

## THE STUDY OF TRAFFIC IN DURRES PORT AS PART OF INTERMODAL NETWORK

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### Abstract

This paper evaluates the impact of traffic flows as well as the combination of transport modes in order to make Durrës Port, Albania's main entrance gateway, being integrated into the network of Mediterranean maritime highway corridors as a part of European waterway network. The purpose of cargo flow forecasting aims to develop the port by promoting multi-modal solutions.

Various methods are used for the main categories of traffic in the port. To study the general cargo, firstly are analyzed the statistics of cargo flow during the last 20 years, and than based on the GDP annual growth we have done a broad traffic forecast. We have studying the relation between the economic development and traffic growth, making their correlation and through interpolation are made predictions. Transit based on the countries' economic development, the market of which is the destination of the goods as well as the history of the origin-destination traffic. Grain traffic is calculated in accordance with natural population growth, bulk traffic is based on industrial development plan of the country and passenger Ro-Ro is calculated analyzing the passenger traffic during the last 15 years.

This paper argues that the spatial location of transport networks in combination with multi-modal choices will be the main factor in the growth of cargo flows. These predictions are a tool to be used for the design of appropriate policies and strategies for the commercial orientation of the port and to increase port traffic management ensuring security in the reduction of negative environmental impact.

**Key words:** *traffic flow, port infrastructure, intermodal transport.*