

Strategic Planning and BWA Solution Mapping

Abstract

O. Gonzalez Soto

- Due to the growing implementation of Telecom services for new customers and the large variety of new technological solutions, one of the main issues for the service providers is the adequate assignment of technologies to existing scenarios. This assignment or solution mapping is especially critical in the network access segment where a large variety of scenarios and customer densities appear and is one of the more important activities in the strategic planning.

- Paper contribution explains how to characterize the country geo-scenarios for access and the required modeling of the Cost of Ownership per solution alternative where service types, customer density and dimensioning per traffic demand are used to derive best alternative taking into account compliance in capacity/performance indicators as well as key business parameters as NPV and capital expenditure.

- An illustrative case is provided on evaluation of costs structure by network components of the civil infrastructure and telecom equipment. Sensitivity of cost per line is given as a function of customer density for Wireline and WLL alternatives. Results for a set of access solutions including the BWA and recommendations are illustrated for the most appropriate mapping as a function of services and customer densities.