HOST - HELLAS SAT Offering in Satellite Communications

Applications: Satcom Network Systems and Services

"From now on, someone enjoying his holidays in a small beautiful island will be able to have a full broadband access to the internet from his portable computer at affordable prices."
Christos Papachristos, Manager, Communications Network, Hellas Sat S.A.

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PROJECT PARTNERS:

Avanti (UK)
Intracom (Greece)
Attisat (Greece)

PROFILE:

The HOST programme focuses on the development of the Hellas Sat commercial offering in end-to-end satellite telecommunication services for supporting the delivery of bi-directional (broadband) applications in Greece, the Balkans, SE Europe, and the Middle East.

Since its launch last May, Hellas Sat has received several requests for end-to-end satellite telecommunication service provision from a variety of potential customers for applications and generic services in the area of e-Government, e-Business, e-Inclusion/Digital Divide. Also, market data in the area of interest for Hellas Sat support the business case for such an end-to-end service provision.

In order to address this market and complete its basic offering of capacity for TV and occasional transmissions, Hellas Sat and its partners decided to develop an end-to-end satcom service able to HOST a wide range of applications. A range of Pilots will be performed within the project, addressing representative market segments.

The 'HOST Service Platform' will be based on DVB-RCS technology, which will support independent networks providing several kinds of applications within the Hellas Sat coverage. The DVB-RCS standard supports bi-directional broadband connectivity via satellite enabling services such as fast Internet access, intranet/VPN for secure connections, multicast and real time applications.

The forward link, from the central Hub, is based on the DVB-S/MPEG-2 data format and is capable of carrying information with bit rates up to 45 Mbps. At the receiving site, each SIT connected to the network is able to upload at up to typically 2Mbps per carrier in the return direction using a Multi Frequency-Time Division Multiple Access (MF-TDMA) scheme.

The DVB-RCS Multimedia Platform will use Hellas Sat 2 capacity.
During the initial stages of the HOST project, a number of pilot trials will be undertaken in the areas of tele-Education, tele-Medicine, e-government, Digital Divide and corporate networks (VPN).

esa **Telecommunications** Satellite Applications