



ITU / BDT- COE workshop

Nairobi, Kenya,

7 – 11 October 2002

Network Planning

Lecture NP-2.1

Objectives and Structure of the Workshop



Objectives of this Workshop

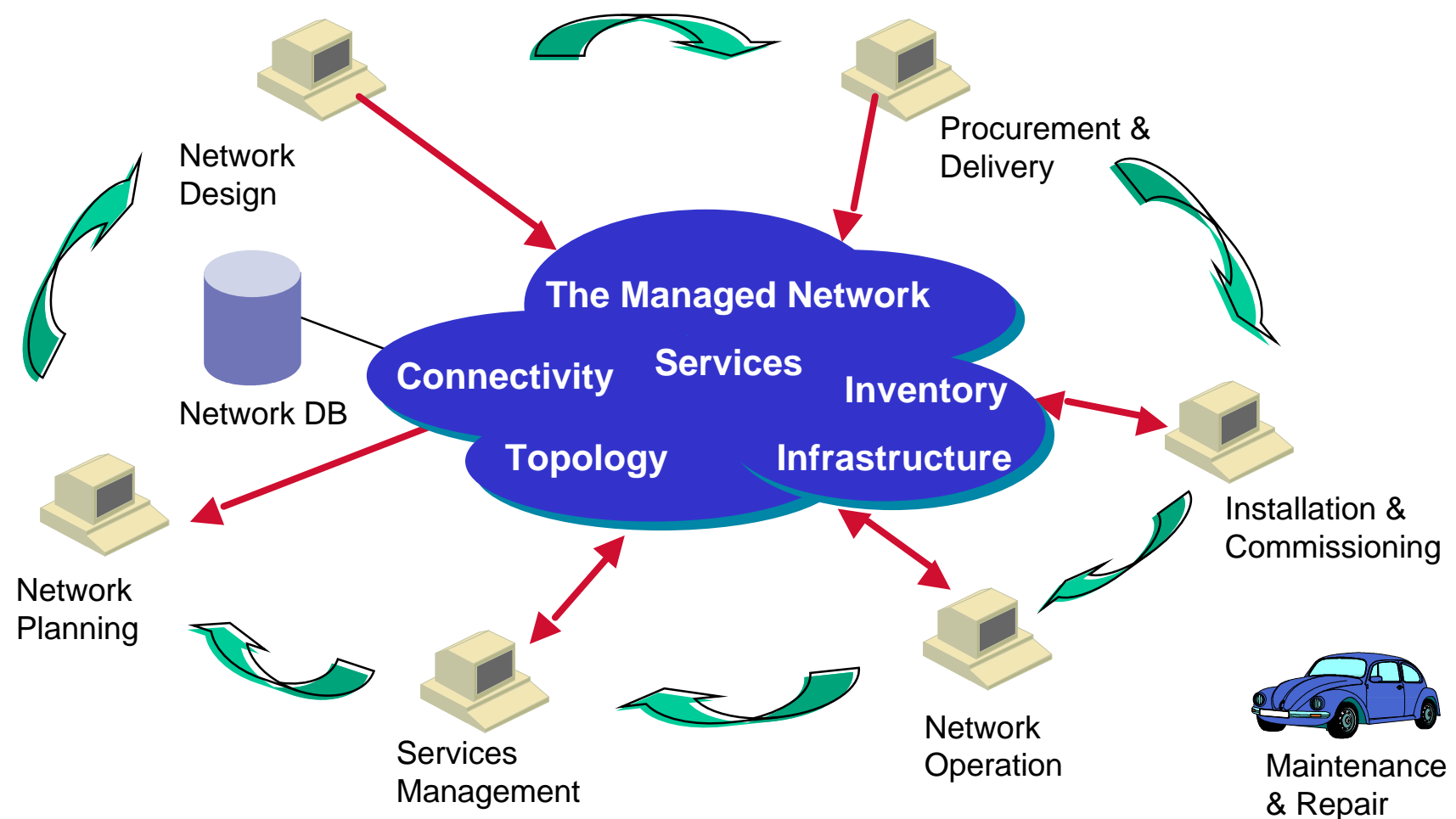
This workshop aims at providing the PTO managers with expertise on Network Planning

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



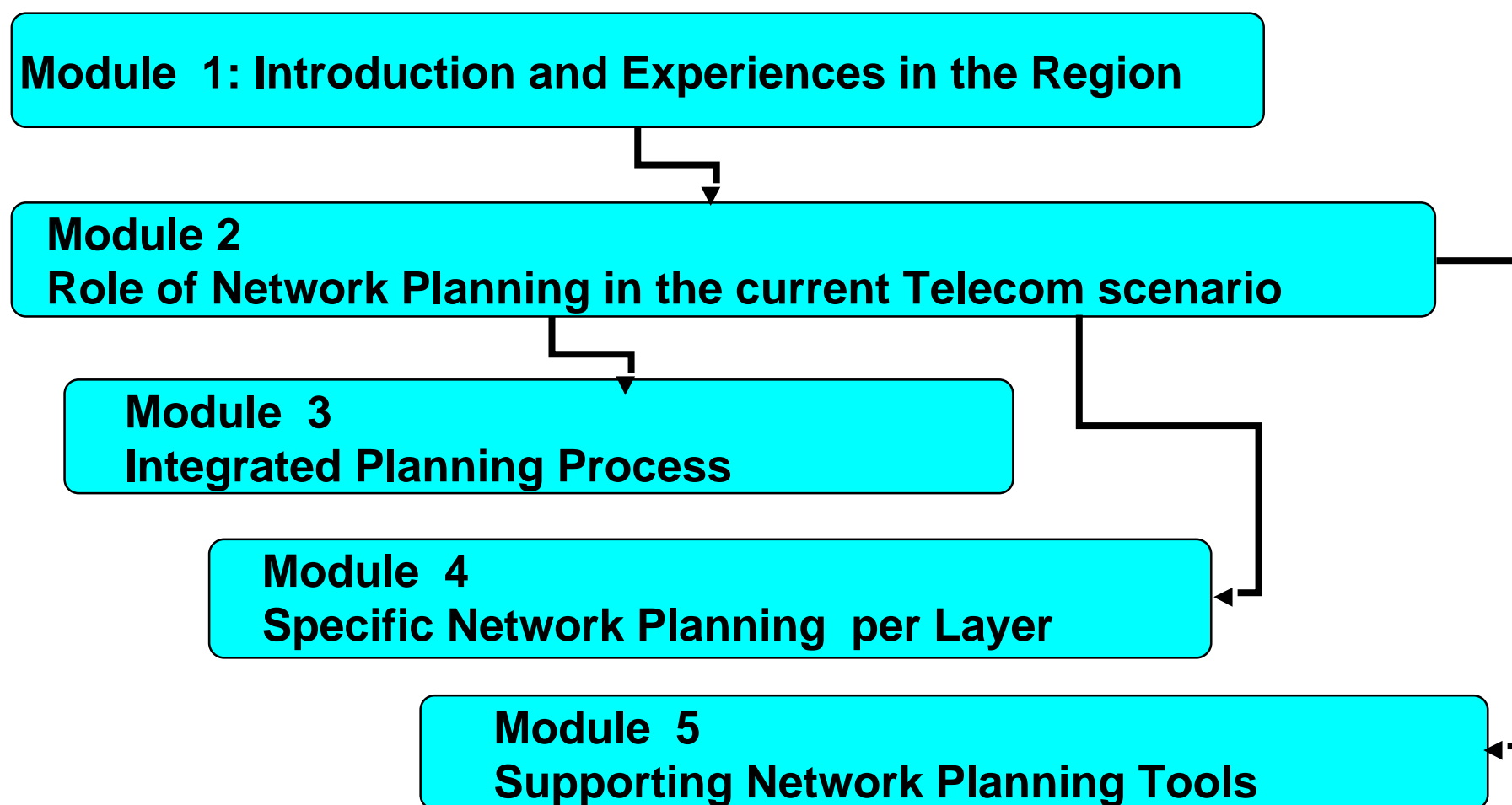


Participants are trained :

- 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



BDT - COE workshop on Network Planning: Structure





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



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 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**