

SpaceForScience - Multimedia and Communication Satellite Systems for Scientific Research and Education

Applications: Distance Learning



"SpaceForScience offers satellite telecommunication solutions specifically designed for the Scientific, Educational and Research institutions."

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PROJECT PARTNERS:

IBM (France)
UNESCO
C2 Consultants (France)

PROFILE:

SpaceForScience aims to facilitate scientific cooperation in Europe, especially in Southern and Eastern Europe, by providing virtual, collaborative working and education applications for research institutions, via fast academic networks and bi-directional DVB-RCS satellite links.

The goal of SpaceForScience project is to enable remote centres all over Europe to connect, meet, work, teach and learn whatever their geographical position, thus enabling isolated institutes to enter the cooperative research, education and technology transfer networks.

The solutions provided by the application platform are designed to support scientific use, offering content management facilities, portal services, network optimization and connectivity services, such as fast Internet access or secure connectivity and fast broadband access to academic backbones. Through a one-stop-shop system, users can also access specific e-education applications and interactive services, such as video conferencing, remote conferencing, collaborative working off-line and in real time.

The group of users, selected with the help of UNESCO, represents a variety of scientific communities, which will participate in the pilot step of the project, to use and evaluate the system in the context of their own particular scientific activities, within the following themes:

- Life sciences (molecular biology and genetics/ epidemiology/ plant biotechnology)
- Nanotechnology (solar, hydrogen, fuel cell energy conversion cycle)
- Information and communication technologies (security/ satellite/ signal processing/ GRID)
- Earth sciences (earthquake hazard mitigation).

SpaceForScience uses the latest IP and DVB-RCS satellite telecommunication standards, as space technologies are the perfect solution for complementing and extending an IP network infrastructure to provide high speed Internet access even to those located beyond the local, terrestrial DSL network.