



ITU / BDT regional seminar Network Planning for the CEE, CIS and Baltic

Belgrade, Serbia and Montenegro, 20– 24 June 2005

Objectives and Structure of the Seminar

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Objectives of this Workshop

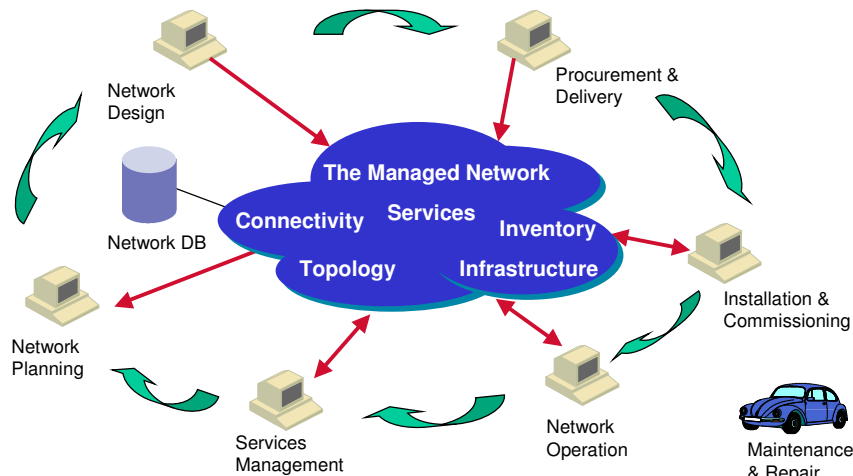
This workshop aims at providing the PTO managers with expertise on Network Planning

The main objectives are :

- to enhance the operational practices with a more **strategic and business -oriented** approach.
- to help the decision making in the **selection of appropriate solutions** for network deployment and operation.
- to analyze most adequate **tools** to support and optimize the overall process.



Network Planning Role within the network lifecycle



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Lecture NP -3. 1 - slide 3



Participants are trained :

- to **analyse-benchmark** the initial network situation
- to **define** an overall planning process
- to carry out **services- demand forecasts**
- to analyse network **alternatives and evolution**
- to **define** proper techno-economical plans based on business feasibility and given quality
- to **analyse** role of network planning tools in the planning and operational process

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Lecture NP -3. 1 - slide 4



BDT workshop on Network Planning: Structure

Module 1: Introduction and References to the Region

**Module 2
Role of Network Planning in the current Telecom scenario**

**Module 3
Integrated Planning Process**

**Module 4
Specific Network Planning per Layer**

**Module 5
Supporting Network Planning Needs and Tools**



Module 2.1 Introduction

Objectives: *Introduce participants, experiences, organization of the workshop and key content*

- **Objectives of the workshop**
- **Participants representation and expertise**
- **Content and organization of the sessions**
- **Planning experience in the Region**
- **ITU activities for Network Planning Guidelines and Tool Specifications**



Module 2.2:

Role of Network Planning in the current Telecom scenario

Objectives:

Define main characteristics of the network planning with today's technologies and uncertainties

- What requirements are frequent to analyse and define Network evolution
- What main solutions and architectures are available and/or in development
- How to better map solutions to each geo scenario
- Different time scales and missions for the plans
- Impact of the competition and importance of strategic planning and business plans



Module 3:

Integrated Planning Process

Objectives:

Main focus is the definition of basic activities needed in an overall planning as an integrated process to ensure efficiency:

- Analysis of different geo- scenarios, measurements and data gathering
- Forecasting of expected services, traffic and revenues as a function of competition and regulation
- Technical network design and dimensioning for a given quality of service
- Main methodologies for network solution costing and optimization
- Analysis of Business plans feasibility and investment plans



Module 4

Specific Network Planning per Layer

Objectives:

This module focuses on methods required to perform specific network planning activities per network layer and solution

- **Methods for service forecasting and traffic matrix projections considering voice and data classes**
- **Methods for the design/dimensioning/optimization of the switching-routing layer**
- **Methods for the design/dimensioning/optimization of the transmission layer**
- **Methods for the design/dimensioning/optimization of the control, signalling and management layer**



Module 5:

Supporting Network Planning Tools

Objectives:

This module provides a summary of needs, tools and related methods to support the planning process in an efficient way:

- **Defines different tool categories as a function of the network coverage and degree of detail**
- **Summarises the inputs, outputs and functionalities for the most frequent tools in the market and the related network layers**
- **Presents specific tools by the corresponding development companies with particular application cases and demos**