Round Table on CT as an Enabler for Economic Development

28130 April 2004 UN House, Bennis Jackerich

Distr. LIMITED E/ESCWA/ICTD/2004/WG.1/13 27 April 2004 ORIGINAL: ENGLISH

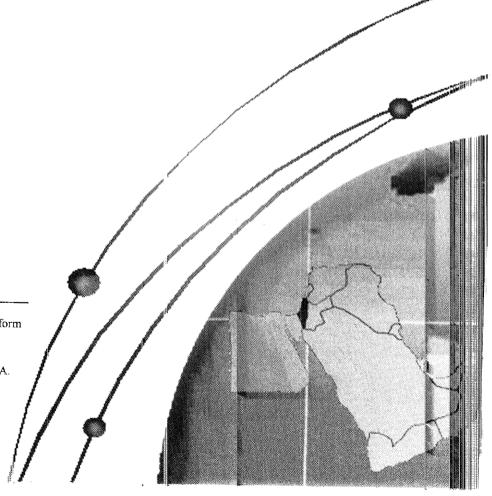
MAKING TELECENTRES WORK

Ву

Souheil Marine ALCATEL Beirut, Lebanon

Note: This document has been reproduced in the form in which it was received, without formal editing. The opinions expressed are those of the author and do not necessarily reflect the views of ESCWA.

04-0214





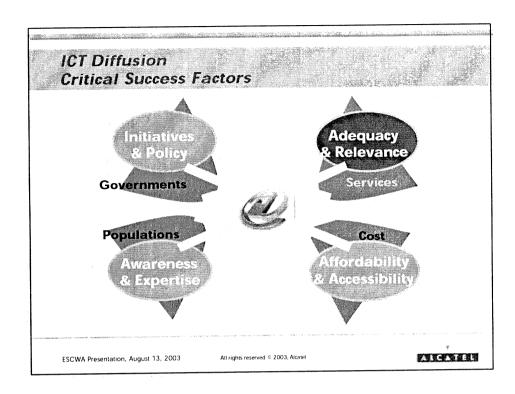
Presentation Outline

- > Success Conditions
- > Providing Useful Services
- > Network Solutions
- > The Deployment Project

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcate

ALGATEL



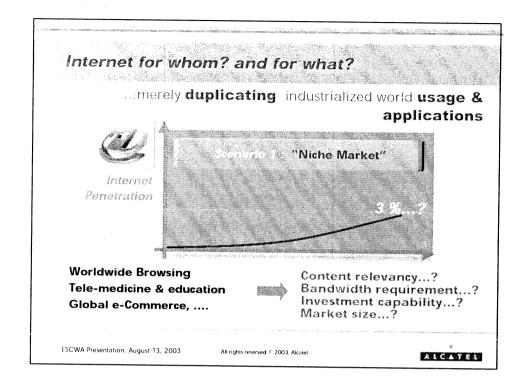
What Services can be offered by a Tele Center?

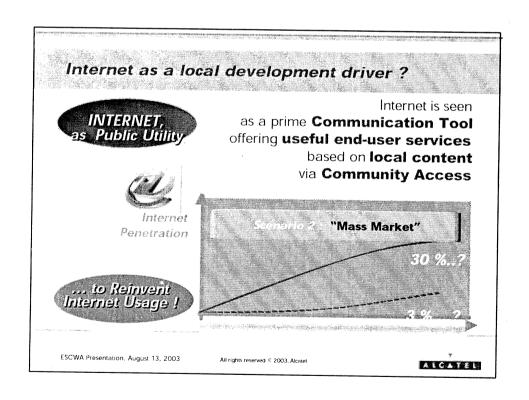
- > Telephony, Fax
- > Office Services
- > Internet
 - ·E.mail
 - ·Web Surfing, chat, ...
 - Added Value Services?
- > Training
- > Business Environment

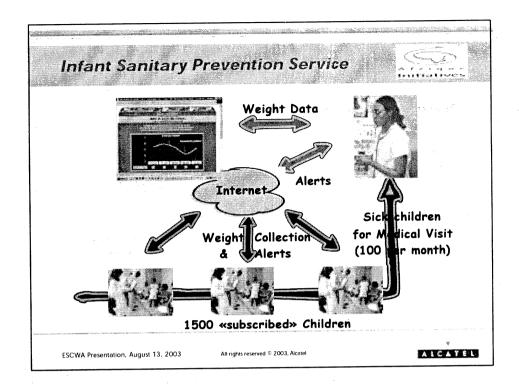


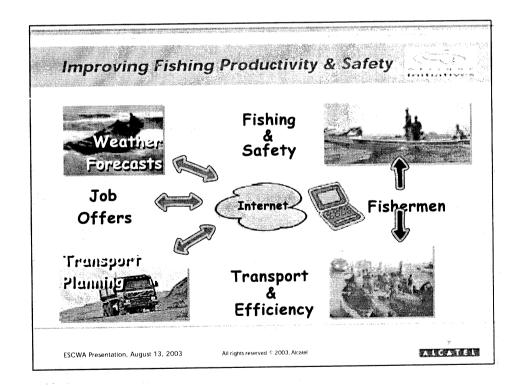
ESCWA Presentation, August 13, 2003

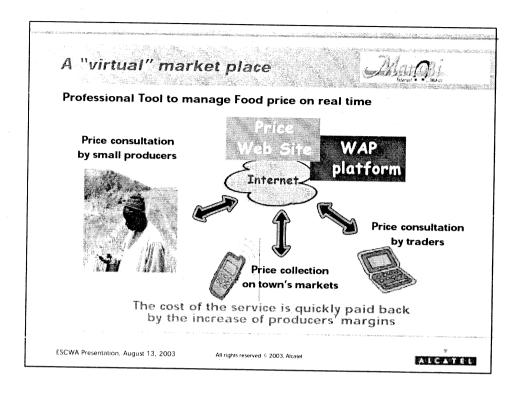
All rights reserved § 2003, Alcatel

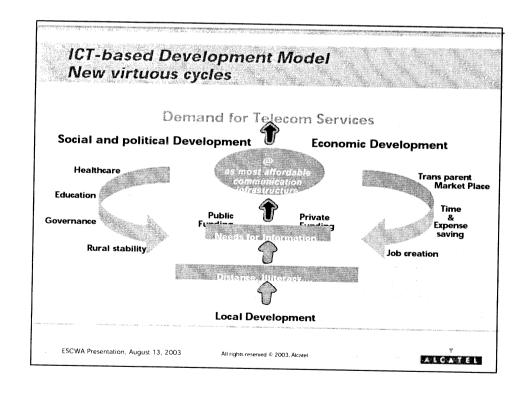


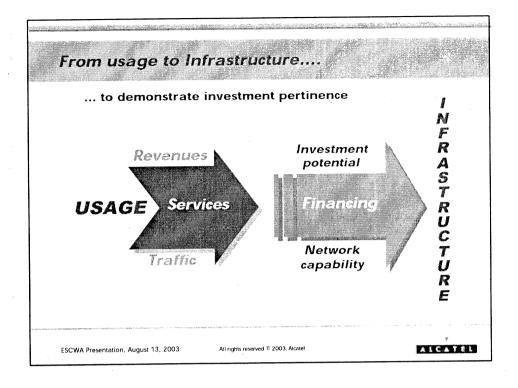


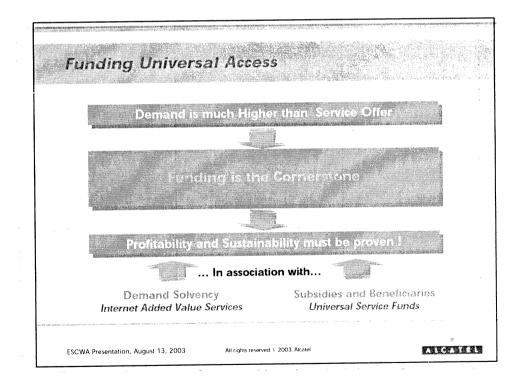


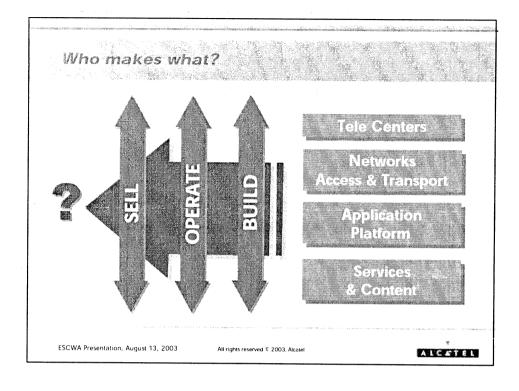












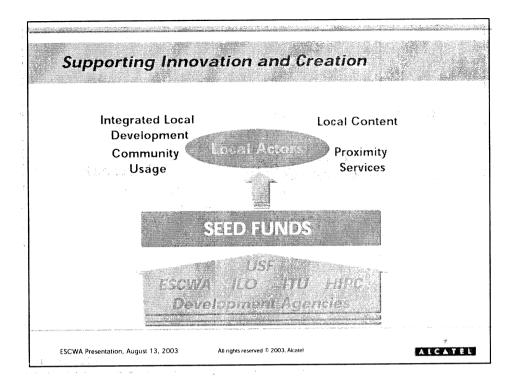
Success Conditions

- > Involve all local actors
- > Develop local added value services
 - · Local content
 - · Proximity Services
- > Start with an experimental phase and evaluate its results
- > ... And build close partnerships for
 - · Definition of service offer,
 - Setting up of Tele Centers and access means
 - Financing
 - · Operation, maintenance and marketing

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

AUGUSTE



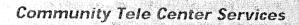
Presentation Outline

- > Success Conditions
- > Providing Useful Services
- > Network Solutions
- > The Deployment Project

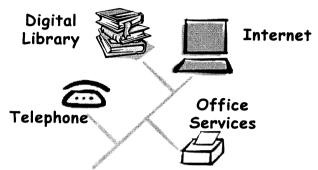
ESCWA Presentation, August 13, 2003

All rights reserved © 2003. Alcatel

FARCE MARK



A Community Tele Center can offer a variety of services



... and assist persons who don't master the ICT tools or are even illiterate !...

ESCWA Presentation, August 13, 2003

All rights reserved % 2003, Alcatel

ALCATEL

Users and Services

- > Types of potential users
 - · Institutional.
 - · Professionals,
 - · Civil Society (private, associations, NGO, ...)
- > Service Categories
 - · «Citizen» services; public usage
 - · «Customer» services; private usage

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

"Citizen" Services

- > Facilitate communication between Public Authorities and Citizens:
 - •Support governance (e-government, social edocation, ...)
- > Access via Internet to information
 - •administrative (official information and local expression, registering, land register, education. ...)
 - *practical (community life, health, environment, transportation, ...)



ESCWA Presentation, August 13, 2003

All rights reserved \$ 2003, Alcatel

ALCATEL

«Client» Services

- > Facilitate communication between economic actors (professionals) and with private persons
 - Satisfy essential population needs and development of the local life
- > Access via Internet to information:
 - Commercial type e.commerce (client-supplier, marketplase, trading...)
 - Daily practical information (tood supply, nealth job offers) training, ...)



ESCWA Presentation, August 13, 2003

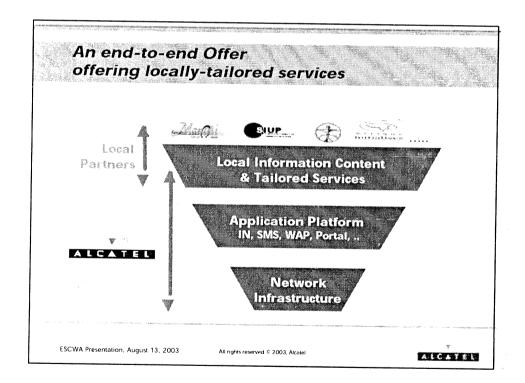
All rights reserved < 2003. Alcatel

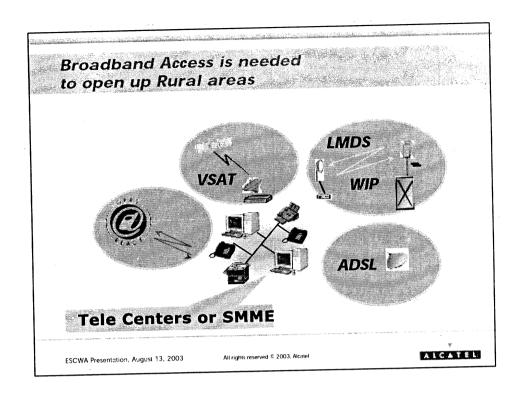
Presentation Outline

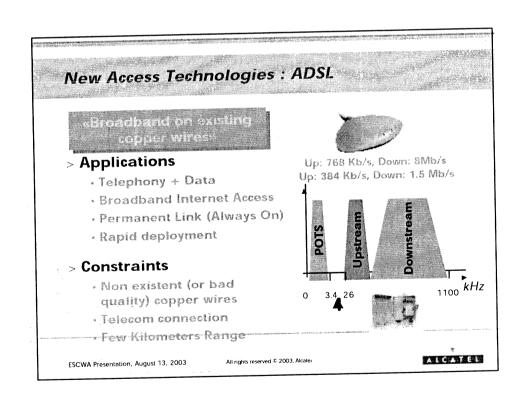
- > Success Conditions
- > Providing Useful Services
- > Network Solutions
- > The Deployment Project

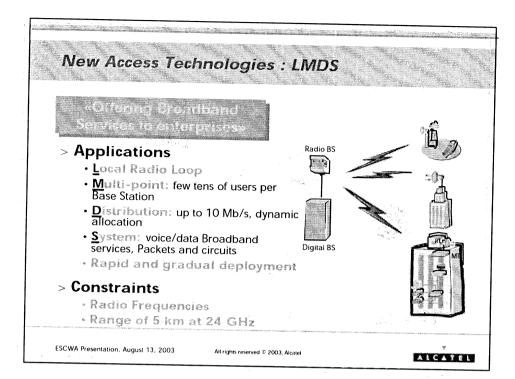
ESCWA Presentation, August 13, 2003

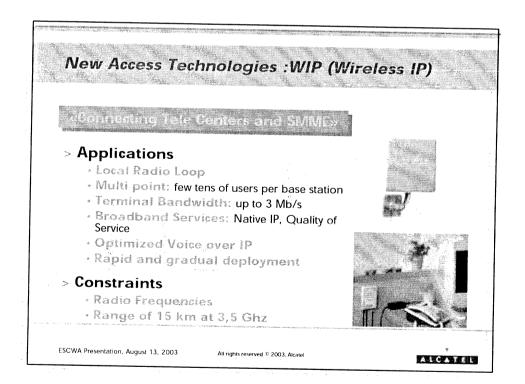
All rights reserved © 2003, Alcatel











New Access Technologies : VSAT

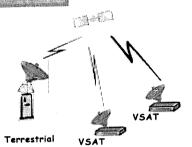
«Connecting most isolated zones

> Applications

- Bidirectional services
- · Star or Meshed Network
- · Telephony, fax, Voice over
- · Data and Internet
- · Video: TV, visio conference
- Rapid and gradual deployment

> Constraints

- Location of space segment
- Master station



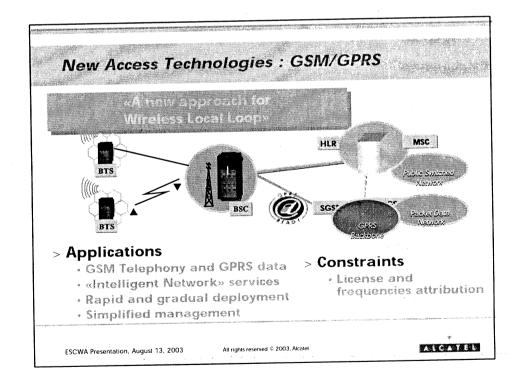
down: up to 53 Mb/s up: up to 384 Kb/s

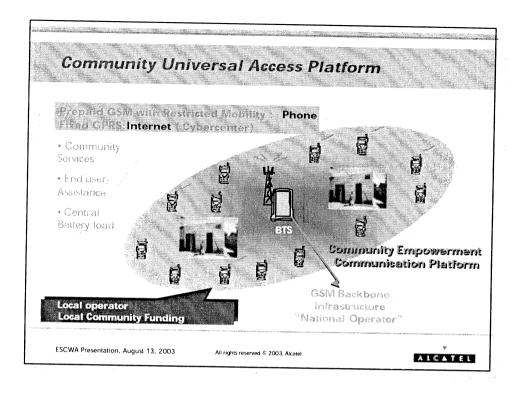
Voice compression down to 8 Kb/s

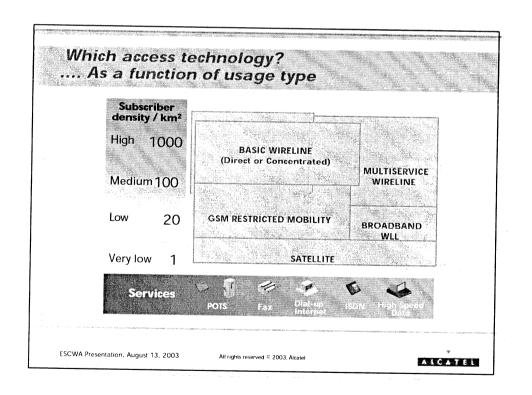
ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel









Other choice criteria For an optimized technical solution

> Cost of Ownership

- · investment or capital cost (amortization)
- operational cost

> Business Plan

- [Revenues] [Costs] = Profit
- · Cash Flow analysis and Return On Investment (ROI) time frame
- a function of strategic options

 - deployment plan financing terms (debt service

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

ALCATEL

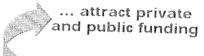
Presentation Outline

- > Success Conditions
- > Providing Useful Services
- > Network Solutions
- > The Deployment Project

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

How to concretely go ahead?....



Large deployments

Economic & social model

Pilot Projects

... seed money



Local experiments

... encourage initiatives

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

ALCATEL

An unavoidable step: the pilot project

- > Observe and analyze the <u>behavior and involvement</u> of local players in front of new ICT services introduction
- Identify <u>deployment requirements</u> and relevancy of potential network solutions, based on innovative 'leapfrog" technologies
- > Check market and economic positioning of offered services ("Business model")
- Define a <u>methodology</u> for wider network deployment and operation

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

Some Essential Precautions

- > Consult and mobilize local actors (customary authorities, associations, NGO, ...)
 - · Mediation with local populations
 - · Operational involvement to the project
- > Sensitize local population through information meetings
 - Objectives and stakes
 - Access modalities and services interest
 - · Local language

Guarantee the support of local actors and populations

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

PHICE SHEET

Potential participants to a pilot project

- > ... Public parties representing
 - Government (involved ministries)
 - · Telecom Regulation Authority (if existing)
 - · Regional or District Communities
 - · Local Communities
- > ... Private parties representing
 - · Networks and Services operators
 - Tele Centers Operators
 - Software companies developing applications and content
 - End-users representatives
 - Professional organizations
 - Associations, NGO, ...

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

Main tasks of a pilot project (1)

- > Task No.1: Prepare and Present the project and the network deployment and test
 - Presenting the project to local actors and identification of potential partners
 - Definition of end-users services with a high involvement of local actors
 - Field study for implementation of telecom installations and associated infrastructures
 - · Detailed design of the Pilot network architecture
 - · Development of services and applications

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel

ALCATEL

Example of Task 1 Definition of Internet Services in St. Louis (Sénégal)

- > Strong involvement of Young
 - 38 students
 - · 200 interviews



École d'Ingénieurs Sup'Média



- » What are your daily problems ?
 - · Health , notably children
 - · Training and Employment
 - · Fishing sector
 - ·Tourism



An innovative methodology .

ESCWA Presentation, August 13, 2003

All rights reserved € 2003. Alcatel

Main tasks of a Pilot project (2)

> Task No.2: Deployment of the pilot network

- Build the host infrastructures (buildings filling one amtennae support. Pylons...)
- · Delivery and Installation of Telecom equipment
- · System and software integration
- Training of operational local actors
- · Validation tests before service offering

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel



Main tasks of a Pilot project (3)

$_{>}$ Task No.3 : Carrying out and follow up of tests

- · Assistance to technical management of the pilot network
- Assistance management and sales of services
- · Analysis of end-users satisfaction
- Study of the Tele Center economic model
- Writing of final report (results and analysis)

ESCWA Presentation, August 13, 2003

All rights reserved © 2003, Alcatel ...

