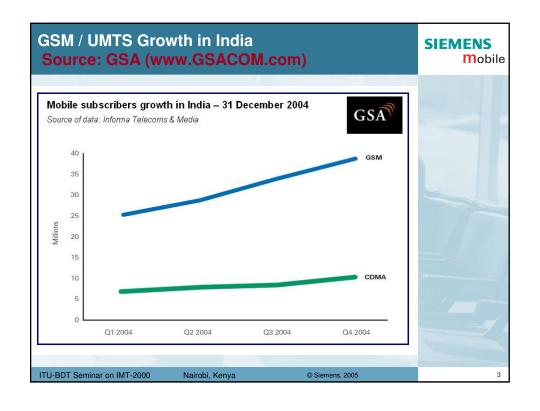
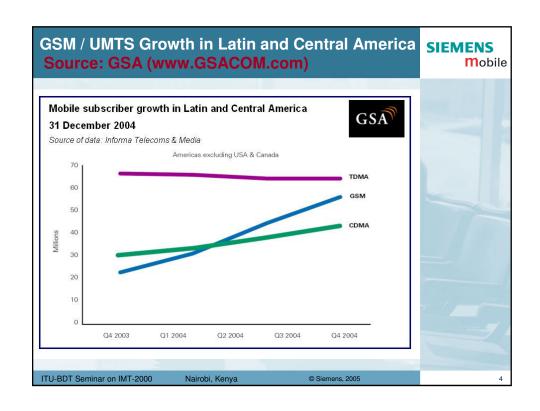
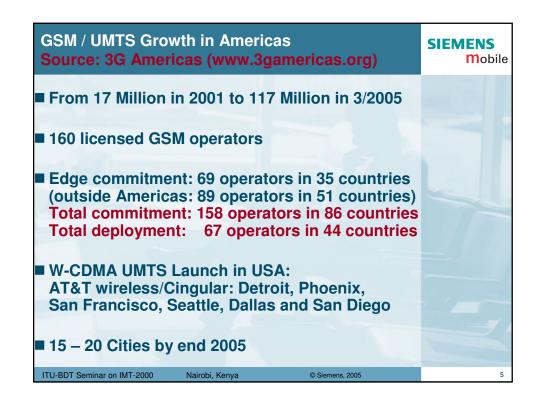
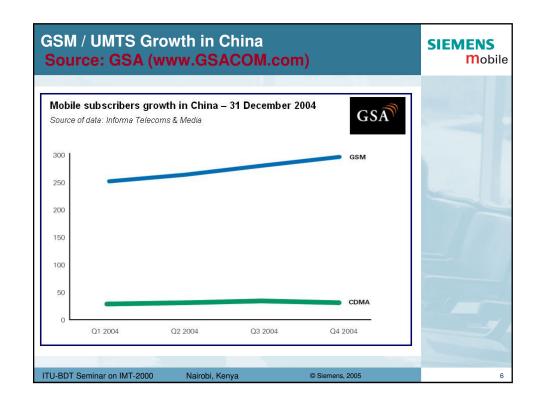


SIEMENS Presentation Rationale mobile Successful business requires analysis of regulatory and market dynamics for whole system life cycle see ITU Mid - Term Guidelines and Handbook on "Smooth Transition to IMT-2000" Choice of complete network technologies becomes critical! First steps towards IMT-2000 (3G) 270 commercial GPRS networks ▶ 137 networks deploying GPRS/EDGE 67 commercial EDGE networks (source: GSA, April 5, 2005) 115 commercial Cdma2000 1x networks (source: CDG, April 8, 2005) IMT-2000 (3G) W-CDMA: 134 licenses awarded 67 commercial W-CDMA networks (source: GSA, April 12, 2005) 20 commercial CDMA 1x EV-DO networks (source: CDG, April 8, 2005) Evolution of IMT-2000 (3G+) 3GPP has an evolution plan for inclusion of other radio technologies (HSDPA, WiFi, WiMax, ...) (source: 3GPP) CDMA 1X EV-DV: Development stopped (source: various press releases) ITU-BDT Seminar on IMT-2000 Nairobi, Kenya © Siemens, 2005

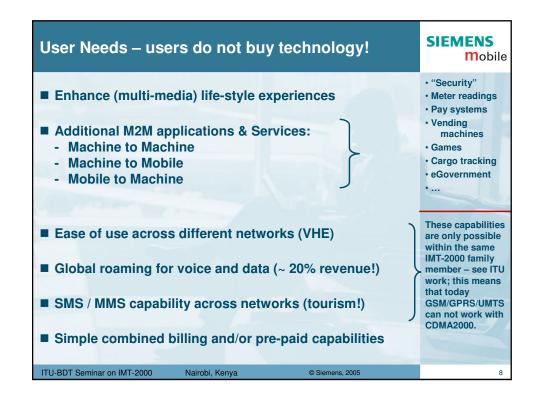


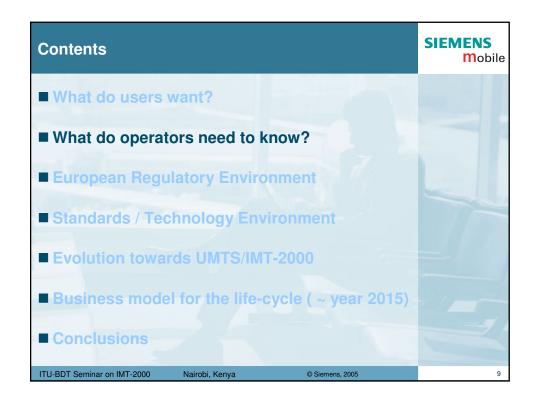


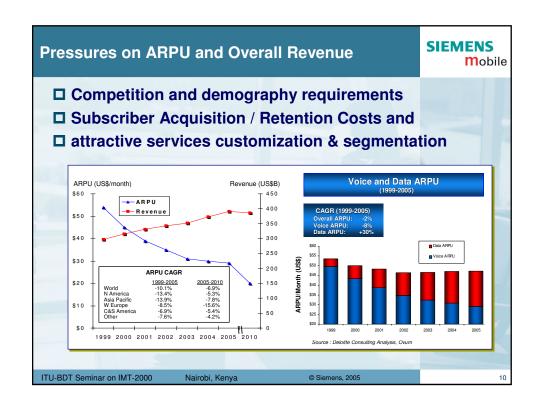


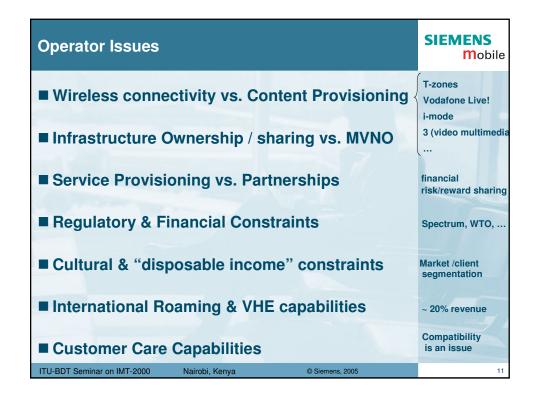


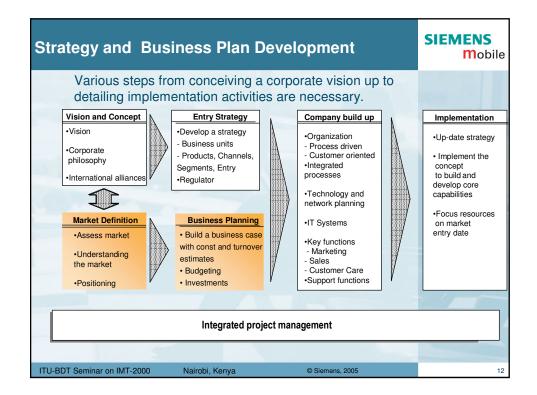
Contents	SIEMENS Mobile
■ What do users want?	
■ What do operators need to know?	
■ European Regulatory Environment	
■ Standards / Technology Environment	
■ Evolution towards UMTS/IMT-2000	
■ Business model for the life-cycle (~ year 2015)	
■ Conclusions	
ITU-BDT Seminar on IMT-2000 Nairobi, Kenya © Siemens, 2005	7

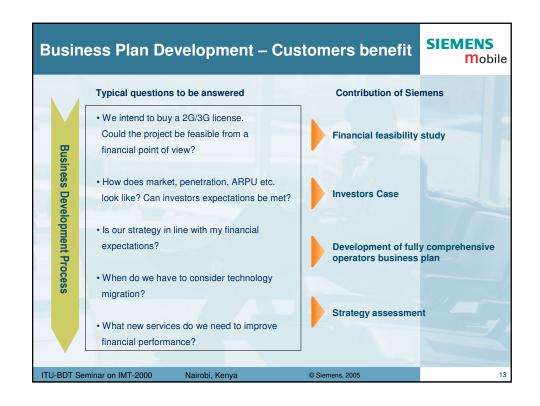


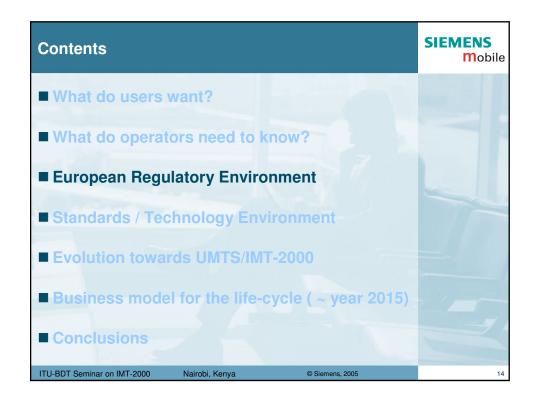




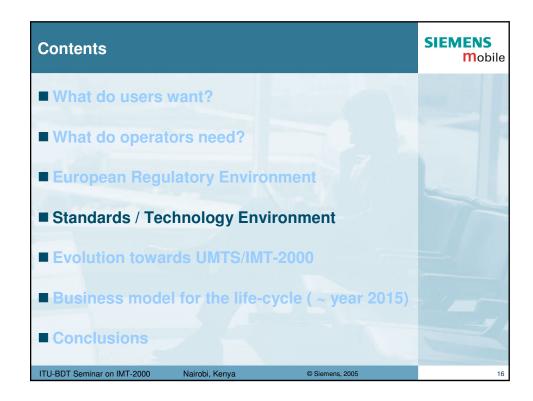


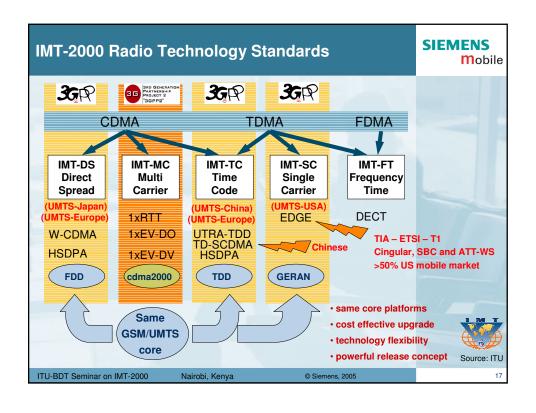


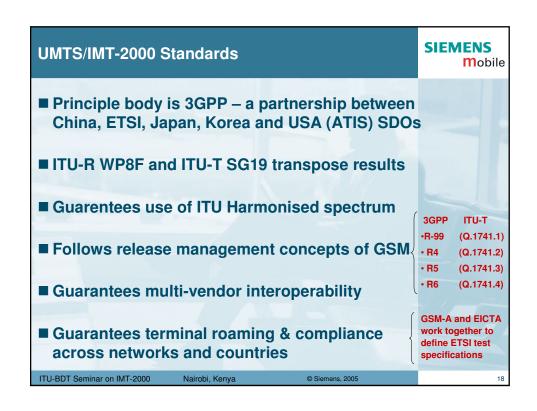


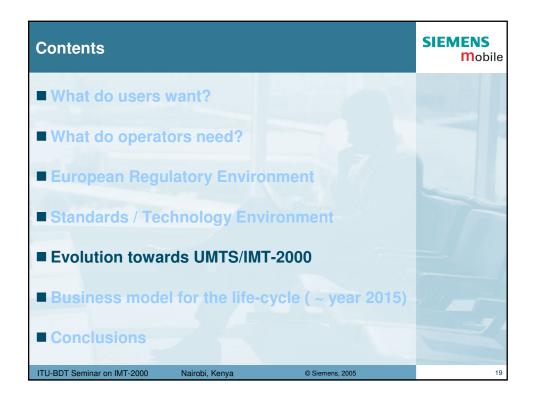


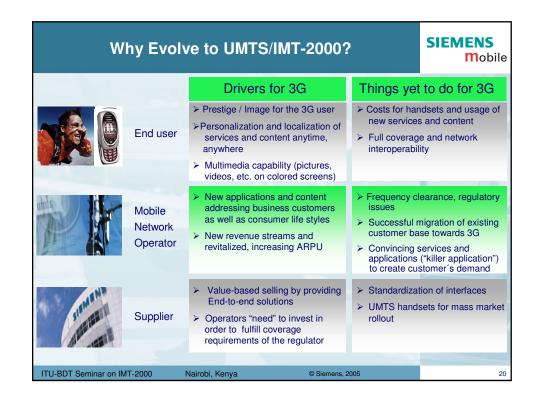
SIEMENS European Single Market Regulatory Environment mobile ■ All 25 EU Member States need to follow EU Regulations ■ Bulgaria, Romania and Turkey are next accession countries and will need to prepare for EU harmonisation ■ Mandatory to follow Directives, Decisions, ... which de-facto implies: At least one UMTS operator (Single Market roaming) ITU Harmonised core bands for IMT-2000 Number portability "Open Network" Provisioning (Access Directive) **Conformance to ETSI Standards Compliance to R&TTE Directive** ■ EU Harmonised Spectrum Allocation and usage for PAMR/PMR and emergency/security/public services (Police, Fire, Health, disaster Relief, ...) ITU-BDT Seminar on IMT-2000 Nairobi, Kenya © Siemens, 2005

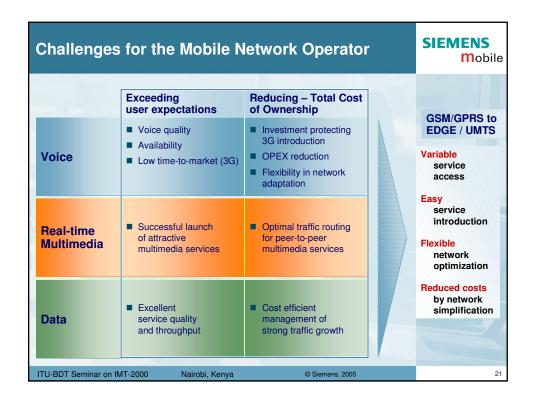


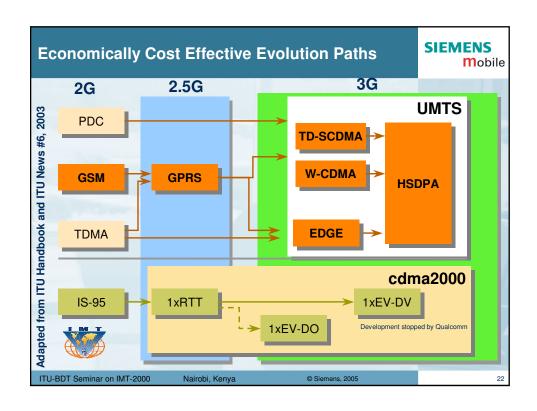


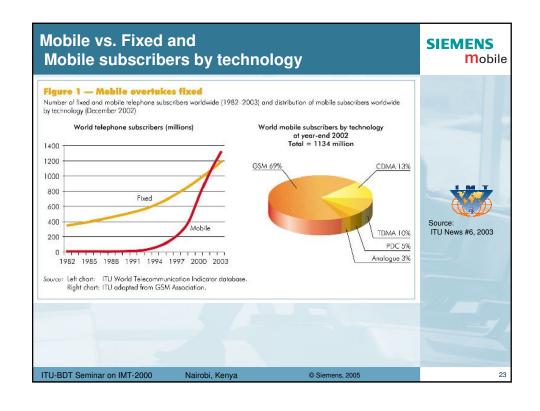




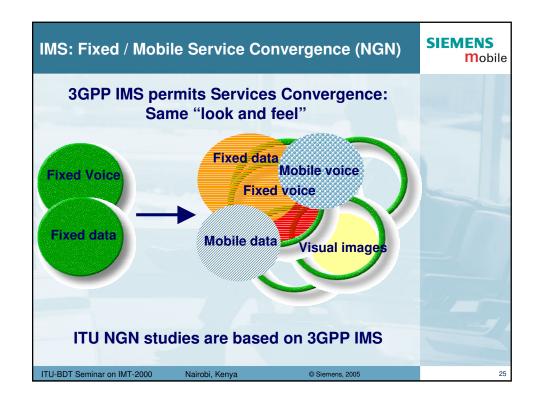


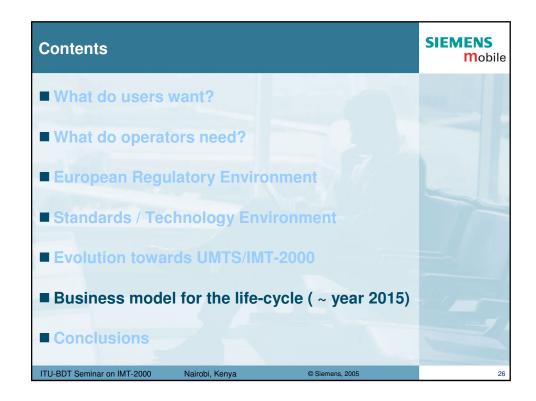


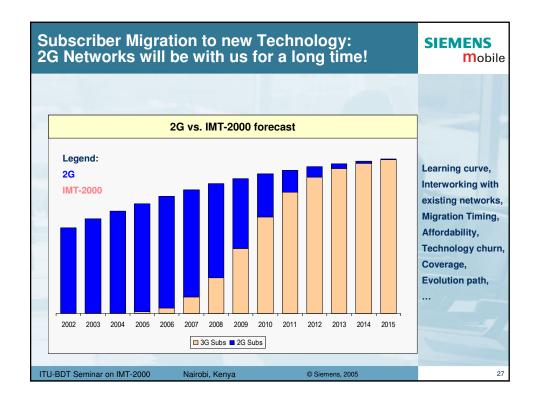


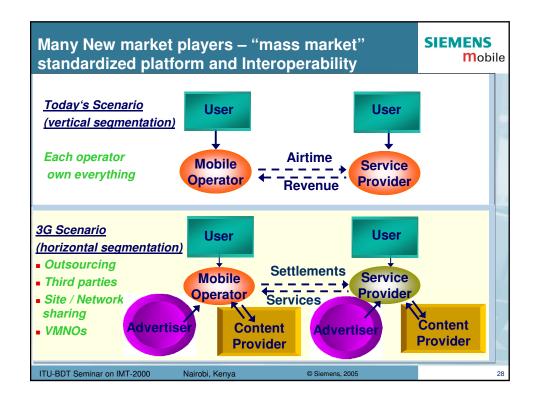


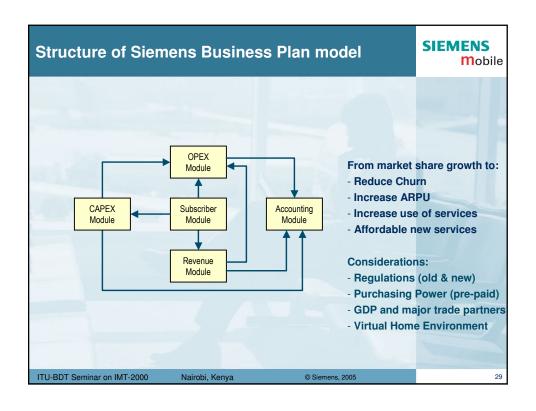


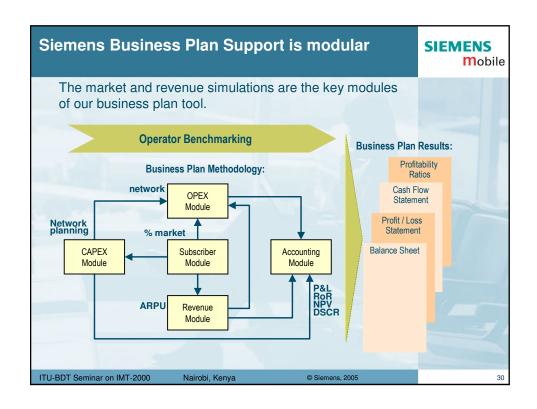


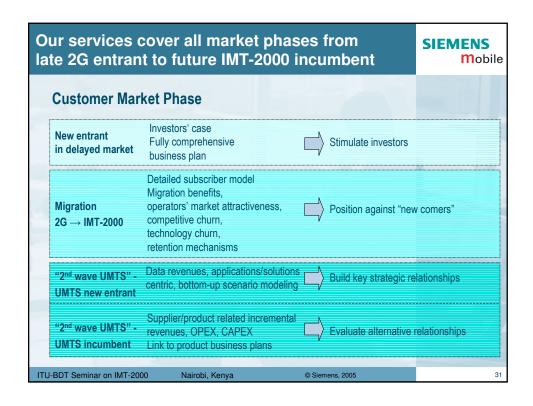


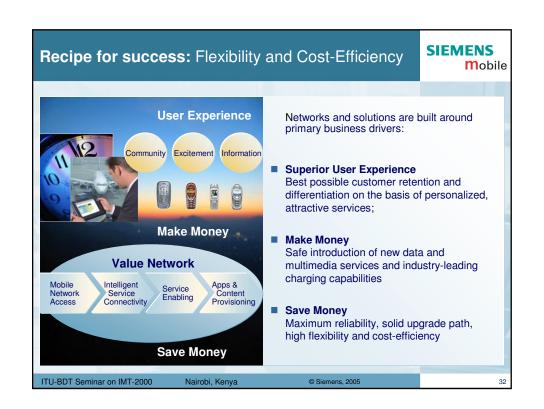


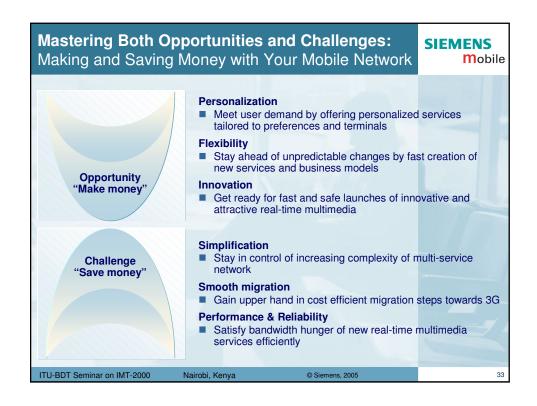


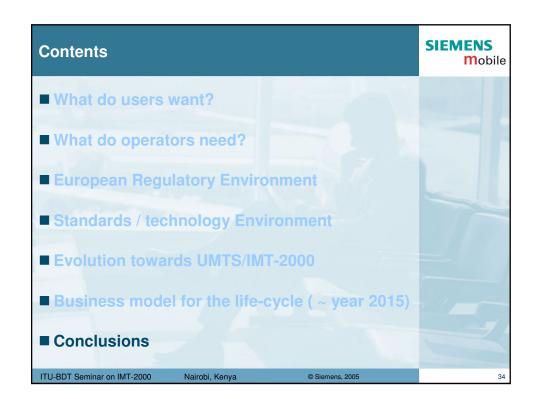












Conclusions Users will choose mass market technology M2M and cross border roaming, services, etc. towards major trading partners and tourists Develop 2.5G (GSM/GPRS) for transition to 3G Evolution to UMTS/IMT-2000 requires a new business model of "horizontal" partnerships Business model for the 10 year life-cycle Remember "back-office" applications UMTS is the only economical choice for Africa region!

