



ITU Expert-Level Training for Regulatory Authorities and Operators on Network Cost Modeling - Level II Mangochi, Malawi, 1-5 November, 2010

AGENDA

DAY 1: Principles of cost modeling (wrap up)			
	08.30 - 09.00	Delegates registration	
Session 1	09.00 - 10.30	- Team building, introduction, expectations	
		- Overview of retail and wholesale regulation – evaluating the adequacy of cost modeling methodologies	
	10.30 – 10.45	Coffee Break	
Session 2	10.45 – 12.30	 Drivers, benefits and issues of cost allocation and costing Cost methodologies: FAC, LRIC Types of models: Bottom-up, Top-down models; scorched earth, scorched 	
	40.00 44.00	node	
	12.30 – 14.00	Lunch Break	
Session 3	14.00 – 15.15	 Cost attribution (ABC and other methods, indirect and common cost) Asset valuation (historic book values, current values, expected future asset values) 	
		- Comparison between the different available cost models - SWOT analysis	
	15.15 – 15.30	Coffee Break	
Session 4	15.30 – 17.00	Working Group Exercise and discussion: Current situation of participant countries regarding the application of top-down and bottom-up cost modeling Self-evaluation on cost modeling principles (30 minutes)	
		DAY 2: Basic elements of cost models	
Session 5	09.00 - 10.30	- Cost models need to be considered in context and having regard to the	
000010110	00.00 10.00	purposes to which they will be put	
		- Determination of the expected demand for services	
		 Types of services Demand predictions Traffic distributions 	
	10.30 – 10.45	Coffee Break	
Session 6	10.45 – 12.30	- Demand in Top-down and in Bottom-up models	
		- Network elements	
		 Fixed networks Mobile networks New technologies: NGN, NGA, 3G, LTE 	
	12.30 – 14.00	Lunch Break	
Session 7	14.00 – 15.15	 Network elements in Top-down and in Bottom-up models Network design and determination of the investment in telecommunication infrastructure Data collection issues 	
	15.15 – 15.30	Coffee Break	
Session 8	15.30 – 17.00	Working Group Exercise and discussion: Specifying cost models covering the topics of Day 2	

DAY 3: Dimensioning a mobile network for a sample PC based bottom up model			
Session 9	09.00 - 10.30	- Introducing the cost model	
		- Traffic predictions in minutes - Billed minutes vs. technical minutes	
	10.20 10.45	- Busy hour and Erlang conversion - Coverage and capacity	
0	10.30 – 10.45	Coffee Break	
Session 10	10.45 – 12.30	 Dimensioning of basic network elements Quality of service parameters and network dimensioning 	
		 Switches, registers, BTS, BSC and TRX 	
		TransmissionOther	
		Other Routing table - Technical background	
	12.30 – 14.00	Lunch Break	
Session 11	14.00 – 15.15	- Derivation of network costs of services	
		- Special session : participants should have the opportunity to ask for any additional topics on costing not included in the agenda	
	15.15 – 15.30	Coffee Break	
Session 12	15.30 – 17.00	Working Group Exercise and discussion: Data input into the cost training	
		model and development and determination of specific data based on a case study	
DAY 4: Cost allocation and tariff calculation			
Session 13	09.00 - 10.30	- Special aspects of WACC - determination of WACC of non listed	
		companies, divisional WACC	
		 Different depreciation profiles (straight line vs. tilted annuity vs. others) Different capital maintenance concepts (FCM vs. OCM) 	
		- How to get replacement values (GRV and Modern Equivalent Assets)	
	10.30 – 10.45	Coffee Break	
Session 14	10.45 – 12.30	- Cost of network elements (direct, indirect, common and special costs)	
		- Operating costs - Capital costs	
		- Attribution of costs between services provided - Tariff calculation	
	12.30 – 14.00	Lunch Break	
Session 15	14.00 – 15.15	Working Group Exercise and discussion: using the cost training model and	
Coodion 10	11.00 10.10	developing scenarios that reflect different costs and cost allocations	
	15.15 – 15.30	Coffee Break	
Session 16	15.30 – 17.00	Working Group Exercise and discussion: using the cost training model and	
		developing scenarios that reflect different costs and cost allocations	
DAY 5: Exercises with the computer training cost model			
Session 17	09.00 - 10.30	Working Group Exercise:	
		 Experimenting with different parameter values (case studies) Experimenting with different data sets (case studies) 	
	10.30 – 10.45	Coffee Break	
Session 18	10.45 – 12.30	- Presentations by each Working Group to the Plenary -	
		Discussion/Critiques	
	12.30 – 14.00	- Summary session going over the key points on models Lunch Break	
Session 19	14.00 – 15.15		
06331011 19	17.00 - 15.15	 Use of models for National Broadband Network (NBN), Next Generation Networks (NGN) and converged services 	
	15.15 – 15.30	Coffee Break	
Session 20	15.30 – 17.00	- Open discussion and Wrap up	
		- Closing ceremony and delivery of Certificates	