

II. POVERTY ERADICATION

Action items in the Plan of Implementation (A/CONF.199/20, Resolution 2)		Relevant space applications	Space-related initiatives and programmes that could support the implementation of the action		Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
7(f)	Deliver basic health services for all and reduce environmental health threats, taking into account the special needs of children and the linkages between poverty, health and environment, with provision of financial resources, technical assistance and knowledge transfer to developing countries and countries with economies in transition	Remote Sensing (RS) and geographical information systems (GIS), global navigation satellite systems (GNSS), satellite communications for tele-health	CNES, MEDES, CLS, CONAE, French and African hospital centres, Airbus Industrie, Pasteur Institute (France), INRA, CEA	Teleconsultation programme in Guyana and the Arctic on board airline-operated aircraft	
				Tele-epidemiology programme in Senegal, Argentina, Guyana, Mali and Burkina Faso. "Projet S2E migrants": space surveillance of epidemics introduced by migrating birds. Data collection using Argos beacons	
			Communications and systems satellites, Praxim - CNES (France)	Surgical multimedia maintenance and assistance service (SMMAC)	
			ELTE Geophysics Department (Hungary)	Yielding estimations and observations of vegetative cover	
			ESCAP	Regional Space Applications Programme for Sustainable Development in Asia and the Pacific (RESAP)	http://www.unescap.org/icstd/SPACE/resap/resap_main.asp
			SUPARCO, Federal/Provincial Ministries of Health, UNICEF/WHO	SUPARCO is planning to facilitate by connecting big hospitals in Pakistan with health facilities in the rural areas.	
7(g)	Ensure that children everywhere, boys and girls alike, will be able to complete a full course of primary schooling and will have equal access to all levels of education	Satellite communications for tele-education	CNES, French, Indian and Tunisian universities and ministries of education and research	Satel-IT project French Medical Virtual University French-Indian Cyber-University in Sciences (FICUS)	
			UNESCO, CNDP, CNES	European Distance Education Network (EDEN)	
			CRDP, ENSG, ESRI France, Cartosphere, Afigeo (France)	GEWED project, web site providing geographical data and GIS for teachers, trainers and students	
			ESCAP	Regional Space Applications Programme for Sustainable Development in Asia and the Pacific (RESAP)	http://www.unescap.org/icstd/SPACE/resap/resap_main.asp

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				ESCAP-APSCC meeting on cooperation on satellite broadband services and applications, March, 2003, Bangkok, Thailand	
			SUPARCO, Federal/Provincial Ministries of Education, UNICEF	SUPARCO is planning to facilitate by connecting Universities/Vocational Training Centers in Pakistan with Boys and Girls Schools/Colleges in the rural areas.	
7(j)	Transfer basic sustainable agricultural techniques and knowledge, including natural resource management, to small and medium-scale farmers, fishers and the rural poor, especially in developing countries, including through multi-stakeholder approaches and public-private partnerships aimed at increasing agriculture production and food security	RS, GIS and GNSS for natural resources management (land, fish)	MétéoFrance – CETP – GEOSYS - AFEID	CITRAM irrigation advisory project. Irrigation management, soil water determination.	
			INRA - CNRM - Météo-France-Astrium-SCOT (Satellite Communications on Board Terminal) (France)	APOGEE project for land use planning assistance at regional level.	
			Astrium – INRA - GEOSYS (France)	AGROCOM project for optimum maize cultivation.	
			ITCF – GEOSYS (France), Ministry of Research and New Technologies (France)	SADAISI project, access by farmers to satellite images direct from the Internet.	
			CIRAD - AMIS - SPOT Image (France)	SUCRETTE project: sugar cane remote sensing monitoring system.	
			CNES, Astrium, SCOT (France)	FARMSTAR, providing advice on optimum crop management through intra-plot variability (precision agriculture).	
			CNES, Bayer (France)	Crop Vision Project for precision agriculture.	
			ESCAP	Regional Space Applications Programme for Sustainable Development in Asia and the Pacific (RESAP)	http://www.unescap.org/icstd/SPACE/resap/resap_main.asp
				Ad hoc Expert Group Meeting on Policies for promoting and Integration of Space Applications for Poverty Alleviation, August 2003, Bangkok, Thailand	

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			SUPARCO, Agriculture Deptt., Sindh Forest Deptt.	Use of modern technology for monitoring and pre harvest assessment of crops. Baseline study of Kacho areas of Sindh for uplift and Development	
7(l)	Combat desertification and mitigate the effects of drought and floods through measures such as improved use of climate and weather information and forecasts, early warning systems, land and natural resource management, agricultural practices and ecosystem conservation in order to reverse current trends and minimize degradation of land and water resources, including through the provision of adequate and predictable financial resources to implement the United Nations Convention to Combat Desertification in Those Countries Experiencing Serious Drought and/or Desertification, particularly in Africa, as one of the tools for poverty eradication;	RS and GIS, meteorological satellites for mitigation of the effects of drought and floods	ELTE Geophysics Department (Hungary)	Satellite data processing (HRPT)	
			Hungarian Meteorological Service	Flood forecasting and management	
			CNES and Belgian, Swedish and Italian space agencies and the European Commission	SPOT vegetation instrument for observation of crops and continental biosphere	
			Ministry of Research and New Technologies (France), Alcatel Space, Astrium, Cemagref, MétéoFrance, BRGM (France), IMFT, MSI, SCOT, SPOT Image, Adage (France)	PACTES project: flood prediction and prevention using space technology	
			FAO	Global Information and Early Warning System (GIEWS), which uses the Advanced Real Time Environmental Monitoring Information System (ARTEMIS)	http://www.fao.org/giews/english/index.htm , http://geoweb.fao.org
				Southern African Development Community (SADC) Regional Remote Sensing Unit with the use of ARTEMIS	www.sadc.int , http://metart.fao.org
			ESCAP	Regional Space Applications Programme for Sustainable Development in Asia and the Pacific (RESAP)	http://www.unescap.org/icstd/SPACE/resap/resap_main.asp
	Study on the framework of regional cooperative mechanisms supporting disaster management using space technology				
	UNESCO	Cross-cutting project "Application of Remote Sensing for Integrated Management of Ecosystems and Water Resources in Africa"	http://ioc.unesco.org/goos/africa/cross-cutting.htm		

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				IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/goos/africa/ROOFS-AFRICAPROject2003.doc
			WMO	Hydrology and Water Resources Programme	http://www.wmo.ch/web/homs/1stpage.html
				World Climate Programme	http://www.wmo.ch/web/wcp/wcp-home.html
			SUPARCO, Agriculture deptt.	Applications of Earth Observation Satellite and Meteorological satellite data	
8	... we agree to halve, by the year 2015, the proportion of people who are unable to reach or to afford safe drinking water (as outlined in the Millennium Declaration)...	RS and GIS for water resources management	BRGM, CLS, AETS, Ministry of Research and New Technologies (France)	RESSOURCE: Project to use space telecommunications for water data collection.	
			ASI	COSMO-SkyMed Programme for monitoring and managing marine and inland waters. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			ESCAP	Regional Space Applications Programme for Sustainable Development in Asia and the Pacific (RESAP)	http://www.unescap.org/icstd/SPACE/resap/resap_main.asp
			UNESCO	Cross-cutting project "Application of Remote Sensing for Integrated Management of Ecosystems and Water Resources in Africa"	http://ioc.unesco.org/goos/africa/cross-cutting.htm
				IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/goos/africa/ROOFS-AFRICAPROject2003.doc
			SUPARCO	Identification of surface water resources and their conservation through SRS data.	
20	Promote an integrated approach to policy-making at the national, regional and local levels ..., To promote sustainable	RS and GIS for integrated land and resource management/ Study	ESA and Geoville (Austria)	Project in support for the Water Framework Directive and the Soil Protection Initiative.	

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	development, including policies and planning for land use, infrastructure, public transport systems and goods delivery networks...., limiting urban sprawl, taking into account national priorities and circumstances.	on Earth Observation Applications for Sustainable Development			