

NGN Planning Process and Tools

Abstract

O. Gonzalez Soto

- Network and business planning becomes one of the key activities in the current evolution of the Telecom sector with a large variety of new technologies, services and market sharing with the liberalization. A review is made of the role of network planning processes, methodologies and tools applied to support the different activities of planners at strategic level, technical level or for business sustainability.
- Due to the importance of the network planning activities to assure a smooth network evolution at developing countries, a series of tasks were developed at ITU-D to propose a process, methodology and guidelines facilitating the construction of network plans. In order to support that process, a set of planning tools were analyzed and selected to allow the design of network evolution and comparison of technology alternatives. An exposition is done of that process and tools with emphasis on the functionalities required to plan the migration towards NGN at the different network layers and the business evolution derived from the introduction of new services and service bundles.
- An example of application at strategic level is provided for the modeling for solution mapping in the access segment where a myriad of alternatives appears today and geo-scenarios are analyzed to decide which one is best from the techno-economical point of view. Some mapping results illustrate the importance of the adequate solution mapping for the economical results and some recommendations.