

Earth-space networks link people around the world:



Satellite and ground-based communication – once separate technologies – are now integrated into hybrid networks using telephone, cable, wireless, Internet and satellite systems to meet communication needs around the world. Voice, data and video information is disseminated at high speeds through these networks.

A pioneer in breaking communications boundaries, the Center for Satellite and Hybrid Communications Networks at the University of Maryland conducts research in its state-of-the-art laboratories and testing center. Internet over satellites was first established, demonstrated and commercialized by this center, working with Hughes Network Systems engineers. Their work targets hybrid networks, making the different systems operate together seamlessly. • The center also develops sensor networks, military and commercial mobile ad hoc networks, network security, networks for health care, space exploration networks for communication and sensing, intelligent optical networks, hybrid RF and optical networks. The Department of Defense is a major partner, along with Telcordia, Lockheed Martin, Boeing, Viasat, IBM and Lucent.

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