

الإستراتيجية الإلكترونية الوطنية للبلاد

National E-Strategy For Lebanon



ICT National Policies

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Launching the National e-Strategy for Lebanon

The United Nations Development Programme

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The Office of the Minister of State for Administrative Reform

Track 2: National Policies

Priority Projects

Priority projects have been identified for all Tracks of the National e-Strategy, and not only for this particular Track. As for the nature of these projects, they generally fall under one of four categories:

- A- Infrastructure
- B- ICT Legislation
- C- Projects focusing on preparing future generations for being active in a knowledge society
- D- Projects focusing on bringing relevant digital content and affordable ICT services to the population at large

The first two categories are self-explanatory and have been discussed extensively in various forums over the past years. They constitute the basic enabling environment for a knowledge-based economy and society to take place. As will be discussed under the relevant Tracks of the Implementation Plan, work is moving along on the ICT Legislation portion, while Infrastructure projects seem to be stalled.

The third and fourth categories focus on providing basic building blocks for the “people” part of the knowledge society. They focus amongst other things on public schools curricula, teacher training, and providing affordable technology access points (MPCTs) as a public good service. They also focus on providing locally-relevant content and training to all segments of the population at large. In brief, they are projects with the aim of taking the majority of the population on their first steps towards incorporating technology as a tool in their lives, starting in many cases with basic awareness campaigns.

Projects dealing with the digitization of public domain content and with providing e-government services also take priority, since they are usually strong drivers of technology adoption. These projects fall under the fourth category, along with other non-governmental content and e-services.

It should be noted that while the first two categories require strong involvement and political will from the government, a lot can be done with the second two harnessing the efforts of the private sector and civil society, and using various donor funding. The point is made later under "Next Steps" that work on these projects should proceed in parallel to infrastructure work and legislation, and a lot can be done even before any coordinating Entity is put in place.

Finally, it should be stated that even if some projects are not listed as Priority but there is some momentum around implementing them (i.e. clear ownership and available funds) then such projects should be implemented. Therefore, within this context Priority Projects simply indicate projects where special focus and effort should be put towards getting them implemented.

Track 2: National Policies

The priorities in National Policies are clustered around three areas of work: Regulatory Environment; Government Actions including the creation of a National e-Strategy Coordination Entity; and Deregulating the Telecom Sector.

In regards to the first, the good news is that there is significant work taking place around creating a basket of ICT enabling laws. There are a few committees/ projects focusing on this, the most significant of which is the ECOMLEB project being implemented at the Ministry of Economy and Trade with funding from the European Union. Another group working on such laws is the ICT Parliamentary Committee. It is essential that these various groups coordinate their effort, to avoid duplication. The ECOMLEB project expects to complete its work in the first quarter of 2005, with the laws being passed later in the year.

A number of government actions constitute the second area of priority. Amongst these, the creation of a National e-Strategy Coordination Entity to oversee the implementation of the e-Strategy is the absolute pre-requisite and top priority project, irrespective of its format (ministry, independent government entity, etc.) On the one hand, its creation is a statement that the government recognizes the importance of ICTs for the general development and well-being of the country, and that there is clear leadership backing to the e-Strategy. On the other, there will be a formal body whose main task is to coordinate the effort and push for the implementation of Programs, both in the public and private domains.

As discussed earlier, the format for such an Entity that seems to be most favored amongst various stakeholders interviewed is an independent government agency. But again, regardless of the format, some entity needs to be created, as without a coordinating body all efforts to push for the implementation for the e-Strategy will remain scattered and weak.

Other needed government actions include the definition of a number of national objectives with benchmarks and dates for achieving them. In addition, the government has to demonstrate its commitment to using ICT as a development tool by increasing its ICT budgets, which would in itself add momentum to ICT usage in many sectors.

Deregulating the telecommunications sector is another area of priority. There has recently been some movement in this direction through the passing of Law 431, and the establishment of the Telecommunications Regulatory Agency (TRA). The operational setup of the TRA needs to be completed as soon as possible to ease restrictions and streamline licensing processes. The benefits of moving the sector into a free market economy include more competition to the benefit of the consumer and opening up to foreign investors.

Finally, there are other legislative action items the government needs to take to provide the environment and incentives for ICT to help in various sectors. Examples of these are the reduction of taxes on ICT equipment and accessories and the creation of laws designed to provide increased access to information and technology to groups with special needs. Appropriate regulations need to be developed as well for sectors such as Healthcare and Education, both to enforce usage as well as control quality of services.

1 Enabling Environment- Infrastructure

Priority Projects

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2008 By End of 2015
1.01 Improve Connectivity & Network Speeds in Lebanon						
Make Broadband Access Available Throughout the Country (xDSL)		Ministry of Telecommunications		ICT Infrastructure		
Increase International Bandwidth		Ministry of Telecommunications		ICT Infra		
Improve Nat'l Fixed Line Telecom Infrastructure to Allow for Enhanced Internet Backbone		Ministry of Telecommunications				
Complete Intelligent Network Project		Ministry of Telecommunications				
Consider Alternative Technologies to Fixed Lines (Wireless, Satellite) esp in Rural Areas		Ministry of Telecommunications		ICT Infrastructure		
				Access to Info & Knowledge		
1.02 Improve Affordability of Connectivity						
Further Decrease Dial-Up Connectivity Costs		Ministry of Telecom & ISPs				
Lower High Cost of Bandwidth to ISPs, & High Cost of Internet Access (ISPs) to Consumers			5.01			
1.03 Increase Usage of ICTs including the Internet						
Establish Multi Purpose Community Tele Centers (MPCTs) (subsidized and/or self-sustaining)	Various (PiPop; UNDP Regional; Safadi Foundr, etc)	Various Government; NGOs; Private		Access to Info; Enabling Envmt		
Equip 15 Public Libraries with Multimedia Centers & Free Internet Access		Relevant Ministries (Education; Culture; Social Affairs..)		Access to Info; Enabling Envmt		
Provide Access in All Rural Areas Currently Outside the Telecom Backbone				ICT Infra; Enabling Envmt		
1.04 Provide Infrastructure in Schools						
Equip Public Schools with Computer Labs & Connectivity (maybe used after hrs as MPCTs)	Various Limited Initiatives	Ministry of Education		ICT Capacity Bldg/ Dev HR		
Identify, Collect, Refurbish, & Redistribute Second Hand Equipment	UNESCO Computer Refurbishing Project	UNESCO	2.05			
1.05 Increase PC Penetration						
Provide Low Income Families with Affordable PCs	PC4All (not begun)	OMSAR				
Develop Mechanism to Streamline Donations						
1.06 Revitalize R&D & Indigenous ICT Innovation						
Equip R&D Centers with High-Speed Internet Access				ICT Capacity Bldg/ R&D		
1.07 Upgrade Industrial Zones						
Equip Zones with High-Speed Internet Access						
1.08 Develop Sector-Specific Secure Networks						
Realize Banking Secure Network Infrastructure	SEBIL (BDL)					
Realize Education Secure Network Infrastructure						
Realize Tourism Secure Network Infrastructure						

2 Enabling Environment- National Policies

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2015
2.01 Launch ICT Enabling Legal Framework				Bldg Confidence, Trust, & Security		
2.02 Promote & Encourage e-Commerce				e-Commerce Apps		
Develop & Pass Laws Against Harmful Content for the Protection of Minors	ECOMLEB	Ministry of Economy & Trade	6.04, 7.05	Enabling Envtmt		
Develop & Pass Security & Data Privacy Laws	ECOMLEB	MoET		Bldg Confidence, Trust, & Security		
Develop & Pass Cyber Crimes Laws	ECOMLEB	MoET		Bldg Confidence, Trust, & Security		
Setup Collaboration with Interpol HiTechCrime Unit & Rapid Info Exchange System		ISF		Bldg Confidence, Trust, & Security		
Join Int'l Organizations against Cyber Crime Prevention e.g. The Council of Europe's Convention on Cyber Crime						
Develop & Pass Consumer Protection Law for Online Communications & Transactions	ECOMLEB	MoET				
Develop & Pass Anti-Spam / Unsolicited MarCom Prevention Laws	ECOMLEB	MoET				
Implement Laws that Prevent Unauthorized Access to Communication		TRA				
Set-up Real Time Incident Handling Points		Civil Courts				
Develop & Pass Effective Dispute Res Systems esp ADR		MoET				
Develop & Pass e-Signature Law	ECOMLEB	MoET				
Implement IPR laws on Content & ICT Solutions (Inc trademarks, domain name registrations, copyrights, patents, & geographic indicators)				Bldg Confidence, Trust, & Security		
Develop Legal Frameworks for e-Gov Applications, Particularly e-Procurement	On Hold	MoET		e-Gov Apps		
2.03 Government Agencies and Actions		OMSAR	4.04, 7.03			
Setup an Independent (cross-sectoral) Government Entity to Coordinate e-Strategy Implementation				Policies & Strategies		
Increase Government ICT Spending (Inc. for R&D)				Cap Building/ R&D & ICT ENT		
Set National Objectives and Benchmarks across Sectors				Policies & Strategies		
Launch an Entity to Gather and Publish All ICT Data across Sectors						
Setup an Inf Decision Support Center (Public & Private Use)						

Indicates Priority Projects

2 Enabling Environment- National Policies

Indicates Priority Projects

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA Enabling Envmt	Implementation Timeline	
					Immediate	By End of 2008 By End of 2015
2.04 Deregulate & Privatize Telecom Sector						
Implement New Telecom Law 431						
Finalize Telecom Regulatory Authority (TRA) Setup	TRA Project	Ministry of Telecom				
Streamline Telecom Licensing Procedures to Encourage Competition						
Formulate a Nat'l Radio Freq Strategy & Policy Doc						
Encourage Convergence of Telecom Services			1.05			
2.05 Increase PC Penetration						
Reduce Taxes on ICT Equipment and Accessories			5.04	Enabling Envmt		
2.06 Empower Vulnerable Groups to Use & Access ICTs						
Develop Laws to Allow the Disabled to Access Information (Disability Legal Framework)						
2.07 Use ICT to Improve and Increase Access to Healthcare						
Develop a Legal Framework & Quality Criteria for e-Health Applications			5.06	e-Health Apps		
Develop Electronic Medical Records						

3 ICT as a Production Sector

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2015
3.01 Formalize & Boost the ICT Sector (Reduce Brain Drain) Identify Niche Towards Establ a Center of Excellence in SW and/or HW Development Streamline & Improve Quality of Local HW Production (if applicable) Gather & Disseminate Best Practices & Professional Expertise in Bldg Software (e.g. CMM) (if applicable) Launch Lebanon-Based Int'l Call Center (if applicable) Agree on Open, Inter-Operable, Market-Driven Standards Launch ICT Professionals Syndicate & Reform Labor Laws to Incentivize ICT Professionals Enhance National ICT Professional Associations Simplify Governmental Processes Relating to Import & Export of ICT Products				Cap Bldg; ICT Enterprises e-Gov e-Employment e-Employment Cap Bldg; ICT Enterprises Infra		
3.02 Revitalize R&D & Indigenous ICT Innovation Establish Joint Gov/Private Sector/Academia R&D Modalities to Develop Local Technological Solutions e.g., Arabic Talkster Establish Incubators & Parks (with related legislation & fiscal incentives) Create an Enabling Environment for ICT Researchers & Faculty Members Establish an Open Source Forum with a Network of OSS Experts to Assist Public, Private, & NGOs In Using Freeware Solutions Develop OSS Applications for Private Sector Commercial Use esp SMEs Setup SMEICT Fund	BETZ; Berytech			Cap Bldg/ R&D ICT Capacity Building/ R&D & ICT ENT Cap Bldg/ Dev Hmn Res Cap Bldg/ ICT Enterprises Cap Bldg/ ICT Enterprises Enabling Envrmt		
3.03 Encourage FDI in the ICT Sector Review & Improve Incentives (Inc Tax Breaks) for ICT Startups (Including e-Commerce Businesses) (Law 360) Reduce Taxes & Duties on ICT Hardware Manufacturers & Software Developers, Including on Components (if applicable)	Ongoing	IDAL		Cap Bldg/ ICT Enterprises Cap Bldg/ ICT Enterprises		

3 ICT as a Production Sector

Indicates Priority Projects

Program / Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2008 / By End of 2015
3.04 Increase Visibility of Local Industry (inc. ICT) Industry Level Participation In Int'l Forums & Exhibitions to Promote the Industry			6.03	Cap Bldg/ ICT Enterprises		
3.05 Develop & Implement Distance Learning & Virtual Universities			4.06	Cap Bldg/ ICT Enterprises		
Create Strategic Alliances with International Firms Survey Educational Software to Determine Those Suitable to Local Needs (customization and/or translation) Use R&D Centers (above) to Trigger Innovative Modalities & Methods Related to Teaching and/or Adapt International Modalities				Capacity Building Cap Bldg/ ICT Enterprises		
Invest in R&D for Arabic-Based Applications for Education & Learning				e-Learning Apps		
Invest in e-Learning Commercial Solutions to Develop an e-Learning Industry				e-Learning Apps		

4 ICT for Human Capacity Development

Indicates Priority Projects

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2015
4.01 Review & Update Education Strategy to Include Formal ICT Education Programs				Cap Bid/ Dev Hum Res		
Complete Incorporation of ICTs in Public Schools Curricula	SIS (Eduware Project)	Ministry of Education M of E, OMSAR, NGOs		Cap Bid/ Dev HR		
Complete All Public Schools Teacher Training				Cap Bid/ Dev HR		
Encourage ICTs in Private Schools Curricula				Cap Bid/ Dev HR		
Encourage Training of All Private Schools Teachers				Cap Bid/ Dev HR		
Institute ICT as a Prereq Skills for Graduating Teachers		Ministry of Education				
Adopt Hybrid Courses in Schools & Combine Instructor-Based with Online Instruction (Dynamic Learning Environments)	SchoolNet Project	Ministry of Education		Cap Bid/ Dev HR		
Modify Existing University Curricula to Include ICT in All Degrees e.g. Law Degrees				Cap Bid/ Dev HR		
Partner with Leading Int'l Institutions (e.g. IEEE & ACM) for ICT Program Development				Cap Bid/ Dev HR		
Develop Postgraduate Degrees in ICTs (Masters & PhDs) (Potentially Joint, Virtual, & Distributed)				Cap Bid/ Dev HR		
4.02 Review & Update Vocational Education Strategy to Incorporate ICTs				Cap Bid/ Dev Hum Res		
Complete Incorporation of ICTs in Vocational Education		Ministry of Education M of E, OMSAR, NGOs				
Train Vocational Schools Teachers on ICT Skills						
Develop or Customize More Digital Educational Content for Vocational Training				Cap Bid/ Dev HR		
Upgrade Vocational Schools' Curricula to Align with Evolving Market ICT Needs				Cap Bid/ Dev HR		
Adopt Hybrid Courses in Vocational Schools & Combine Instructor-Based with Online Instruction (Dynamic Learning Environments)		Ministry of Education	5.05	Res		
4.03 Encourage Informal ICT Training Programs						
ICT Skills Portal (ICT Skills Learning Online)						
Develop/ Customize Training Content Aligned with Evolving Skills Based on Market Demands				Cap Bid/ Dev HR		

4 ICT for Human Capacity Development

Indicates Priority Projects

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2015
4.04 Government Agencies and Actions			2.03, 7.03			
Adopt Public ICT Literacy Syllabus & Benchmarks (e.g. ECDL)						
Set National Targets (e.g 100% Digital Literacy in Relation to Literacy by 200X)						
Launch an Entity to Gather and Publish All Relevant ICT Data: Number of Institutes Providing Quality Training; Number of ICT Grads; etc						
Establish Website to Consolidate All Student Loan Information (and Later On, Applications) Online						
4.05 Alignment & Cooperation btw Private Sec & Academia						
Align ICT Skills & Curricula with Market & Economic Needs						
Align University Policies to Produce Number of ICT Grads in Line with Projected National & Regional Market Demands						
ICT Educational Career Counseling						
Encourage Businesses to Benefit from Student Training & Final Year Projects				Cap Bid/ Dev HR		
4.06 Develop & Implement Distance Learning & Virtual Universities			3.05	e-Learning Apps		
Develop Specific e-Learning/ CBT Content for Lebanon				e-Learning Apps		
Implement Quality Certification for Online Educational Services				e-Learning Apps		
Launch Virtual Universities & Schools, Reducing Both Cost of Learning and Time Spent away from Work				e-Learning Apps		
Setup a National e-Learning Network						
Update Existing Education Policies & Legislation to Support, Regulate, and Formally Recognize Online Learning				e-Learning Apps		
4.07 Encourage Education Institutes to Publish Data on the Internet in Arabic and Foreign Languages				Access to Info		
Create a Database of Studies, Thesis, & Articles						

5 ICT for Social Development

Indicates Priority Projects

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2015
5.01 Increase Usage of ICTs Including the Internet by Catering for Needs & Providing Incentives			1.03			
Local Surveys of ICT Needs	UNDP Regional; CRTD-A Needs Assessment					
Develop Applications/ Content Serving Local Needs, for Use in MPCCS	Netcorps; UNDP Regional			ICT Infrastructure		
5.02 Blend ICTs with Local Traditional Industry to Build Local Capacity & Increase Productivity & Visibility				Cap Bldg/ R&D		
Develop Women-Based Micro Industries	Rural Delights			e-Commerce & e-Business		
Locate Potential Customers & Link Them to Rural Areas Through e-Commerce				Access to Info		
5.03 Develop & Promote Local Arabic Content						
Citizen's Guide to Skilled & Craft Services on the Web						
Sports & Recreational Network						
Youth & Volunteer Network						
Job Opportunities Portal						
Public Libraries & Museums Network						
Charity Services Network						
Virtual Citizen Communities	Baldati.org					
Digitize Journals, Books, Scientific Research (respecting IPRs)						
Country Development Gateway	LDG			Cultural Content		
National History & Cultural Heritage Portal						
Encourage New Online Content Creation by Traditional Media			2.06			
5.04 Empower Vulnerable Groups to Use & Access ICTs						
Develop Content for a Disabled Network/Resources Portal						
Establish Disability Training, Counseling, & Technology Center (around MPCTs)						
5.05 Encourage Informal ICT Training Programs						
Develop Content for Promoting Women's Rights	ICT for Women & Children Rights (UNDP & Local NGO)		4.03			
Introduce Courses Targeting Skills Training for Young People, Women, & the Elderly				e-Learning Apps		
5.06 Use ICT to Improve and Increase Access to Healthcare				e-Learning Apps		
Develop CBT Content to Fight Illiteracy						
Use MPCTs to Provide Online Access in Remote Areas to Doctors and Hospitals				e-Health Apps		
Develop Health Information Content (HIV; Women's Health; etc) for Use in MPCTs				e-Health Apps		

6 ICT for Business & Economic Development

Indicates Priority Projects

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline
					By End of 2008
					Immediate
Blend ICTs with Local Industry to Build Local Capability & Increase Productivity					
6.01 Revitalize R&D & Indigenous ICT Innovation			5.02	Cap Bidg/ R&D; e-Com Apps	
6.02 Encourage the Use of OSS in SMEs, Educational & Health Institutions, & in Public Sector			1.06, 3.02	Promoting ICT Enterprises	
Streamline All Processes Related to Operations to Lower Costs & Reduce Inventory. (Accounting; HR; Inv Control...)				e-Commerce & e-Business Apps	
Develop a National Tourist Network (What's On)	Destination Lebanon	Ministry of Tourism			
Develop Media Industry and Encourage Convergence					
Mandatory Periodic Formal Training to ICT Professionals					
Agribus		Ministry of Agriculture			
Transfer ICT Skills from Universities to Industries					
6.03 Increase Visibility of Local Industry (inc. ICT)			3.04		
Trade Information Center (online)	TIC @ MoET				
Trade Point for Lebanon (online)					
Lebanon Business Promotions Entity					
6.04 Promote & Encourage e-Commerce					
Establish Adequate Framework for Electronic Payments	()				
Build an e-Commerce Portal	e-ComLeb			e-Com Apps	
Design & Implement a Help Desk & Call Center				e-Com Apps	
Establish National e-Commerce Awards Scheme	USAID Awards				
6.05 Develop New ICT-Services Based Industries					
Activate & Speed-Up E-Banking					
Lebanon-Based International Call Centers					
Setup Data Entry & Transcription Centers	InfoPlus				
6.06 Develop & Promote Public Domain Content					
Setup Business Startup Advisor			7.01	Access to Info	
6.07 Upgrade Industrial Zones			1.07		

7 E-Government

Indicates Priority Projects

Program/ Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2008 By End of 2015
7.01 Develop & Promote Public Domain Content	UNDP's "Access to Public Info" Project		6.06	Access to Info		
Citizen's Guide to Health Information & Services						
Citizen's Guide to Legal Issues						
Citizen's Guide to Governmental Procedures	INFORMS	OMSAR				
Citizen's Guide to Consumer Protection						
Citizen's Guide to Road & Transportation Information						
Citizen's Guide to International Relations & the Diplomatic Network						
Citizen's Guide to Labor Relations						
Citizen's Guide to Electoral Information	Digital Library	Ministry of Justice				
Judiciary Knowledge Base						
Social Affairs Information System (Including Statistics)						
National Archives (Digital)	Various					
Online Presence for All Ministries/ Gov Agencies						
Official Gazette (Online)						
7.02 Develop & Promote Public e-Services						
Automate Public Notary Services	Ongoing	Ministry of Justice		e-Gov Apps		
Launch Web-based Tax Filing Forms	NOOR	Ministry of Finance		e-Gov Apps		
Automate Customs Declarations	Cadastre Project	Ministry of Finance				
Real Estate Register						
Online Commercial Registry						
National Fund for Social Security Register	First Stages					
Prepaid Charge Card for Public Sector Transactions	Study			e-Gov Apps		
Implement National ID & Smartcard						
Online Civil & Criminal Records	Automated; Not Online	ISF & Ministry of Interior				
Residence & Work Permits		Ministry of Labor				
Passport Issuance & Renewals						
Automate Business Registrations & Renewal of Licenses	Automated; Not Online			e-Gov Apps		
Automate Vehicle Registration & Excise Tax Payments						
Automate Applications for Building Permits						
Automate Declarations to the Police						
Publish Terms of All Bids & Tenders Online						
e-Billing Services for Utilities	GISEL					

7 E-Government

Indicates Priority Projects

Program / Project	Relevant Projects	Ownership	Other Track	Reference to WSIS-RPoA	Implementation Timeline	
					Immediate	By End of 2008 By End of 2015
Government Agencies and Actions (Streamline Processes and Remove Anti-Patterns)				Access to Info; 2.03 Enab. Envtmt; Cap		
7.03 Formulate Public Sector Data Definition & Exchange Standards for All Sectors		OMSAR				
Implement Public Sector Data Definition & Exchange Standards for All Sectors						
Implement ICT Standards & Guidelines	On Hold	LIBNOR, OMSAR				
Manage ICT Resources in the Public Sector		OMSAR				
Streamline Domain Name Registration Process						
Develop ICT Org. Structure & Salary Scales for Civil Servants	On Hold	OMSAR				
Improve Project Management in ICT Units	ARLA					
Adopt & Automate Streamlined Workflow Systems to Gov Processes (esp Services to the Citizen)				e-Gov Apps		
7.04 e-Government Infrastructure						
7.05 Promote & Encourage e-Commerce			2.02			
Centralize & Implement a Gov. e-Procurement Application						
Create LANs for All Government Ministries & Agencies						
Link All Government Networks Together	Ongoing	OMSAR		e-Gov Apps		
Link Lebanese Government to All Its Diplomatic Missions	Study					
Implement ERP Applications, Including Financial, Human Resource Management, & Property Management Systems				e-Gov Apps		
Develop Governmental Knowledge Management Systems, Inc Document Management & Archiving				e-Gov Apps		
Automate Preparation and Control of National Budgets						
7.06 Establish Formal ICT Training Programs						
Train All Civil Servants	Ongoing	OMSAR		Cap Bid/ Dev Hum Res		
Extensive Training for Law Enforcement & Judiciary Staff on Cyber Crimes & Relevant Security Issues				e-Gov Apps		
Train Staff in Public Health Institutions on ICT-Based Tools	ECOMLEB			Building Confidence, Trust, & Security		
7.07 Expand the Use of GIS & GPS Systems				e-Health Apps		
Country Wide GIS Information Tool	CDR					

8 Media & Promotion

All for Immediate Design & Implementation

Audience	Medium	Objective	Relevant Projects
8.01 General Public	Local Workshops	Increase Awareness of How to Use ICT and the Internet as Tools	UNDP's Needs-Based Awareness Campaign
8.02 General Public	Mass Media & Local Workshops	Educate on Overcoming Privacy & Security Concerns, and Limiting Access to Harmful Content	
8.03 General Public	Mass Media	Promote Public Domain Content and e-Services	UNDP's "Access to Info" Project
8.04 Local Decision Makers	Local Workshops	Increase Awareness of ICT for Local Community Development	
8.05 Owners of Large Private Businesses	Workshops and Seminars	Increase Awareness of Efficiencies and Increased Productivity from ICT Solutions	
8.06 Investors	Workshops and Seminars	Educate on Investment Opportunities in Knowledge-Based and ICT Industries	
8.07 Parliamentarians	Workshops and Seminars	Inform about New ICT Legal Frameworks	ECOMLEB
8.08 Legal Community	Workshops and Seminars	Inform about New ICT Legal Frameworks	ECOMLEB
8.09 Senior Government Decision Makers	Presentations & Case Studies	Educate on Impact of ICT on Development	
8.10 Lebanese Diaspora	Local Events through Consulates; Em	Promote Investment Opportunities & Incentives	