

ICT Policy Making in ESCWA Countries:

Lebanese ICT Strategy:

Infrastructure and Regulator perspectives

Eng. Diana Bou Ghanem
Head of ICT Office
Ministry of Telecommunications

May 2, 2006



ICT Strategy

E-strategy

It was a collective effort among MoT, OMSAR and UNDP and all ICT stakeholders who engaged in a collaborative process to prepare the Lebanese ICT e-strategy.

In preparing the implementation plan, national priority projects were selected and this came in line with the ITU stocktaking, and in preparation for the WSIS.

The result was divided into 7 Track:



ICT Strategy

- 1. Enabling Environment, Infrastructure
- 2. Enabling Environment, National Policies
- 3. ICT as a Production Sector
- 4. ICT for Human Capacity Development
- 5. ICT for Social Development
- 6. ICT for Business & Economic Development
- 7. E-Government



7	E-Government		
	Indicates Priority Projects by Track		
	Indicates National Priority Projects		
	Program/ Project	Related Ongoing or Planned Projects	Proposed Ownership
7.01	Develop & Promote Public Domain Content & Citizen Guides	The Portal of the Government of Leb.	OMSAR
	Citizen's Guide to Health Information & Services Citizen's Guide to Legal Issues		
	Citizen's Guide to Legal Issues Citizen's Guide to Governmental Procedures	INFORMS	OMSAR
7.02	Develop & Promote Public e-Services		
	Implement National ID & Smartcard	Study	Ministry of Interior
	e-Billing Services for Utilities	GISEL	
7.03	Government Agencies and Actions (Streamline Processes and Remove Anti-Patterns)		
	Create an IT Strategy for Each Governemnt Agency		OMSAR
	Develop ICT Org Structure & Salary Scales for Civil Servants	On Hold	OMSAR & M of Finance
	Encourage "Technical Assistance Model" in Gov Agencies		
	Pass a Law Allowing All Gov Agencies to Link via "Govnet"		
	Implement ICT Standards & Guidelines	On Hold	LIBNOR; OMSAR
	Streamline Domain Name Registration Process		M of Econ & Trade
	Adopt & Automate Streamlined Workflow Systems for Government Processes (esp Services to the Citizen)		
7.04	e-Government Infrastructure		
	Formulate Public Sector Data Definition & Exchange Standards for All Sectors		OMSAR
	Create LANs for All Government Ministries & Agencies	Ongiong	OMSAR
7.05	Promote & Encourage e-Commerce		
	Centralize & Implement a Gov e-Procurement Application	Board of Tenders	
7.06	Establish Formal ICT Training Programs		
	Provide Initial and Ongoing Taining for All Civil Servants inc. Public Healthcare Staff; Law Enforcement and Judiciary Staff	Various & ECOMLEB	OMCAD & ENA
7.07	Expand the Use of GIS & GPS Systems	Various & ECOMLED	OMSAR & ENA
7.07	Country Wide GIS Information Tool	CDR	-
	,		



6 ICT for Business & Economic Development

Indicates Priority Projects by Track
Indicates National Priority Projects

Program/ Project	Related Ongoing or Planned Projects	Proposed Ownership
6.01 Blend ICTs with Local Industry to Build Local Capability & Increase Productivity		
Create Media Campaigns and Document Success Stories Targeting Decision Makers	PCA & "Women in IT"	
Develop Recommendations for Specific Technologies by Sector & Size		Proposed National ICT Steering Entity
Setup an "ICT for SMEs" Support Program & Resource Center	SME Center	Ministry of Economy and Trade
Encourage the Inclusion of an ICT Component in All New Projects		Proposed National ICT Steering Entity
Use Existing Community Access Centers as Hubs for Incorporating ICTs in Local SMEs		
Encourage the Use of OSS in SMEs, Educational & Health Institutions, & in Public Sector		
Streamline All Processes Related to Operations to Lower Costs & Reduce Inventory (Accounting; HR; Inv Control)		
Develop a National Tourist Network (What's On) Develop Media Industry and Encourage Convergence	Destination Lebanon V2	Ministry of Tourism
Develop a Support Program for the Agrofood Industry	Agrobus	Min of Econ & Trade/ Ministry of Agriculture
Develop a Support Program for Traditional Cottage Industries 6.02 Increase Visibility of Local Industry (including ICT)		Min of Econ & Trade
Trade Information Center (online)	Min of Econ & Trade	
6.03 Promote & Encourage e-Commerce		
Establish Adequate Framework for Electronic Payments Promote Lebanese E-Commerce Sites to Expatriates		
Activate & Speed-Up E-Banking		Bankers' Association
6.04 Develop & Promote Public Domain Content		
Setup Business Startup Advisor		
6.05 Upgrade Industrial Zones Setup a Technical Platform for a Free Trade Zone		



5 ICT for Social Developmen	5	ICT	for	Social	Devel	opment
-----------------------------	---	-----	-----	---------------	-------	--------

	Indicates Priority Projects by Track		
	Indicates National Priority Projects		
Prog	gram/ Project	Related Ongoing or Planned Projects	Proposed Ownership
5.01 Build Inte	d Capacity & Increase Usage of ICTs Including the rnet by Catering for Needs & Providing Incentives Develop a Standard Local Needs Assessment Survey Kit, and		
	Define Geographic Areas, Sectors, and Implementation Methodologies	UNDP Regional; CRTD-A	Proposed National ICT Steering Entity various NGOS and
•	Implement Local Surveys of ICT Needs	Needs Assessment;	Government Agencies
	Develop Applications/ Content Serving Local Needs, for National Capacity Building, Used in Community Access Centers		
	Implement National Capacity Building Initiatives	Various	
	nd ICTs with Local Traditional Industry to Build Local acity & Increase Productivity & Visibility		
	Use ICTs to Increase the Productivity and Marketablity of Traditional Industries	Rural Delights	
	Locate Potential Customers & Link Them to Rural Areas through e-Commerce	"Doukan Baldati"; "al- doukan.com"	
5.03 Dev	elop/Localize & Promote Arabic Portals & Content		
	Youth Dialogue Network		
	Volunteer Network	AVN Project	
	Job Opportunities Portal	NEO	
	Virtual Citizen Communities & Links to Expatriates	Baldati.com	
	Country Development Gateway	LDG	
	National History & Cultural Heritage Portal	Ministry of Culture	
	Develop Sector-Specific Arabic Content	,	
	Encourage New Online Content Creation by Traditional Media		
5.04 Pror	note Human Rights & Empower All to Use & Access ICTs		
	Develop Content for Promoting the Rights of Vulenarable Groups	ICT for Women & Children's Rights	
5.05 Enco	ourage Informal ICT Training Programs		
	Introduce Courses Targeting Skills Training for Young People, Women, & the Elderly		
	Develop Digital Training Content to Fight Illiteracy		
5.06 Use	ICT to Improve and Increase Access to Healthcare		
	Use Community Access Centers to Provide Online Access in Remote Areas to Doctors and Hospitals		
	Ministry of Tologommunications	•	6



4	ICT	for	Human	Capacity	Development
---	-----	-----	-------	-----------------	-------------

Indicates Priority Projects by Track		
Indicates National Priority Projects		
Program/ Project	Related Ongoing or Planned Projects	Proposed Ownership
Review & Update Education Strategy to Include Formal ICT 4.01 Education Programs		
Reactivate/Complete Incorporation of ICTs in Public Schools Curricula	CIC /Lduwara	Ministry of Education
Complete All Public Schools Teacher Training	SIS (Eduware Project); British	CERD
Institute ICTs as Prereq Skills for Graduating Teachers	3 //	Ministry of Education
Review & Update Vocational Education Strategy to 4.02 Incorporate ICTs		,
Complete Incorporation of ICTs in Vocational Education		Ministry of Education
Train Vocational Schools Teachers on ICT Skills		Ministry of Education
4.03 Encourage Informal ICT Training Programs		
ICT Skills Portal (ICT Skills Learning Online)		
4.04 Government Agencies and Actions		
Set National Targets (e.g X% Digital Literacy in Relation to Literacy by 200X)		
Gather and Publish All Relevant ICT Data: Number of Institutes Providing Quality Training; Number of ICT Grads; etc (periodic effort)		Central Administration for Statistics
4.05 Revitalize R&D and Indigenous ICT Innovation		
Create an Enabling Environment for ICT Researchers & Faculty Members		
Increase R&D Budgets in Universities		
Alignment & Knowledge Transfer Between Private Sector & 4.06 Academia		
ICT Educational Career Counseling		
4.07 Develop & Implement Distance Learning & Virtual Universities		
Encourage Education Institutes to Publish Data on the 4.08 Internet in Arabic and Foreign Languages		
Create a Database of Studies, Thesis, & Articles		



3 ICT as a Production Sector

0 201 00 01 110 010 010 11 0 0 0 0 0 1		
Indicates Priority Projects by Track		
Indicates National Priority Projects		
Program/ Project	Related Ongoing or Planned Projects	Proposed Ownership
3.01 Formalize & Boost the ICT Sector (Reduce Brain Drain)		
Streamline & Improve Quality of Local Hardware Production		
Simplify Governmental Processes Relating to Import & Export of ICT Products		
3.02 Revitalize R&D & Indigenous ICT Innovation		
Investigate the Creation of an R&D Fund		
Establish Incubators & Parks (with related legislation & fiscal		
incentives)	BETZ; Berytech	
3.03 Government Agencies and Actions		
Gather and Publish All Relevant (Goal-Specific) ICT Industry Status Data (periodic effort)		Administration for Statistics
3.04 Develop Lebanon-Based ICT Regional Services		
Lebanon-Based International Call Centers	Computer Asociates	
3.05 Encourage Investment in the ICT Sector (Local, Expat, Foreign)		
Setup SMEICT Fund		
Review & Improve Incentives (inc Tax Breaks) for ICT Startups		
(including e-Commerce Businesses) (Law 360)	Ongoing	IDAL
Reduce Taxes & Duties on ICT Hardware Manufacturers &		
Software Developers, to Encourage Export		
3.06 Increase Visibility of Local Industry (including ICT)		
Develop Awareness Campaigns Targeting Local Decision Makers		
Industry Level Participation in International Forums &	IDAL; Export Promotion	
Exhibitions to Promote the Industry	Board at the MoET	
Develop a Branding and Slogan for the Industry		
3.07 Develop & Implement Distance Learning & Virtual Universities		
Invest in e-Learning/CBT Commercial Solutions to Develop an		
Education Software & Content Development Industry		



2 Enabling Environment- National Policies Indicates Priority Projects by Track

Indicates National Priority Projects	
Program/ Project	Related Ongoing or Proposed Planned Projects Ownership
2.01 Launch ICT Enabling Legal Framework	
Develop and Pass "The Right to Information" Law	
Coordinate the Various Efforts to Create and Pass I	Laws
Develop & Pass a Comprehensive Set of ICT Laws signature; security; data privacy; cyber crimes; ha content for minors; consumer online protection; ar and unsolicitied marketing communication	ermful ECOMLEB & ICT & Trade; ICT nti-spam Parliamentary Parliamentary Committee Committee
Develop & Implement Effective Dispute Resolution esp ADR	Systems Ministry of Economy and Trade
Implement IPR Laws on Content & ICT Solutions (intrademarks, domain name registrations, copyrights & geographic indicators)	
2.03 Government Agencies and Actions	
Setup an Independent (cross-sectoral) Governmen Coordinate e-Strategy Implementation	The Office of the Prime Minister
Increase Government ICT Spending (including on F	R&D)
Set National Objectives and Benchmarks across Se	ectors
Gather and Publish All Relevant (Goal-Specific) IC (periodic effort)	T Data Central Administratio for Statistics
2.04 Deregulate & Privatize Telecom Sector	
Implement New Telecom Law 431 and Complete Telegulatory Authority (TRA) Setup	TRA Project Ministry of Telecon
Formulate a Nat'l Radio Freq Strategy & Policy Doc 2.05 Increase PC Penetration	cument
Reduce Taxes on ICT Equipment and Accessories	
2.06 Empower Vulenerable Groups to Use & Access ICTs	
Develop Laws to Guarantee Access to Information Disabled (Disability Legal Framework)	
2.07 Use ICT to Improve and Increase Access to Healtho	
2.08 Coordinate Implementation of National e-Strategy and Maintain the Implementation Plan	Steering Entity
Update Priorities for Years 3 and 4 in Accordance was National Priorities and Objectives	vith Proposed National IC Steering Entity
Identify Assessment and Monitoring Mechanisms	Steering Entity
Secure, Channel, and Coordinate Funding for Proje	
Coordinate the Implementation of Projects by Vari	Proposed Natioθal IC Steering Entity



1 Enabling Environment- In	nfrastructure
----------------------------	---------------

.IIG	ibiling Environment Infrastructure	
	Indicates Priority Projects by Track	
	Indicates National Priority Projects	

Ministry of Tolosom
Ministry of Telecom Ministry of Telecom
,
Ministry of Telecom
OGERO/MoT/OMSAR/ MoF
Ministry of Telecom
Ministry of Telecom & ISPs
j
Ministry of Education
Ministry of Education
OMSAR
)



Overview of current situation

- Basic Infrastructure is in place
- Preparation for TRA is complete
- Much time and effort is spent on conferences and verbiage, not any more
- High Tariffs being decreased
- Telecom sector is a cash cow
- Delay in enacting the new laws



Infrastructure highlights

- 1.01 connectivity and network speed
 - Broadband Access (xDSL)
 - Some network elements are required to be offered as unbundled services (i.e. MOT/OGERO to offer separate prices and access to the local loop, space within the exchange building and dark fibres) and Service Level Agreements (SLAs) should be established.
 - The lack of a Public Data Network in Lebanon enabling ISPs to connect to DSLAM/Modem in a local exchange is a major barrier to growth of internet penetration.



Infrastructure highlights

- This issue was solved through the MOU signed by His Excellency Minister Marwan Hamadeh with the ISPs
- MoT has lowered the international Tariffs, the decrease reached 60%
- Establish cost based rates for the local loop, collocation and dark fibre using a cost based regulatory model.
- Put interim unbundled rates that can be derived from benchmarking exercise and by comparison with competitive technologies
- MOT/OGERO is to offer ISP services by a separate group different from that offering wholesale unbundled services to other providers

This process in still ongoing but it is close to implementation, during the next month.



ICT Infrastructure: MoT efforts



ICT Infrastructure

Having a comprehensive and sound competitive framework for communications services matching international best practices by promoting competition, innovation, and investment in broadband services

By significantly reducing Internet and other data transmission tariffs traffic increases and total country income from the telecommunications, and sector will grow as prices come down

Investment in additional international Internet backbone using the same international competitiveness argument



ICT Infrastructure

Ensure competitive behaviour by offering ISPs a fair proportion of the trial DSL ports for their customers

Encourage sustainable competitive ISP services, international connectivity and competitive leased line and broadband data access services at internationally competitive prices

Memorandum of understanding among all the relevant Ministries to secure future collaboration in developing ICT Laws



ICT Infrastructure

- Regulate Voice over IP (VOIP)
- Establish a Lebanese ICT standards committee to agree adoption of international ICT standards, review local standards, create a detailed implementation plan, and ensure good publicity is given to the adherence to ICT standards. (Could come within the existing Lebanese standards committee's remit)
 - Single Government champion for ICT
 - Establish an independent source of trustworthy statistical information on the Lebanese ICT market
 - Regulate pricing



ICT Infrastructure: recommendations

This is really what is urgently required from MoT and later on from the

Telecom Regulatory Authority
TRA



ICT policies, MoT efforts:

Telecom Policy paper

Telecom Regulatory Authority



Telecom Policy Paper

"Telecommunications policy aims to transform the telecommunications sector in Lebanon from a state-owned monopoly to a competitive market, open to private participation".



Telecom Policy Paper

The policy is based on four basic pillars:

- the liberalisation of the telecommunications sector
- the establishment of an effective and efficient regulatory authority
- Open sector to private participation.
- Safeguard the social Objectives



Telecom Regulatory Authority

The Mission of the TRA

"To regulate the telecommunications sector so as to achieve a competitive environment delivering a range of high quality services at competitive prices, so as to assist in the development of the Lebanese economy for the benefit of businesses and all the citizens of Lebanon".



Telecom Regulatory Authority

The TRA will have responsibilities in six main categories:

- Licensing of telecommunications operations and services and compliance with licence conditions and other regulations.
- Management and monitoring of the radio frequency spectrum.
- Technical matters covering topics such as: Interconnection; Numbering; Standards; Type Approval; and Quality of Service.
- Consumer affairs; Public relations; and Protection of the consumers' interests.
- Economic and financial matters covering such aspects as: Policy; Market analysis; and Tariffs.
- Support and administrative services for the TRA including: Financial affairs; Internal auditing; Human resources; IT & information systems; and General internal services.



ICT Sector

Objective:

Provide the best ICT infrastructure and services to allow development of a knowledge-based society and economy.

How many times have you heard this statement?



ICT simple ideas to follow

- Forget our ego
- One man show Vs team work
- Agree on the fact that nobody owns ICT
- Start thinking of ICT as a tool not a target
- Work Vs Talk
- Learn from others
- Use the extremely rare resource: time

Because the clock is ticking



ICT Policy Making in ESCWA Countries:

Lebanese ICT Strategy: Infrastructure and Regulator perspectives

Thank you you can get more info from

E-gateway.gov.lb

Omsar.gov.lb

Tra.gov.lb

Mpt.gov.lb

I will be glad to answer your questions by the end of this session