

Problem Statement :

Traffic and Capacity Analysis for Major Ports

Domain :

Data Analytics

Literature Survey

S. No.	Title	Author	Abstract
1	Performance analysis of major ports in India: a quantitative approach	Anindita Mandal, Soma Roychowdhury and Jhumoor Biswas	<p>This paper examines the performance of 13 major ports of India in respect of key operational performance indicators. Following rapid economic growth India's share in international trade is escalating. This puts increased pressure on these ports, which handle a substantial portion of the trade to perform with optimal efficiency. The study presents a systematic analysis of different performance indicators for a ten-year time period (2003 to 2013) using a variety of statistical methods and evaluates status of each port in different categories of performance. This will enable the ports to gauge their own effectiveness and appraise reasons for their shortcomings. In this context, the work further develops an integrated composite performance index by relegating comparative weightages to different indicators, to assess the relative overall performance of different ports. The study underlines the need of such estimates to adjudge the consistency of performance,</p>

			internal and across ports to enable planning and development of measures for enhanced performance.
2	Analytics for Decision Making at Ports	Publishing India Group (PublishingIndia)	<p>Ports serve as an important link in global supply chain. Worldwide more than 75 percent of cargo move by sea. Over the years, the Indian Union has endeavoured to invest on major ports of the country to meet up to the global standards. Yet the share of major ports under the government of India has decrease from 90 to 70 percentage of total sea borne cargo in the country. The major ports lost its share to the minor ports under the state governments. Two reasons could be hypothesized for the said problem. One, the investments are not made in the right direction and other that the efficiency needs to be improved in functioning of the ports. In this paper an attempt has been made to identify the dimensions of port performance and the causality between the dimensions. It chooses to take average turn round time (ATRT) as an indicator of port performance. The paper proposes an analytical framework to identify the causality that would aid the decision</p>

			<p>makers. The causal approach has been based on identifying the dimensions (factors) using multi-variate data analysis, establishing the linear causal association between the ATRT and the factors, analyzing the relationship so obtained to propose an System Dynamics model for policy simulation by the decision makers.</p>	
3	<p>Using advanced analytics for port performance management (2019)</p>	-	<p>In this paper port performance measurement models many gaps have been Detected.</p> <p>Tools used are Data mining, data collection. Technology used is Data Analytics.</p>	