

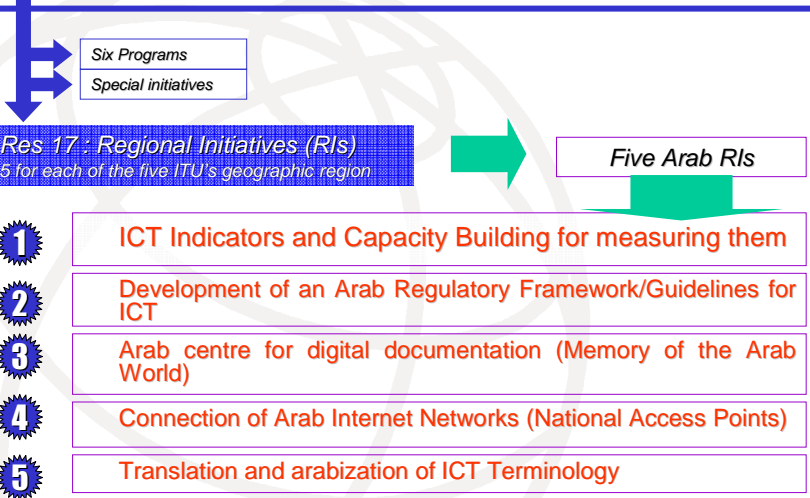
**ITU-D Regional Development Forum
for the Arab Region:
“Access to spectrum, including broadcasting
services – trends and technologies”
Tunis – Tunisia, 1-3 June 2009**

Review of Regional Activities

Dr. Miloud AMEZIANE
Head, ITU Arab Regional Office



WTDC 2006 **Arab Regional Initiatives (2007~2010)**



1. ICT Indicators and Capacity Building for measuring them

Objectives:

To establish information-society indicators and capacity building to facilitate measuring these indicators in the Arab Region.

Expected Results:

1. Description of the major information-society indicators in the Arab World, to enable comparison with other countries and regions.
2. Enable the concerned parties to use the database in the process of decision-making and planning the development of the information society.
3. Increase studies and research on information society in terms of facilitating the work of researchers by providing a large quantity of information on the information society in the Arab World.



2. Development of an Arab Regulatory Framework/Guidelines for ICT

Objectives:

To develop a system for the Arab countries containing guidelines on telecommunication and information technology, to be used as a reference by the Arab countries, so as to enable them to achieve their national strategic objectives. This will involve:

- Implementing a system for the Arab countries containing guidelines on telecommunication and information technology, taking into account the changes that have occurred in this sector;
- Improving ICT sector regulations in the Arab Countries and simplifying the related procedures;
- Setting guidelines for e-business and e-transactions in the Arab Countries.

Expected Results:

- 1- Reduction of the digital divide.
- 2- Provision of advanced ICT services at reasonable rates and with high quality
- 3- Support the spread of e-applications such as e-government,
- 4- Transfer of ICT to the region.
- 5- Harmonization of specifications and standards.



3. Arab Centre for Digital Documentation (Memory of the Arab World)

Objectives:

To establish an electronic gateway on the internet "Portal for Arab Heritage" in both Arabic and English, digitizing the Arab and the Islamic heritage and publishing packages of cultural products in different languages, including books, tapes, CDs.

Expected Results:

- Document the Arab heritage and publish it, in its different aspects, material and moral, such as the scientific Islamic heritage, the documentation heritage, the popular heritage, the architectural heritage, etc ;
- Transfer information and traditional material and publish it using the internet and electronic media.
- Inform the new generation of the Arab world of their cultural identity by establishing a website on the internet designed to show the wonders of the treasures of the Arab and Islamic heritage, using the latest technology in the Arabic, English and French languages.
- Inform the world about the Arab civilization.
- Collect and disseminate specialized digital information on ICTs in the Arab Region.



4. Connection of Arab Internet Networks (National Access Points)

Objectives:

To develop nodes connecting the Arab internet networks, in order to allow traffic flow between the Arab countries through these nodes, and in order that information traffic to countries other than the Arab nations be routed through these nodes. This will involve:

- Designing internet traffic of the Arab countries in such a way to prevent current negative aspects and building it on economic feasibility, using available tools and equipment to establish universal access nodes in addition to the existing nodes.
- Create the nodes and connect the Arab Countries through these nodes.

Expected Results:

- Reduction in the cost of using the internet and reduction in the cost of interconnectivity to the international backbone.
- Increase in the use of the internet.
- Increase in Arab digital content.
- Guarantee the continuity and availability of interconnection between the Arab countries in case of international network disruption.
- Improvement of quality of service, reduction of congestion and quicker applications download.
- Efficient use of infrastructure and available capacities.



5. Translation and Arabization of ICT Terminology

Objectives:

To unify the efforts being deployed to translate and arabize ICT terminology, by developing an Arabic glossary for ICT terminology, and to facilitate use of the internet by Arab users by increasing the penetration of domain names in Arabic. This will involve:

- Approving the terminology in Arabic in the field of ICT by all Arab countries, to facilitate interaction and exchange of information among staff working in the ICT field.
- Availability of an e-glossary for ICT terminology on the internet and on CD in three languages: Arabic, English and French.

Expected Results:

- Support the building of the information society in the Arab region.
- Create an entity working in the field of arabization of ICT terminology.
- Overcome the digital divide.
- Support the teaching of ICT in the Arabic language in schools and universities.



Arab Regional Office Operational Plan based on DAP Programs (2008-2009)

Program 1: Regulatory Reform

- Arab Regulators Network Meeting: 6th Annual Meeting of the General Assembly of the Network, Jeddah-Saudi Arabia, 19-20 May 2009.

Program 2: Information and communication infrastructure and technology development

- ITU Arab Regional Development Forum 2008: "Bridging the ICT standardization gap in developing countries", Damascus-Syria, 20-22 July 2008
- ASBU/ITU Joint Regional Seminar on Multimedia Production and Delivery Services, Tunis-Tunisia, 31 October – 1 November 2008
- Regional Workshop on Broadband Access for Arab Region, Damascus-Syria, 19-20 Nov. 2008.
- ITU-D Regional Development Forum for the Arab Region: "Access to spectrum, including broadcasting services – trends and technologies", Tunis – Tunisia, 1-3 June 2009.
- Assistance to the Arab Region for the implementation of Next Generation Networks (NGN), Algiers – Algeria, 26-30 Sept. 2009.
- Arab Region Train the Trainer Program and SMS4DC customization for the Arab Region Countries, Amman – Jordan, 12-16 July 2009.



Arab Regional Office Operational Plan based on DAP Programs (Cont.)

Program 3: ICT Applications and Cybersecurity (E-strategies and ICT applications)

- Regional Workshop on "Frameworks for Cybersecurity and CIIP & Cybersecurity Forensics Workshop", Doha - Qatar, 18-21 Feb. 2008.
- Regional Seminar on IP Communications for Arab Region (VoIP, IPTV, Policy and Strategies, Hammamet-Tunisia, 24-25 November 2008.
- ITU Regional Cybersecurity Forum for Africa and Arab States, Tunis – Tunisia, 4-5 June 2009.
- Assistance on the establishment and implementation of the framework for the Arabization of Internet Domain Names, Damascus – Syria, 28/6-10 July 2009.

Programme 4: Economics and Finance including costs and tariffs

- Regional Workshop on Interconnection and Cost Elements, Damascus – Syria, July 2009

Program 5: Human Capacity Building

- Strategic HR Management Workshop, Cairo- Egypt, 13-17 April 2008.
- Virtual Forum on HR Management, 10 November – 19 December 2008.
- ITU Regional Forum on Human Capacity Development in Arab Region, Cairo – Egypt, 3-5 Nov. 2009.
- Consultancy for the establishment of an ICT Training center, Palestine (June/July 2009).



Arab Regional Office Operational Plan based on DAP Programs (Cont.)

Program 6: Least Developed Countries and small island developing states, and emergency telecommunications (Special program for LDCs/SIDSs)

- Assistance to Yemen (2008)
- Assistance to Djibouti (2008-2009)

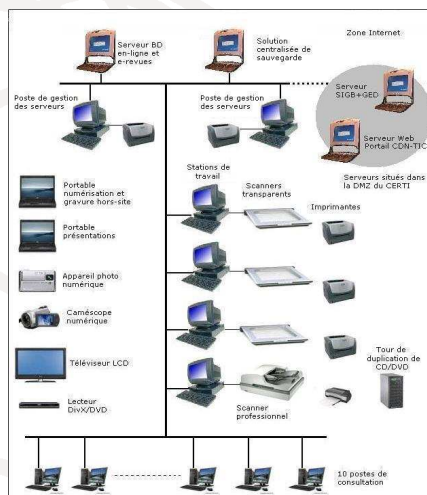
3B: Ad hoc Assistance to Countries



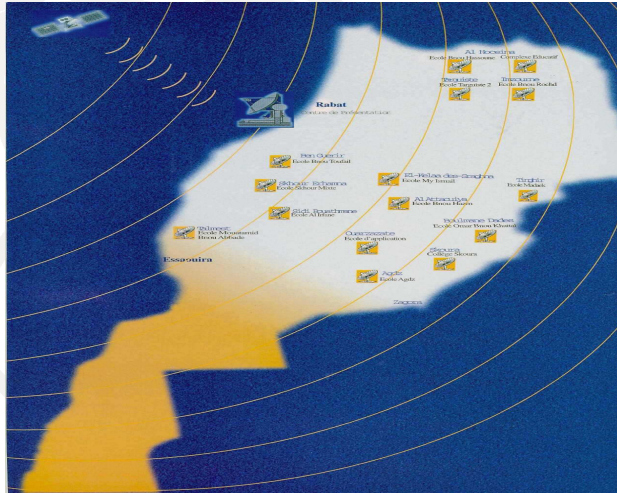
Projects executed or on-going of execution



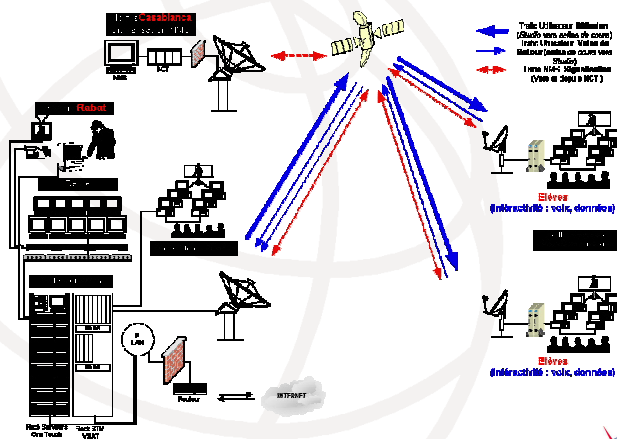
Digital Information Center



DISTANCE TRAINING FOR EDUCATORS VIA INTERACTIVE TELEVISION



GLOBAL SCHEMA OF TVI NETWORK



DESCRIPTION OF COMMUNICATION SATELLITE VECTOR

VSAT Network is based on the technology SCPC IP:

- Allocation of satellite channels in a dedicated and permanent way,
- Exclusive use of TCP/IP protocols
- Use of the IP technique Multicast for the transmission of courses allowing also an optimization of the use of satellite resources,
- Control and supervision of network in the operator VSAT Nortis



DESCRIPTION OF COMMUNICATION SATELLITE VECTOR

Debits Dimension of users:

**1 portal SCPC 1024 Kbps in diffusion
Outbound (Rabat towards les distant
sites)**

**13 portals SCPC 64 Kbps in Inbound (distant
sites towards Rabat) Architecture allowing
the distant sites to be connected with the
Internet network in a permanent and
secured way.**



DESCRIPTION OF COMMUNICATION SATELLITE VECTOR



CENTRAL SITE : ANTENNA



CENTRAL SITE : CONTROL ROOM



CENTRAL SITE : CONTROL ROOM



CENTRAL SITE : SERVERS ROOM



DISTANT SITE : CLASS ROOM



DISTANT SITE : CLASS ROOM



DESCRIPTION OF THE APPLICATION OF TELE-EDUCATION

- The implemented solution of e-learning is the solution **One touch**
- This solution integrates a standard way :
 - The video in real time,
 - The audio bi-directional (interactive instructor/participant)
 - Graphics of high resolution,
 - The share of applications and text message,
 - The capture of sessions and their stockage for another later transmission upon request,
 - All the fonctions of evaluation of trainees.

Assistance “Frequency Spectrum Management in the Arab Region”

- ITU Regional Radiocommunication Seminar for the Arab Region, Abu Dhabi-UAE, 22-26 April 2007.
- Regional Seminar on “Digital TV Broadcasting”, Algiers-Algeria, 4–5 December 2007.
- Assistance SMS4DC: Yemen, Lebanon, Palestine,...
- Arab Working Party on Frequency Spectrum Management
- Elaboration of National Tables of Frequencies, for example: Mauritania, Djibouti.



Mauritania

- **Tableau national d'attribution des bandes de fréquence**
 - Volume 1 : Bandes de 9 à 495 kHz [26 175 kHz]
 - Volume 2 : Bandes de 26.175 à 10 000 MHz
 - Volume 3 : Bandes de 10 à 30 GHz
- **Notes techniques de bas de page**
- **Liste des notes de bas de page mauritaniennes**
- **Décisions (ERC/DEC) et Recommandations (ERC/REC – T/R – REC.UIT.F)**
- **Classement des sigles de Services de radiocommunications par ordre alphabétique**
- **Relations des Services de Terre entre eux et des Services spatiaux entre eux**
- **Notes de bas de page européennes**
- **Abréviations**
- **Volume 4 : Annexes au Tableau national d'attribution des bandes de fréquences**
- **Volume 5 : Documentation**

