAT/Ingenio is devoted to providing high resolution multi-spectral land services in cartography, land use, agriculture and forestry mapping, water management, environmental monitoring, risk management and security for a period of at least 7 years after launch.