



ISI

□ Integral SATCOM initiative

- An industry-led action forum designed to bring together all aspects related to satellite communications.
- ISI addresses broadcasting, broadband, and mobile satellite communications, as well as their convergence, in integration within the global telecommunication network infrastructure.
- ISI supports all forms of space communication and space exploitation.

□ ISI is a Technology Platform included in the seventh Framework Programme (FP7) of the European Commission.

□ ISI web page: <http://www.isi-initiative.eu.org/>





ISI – test and demos

- ❑ **ASMS TF (Advanced Satellite Mobile Systems Task Force) and ISI joined this year (after close co-operation)**
- ❑ **ASMS TF has produced a report on trials and testbeds related to SATCOM**
 - **Report on Trials and Demonstrations**
- ❑ **It contains an overview of demo activities on 24 past EU & ESA projects**
 - **Document started several years ago and finalized May 2006**
- ❑ **ISI offers these documents as an input to PANLAB**



ISI – test and demos

Abstract:

The current document provides an overview of available testbed configurations and satellite demonstrations and trials activities that have been conducted as part of EU and ESA R&D programmes or by ASMS-TF members, and aims to provide a consolidated picture in the area of Mobile Satellite Services (MSS). The document also provides an overview of the areas where satellite demonstrations and trials activities need to be further conducted in order to actively promote and secure the commercial future MSS systems and Services.

□ The document is available:

- [ISI web page](http://www.isi-initiative.eu.org/) (<http://www.isi-initiative.eu.org/>)
- Follow *ASMS-TF archive* on right, and choose *WG3*
- Report is titled "May 2006, WG3 Report on Trials and Demonstrations – version 2.2"



The following table specifies potential trials scenarios according to specific system classifications that will be proposed for inclusion in future calls.

System Scenarios	Broadcast & Multicast S-UMTS / S-DMB	2G-3G Coverage & Service Extensions	Ku/Ka Band Systems		Positioning Navigation	4G
			Broadband Access	Broadcast		
System	<ul style="list-style-type: none"> IMRs 					
Access	<ul style="list-style-type: none"> Dual Mode OFDM 	<ul style="list-style-type: none"> Smart Antennas 	<ul style="list-style-type: none"> Impact of Mobility for DVB-RCS/S2 	<ul style="list-style-type: none"> Proprietary Air Interface 		<ul style="list-style-type: none"> OFDM Software Defined Radio
Network	<ul style="list-style-type: none"> Reliable Transport 	<ul style="list-style-type: none"> Mobile IP – QoS IPv6 Mobility Mgmt 	<ul style="list-style-type: none"> RRM IP QOS 			<ul style="list-style-type: none"> TCP/IP for wireless networks Multi Mode Terminal use
Applications & Services	<ul style="list-style-type: none"> Info-mobility Coordination Mobile Teams Disaster Relief Digital TV 	<ul style="list-style-type: none"> Telemedicine Disaster Relief 	<ul style="list-style-type: none"> Voice Internet TV and Multimedia 	<ul style="list-style-type: none"> Personalized Multimedia Radio Car Firmware Updates 	<ul style="list-style-type: none"> Fleet Mgmt and Control Traffic Info Road Safety 	<ul style="list-style-type: none"> Seamless Service provisionin g in multi network segment environments
Integration	<ul style="list-style-type: none"> T-UMTS MBMS DVB-H 	<ul style="list-style-type: none"> T-UMTS 	<ul style="list-style-type: none"> W-LAN / WiMAX GPRS 	<ul style="list-style-type: none"> DVB-H 	<ul style="list-style-type: none"> Combined Communication functionalities 	
Market Segment	<ul style="list-style-type: none"> Mobile Personal 	<ul style="list-style-type: none"> Mobile Personal 	<ul style="list-style-type: none"> Vehicular Nomadic Ships /Trains/ Airplanes 	<ul style="list-style-type: none"> Vehicular Nomadic Ships /Trains/ Airplanes 	<ul style="list-style-type: none"> Mobile Personal Vehicular Aeronautical (ATM) 	<ul style="list-style-type: none"> Multiple Segments



ISI – test and demos

- It is expected that future SATCOM projects will include testbeds and demonstrations
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