

MAINTENANCE STRATEGY FOR THE PROVINCIAL ROAD NETWORK OF XANTHI, GREECE

G. Kollaros A. Kokkalis & A. Athanasopoulou
Democritus University of Thrace, Greece

ABSTRACT

Pavements during their lifecycle degrade depending on traffic loading, climate and time. For an effective management of road pavements, the selection of the right maintenance strategy at the right time is of paramount importance. The suitable maintenance strategy will be influenced by the type, severity, and extent of the pavement surface distresses and its structural condition. Proper decision about the right treatment also depends on the extent or frequency of distress occurrence. Problem spots on the provincial road network of Xanthi Territory have been located and possible causes were investigated. Following an extended survey and data collection from official agencies, in-situ measurements and photographic imprinting of the most important damages, pavement maintenance methods and rehabilitation techniques were studied. The proposals on maintenance and restoration are focused on the amelioration of the roadway, the prolongation of the service life and on safe traffic in a tolerable cost framework.