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SYMPOSIUM ON INTEGRATED APPLICATIONS (B5)  
Integrated Applications End-to-End Solutions (2)

Author: Dr. Orietta Lanciano  
ASI - Italian Space Agency, Italy, orietta.lanciano@est.asi.it

Dr. Enrico Russo  
ASI - Italian Space Agency, Italy, enrico.russo@asi.it

INTEGRATED APPLICATIONS FOR THE EXPLOITATION OF SPACE SOLUTIONS TO RESPOND  
TO LOCAL, NATIONAL AND GLOBAL NEEDS: AN OVERVIEW ON THE ITALIAN PERSPECTIVE  
FROM THE ASI ACTIVITIES DRIVEN IN THE ARTES APPLICATIONS ENVIRONMENT.

**Abstract**

The Italian experience of Integrated Application activities as driven by the Italian Space Agency (ASI) in the ARTES (Advanced Research in Telecommunications Systems) Programme of the European Space Agency (ESA) environment is here discussed. The aim of ARTES is to transform research and development investment into successful commercial product and it respond to one of the ASI strategic goals to develop technologies in space telecommunications, both in its space and terrestrial elements, including the technologies for integrating space resources with the new generation of terrestrial networks. From 2008 ASI supports projects within the ARTES Applications Programme (ARTES 3-4 Satcom Applications and ARTES 20 Integrated Applications Promotion) which is dedicated to the development, implementation and validation of a wide range of innovative applications and services. In the last years, ASI has selected and financially supported the Italian Applications projects, covering a wide range of domains, like disaster/crisis monitoring and management, energy, food security, space situational awareness, transportation, health. They capitalize on the synergies between different data sources to provide the right information, in the right place, at the right time to the right user in a cost-effective manner. A relevant part of the activities are supported by ASI – Industries/SME, in a public-private partnership in a cost effective way. Following the ARTES project development guidelines, the innovation and sustainability of the solutions reached so far show a very high level of positive socio-economic impacts. The paper will provide an assessment of the key aspects that affect the outcomes of these applications projects and suggest a methodology to be taken into account to maximize the chance of successes.