

## Determining Indicators of International Container Terminal Selection Using the Analytical Hierarchical Process = Menentukan Indikator Pemilihan Terminal Peti Kemas Internasional Menggunakan Analytical Hierarchy Process

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### Abstrak

This paper discusses the indicators of international container terminal selection. This topic is important since the competition between container terminals is rising. Due to this, the survival of ports is directly impacted. The method utilized are Analytical Hierarchy Process and Technique for Order of Preferences by Similarity to Ideal Solution. A questionnaire is conducted to the respondents, which are experts within the shipping line industry. The results shows that the 3 main criteria that influence the selection of international container terminal trade activities and sources of goods, total operation cost and the sufficient draft. With a score of 0.590797, 0.447593, and 0.386169 respectively. The TOPSIS is carried to show which of the international container terminal is ranked the highest according to the criteria. The results show NPCT 1 to be the highest with a value of more than 60%.

.....Studi ini membahas tentang indikator pemilihan terminal peti kemas internasional. Topik ini penting karena persaingan antar terminal peti kemas semakin meningkat. Karena itu, kelangsungan hidup pelabuhan terkena dampak langsung. Metode yang digunakan adalah Analytical Hierarchy Process dan Technique for Order of Preferences by Similarity to Ideal Solution. Kuesioner dilakukan kepada responden, yang ahli dalam industri pelayaran. Hasil penelitian menunjukkan bahwa 3 kriteria utama yang mempengaruhi pemilihan kegiatan perdagangan terminal peti kemas internasional dan sumber barang, total biaya operasi dan kecukupan draft. Dengan skor masing-masing 0,590797, 0,447593, dan 0,386169. TOPSIS dilakukan untuk menunjukkan terminal peti kemas internasional mana yang mendapat peringkat tertinggi menurut kriteria. Hasilnya menunjukkan NPCT 1 menjadi yang tertinggi dengan nilai lebih dari 60%.