ICT Applic ation Name	Description	Observation	Analysis	$\times$ Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
Jal- Chitra	Jal-Chitra was a PC-based tool for helping rural communities manage their water resources. It created an interactive water-map of the village in order to enable the community to keep records of the amount of water available from each water source and could record water quality testing, lists of maintenance work done and required, estimates of water demand, and could generate future monthly water budgets (based on past records). The interface was available in Hindi and the project was promoted in Rajastan in 2000.			×	X			Ajit Foundation Mr. Vikram Vyas Tilonia Barefoot College	Indi a	20 00 - 20 04	http://www.irc. nl/page/13322	http://www.indi atogether.org/ 2004/jun/wom- onevill.htm  http://www.gis development.n et/application/n rm/water/groun d/mi03240.htm  http://www.gis development.n et/application/e nvironment/ov erview/envo00 03pf.htm  http://www.ciol. com/cchange/ 2007/article12. asp
WATE X	WATEX is a proprietary groundwater exploration process used to locate renewable groundwater reserves in arid and semi-arid environments.  Application in Darfur to assess water supply risks and mitigation methods in response to refugee migration.	X	X			X		Radar Technologie s France (RTF) Alain Gachet  Firoz Verjee SEAS Doctoral Fellow & Research Associate Institute for Crisis, Disaster & Risk Managemen t The George Washington University	Afri ca Dar fur	20 04 - Ac tiv e	http://www.rad ar- technologies.c om/	http://www.gis development.n et/application/n rm/water/surfa ce/me05 100a .htm
DEWS	Distant Early Warning System for Tsunamis scheduled for completion in 2010.	X						SAAB  Jan Larsson  Funded by EC	Asi a Pa c	20 06 - 20 10	https://project place.com/pub /english.cgi/0/ 174344712?o p=pm&o=Publ icwebExternal overview&ta b=PublicwebE xternal overvi ew&m=pubwe b	
SHAR E	S H A R E is one of the European Space Agency's DUE Tiger projects. SHARE aims	Х	Х		X			European Space Agency	Afri ca	?	http://www.ukz n.ac.za/sahg/s hare/	http://dup.esrin .esa.it/projects/ summaryp77.a sp

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	at enabling an operational soil moisture monitoring service for the region of the Southern African Development Community (SADC). With this service SHARE will address one of today's most severe obstacles in water resource management which is the lack of availability of reliable soil moisture information on a dynamic basis at a frequency of a week and less.								A.C.:			
ESA Tiger	Following the 2002 Johannesburg World Summit on Sustainable Development, the European Space Agency has launched the TIGER Initiative - focusing on the use of space technology for water resource management in Africa and providing concrete actions to match the Resolutions. There are currently 64 separate projects listed under the ESA tiger initiative (See "Other Web References" for complete listing)	X	X	X	X		X	ESA	Afri ca	20 02 - Ac tiv e	http://www.tig er.esa.int/	http://www.tige r.esa.int/projec tlist.asp?by=all
Nature Serve	Conservation and biodiversity web site bringing together a wide variety of data in the US, Canada and Latin America.		X	X				The Nature Conservanc y	Nor th and Lati n Am eric a		http://www.nat ureserve.org	
Dyvine	The DYVINE project focuses on integration of thousands of mobile and fixed video sensors to support the Risk Management Cycle and development of the associated communications network.	х	X					Philippe CHROBOCI NSKI, EADS DS SAS EC Funding	Eur ope	20 06 -	ftp://ftp.cordis. europa.eu/pub /fp7/ict/docs/s ustainable-gro wth/fp6-fact- sheet- dyvine en.pdf http://www.dyv ine.eu/	
APNE E-TU	Air pollution monitoring system that reports air pollution conditions to users according to					Х		EC FP5	Eur ope	20 02 - 20		

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	technology preferences in specific countries. For example in France the system used a voice retrieval (pull) system, whereas in Norway the system was an SMS based (push) system. Users paid for these services as part of either one-time charges or premium service bundles									04		
ADA	Advanced Distributed Architecture for telemonitoring services Air pollution and noise	X						EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5_en.html	
APNE E	Air Pollution Network for Early warning and on-line information exchange in Europe Air pollution and noise	X				X		EC FP5	Eur ope	20 00 - 20 01	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
BLUE WATE R	Computerized video camera image analysis for monitoring water pollution	Х						EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
COAS TBAS E	The Virtual European Coastal and Marine Data Warehouse - CoastBase- An open system architecture for integrated, distributed coastal and marine information search and access Marine and coastal zone, oil spills, algal blooms	X	X					EC FP5	Eur ope	20 00 - 20 01	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
DESTI NY	Decision support system for local sustainable development based on eco-budget methodology DSS sustainable development			X				EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
DISMA R	Data Integration System for MARine pollution and water quality Marine and coastal zone, oil spills, algal blooms		Х					EC FP5	Eur ope	20 02 - 20 05	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5_en.html	
EDEN IW	Environmental Data Exchange for Inland Water Flood and inland water pollution		Х					EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us-	

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	cti ve D at es	Primary Web Reference	Other Web References
EGSO	European Grid of Solar Observations Solar Observation	X						EC FP5	Eur ope	20 02 - 20 05	fp5 en.html http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
EURO CLIM	European Climate Change Monitoring and Prediction System Climate change prediction	Х	Х					EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
FORE MMS	Forest environmental monitoring and management system Disaster prevention and emergency management	Х	Х		Х			EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5_en.html	
GIMMI	Geographic Information and Mathematical Models Interoperability Flood and inland water pollution		Х					EC FP5	Eur ope	20 02 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
HARM ONOIS E	HARMOnised, accurate and reliable prediction methods for the EU directive on the assessment and management of environmental NOISE Air pollution and noise		Х					EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
HEAV EN	Healthier Environment through Abatement of Vehicle Emission and Noise Air pollution and noise					Х		EC FP5	Eur ope	20 00 - 20 03	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
ICARO S	NET Integrated Computational Assessment of urban air quality via Remote Observation Systems NETwork Air pollution and noise	Х						EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
I- MARQ	Information system for Marine Aquatic Resource Quality Marine and coastal zone, oil spills, algal bloom	Х						EC FP5	Eur ope	20 02 - 20 05	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
IMPAC T	Estimation of human IMPACT in the presence of natural fluctuations Environmental management	X						EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
INTAI RNET	Intelligent Air Monitoring Network Air pollution and noise	Х	Х					EC FP5	Eur ope	20 00 -	http://cordis.e uropa.eu/fp7/i ct/sustainable-	

ICT Applic ation	Description	tion			ment	5	Capacity Building	Sponsor /	Re gio	A cti ve D	Primary Web	Other Web
Name		Observation	Analysis	Planning	Management	Mitigation	Capacity		n	at es		
										20 02	growth/previo us- fp5 en.html	
ISIS	Intelligent Systems for humanitarian Geo- InfraStructure Humanitarian intervention	X	Х	Х				EC FP5	Eur ope	20 02 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
IWICO S	Integrated Weather, Sea Ice and Ocean service system Marine information system						X	EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
MERM AID	Marine Environmental Response Data Management and Acquisition using Internet data brokerage Marine and coastal zone, oil spills, algal blooms	X	X		X			EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
MINE O	Assessing and Monitoring the environmental Impact of mining activities in Europe using advanced Earth Observation techniques Mining impact	Х	Х					EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
ODIN	Geographic Distributed Information Tools and Services for the Mobile Information Society	X						EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
OSIRI S	Operational Solutions For The Management Of Inundation Risks In The Information Society Flood and inland water pollution			Х	X			EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
RAMF LOOD	Decision support system for Risk Assessment and Management of FLOODs Flood and inland water pollution			Х	Х			EC FP5	Eur ope	20 03 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
RAPS ODI	Remote sensing Anti- Pollution System for geographical Data Integration Marine and coastal zone, oil spills, algal blooms	X						EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
SEWI NG	System for European Water monitorING Flood and inland water pollution	X						EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
SISCA L	Satellite-based Information System on Coastal Areas and Lakes Marine and coastal zone, oil spills, algal blooms	Х						EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5_en.html	
SODA	Integration and exploitation of networked solar radiation Databases for environment monitoring Environmental monitoring of solar radiation	X	X					EC FP5	Eur ope	20 00 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
SUMA RE	Survey of Marine Resources Marine and coastal zone, oil spills, algal blooms	Х						EC FP5	Eur ope	20 00 - 20 03	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
TEAS E	Telematics Architecture Study for Environment and security Disaster prevention and emergency management	Х		Х	Х			EC FP5	Eur ope	20 01 - 20 02	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
TELE MAC	TELEMonitoring and Advanced teleControl of high yield wastewater treatment plants Waste water treatment	Х			Х			EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
VIRTU @LIS	Social Learning on Environmental issues with the Interactive Information and Communication Technologies Learning tools						Х	EC FP5	Eur ope	20 01 - 20 04	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp5 en.html	
DEWS	Distant Early Warning System Tsunami Early Warning and Alert	Х						EC FP6	Eur ope	20 07 - 20 10	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
EU- FIRE	Innovative optoelectronic and acoustic sensing technologies for large scale forest fire long term monitoring Environmental Monitoring and Sensor Web	Х	Х		X			EC FP6	Eur ope	20 06 - 20 09	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
ERMA	Electronic Risk Management Architecture For Small And Medium Size Communities Shared Information Space and Services		Х	X	Х			EC FP6	Eur ope	20 06 - 20 08	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
INTAM AP I	NTeroperability and Automated MAPping Shared Information Space and Services		X					EC FP6	Eur ope	20 06 - 20 09	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
S@NY	The SANY integrated project focuses on interoperability of in-situ sensors and sensor networks Environmental Monitoring and Sensor Web	X						EC FP6	Eur ope	20 06 - 20 09	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
SCIER	Sensor & Computing Infrastructure for Environmental Risks Environmental Monitoring and Sensor Web	Х	Х					EC FP6	Eur ope	20 06 - 20 08	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
STRE AM	Technology to Support Sustainable Humanitarian Crisis Management Humanitarian Intervention and Demining			X	X			EC FP6	Eur ope	20 04 - 20 08	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
WARM ER	Water Risk Management In Europe Environmental Monitoring and Sensor Web	Х	Х					EC FP6	Eur ope	20 06 - 20 09	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
WIN	Wide Information Network Shared Information Space and Services		Х					EC FP6	Eur ope	20 04 - 20 07	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
WINS OC	Wireless Sensor Networks with Self- Organization Capabilities for Critical and Emergency Applications Environmental Monitoring and Sensor Web	X				X		EC FP6	Eur ope	20 06 - 20 09	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
WISE COM	Wireless Infrastructure Over Satellite For Emergency Communications Public Safety Communication	Х				Х		EC FP6	Eur ope	20 06 - 20 08	http://cordis.e uropa.eu/fp7/i ct/sustainable- growth/previo us- fp6 en.html	
GMFS	GLOBAL MONITORING FOR FOOD SECURITY provides early warning, agricultural mapping and crop yield assessment services in	Х	Х				Х	ESA	Glo bal	20 04 - C ur re nt	http://www.gm fs.info/	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	support of food security monitoring activities in Africa. GMFS partners with key actors in the sector at the international (EC and UN), regional (Regional Economic Communities or key institutes) and national level (Ministries of Agriculture or national Food Security Monitoring groupings). At national level GMFS Activities focus on .Ethiopia, Sudan, Senegal, Zimbabwe, Mozambique and Malawi.											
SAHIM S	Interactive Atlas for tracking Human Development. Limited environmental factor consideration		Х				X	SAHIMS NGO	So uth ern Afri ca	20 03 -	http://www.sa hims.net/gis/G is%20Input/M AP library Re gional.asp	
Bantay Usok	website for reporting "smoke belcher" cars in the Philippines.	X				X	X	Philippines Government and ABS-CBN	Phil ippi nes	20 00 - 20 02	http://www.lto. gov.ph/news0 82302.html	
Kiunga Marine Protect ed Area	Project to monitor mangroves in Kiunga MPA in Kenya using GIS systems	Х	Х	Х	X			KWS	Ke nya	20 03	http://www.yal e.edu/tri/pdfs/ bulletin2005/0 73Bull05- Soud.pdf	
Awher e-ACT	Awhere-ACT, a user-friendly geographical information systems (GIS) tool, is helping farmers and scientists in Africa to combat pests such as stem borers and the cassava green mite.	X			X			Mud Springs Geographer s, Inc. International Maize and Wheat Improvemen t Centre (CIMMYT)	Afri ca	20 03	http://ictupdat e.cta.int/en/fe ature articles/ awhere act p redicting pest outbreaks in africa	
TADInf o	Tool for tracking and monitoring animal disease outbreaks.	X		X	X			FAO	Afri ca	20 04	http://ictupdat e.cta.int/en/fe ature articles/ tadinfo an inf ormation syst em for anima I health	
PIER	Pacific Islands Ecosystems at Risk listings and descriptions of plant species that threaten ecosystems of the Pacific islands. Also listed are many other invasive and potentially	Х					Х	US Department of Agriculture - Forest services.	Pa cifi c Isla nds	20 05	http://www.he ar.org/pier/	

ICT Applic	Description	ion			nent	_	Capacity Building	Sponsor /	Re gio	A cti ve	Primary Web	Other Web
ation Name	·	Observation	Analysis	Planning	Management	Mitigation	Capacity	Owner	'n	D at es	Reference	References
	invasive plant species present in and around the Pacific region.											
Trees For Tomorr ow	The goal of the project is to improve the management and conservation of the forests and tree crops for the benefit of the people of Jamaica. Project activities help to strengthen institutional capabilities within the forestry sector to plan and implement sustainable forest management and to improve land use in Jamaica's watersheds.	X		X	X		X	Govt. of Jamaica	Ja mai ca	20 01 - 20 07	http://www.cid a.gc.ca/CIDA WEB/cpo.nsf/ vWebProjByS ectorEn/1B2B 19A616A0D52 2852572F700 370438	http://www.jis.g ov.jm/agricultu re/html/200701 25T110000- 0500 11093 J IS 12 YEAR TREES FOR TOMORROW PROJECT CO MES TO A C LOSE.asp
CARP E	A consortium of government and NGO partners, CARPE aims to ensure that African decision-makers have access to, and the capacity to use, information critical to natural resources management (NRM). To a large extent, this information comes in the form of Landsat satellite-derived maps that can be continuously updated using geospatial databases.	X					X	USAID University of Maryland	Afri ca - Co ngo	Ac tiv e	http://carpe.u md.edu/	http://ictupdate .cta.int/en/feat ure articles/ca rpe mapping central african forest resour ces by satellit e
GemSt at	GEMStat is designed to share surface and ground water quality data sets collected from the GEMS/Water Global Network, including over 2,700 stations, two million records, and over 100 parameters.	X	X				X	UN GEMS	Glo bal	Ac tiv e	http://www.un ep- wcmc.org/post ers/ESRI Con ference/mangr ove v91.pdf	
SMS Comm unities	It uses an internet-based SMS platform (SMS Malls) to send messages to community members inviting them to attend meetings with park staff, or special events. This builds on existing methods of communication (including expensive landline telephone and face-to-face meetings)					X	X	t4cd Kruger National Park	So uth Afri ca	Ac tiv e	http://www.t4c d.org/Projects/ Current%20Pr ojects/Pages/ SMSCommuni ties.aspx/	

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	and has been well received by the local people.											
World Weath er Watch	To predict the weather, modern meteorology depends upon near instantaneous exchange of weather information across the entire globe. Established in 1963, the World Weather Watch -the core of the WMO Programmes-combines observing systems, telecommunication facilities, and data-processing and forecasting centres operated by Members to make available meteorological and related environmental information needed to provide efficient services in all countries.	X	X	×				OMW	Global	Ac tiv e si nc e 19 63	http://www.wm o.int/pages/pr og/www/index en.html	
Geo Data Portal	The GEO reporting process is based on sound empirical analysis and the contributions of a global network of partners. It thus requires having readily at hand - meaning, via the Internet and off-line - a wide range of statistical and geo-spatial data sets that meet as much as possible the following requirements: - offering world-wide coverage, but with data at the national level; - characterised by harmonised data values, collection units and definitions; - available for every year since 1970 to coincide with the GEO "retrospective" period; - freely and easily accessible to GEO contributors and broader user community; and - offering aggregated values for the sub-	X	X					UNEP	Global	20 01 - Ac tiv e	http://earthwat ch.unep.net/d ata/geodata/in dex.php/	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	regional, regional and global levels.			_		_						
Global Runoff Data Centre (GRD C)	The WMO digital world-wide repository of discharge data and associated metadata focusing the multifaceted world of global river discharge data for the sake of key research linking local and global change issues.	X						WMO	Glo bal	19 95 - pr es en t	http://grdc.baf g.de/servlet/is/ Entry.987.Dis play/	
SERVI	A regional visualization and monitoring system for Mesoamerica that integrates satellite and other geospatial data for improved scientific knowledge and decision making by managers, researchers, students, and the general public. SERVIR addresses the nine societal benefit areas of the Global Earth Observation System of Systems (GEOSS): disasters, ecosystems, biodiversity, weather, water, climate, oceans, health, agriculture, and energy. For example, SERVIR can be used to monitor and forecast ecological changes and severe events such as forest fires, red tides, and tropical storms.	X	×	×	×			NASA, CATHALAC, USAID, the Central American Commission for Environment and Developmen t (CCAD), the World Bank, the Nature Conservanc y, and the United Nations Environment al Programme (UNEP- ROLAC) and IAGT.	Lati n Am eric a	Ac tiv e	http://servir.ns stc.nasa.gov/	
P3DM for "Collab orative Protect ed Area Manag ement"	The combination of GIS with 3D modeling to map out protected areas in the Philippines. Use of Participatory 3D Modeling	X			X			IAPAD	Phil ippi nes	19 98 - 20 07	http://www.iap ad.org/applicat tions/applicati on 01.htm/ http://www.iap ad.org/applica tions/protecte d_areas/nnnp. htm/	
Catalo gue of Life	The Species 2000 & ITIS Catalogue of Life currently have cross-references to half the documented global species from 47 taxonomic databases from around the world. Species 2000 and ITIS teams peer review	X					X	ITIS	Glo bal	20 00 - 20 11	http://www.cat alogueoflife.or g/	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	databases, select appropriate sectors and integrate the sectors into a single coherent catalogue with a single hierarchical classification. It is planned to introduce alternative taxonomic treatments and alternative classifications, but an important feature is that for those users who wish to use it, a single preferred catalogue, based on peer reviews, will continue to be provided.											
VASA T Resear ch Project	Use of remote sensing and GIS tools for village-level drought vulnerability assessment in Addakkal Region, AndhraPradesh	Х		Х				VASAT	Indi a		http://www.icri sat.org/vasat/r esearch/gis.ht m/	
Dry- Net site	Due to current climatic changes and destructive land use, land is degrading faster than ever, increasing the surface area of drylands and deserts around the globe. Fourteen civil society organisations from all over the world have started working together to combat land degradation in an EUfunded project called Drynet.	X	Х				X	EU	Glo bal		http://www.dry - net.org/index. php?page=3/	
Europe an Flood Alert Syste m	An organization with modeling and reporting tools for flood warning in Europe	X	X	X				EU	Eur ope	19 98 - Ac tiv e	http://efas.jrc.it	
Desurv ey	Understanding of desertification in a systemic and dynamic way. Assessing desertification and land degradation status, including diagnosis of driving forces, discrimination between current and inherited desertification, and identification of	X	Х	X			Х	EU FP7	Glo bal	20 06 - Ac tiv e	http://www.de survey.net/	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	desertification hot spots. Forecasting of desertification under selected climatic and socio-economic scenarios. Monitoring of desertification and land degradation status over large areas using objective and reproducible methods. Bridging the gap between the knowledge generated by the project on the processes underlying desertification and the practice of formulating policy to detect, prevent and resolve desertification risks. The system is intended to be used at several temporal and spatial resolutions by national and regional environmental and agricultural authorities, such as the European Union (EU), the United Nations Convention to Combat Desertification (UNCCD) and local consortia of stakeholders in risk-affected districts.											
Famin e Early Warnin g Syste m (USAI D)	The Goal of the Famine Early Warning Systems Network (FEWS NET) is to strengthen the abilities of African countries and regional organizations to manage risk of food insecurity through the provision of timely and analytical early warning and vulnerability information. FEWS NET is a USAID-funded activity that collaborates with international, national, and regional partners to provide timely and rigorous early warning and vulnerability information on emerging or evolving	X	X	X	X	X	X	USAID	Afri ca	O n- go in g	http://www.few s.net/imagery/ ?pageID=ima geryAbout/	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	food security issues.					_						
	FEWS NET professionals in the US and Africa monitor various data and information—including remotely sensed data and ground-based meteorological, crop and rangeland conditions—as early indications of potential threats to food security.											
	FEWS NET also focuses its efforts on strengthening African early warning and response networks. Activities to do this include capacity development, network building and strengthening, developing policy useful information, and forming consensus about food security problems and solutions.											
GEOS S	The intergovernmental Group on Earth Observations (GEO) is leading a worldwide effort to build a Global Earth Observation System of Systems (GEOSS) over the next 10 years.  GEOSS will work with and build upon existing national, regional, and international systems to provide comprehensive, coordinated Earth observations from thousands of instruments worldwide, transforming the data they collect into vital information for society.	X	X					GEO	Glo	20 05 - 20 10	http://www.ear thobservations .org/index.htm //	
Conser vation GeoPo rtal	The Conservation Geoportal is a collaborative effort by and for the conservation community to facilitate the discovery and publishing of						X	NGO with partners:	Glo bal	Ac tiv e	http://www.co nservationma ps.org/index.js p	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	geographic information systems (GIS) data and maps, to support conservation decision-making and education. It is primarily a data catalog, intended to provide a comprehensive listing of GIS data sets and map services relevant to biodiversity conservation. The Conservation Geoportal does not actually store maps and data, but rather the descriptions and links to those resources, known as "metadata."											
Elevati on maps - CGIAR -CSI SRTM 90m DEM Databa se	The CSI is a loosely structured consortium comprised of members which include all of the sixteen CGIAR Centers, plus several Associate Members. A coordinating center (currently IWMI) and a steering committee elected by all the members, direct activities on a 2-year rotating basis. The participating centers have identified six areas of high priority and common interest to the CGIAR/GIS community.						X	Consortium	Glo bal	Ac tiv e	http://srtm.csi. cgiar.org/	
Forestr y Audit - TracEli te	Forestry GIS (fGISTM) is a compact but robust shapefile editing program, digitizer and GIS data query tool for Windows®. fGIS was designed for natural resource managers who are not GIS specialists. It's easy-to-use and simple to install. Many power users also like fGIS because they can run it on laptops or home computers without copyright issues, it produces data compatible with commercial GIS programs, and fGIS is		Х	х	X		X			20 03 - 20 05	http://www.for estpal.com/fgi s.html	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at	Primary Web Reference	Other Web References
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GIS - Quant um	free.  Quantum GIS (QGIS) is a user friendly Open Source Geographic Information System (GIS) that runs on Linux, Unix, Mac OSX, and Windows. QGIS supports vector, raster, and database formats. QGIS is licensed under the GNU General Public License. QGIS lets you browse and create map data on your computer. It supports many common spatial data formats (e.g. ESRI ShapeFile, geotiff). QGIS supports plugins to do things like display tracks from your GPS. QGIS is Open Source software and it's free of cost (download here). We welcome contributions from our user community in the form of code contributions, bug fixes, bug reports, contributed documentation, advocacy and supporting other users on our mailing lists and forums. Financial contributions are also		X	4	<u> </u>	4	<u>5</u> ×	Private	Global	Ac tiv e	http://www.ggi s.org/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS base maps - Global Land Cover Facility	welcome.  The Global Land Cover Facility (GLCF) provides earth science data and products to help everyone to better understand global environmental systems. In particular, the GLCF develops and distributes remotely sensed satellite data and products that explain land cover from the local to global scales.		X				X	University of Maryland			http://glcf.umia cs.umd.edu/in dex.shtml	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Databa ses and Softwa re Open	The Open Source Geospatial Foundation has been created to support and build the highest-quality open source geospatial software. The		X				X	Private Foundation	Glo bal	U nk no w n	http://www.os geo.org/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
Source Geosp atial Found ation Websit e	foundation's goal is to encourage the use and collaborative development of community-led projects. This website serves as a portal for users and developers to share their ideas and contribute to project development. As the Open Source Geospatial Foundation grows and changes, so will this website.											
GIS Datase t, Climat e - World Clim	WorldClim is a set of global climate layers (climate grids) with a spatial resolution of a square kilometer. They can be used for mapping and spatial modeling in a GIS or other computer program. The data are described in: Hijmans, R.J., S.E. Cameron, J.L. Parra, P.G. Jones and A. Jarvis, 2005. Very high resolution interpolated climate surfaces for global land areas.		X				X	Private	Glo bal	20 06	http://www.wo rldclim.org/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Datase ts - U.S. Geolog ical Survey	A variety of printed maps and geographical datasets		Х				X	USGS	Glo bal	Ac tiv e	http://eros.usg s.gov/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Datase ts - UNEP/ GRID Sioux Falls	African and Latin America population databases now have multiple base layers such as rivers, lakes, and parks to overlay the population database.							UNEP	Glo bal	Ac tiv e	www.na.unep. net	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - 3D Visuali sation and Fly By - 3DEM	Provides 3D views using many elevation model sources. Create animated flights through virtual terrains. Connect with Garmin or Magellan GPS receivers to display waypoints, routes, and tracks in 3D or generate elevation profiles of GPS tracks.		X								www.visualiza tionsoftware.c om/3dem.html	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
GIS Softwa re - Bioma pper	Biomapper is centred on the Ecological Niche Factor Analysis (ENFA) that allows to compute HS models without the need of absence data.		X								http://www2.u nil.ch/biomapp er/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - Deskto pGarp	GARP is a genetic algorithm that creates ecological niche models for species. The models describe environmental conditions under which the species should be able to maintain populations. For input, GARP uses a set of point localities where the species is known to occur and a set of geographic layers representing the environmental parameters that might limit the species' capabilities to survive.		Х	X	x						http://nhm.ku. edu/desktopg arp/index.html	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - DIVA- GIS	DIVA-GIS is particularly useful for mapping and analyzing biodiversity data, such as the distribution of species, or other 'point-distributions'. The software was developed for use with species occurrence data such as available from natural history museums and genebanks. But the program can be used for other purposes.		Х	X							http://www.div a-gis.org/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - DNR Garmi n Tool	This extension was built to provide users the ability to directly transfer data between Garmin GPS handheld receivers and various GIS software packages. Using this program a user can use point features (graphics or shapefile) and upload them to the GPS as Waypoints. Line and Polygon Graphics or shapes can be uploaded to the GPS as Track Logs or Routes. Conversely,	X									http://www.t4c d.org/Resourc es/ICT Resou rces/Technolo gies/Pages/IC TTechnologyL ist.aspx	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	Waypoints, Track Logs, and Routes collected using the GPS can be transferred directly to ArcView/ArcMap/Googl e Earth/Landview and saved as Graphics or Shapefiles.											
GIS Softwa re - ESRI	At the desktop GIS level, ArcGIS can include: ArcReader, which allows one to view and query maps created with the other Arc products; ArcView, which allows one to view spatial data, create maps, and perform basic spatial analysis; ArcEditor which includes all the functionality of ArcView, includes more advanced tools for manipulation of shapefiles and geodatabases; or ArcInfo the most advanced version of ArcGIS, which includes added capabilities for data manipulation, editing, and analysis. There are also serverbased ArcGIS products, as well as ArcGIS products for PDAs. Extensions can be purchased separately to increase the functionality of ArcGIS. May extensions are also available as freeware.		×	×							http://www.esr i.com/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - Forestr y GIS (fGIS)	Forestry GIS (fGISTM) is a compact GIS data viewer, digitiser and shapefile editing program for Windows® from the University of Wisconsin and Wisconsin DNR - Division of Forestry. Designed for operational field managers like foresters and wildlife biologists, fGIS has essential tools tailored for precision mapping on a desktop computer. Use fGIS to		X	X	X						http://www.for estpal.com/fgi s.html	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	customise layered views (including aerial photos and other imagery), draw map objects, query and search spatial data, annotate maps for printing, and much more. This standalone program is compatible with commercial GIS software.											
GIS Softwa re - Geosp atial Expert s	Automatically links digital photographic images to GPS location data in the GIS environment. Creates web pages in which the watermarked photographs are intergrated with satellite imagery, street maps or other GIS based mapping layer.		×	X							http://www.ge ospatialexpert s.com/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - GPS Visuali ser	This software enables users to overlay your GPS positional data onto a map or aerial image without installing any new mapping software or large image databases on your PC. After logging on to the GPS Visualiser web site, just fill in a form for the type of map you'd like to create. The background image can be aerial photos, Landsat imagery, political maps or a variety of other choices depending where in the world your GPS data is. You browse to GPS data files on your hard drive, which will be uploaded to the GPS Visualiser server where the computing is done. Your GPS track and waypoint files can be of many common formats supported by the application. After a few seconds, GPS Visualiser will return a map. You designate the size of the image and other display parameters, which can	X	×	×							http://www.gp svisualizer.co m/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	be saved as an interactive scalable vector graphic (SVG) or conventional graphic. The utility will also generate an optional elevation profile of a GPS track. The only GPS Visualiser prerequisite is that you install the free Adobe SVG Viewer plug-in for it to work.											
GIS Softwa re - GRAS S	GRASS (Geographic Resources Analysis Support System) is a raster/vector GIS, image processing system, and graphics production system. GRASS contains over 350 programs and tools to render maps and images on monitor and paper; manipulate raster, vector, and sites data; process multi spectral image data; and create, manage, and store spatial data. GRASS uses both an intuitive windows interface as well as command line syntax for ease of operations. GRASS can interface with commercial printers, plotters, digitizers, and databases to develop new data as well as manage existing data.	X		×							http://www.gra ss.itc.it/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - LandS erf	Applications include visualisation of landscapes; geomorphological analysis; gaming development; GIS file conversion; map output; archaeological mapping and analysis; surface modeling and many others. It runs on any platform that supports the Java Runtime Environment (Windows, MacOSX, Unix, Linux etc.)	Х	Х	X							http://www.soi. city.ac.uk/~iw o/landserf/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re -	The foundation of the system is the free GIS, Map Maker Gratis. If	Х	Х	X							http://www.ma pmaker.com/i ndex.htm	http://www.t4c d.org/Resourc es/ICT Resour

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
Map Maker	your mapping needs are basic simply use the free Map Maker Gratis. Can be used to draw, edit and print basic maps, and link them to databases. Many users have taught themselves. Advanced features include manipulating vector, raster, 3D, and GPS data.											ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - MARX AN	MARXAN is software that gives support in designing biodiversity reserves. MARXAN finds reasonably efficient solutions to the problem of selecting a system of spatially cohesive sites that meet a suite of biodiversity targets. Given reasonably uniform data on species, habitats and/or other relevant biodiversity features and surrogates for a number of planning units (as many as 20,000) MARXAN minimises the cost (a weighted sum of area and boundary length) while meeting userdefined biodiversity targets.		х	х	X						http://www.ec ology.uq.edu. au/index.html? page=27710& pid=20497	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
GIS Softwa re - World Map	The WORLDMAP project was begun in 1988 in response to the need for a platform on which to research and develop new analytical tools for biologists. It is based on the same database - analytical tools - map graphics model as many commercial geographic information systems (GIS). Yet unlike commercial GIS, rather than concentrating on database and graphics flexibility, WORLDMAP is designed to perform specialist biological analyses for unlimited			х	Х						http://www.nh m.ac.uk/resea rch- curation//proje cts/worldmap/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx

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	numbers of species (or other area attributes) at maximum speed, in order to support interactive exploration of biodiversity data for research. Many of the biological tools are not yet available from commercial GIS. WORLDMAP is software for exploring geographical patterns in diversity, rarity and conservation priorities from large biological datasets. Because diversity is related in part to area extent, WORLDMAP was designed originally to use equal-area grid cells for more robust analyses, although in principle it can be applied to areas of any shape and size, at any spatial scale. Features: Explore geographical patterns in quantitative measures of diversity, rarity and conservation priorities, at any spatial scale (with tailored software), for large biological datasets, at high speed, interactively, through an easy-to-learn, graphical interface and with point-and-press data entry via maps in the data editor.											
GPS and GSM Mobile Phone - Garmi n	GPS receiver units combined with mobile phone Two-way mobile phone communication between users with hand-held units. Ability to send GPS locations as SMS messages. PDA functions and compatible with most common email- and groupware programs (ACT!, Lotus Notes, Microsoft Outlook, Palm Desktop)										http://www.gar min.com/garm in/cms/site/us	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
Mappi ng - Flora	A software tool for predicting the distribution of plants		X							20 01 -	http://www.flor amap-ciat.org/	http://www.t4c d.org/Resourc es/ICT Resour

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
Мар	and other organism in the wild. With software linked to agroclimatic and other databases, biodiversity specialists can create maps showing the most likely distribution of wild species in nature									20 03		ces/Technologi es/Pages/ICTT echnologyList. aspx
Mappi ng, Satellit e Image s - OASIS	OASIS aims at enlarging the scope and activities of the ISIS programme (Incentive for the Scientific use of Images from the Spot system) implemented in 1994 by the French Space Agency (CNES) to a wider European dimension in order to reach new users.		Х	Х				EU	Eur ope	Ac tiv e	http://medias. obs- mip.fr/oasis/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
Naviga tion - Earthc omber	Free Navigation system for Palm OS, Windowspowered PDAs and smartphones.	X						Private	Glo bal		http://www.ear thcomber.com /splash/index. html	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
Tracki ng, Footpri nt Identifi cation Techni que - Wildtra ck	Our mission is to develop and apply non-invasive and objective censusing and monitoring techniques as a fundamental resource for wildlife conservation.  Our footprint identification technique (FIT) and others based on biometrics, can provide accurate and objective data to monitor endangered species, such as the black rhino.	Х	Х					Range of conservation sponsors, closely related to Rhino preservation.			http://www.wil dtrack.org/	http://www.t4c d.org/Resourc es/ICT Resour ces/Technologi es/Pages/ICTT echnologyList. aspx
MeRE M Mekon g River Ecosys tem Monito ring project	MeREM (Mekong River Ecosystem Monitoring) project began in April 2004 under the financial support of the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in							Japan MEXT GEMS Water Kasesart University		20 04 - ?	http://merem.k asetsart.org/	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	Japan. The objective of the project is to establish an international research collaboration system for in-depth understanding of the many changes and challenges which affect the ecosystem of the Mekong River, and to predict long-term ecological changes. The research collaboration resumes the GEMS/Water programme in the Mekong River Basin.											
NEIS Atmos pheric Observ ation	A project consisting of 4 main themes related to Atmospheric observation, GHG tracking and analysis.	X					X	Japan NEIS			http://www- cger.nies.go.jp /climate/e_pla n3.html	
GECE nvis	Gujurat Environmental Commission - ENVIS Page	Х	Х	Х			Х	Gujurat Environment Commission			http://www.ge c.gov.in/envis/	
UNEP - INFOT ERRA	INFOTERRA is the global environmental information exchange network of the United Nations Environment Programme. The network operates through a system of government-designated national focal points which at present number 177. An INFOTERRA national focal point is essentially a national environmental information centre usually located in the ministry or agency responsible for environmental protection. The primary function of each centre is to provide a national environmental information service.						×	UNEP		19 97 - 20 02	http://www.un ep.org/infoterr a/nfpspec.htm	
TEMIS	TEMIS, which stands for Tropospheric Emission Monitoring Internet Service, displays data for tropospheric ozone (O3), nitrogen dioxide (NO2), and sulfur dioxide (SO2), among other pollutants. Most	×	X								http://www.te mis.nl/	

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	cti ve D at es	Primary Web Reference	Other Web References
	data goes back as far as 2002.			_								
WGMS	Today, the World Glacier Monitoring Service (WGMS) collects standardised observations on changes in mass, volume, area and length of glaciers with time (glacier fluctuations), as well as statistical information on the distribution of perennial surface ice in space (glacier inventories). Such glacier fluctuation and inventory data are high priority key variables in climate system monitoring; they form a basis for hydrological modeling with respect to possible effects of atmospheric warming, and provide fundamental information in glaciology, glacial geomorphology and quaternary geology. The highest information density is found for the Alps and Scandinavia, where long and uninterrupted records are available.	X	X					NOAA	Global	18 94 - cu rr en t	http://www.ge o.unizh.ch/wg ms/index.html	
GOS	The Global Observing System (GOS) provides from the Earth and from outer space observations of the state of the atmosphere and ocean surface for the preparation of weather analyses, forecasts, advisories and warnings, for climate monitoring and environmental activities carried out under programmes of WMO and of other relevant international organizations. It is operated by National Meteorological Services, national or international satellite agencies, and involves	Х	х	х				WMO	Glo bal	20 04 - cu rr en t	http://www.wm o.int/pages/pr og/www/OSY/ GOS.html	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	several consortia dealing with specific observing systems or specific geographic regions.	0	Ā	<u> </u>	M	<u>N</u>	Ö					
RETSc reen	The RETScreen International Clean Energy Project Analysis Software is a unique decision support tool developed with the contribution of numerous experts from government, industry, and academia. The software, provided free-of-charge, can be used worldwide to evaluate the energy production and savings, life-cycle costs, emission reductions, financial viability and risk for various types of energy efficient and renewable energy technologies (RETs). The software also includes product, cost and climate databases, and a detailed online user manual.			X	X	X		Natural Resources Canada	Global	Ac tiv e	http://www.ret screen.net/an g/d o view.ph p	
Online Atlas of the Milleni um Develo pment Goals	WorldBank tracking and reporting for different nations in their MDGs.						X	World Bank	Glo bal	C ur re nt	http://devdata. worldbank.org /atlas-mdg/	
Comm on Phone Charg er	An initiative to create a common phone charger in Inida to reduce waste created by multiple chargers for different telephones.					Х					http://shoppin g.rediff.com/s hop/storeprod uctdisplay.jsp ?prrfnbr=1072 292&strfnbr=2 559&frompg=	
Phone Numbe r for Life in India	Policy Initiative to make mobile telephones available to everyone in India.										http://www.vo anews.com/en glish/2007-10- 28-voa9.cfm	
e-Cho upal: ICT for Rural Agricul ture	ITC's International Business Division, one of India's largest exporters of agricultural commodities, has conceived e-Choupal as a more efficient supply chain aimed at				X			ITC Limited	Indi a		http://www.itcp ortal.com/sets/ echoupal fra meset.htm	

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	delivering value to its customers around the world on a sustainable basis.											
	The e-Choupal model has been specifically designed to tackle the challenges posed by the unique features of Indian agriculture, characterised by fragmented farms, weak infrastructure and the involvement of numerous intermediaries, among others.											
eoPort al	The eoPortal aims to open the door to the world of Earth Observation resources. By giving access to a large variety of information and services, eoPortal aims to provide a single access point for Earth Observation information and services including satellite imagery, a directory to locate data and resources, direct access to earth-observing satellite data as well as map servers and cartographic resources.		X	X	X						http://www.eo portal.org/	
CARM A	At its core, Carbon Monitoring for Action (CARMA) is a massive database containing information on the carbon emissions of over 50,000 power plants and 4,000 power companies worldwide. Power generation accounts for 40% of all carbon emissions in the United States and about one-quarter of global emissions. CARMA is the first global inventory of a major, emissions-producing sector of the economy.		X	X			X	Center for Global Developmen t	Glo bal	20 07 - Ac tiv e	www.carma.or	
South Sumatr	In Indonesia – particularly in Borneo	Х	Х	Х			Х	GTZ	Ind one	20 03	http://www.gtz .de/en/themen	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
a Forest Fire Manag ement Project	and Sumatra - the risk of forest fire is very pronounced. Around 15 million hectares of tropical rain forest and cropping areas were destroyed by fire in the El Niño years of 1982/83 and 1997/98. Thus, in South Sumatra, GTZ International Services (GTZ IS) is implementing a project geared to the prevention and control of forest fires on behalf of the European Commission.								sia	20 07	/uebergreifend e-themen/153 19.htm	
IPACC 3D Mappi ng for Mukog odo	The Indigenous Peoples of Africa Coordinating Committee (IPACC) and SHALIN, a Finnish based networking NGO are supporting the Yiakku community in its effort to document the natural and cultural landscape of the Mukongodo Forest. The modeling exercise is a methodology introduced to Africa by the Technical Centre for Agricultural Rural Cooperation (CTA) in 2006. Yiakku elders and youth will create a three dimensional model of part of their ancestral lands, showing the Yiaku conception of natural systems of water, forestry, forest products and wildlife. The map helps to create an inventory of indigenous knowledge, natural resources and the intangible heritage of	X	X	X			×	SHALIN	Afri ca	20 07 -	http://udongo. org/2007/10/2 8/participatory -3-d-mapping- in- the-mukogodo -forest- communities/	
GMES	the region.  Global Monitoring of Environment and Security. GMFS is an activity started by the European Space Agency (ESA) under the joint ESA and European Commission	Х	X	Х	X		X	EC / ESA	Glo bal	20 04 - 20 08	http://www.gm es.info/	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	(EC) Global Monitoring for Environment and Security (GMES) initiative. Through GMES, ESA and the EC have combined forces to unite the research, development and operational user communities across Europe in a coordinated effort to establish, by 2008, a European capacity for Global Monitoring for Environment and Security.											
GIEW S	For countries facing a serious food emergency, FAO/GIEWS and the World Food Programme also carry out joint Crop and Food Supply Assessment Missions (CFSAMs). Their purpose is to provide timely and reliable information so that appropriate actions can be taken by the governments, the international community, and other parties.  GIEWS undertakes up to 15 such CFSAMs every year	X	X	X	X			UN FAO	Global	Ac tiv e	http://www.fao .org/giews/eng lish/index.htm	
OISAT	To eliminate the use of hazardous pesticides, and to promote community-based control over sustainably produced food and fibres, OISAT Info offers concrete alternatives with its Online Information Service on Nonchemical Pest Management in the Tropics. OISAT Info is thus a practical guide for trainers, extension workers and farmers on how to minimize pest damage in a safe, effective, and ecologically sound way.				X		X	GTZ	Global	20 02 - 20 03	http://www.ois at.org/concept of oisat.html	

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Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	gio n	ve D at es	Primary Web Reference	Other Web References
GLOB WINET	Global Water Information Network (GLOBWINET) is a forum in the field of integrated water resources management and is based on IKON software. The software was developed by GTZ as part of an EU project. With the aid of this software users of GLOBWINET can analyse and compare information and find business partners in the water resources management sector.	X	X	X	X		X	GTZ	Ger ma ny / So uth Afri ca	20 00 - 20 05	http://www.gw pforum.org/ser vlet/PSP?iNod eID=1410&iFr omNodeID=10 0	
Mekon ginfo	i "Mekonginfo" is an internet-based information system which aims at exchanging data on participatory resource management in the area of the lower Mekong basin. "Mekonginfo" has more than 900 registered users. The online library gives access to more than 2000 documents on the subjects of forests, natural resource management and land management. Furthermore a watershed information system is used, maps of forest inventories are generated and the maintenance and supervision of the GIS-database is supported.		×	X	×		×	GTZ	Ca mb odi a, Th aila nd, Lao s and Vie t Na m	19 92 - 20 05	http://www.me konginfo.org/	
LandN et Africa	LandNet Africa is a network on land tenure and land policy issues in Africa. It was established in a regional workshop held in Addis Ababa in January 2000. The workshop was hosted by OSSREA and sponsored by DFID. The workshop was attended by participants from eighteen African countries; namely,			Х	X		X	GTZ, DFID	Afri ca	20 02 - 20 06	http://www.oss rea.net/project s/landnet.htm	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	Burkina Faso, Cameroon, Ethiopia, Ghana, Kenya, Malawi, Mozambique, Namibia, Nigeria, Rwanda, Senegal, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, and Zimbabwe. The following donor and international support organizations: DFID, GTZ, French Cooperation, SIDA, UN-FAO, IUCN, World Bank, the IFAD Popular Coalition to Eradicate Hunger and Poverty, NRI, OXFAM, UN-ECA, CILSS and IIED also participated.											
MIST	The GTZ project 'Advisory Services to Uganda Wildlife Authority (UWA)' has been supporting UWA with the development of a spatial Management Information System (MIST) to provide managers and planners with up-to-date information for their planning, decision-making and evaluation. Important aspects taken into consideration during the development of the system were the organisational set-up of UWA, behavioural principles and technical factors.	X	X	x	X		×	GTZ / UWA	Ug and a	20 01 - ac tiv e	http://www.uw a.or.ug/IS.htm	
ENO	ENO-Environment Online is a global virtual school and network for sustainable development and environmental awareness. Four environmental themes are studied within a school year on a weekly basis. About 400 schools from 104 countries take part.						X	NBE Finland, UNEP UNESCO	Glo bal	20 00 - Ac tiv e	http://eno.joen suu.fi/basics/b riefly.htm	http://www.itu.i nt/osg/spu/wsi s- themes/ict sto ries/themes/e- Environment.ht ml
GLIN	Great Lakes Information Network (GLIN) has become a						X	NGO	Nor th Am	19 93	http://www.gre at-lakes.net	http://www.itu.i nt/osg/spu/wsi s-

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Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	ve D at es	Primary Web Reference	Other Web References
	reliable tool for information relating to the environment, economy, education and tourism for the Great Lakes region in the United States. Realizing that traditional forms of communication and information sharing were not sufficient to address the multitude of issues associated with environmental conservation in the region, the Great Lakes Commission, the non-partisan body that manages GLIN, turned to the internet in 1994.By providing an online resource for environmental, economic and cultural research and analysis, GLIN has helped professionals from a variety of disciplines and government agencies improve their understanding of the Great Lakes ecosystem. To the surprise of the GLIN managers, the number of domestic and international visitors to the site grew from 68,000 in 1995 to over 931,000 by 2000.The site continues to grow in popularity.								eric			themes/ict sto ries/themes/e-Environment.ht ml
EcoSa ndals	Ecosandals is a non-profit importer and reseller of sandals produced by Akala Designs Limited, a cooperative business based in Nairobi, Kenya. Fair Trade with e-Business for sustainability.					X		Private	Ke nya	U nk no w n	http://www.ec osandals.com/	http://www.itu.i nt/osg/spu/wsi s- themes/ict sto ries/themes/e- Environment.ht ml
Village Knowl edge Center s	Designed by M.S. Swaminathan Research Foundation (MSSRF) and funded by the Canada-based International Development Research Centre (IDRC), the				X	X	X	MSSRF, IDRC	Indi a	19 99 - 20 00	http://www.iso c.org/oti/article s/0401/balaji.h tml	http://www.itu.i nt/osg/spu/wsi s- themes/ict sto ries/themes/e- Environment.ht ml

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	Village Knowledge Centres have been an important source of information for many rural villages throughout India. From healthcare to farming and transportation information, these "information shops" are both sustainable and empowering. For instance, a cadre of women volunteers between the ages of 21-27 run the shop in the village of Embalam, and women are given preference at each of the other sites in operation.											
RANE	RANET is an international collaboration to make weather, climate, and related information more accessible to remote and resource poor populations. RANET undertakes this mission in order to aid day-to-day resource decisions and prepare against natural hazards. The program combines innovative technologies with appropriate applications and partnerships at the community level in order to ensure that the networks it creates serve the entirety of community information needs. Community ownership and partnership is the core principle of RANET's sustainability strategy.	X	×	X				USAID, NOAA	Afri ca, Asi a, Pa cifi c	U nk no w n	http://www.ran etproject.net/a bout.html	http://www.itu.i nt/osg/spu/wsi s- themes/ict sto ries/themes/e- Environment.ht ml
Globe	The Global Learning and Observation to Benefit the Environment (GLOBE) project is an online learning tool targeted mainly at primary and secondary schools throughout the world. While global in scope, the project is						X	US EPA	Glo bal	19 94 - Ac tiv e	http://www.glo be.gov/r/home page	http://www.itu.i nt/osg/spu/wsi s- themes/ict sto ries/themes/e- Environment.ht ml

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	sponsored by a consortium of federal United States agencies ranging from the National Oceanic and Atmospheric Agency (NOAA) to the Environmental Protection Agency (EPA).											
Oszon e Online	The University of Cambridge, UK launched a project in 1997 to help educate students and concerned citizens about the effects of releasing chlorofloro carbons (CFCs) into the atmosphere. The Ozone Hole Tour site provides visitors with a comprehensive overview of the make-up of the earth's atmosphere, offers scientific insights into what is being done to address the manmade problem, and provides links to a variety of information resources about the issue.						×	University of Cambridge	Glo bal	19 98 -?	http://www.at m.ch.cam.ac.u k/tour/index.ht ml	http://www.itu.i nt/osg/spu/wsi s- themes/ict sto ries/themes/e- Environment.ht ml
InfoAgr o	Online system with agricultural information for Bolivia.			X	X		X	GTZ	Boli via	20 05	http://www.inf oagro.gov.bo/	
Ilira	The project ILIRA (Information Literacy in Rural Areas) has the objective to connect remote and deprived schools and communities to the internet and support the school in installing or running a computer laboratory, train the staff and teachers in basic IT skills. Uses Solar-powered class-rooms with economic model of ICT dual use for training and internet cafe. Now expanding to new schools.					X		GTZ	Phil ippi nes	20 05	http://www.ilira .org/	
IndoTs unami	This site, launched on Tuesday 10 February 2005, is intended to keep you informed about the progress in developing a Regional	Х	Х	Х	Х		Х	WMO	Ind one sia	20 05 - Ac tiv e	http://ioc3.une sco.org/indots unami/	

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	Tsunami Warning and Mitigation System for the Indian Ocean. Through the time line, displayed above, you will be able to obtain information on the many international events, organized by individual countries as well as by UN agencies, related to follow-up actions to the 26 December 2004 tsunami.											
Neptun e	NEPTUNE offers rich educational possibilities for students at all levels around the world. Because its Internet connections will provide real-time data and images from very dynamic earth-ocean systems, NEPTUNE products will be useful and accessible to classrooms, laboratories, and even the homes of interested learners. Programs will include K-12 curricula and activities, exhibits for science museums, undergraduate and graduate research, and a real-time web interface for all users.	X					X	Victoria	Pa cifi c Oc ean	20 05 - Ac tiv e	http://www.ne ptunecanada. ca/education/i ndex.html	
SAFO RAH	The System of Agents for Forest Observation Research with Advanced Hierarchies (SAFORAH) was created in March 2002 to coordinate and streamline the archiving and sharing of numerous distributed large remote sensing data sets between various research groups with Canadian Forest Service (CFS), UVic and other academic and government partners to facilitate research in support of our national forest monitoring activities. SAFORAH was developed through	Х	X	х	X		X	Consortium	Ca nad a	20 02 - Ac tiv e	http://www.saf orah.org/	

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ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	a collaboration of government, university and industry.											
Euro GRID	The Bio GRID work package developed interfaces that enabled chemists and biologists to submit their work to HPC facilities via a uniform interface from their workstations, without having to worry about the details of how to run particular packages on different architectures.  The Meteo GRID work package developed adaptations to an existing weather—prediction code for ondemand localised weather prediction and made the first step towards a weather prediction portal.  For the CAE GRID track, two CAE (Computer-aided Engineering) applications were adapted to EUROGRID: coupled CAE applications from the aircraft industry, and the provision of ASP services for a set of leading CAE application codes.		×	×	×		×	EU			http://www.eur ogrid.org/work plan.html	
OLCP Trials in Solom on Islands	These trials will be conducted under the OLPC Oceania initiative to deploy OLPC Laptops throughout the region and is part of that group's Pilot strategy. The Solomon Islands was chosen for the first OPLC trials in the Oceania region due to its experience in successfully deploying ICT projects in rural and remote areas, notable PF Net and the Distance Learning Centre Project. Batuna was					X	X	OLCP	Oc ean ia	20 07	http://www.pe oplefirst.net.sb /DLCP/downlo ads/OLPC So lomons Trials v5 19-9- 07.pdf	

ICT Applic ation Name	Description	Observation	Analysis	Planning	Management	Mitigation	Capacity Building	Sponsor / Owner	Re gio n	A cti ve D at es	Primary Web Reference	Other Web References
	chosen as the pilot village as it is part of the larger Marovo Lagoon Learning Net project.  The trials are to be recognised by the global OLPC organisation as an official trial site. The trials will use 25 OLPC laptops and associated equipment provided by the global OLPC organisation and will be conducted under the 5 OLPC Principles.											
GOF ISS	GOF Climate Change and Energy Programme: ISS (Information Sharing System) to enhance coping capacities of farming communities in dealing with climate variability and climate change					X	X	Swiss Agency for Developmen t and Cooperation UNEP British High Commission	Pa kist an / Indi a	20 05	http://www.teri in.org/project inside.php?id= 15561&area= &proj_type=on going	http://www.iied .org/CC/docum ents/ISS Pres entation Suruc hi.pdf
UNFC C CDM Registr y	The UN Climate Change Secretariat on Wednesday announced that the International Transaction Log (ITL) became operational, thereby putting in place the cornerstone of the Kyoto Protocol's emissions trading system. The ITL is a sophisticated computerized system that ensures that emissions trading among Kyoto countries is fully consistent with the rules established under the UN Treaty.		Х	Х	Х			UNFCC	Glo bal	Ac tiv e	http://unfccc.in t/files/press/ne ws room/pres s releases an d advisories/a pplication/pdf/ pressrelease i tl go- live english.p df	