



ICT and Education Reform in Morocco

The Experience of the ALEF Project in Morocco

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Context



■ Education Reform in Morocco

*1999-2009 King names “the education decade”
Jan. 08 Minister declares “State of Emergency”*

■ ICT Integration in Schools

*+\$100 million dollar investment in school
multimedia labs – The GENIE Project*

■ The ALEF Project

Improving youth « employability » by reinforcing education quality, relevance and social mobilization

The ALEF Project: ICT Component



Infrastructure –Installation of multimedia labs in 16 pilot middle schools and 4 regional teacher training facilities, including hardware, software and internet connection.

Training –Training to help educators and managers operate the lab facility, to use ICT to strengthen teaching and learning in the classroom and to promote vibrant professional interaction. Support to regional education administrators to develop and implement teacher training programs.

Content –Creation of online information platforms where Morocco's education community can find and share information and resources to strengthen their teaching, their students' learning and community involvement. Support teacher produced multimedia content.



Preliminary Lessons

- ICT not a substitute for broader education reform

Necessity to Separate Reality from Rhetoric

- ICT can sometimes create conditions needed for reform

Possibility of creating demand for reforms from the base

- ICT may « grease the wheels » of reform once they start turning

Ability to facilitate economies of scale

ICT not a substitute for broader education reform:

Quality \neq School Multimedia Labs



- Many labs closed or under-used

Lab Management Problems

- Relatively few teachers regular lab users

+ Computer Science teachers, Science teachers

- Teaching not transformed

Strong preference for ICT as a presentation tool



ICT and the Foundations for Reform



■ Getting Information Out

Is Morocco really just above Djibouti and Yemen?
ICT Newsletters

■ Networks for Change

Bloggers' movement « Save our Education System.. »
ICT People, Regional ICT Facilitators' Network

■ ICT Champions

Papert's Trojan horse

ICT may grease the wheels of reform once they start turning:

Speeding and Scaling Reform



- ICT as a low cost Mass Media

Bottom-up and Top down; Blogs, podcasts

- E-learning and Educational Media

Collab.tarbiya.ma,

- Communities of Practice

Tarbiya.ma



Recommendations for GENIE

■ Rethink Infrastructure Strategy

- Discard blanket approach-prioritize and differentiate by grade levels, purposes, readiness
- Facilitate teachers acquiring personal computers
- Support cyber cafés-incentives and standards for public access

■ Rethink training processes and mechanisms

- more teacher centered teacher training- not just what but how –favor peer coaching, master teachers
- develop a professional development strategy with incentives and priorities



- Rethink training content

- Skills for analyzing and diversifying teaching strategies and evaluating outcomes
- Develop model approaches that integrate with curriculum

- Rethink Implementation Strategy Development processes

- Decentralize Implementation strategy development not just implementation