

TRAFFIC AND CAPACITY ANALYTICS FOR MAJOR PORTS

PROBLEM STATEMENT:

Port capacity is a relevant parameter to estimate the expected performance of a port facility. Many simulation models have been used to predict traffic in ports and waterways, but they do not include provisions for estimating the port's capacity. The innovative method presented here determines a Port Network Traffic Capacity(PNTC) based on simulation. This method estimates PNTC given the configuration and processing characteristics of the port. It can be a useful tool to apply while designing ports, because only a limited number of simulations are required to estimate of the capacity of the infrastructure under consideration. Capacity Analysis represents a key piece of Traffic Impact Study-determining whether the roadways or intersections can handle the traffic. This part of our series presents an overview of the essential tasks in a capacity analysis.