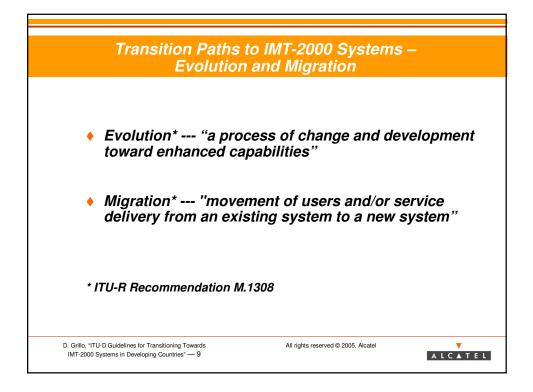


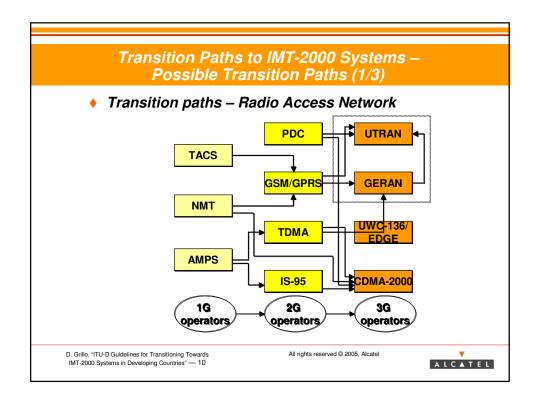
Particula	r Needs of Developing Countries (1/3-a)
🔸 Opera	tor requirements
Costs	Transition costs should be minimized as much as possible because vast majority of population has little discretionary budget for telecommunications/entertainment.
Fixed wireless access	Some operators may provide fixed wireless access for IMT-2000 services in urban areas.
Coverage and deployment obligations	Target coverage/service penetration and roll-out schedule set by regulators in some cases. Roll-out obligations must be set keeping in view the business case of the operator and the user's interest.
Transition time	Time frame for transition from existing "mobile"/"fixed" towards IMT-2000. Operators should have maximum flexibility in determining and finalizing the transition.
Mass application	Applications such as tele-education, tele-medicine, e- government may require IMT-2000 technologies.
Government support	Role of government subsidy for infrastructure and/or advanced applications (not for infrastructure but for affordability of services by all including universal service obligations).

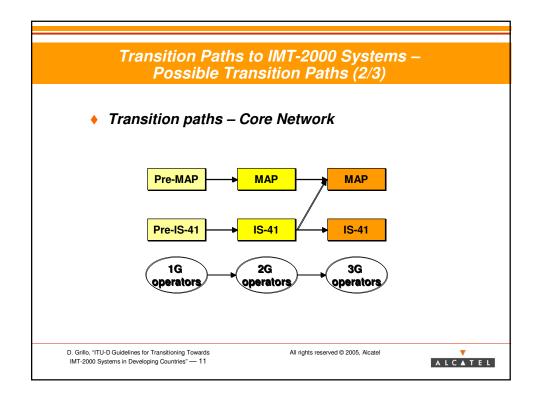
Particular Needs of Developing Countries (1/3-b)		
🔸 Opera	tor requirements	
Value depreciation	Possible obsolescence of new infrastructure investments while waiting for IMT-2000 demand.	
IMT-2000 bands	Access to appropriate frequency bands and adequate spectrum is required. Use of frequencies below 1GHz and allocation of future frequency bands as per WRC/WARC may be advantageous in providing cost-efficient coverage.	
Technical and administrative conditions	Conditions for use of spectrum (licensing / roaming / coverage other operator obligations)	
Infrastructure sharing	Sharing of (radio / network) resources for rapid rollout and coverage (VNO) can be encouraged to facilitate speedy deployment of new technologies and lower the costs to operators.	
Satellite component	Usage of satellite component of IMT-2000.	
Services and applications	Low entry fees. Use of IMT-2000 for access to education in remote villages, rural economic development, access to Internet at affordable price.	

🔸 Regu	lator requirements
License	Capitalize on experience of developed countries on
handling and allocation	- license awarding method,
anooution	- license conditions,
	- license fees,
	- number of licenses
Databases	Capitalize on experience of developed countries on
	<ul> <li>RFP (Request for Proposal) issued for awarding IMT-2000 licenses;-</li> </ul>
	- Rationale behind the preferred license awarding methods;
	<ul> <li>Information on the method of determination of Lowest Bid Rates;</li> </ul>
	<ul> <li>Standard concession agreements – including provisions related to QoS numbering, interconnection, roaming, coverage, infrastructure sharing etc. – that were signed with the IMT-2000 operators.</li> </ul>

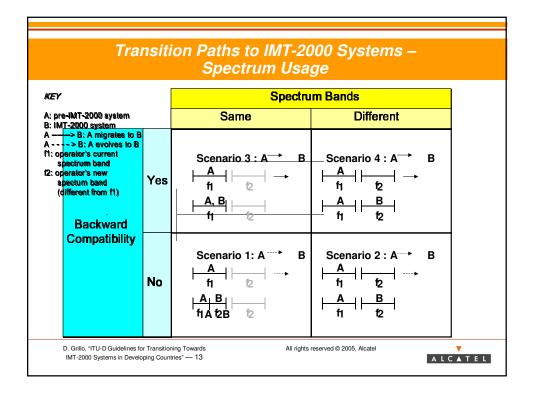
Costs	User affordability for services and terminals. Tariffs should be affordable to the end-users.
Terminals	Ease of use and convenience of terminals. The terminals should support local requirement in terms of language and must take into consideration the literacy level across the country.
Services and applications	Use of IMT-2000 for education in remote villages, rural economic development, access to Internet at affordable price.Improvement of consumers' education on wireless data applications.
	applications.

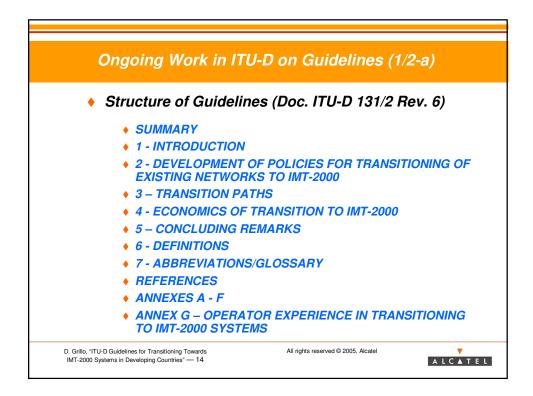


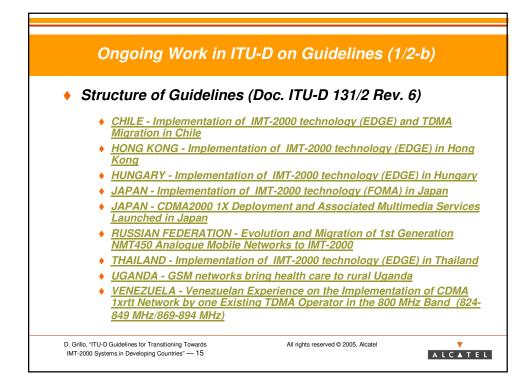


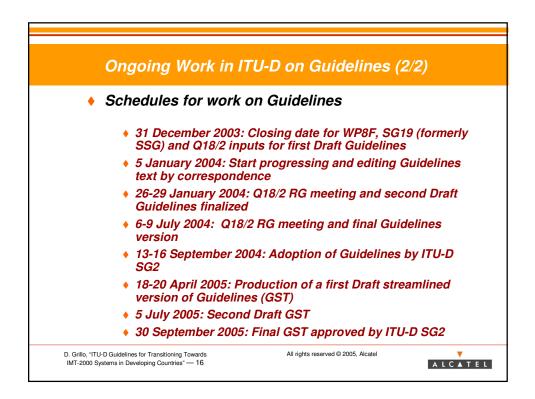


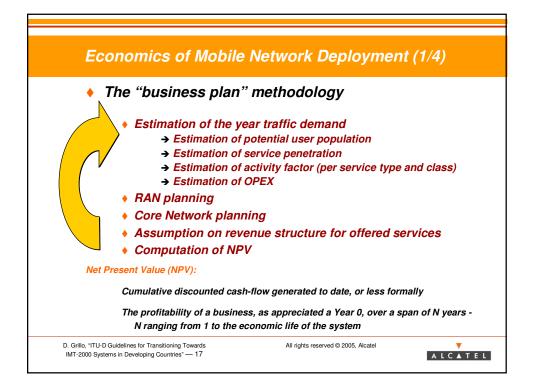
		on Paths (3/3 -	
Transition pa	ths – Option	S	
То			
From Analogue systems (AMPS, NMT, TACS)	<u>CDMA Direct</u> Spread (WCDMA)	<u>CDMA Multi-</u> <u>Carrier</u> (CDMA2000)	<u>TDMA Single-</u> <u>Carrier</u> (EDGE)
TDMA/D-AMPS systems	CDMA Direct Spread (WCDMA)	<u>CDMA Multi-</u> <u>Carrier</u> (CDMA2000)	<u>TDMA Single-</u> <u>Carrier</u> (EDGE)
PDC			
CdmaOne systems		CDMA Multi-Carrier (CDMA2000)	
GSM systems	<u>CDMA Direct</u> Spread (WCDMA)	<u>CDMA TDD (time-</u> <u>code)</u> (TD-SCDMA)	<u>TDMA Single-</u> <u>Carrier</u> (EDGE)

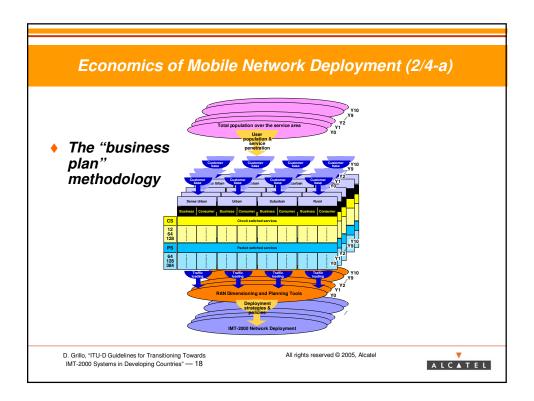


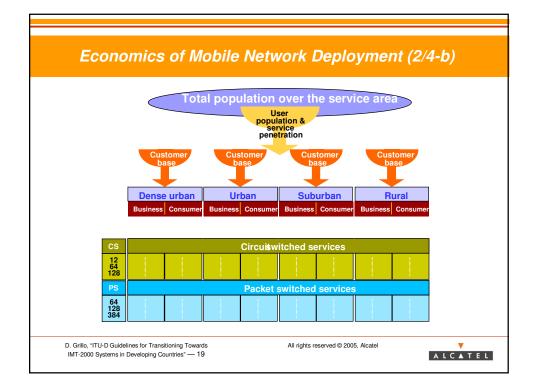


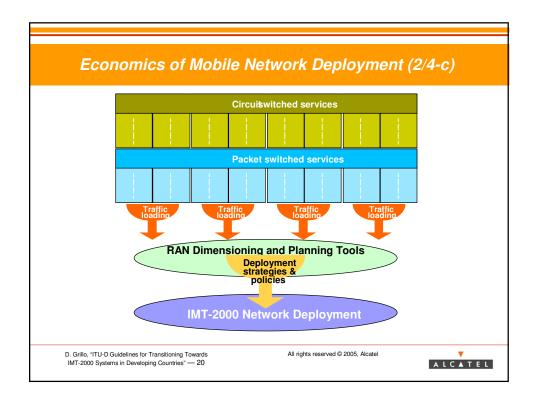












Share of Investments (3/4-a)					
	Year 0	Year 3	Year 4 to Year 10		
	Rel-99	from Rel-99 to Rel-5	Capacity increases		
RAN - Node Bs - RNCs - UTRAN transport infrastructure	55% 30% 15%	55% 35% 10%	60% 30% 10%		
Core Network - MSCs & MSC servers - SGSNs & GGSNs - MGWs - CSCFs, MGCFs, T-SGWs, MRFs - Core network transport infrastructure	50% 35% 0% 0% 15%	0% 60% 10% 20% 10%	0% 65% 10% 15% 10%		
Service Market Segment	Year 0	Year 3	Year 4 to Year 10		
- Business - Consumer	65% 35%	60% 40%	50% 50%		
Tariffs	3% yearly reduction in over the whole economic life cycle				

