

Workshop on ICT Policy Making in ESCWA Member Countries

Beirut, 2-4 May 2006

Benchmarking Plan of Action

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Views expressed are those of the regional advisor and do not necessarily represent those of UN-ESCWA



Agenda

- > The narrative
- > The structure
- > Benchmarking
- > Example
- Discussion



The narrative



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Articulating Policy and Strategy

- Vision long term implications of the diffusion of ICTs
 - Outcome: outline short and long term scenarios for ICT development, including measurable outcomes over a given timeframe
- Strategies Directing the body of policy and provide a framework for policy implementation
 - Strategic framework to explain policy decisions and choices



Coverage of an ICT plan of action*

- Fight against poverty (MDGs, etc..)
- > Application in local and community development
- > Greater access to information about livelihoods
- > Better government for the people
- Crises prevention and recovery
- Research, environmental observation and management
- > Health and the fight against disease
- > ICT as an industry

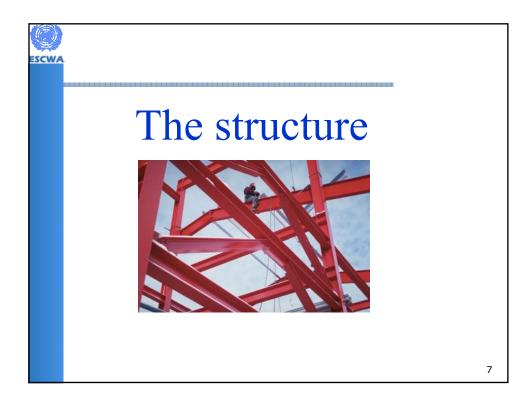
*UNDP - APDIP ICT4D Series

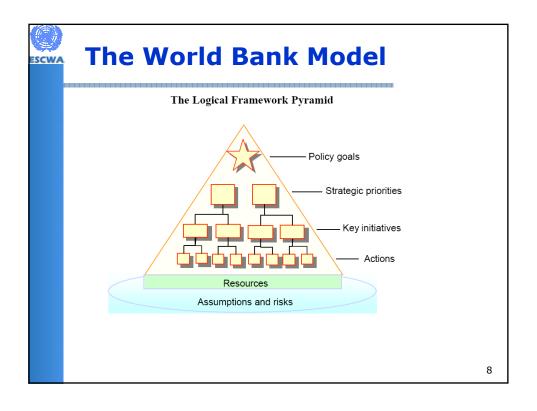
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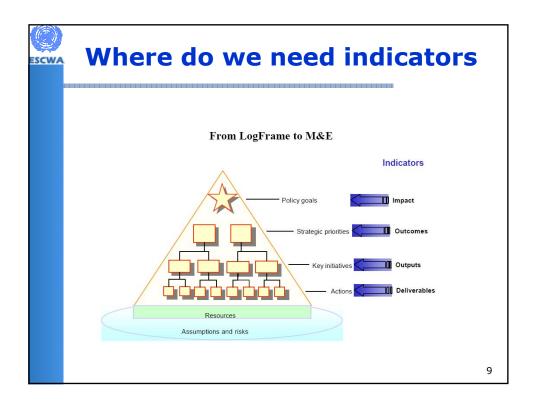


Plan of Action - National Profile

- Policies and strategies;
- Legal and regulatory frameworks;
- ICT capacity building;
- ICT applications;
- ICT core indicators;
- ICT and Millennium Development Goals (MDG)







Output	Quantitative indicator	Qualitative indicator
Cipació of KCT focused learning institutions simproved, e.g.: a necusuable improvement of teachers' qualification in such institutions, quantified support to teachers responsible for introducing computers in classes and curicula, similar output for the business sector (on-the-job training)	Teachers of general and vocational schools trained in basis ICT shills and use ICT in teaching increases by X% In-service raining of managers in the use of ICT in educational settings increases by X% Training programs and materials for in-service training useful for increase by X% and applied increase by X% produced and applied increases by X%. Number of professional teaching staff increases by X% Number of professional teaching staff increases by X% Number of windows producing increases by X%. Number of windows graduating increases by X%. Number of windows graduating increases by X%.	Rating of graduates' capabilities by private sector increases by X points Rating of institutions by standards agroey increases by X points
Demand for ICT education/training increased	Number of students applying to technical institutions increases by X%	Secondary curricula places greater emphasis on ICT-focused subjects
Quality of ICT education improved at tertiary/vocational level	X number of partnerships formed with purvite sector X number of partnerships formed with foreign institutions Distance education service, extend access to X number of students to a full curiculum. X number of students paduluning with recognized certification from accredied ICT-training institutions.	Testiary/vocational curicula includes market-leading techniques and knowledge An established information environment that provides a range of support systems through use of ICT. Hot lare services established to support trachers and advisors in their use of hardware and software.



Traversing the pyramid layers

Pyramid Layer	Objective		
Policy goals	Grow the country's ICT industry		
Strategic priorities	Increase stock of locally trained ICT professionals		
Key initiatives	Improve capacity of ICT-focused learning institutions		
Actions	Conduct capacity needs assessment Create grant program Establish staff recruitment culteria	Assessments completed in X%s of institutions by month A. Established by month B. X% of groat facility funds disbursed to eligible institutions by month C. Staffing needs for X%s of institutions completed by month D.	

	Responsibility for gathering and malyzing M&E data
	SO or Ministry of rade & Industry
M	linistry of Education
	linistry of Education or coject Team
Pi	roject Team

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Benchmarking





Benchmarking steps

- Identification of base values for performance indicators
- > Fixing timeline for the targeted values as related to plan of action
- Determining the targeted value for each indicator
- Estimating unit costs per item in the selected indicators

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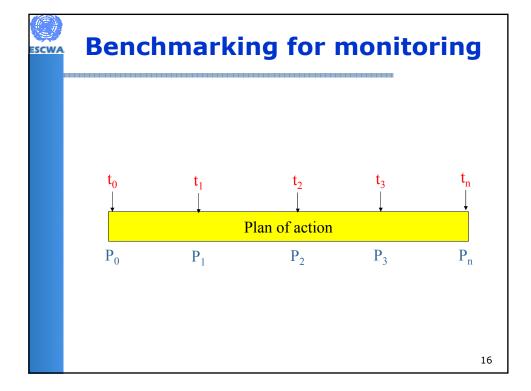
Benchmarking assumptions

- Performance Index P = Collection of indicators i's
- ▶ Plan start time t₀
- End of plan time t_n
- \triangleright Planned change in indicator $\Delta i = i_n i_0$
- \triangleright P = {i₁, i₂, i₃, i₄,.....}
- \triangleright Performance Index at $t_0 = P_0$
- \triangleright Performance Index at $t_n = P_n$



Cost calculations

- \triangleright Planned outcome $\triangle P = P_n P_0$
- \triangleright Cost of planned outcome $\Delta C = \Sigma i*c$
- \rightarrow { $i_{1*} c_1 + i_{2*} c_2 + i_{3*} c_3 + i_{4*} c_4 + \dots$ }





Metrics for monitoring and evaluation

Possible ICT benchmarks:

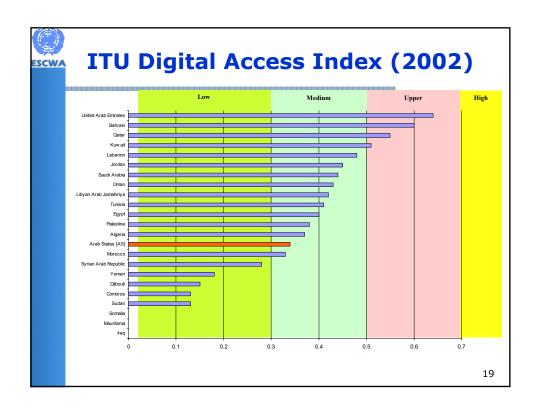
- Technology Achievement Index (TAI)
- Millennium Development Goals (MDGs)
- Digital Access Index (DAI)
- The partnership set of ICT core indicators

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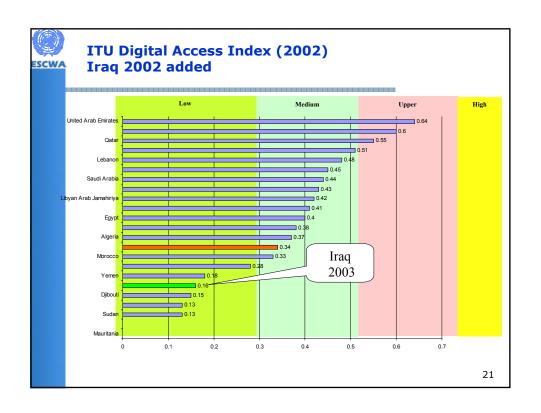
Example

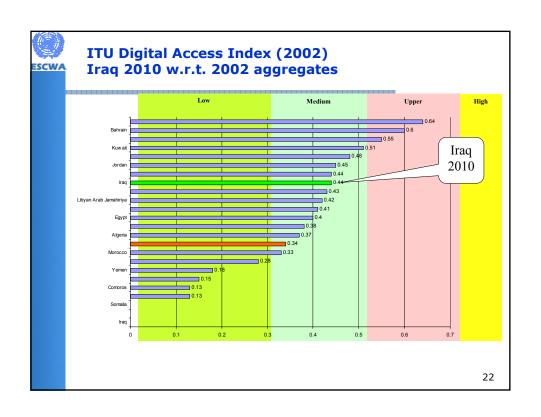




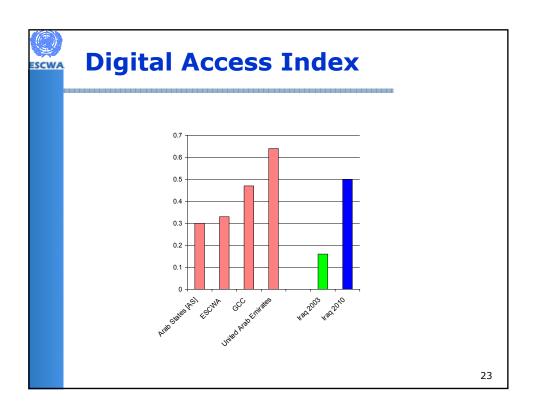
Category	Variable	Iraq 2003 Values	Iraq 2010 value
1. Infrastructure	1. Fixed per 100	3	30
	2. Mobile per 100	0.3	30
2. Affordability	3. Internet access price as % of GNI per capita x 100	50	100
3. Knowledge 4. Quality	4. Adult literacy	40	60
	5. School enrolment	58	70
	6. Internet bandwidth per capita	1.5	50
	7. Broadband subscribers	Almost 0	2
5. Usage	8. Internet users per	1.0	10

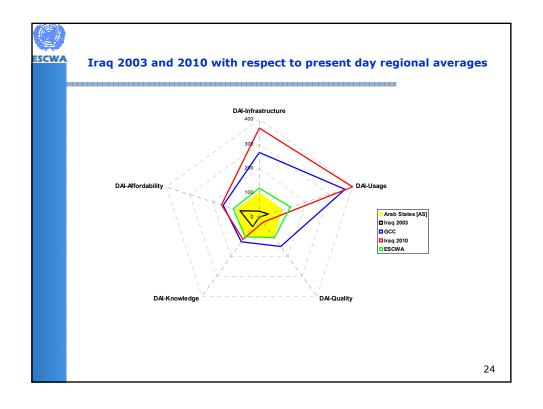
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Estimated cost of the basic ICT infrastructure

	Year 2010 subscribers (000)	Unit cost \$	Total cost M\$	Yearly cost M\$
Fixed	8000	600	4800	400
Mobile	8000	350	2800	234
Broadband (ADSL)	36	1000	36	3
Internet	280	100	28	3
PC's	250	500	125	11
TOTAL			≈ \$7800	≈655
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Thank you

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