

DAFTAR PUSTAKA

- Azhar, Z., Mardiana, H., Hidayat, R. D. R., Himawan, D., & Rahmawati, A. (2018). The Implementation of Smart Port in Tanjung Priok Port for Utilization and Green Port Optimization. *Advances in Transportation and Logistics Research*, 1, 132-138.
- Belmoukari, B., Audy, J. F., & Forget, P. (2023). Smart port: a systematic literature review. *European Transport Research Review*, 15(1), 1-12.
- Berns, S., Dickson, R., Vonck, I., & Dragt, J. (2017). *Smart Ports; Point of view*, Deloitte Port Services
- Bucak, U., Bařaran, İ. M., & Esmer, S. (2020). Dimensions of the Port Performance: A Review of Literature. *JEMS*, 2020;8(4):14-240
- Cole, M. L., Cox, J. D., & Stavros, J. M. (2019). Building collaboration in teams through emotional intelligence: Mediation by SOAR (strengths, opportunities, aspirations, and results). *Journal of Management & Organization*, 25(2), 263-283
- Douaioui, K., Fri, M., & Mabrouki, C. (2018). Smart port: Design and perspectives. In 2018 4th International Conference on Logistics Operations Management (GOL) (pp. 1-6). IEEE
- EcoPorts. (2018). Port Environmental Review System (PERS): The only port sector specific environmental management standard. Retrieved from <https://www.ecoport.com/pers>
- European Commission. (2017). What is EMAS? Retrieved from http://ec.europa.eu/environment/emas/index_en.htm
- Fabiano, B., Curro, F., Reverberi, A. P., & Pastorino, R. (2010). Port safety and the container revolution: A statistical study on human factor and occupational accidents over the long period. *Safety Science*, 48(8), 980–990. doi:10.1016/j.ssci.2009.08.007
- Jabeur, T. Al-Belushi, M. Mbark, and H. Gharrad. (2017). "Toward Leveraging Smart Logistics Collaboration with a Multi-Agent

- System Based Solution,” *Procedia Computer Science*, vol. 109, pp. 672–679
- Karli, H., Karli, R. G. Ö., & Çelikyay, S. (2021). Fuzzy AHP Approach to The Determination of Smart Port Dimensions: A Case Study on Filyos Port. *Düzce Üniversitesi Bilim ve Teknoloji Dergisi*, 9(1), 322-336
- Keputusan Dirjen Perhubungan Laut Nomor UM.002/38/18DJPL11 tanggal 15 Desember 2011 tentang Standar Kinerja Pelayanan Operasional Pelabuhan.
- Keputusan Menteri Nomor KM 48 Tahun 2020 tentang Rencana Induk Pelabuhan Makassar Provinsi Sulawesi Selatan
- Kramadibrata, Soedjono. 2002. *Perencanaan Pelabuhan*. Penerbit: ITB. Bandung.
- Laporan Tahunan PT. IPC. (2019).
- MedMartime Smart Port. (2016). Action plan towards the Smart Port concept in the Mediterranean area.
- Mokhtari, K., Ren, J., Charles, R., & Wang, J. (2012). Decision support framework for risk management on sea ports and terminals using fuzzy set theory and evidential reasoning approach. *Expert Systems with Applications*, 39(5), 5087–5103. doi:10.1016/j.eswa.2011.11.030
- Molavi, A., Lim, G. J., & Race, B. (2020). A framework for building a smart port and smart port index. *International journal of sustainable transportation*, 14(9), 686-700.
- Permenhub No. 57 Tahun 2020 tentang Perubahan Kedua atas Peraturan Menteri Perhubungan Nomor PM 51 Tahun 2015 tentang Penyelenggaraan Pelabuhan Laut [JDIH BPK RI] BN.2020/No.982, jdih.dephub.go.id : 32 hlm.
- Peraturan Pemerintah Republik Indonesia Nomor 101 Tahun 2021 Tentang Penggabungan Perusahaan Perseroan (Persero) PT Pelabuhan Indonesia I, Perusahaan Perseroan (Persero) PT Pelabuhan

Indonesia III, Dan Perusahaan Perseroan (Persero) PT Pelabuhan Indonesia.

- Rafi, S., & Purwanto, B. (2016). Dwelling time management. *Jurnal Manajemen Bisnis Transportasi Dan Logistik*, 2(2), 220-228.
- Romadhon, Y. (2018). Optimalisasi Pelabuhan Tanjung Priok Menuju Pelabuhan Berkelas Dunia. *Jurnal Logistik Indonesia*, 2(1), 37-43.
- Salbila, A. R., & Samanhudi, D. (2022). Analisis Strategi Pemasaran dengan Metode SWOT Strategic dan Quantitative Strategic Planning Matrix (QSPM) pada CV. Laskin Beauty. *JUMINTEN*, 3(1), 25-36.
- Schenone, C., Pittaluga, I., Repetto, S., & Borelli, D. (2014). Noise pollution management in ports: A Brief review and the EU MESP Project Experience. Paper presented at the Proceedings of the 21st International Congress on Sound and Vibration, Beijing, China. (pp.13–17).
- Statistia. (2017). Forecast for Global TEU capacity of container ships from 2016 to 2020. <https://www.statista.com/statistics/198254/forecast-for-global-number-of-containership-teus-from-2011/>
- Stavros, J., Cooperrider, D., & Kelley, D. L. (2003). Strategic inquiry appreciative intent: inspiration to SOAR, a new framework for strategic planning. *Ai Practitioner*, 11, 1-21.
- Supriyono, S. (2010). Analisis Kinerja Terminal Petikemas Di Pelabuhan Tanjung Perak Surabaya (Studi Kasus Di PT. Terminal Petikemas Surabaya) (Doctoral dissertation, Universitas Diponegoro).
- United Nations Conference on Trade and Development (UNCTAD) 2020 about Port Management Series Volume 8. New York and Geneva: United Nation.
- Vairo, T., Quagliati, M., Del Giudice, T., Barbucci, A., & Fabiano, B.(2017). From land-to water-use-planning: A consequence based case-study related to cruise ship risk. *Safety Science*, 97(8), 120–133. doi:10.1016/j.ssci.2016.03.024

Valenciaport, F. (2020). Smart Ports Manual: Strategy and Roadmap.

Zulkarnain, A., Wahyuningtias, D., & Putranto, T. S. (2018). Analysis of IFE, EFE and QSPM matrix on business development strategy. In IOP Conference Series: Earth and Environmental Science (Vol. 126, No. 1, p. 012062). IOP Publishing.

LAMPIRAN

A.1. Hasil Kuisisioner

Nama Reponden	Pekerjaan Responden	Instansi	S1	S2	S3	S4	S5	P1	P2	P3	P4	P5	A1	A2	A3	A4	R1	R2	R3	R4	Pendapat
Muhammaf archam	Ekspedisi	Swasta	3	3	4	3	3	4	4	3	3	4	4	4	3	3	4	4	4	4	Harus mendapat dukungan sarana dan prasarana baik berupa alat dan sdm
Yuliana Pratama Diets	Staf	PT PELINDO TERMINAL PETIKEMAS NEW MAKASSAR TERMINAL 2	4	4	3	4	4	3	3	3	3	4	3	3	3	3	4	4	3	3	Meningkatkan Sistem Teknologi yang dapat memudahkan kegiatan yang maksimal dan efisien.
Yandriswan	Duty Planner	Terminal 2 TPK NEW MAKASSAR	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Planning & Control berbasis otomatisasi
joel rhae	staff	Pelindo	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Digitalisasi layanan,
Asrul Sani	Petugas Gate	Makassar New Terminal 2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Muhammad Ridwan	Staff teknik	Terminal 2 TPKNM	3	3	4	3	3	3	4	4	3	3	4	4	3	3	3	3	4	4	

Aidah	PNS	Kemenuh	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Terintegrasi antarmoda
NOVAN HADITYA	BERTH PLANNER	PT PELINDO	3	4	4	4	4	4	4	4	4	4	3	4	4	4	4	3	4	4	penggunaan robotic di area dermaga dan cy dikontrol di kontrol tower
SALAHUDDIN	OPERASIONAL	PERUSAHAAN PELAYARAN	3	3	4	3	3	4	4	4	3	4	3	4	4	3	4	4	4	4	Sarana dan prasarananya di tambah lagi khususnya untuk saluran pipa air bersih,saat ini jika kapal mau isi air terpaksa harus menggunakan Vendor dari luar yg mana harganya jauh lebih mahal.
Arief Budiman	Staff IT	TPK New Makassar Terminal 2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Meningkatkan Kualitas SDM dan sistem yang saling terintegrasi
Husnih	ASN	Otoritas Pelabuhan Utama Makassar	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	penerapan digitalisasi
Sapri	Operasional dokumen	JPT Kitrans Logistics	4	4	4	4	3	4	4	4	3	4	4	4	4	3	4	4	4	4	Melibatkan swasta dalam aset dan

																					global supaya tidak hanya pelindo
SAJARUDDIN DJAFAR	WIRASWASTA	PT.RAHMATULLAH AGEN TRANSPORTASI NIAGA	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Briant	Agent	PT. Berkah Utama Garongkong	3	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Perlu peningkatan tenaga ilmu IT
Sofyan	Agen Pelayaran	Pt. Bmp	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Edy ahmad	Otsorching	Pt. Isma	4	4	4	4	4	4	4	4	3	4	3	4	3	4	4	4	4	4	Meningkatkan pelayanan sehingga menjadi pelabuhan internasional

A.2. Uji Validitas

Distribusi Nilai r_{tabel}

PRODUCT MOMENT

N (df)	The Level of Significance	
	5%	1%
3	0.997	0.999
4	0.950	0.990
5	0.878	0.959
6	0.811	0.917
7	0.754	0.874
8	0.707	0.834
9	0.666	0.798
10	0.632	0.765
11	0.602	0.735
12	0.576	0.708
13	0.553	0.684
14	0.532	0.661
15	0.514	0.641
16	0.497	0.623

Kemudian dilakukan perhitungan R hitung untuk menentukan validitas kuisisioner yang digunakan.

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
P1	1																	
P2	0,591864	1																
P3	-0,04134	0,021592	1															
P4	0,870388	0,709091	0,021592	1														
P5	0,591864	0,709091	0,021592	0,709091	1													
P6	0,289414	0,367058	0,589744	0,367058	0,367058	1												
P7	0,09759	0,152894	0,786796	0,152894	0,152894	0,786796	1											
P8	0,289414	0,367058	0,589744	0,367058	0,367058	0,589744	0,786796	1										
P9	0,35783	0,492659	0,221917	0,492659	0,764471	0,544705	0,428571	0,544705	1									
P10	0,48795	0,560612	0,302614	0,560612	0,560612	0,786796	0,428571	0,302614	0,428571	1								
P11	0,31334	0,127273	0,367058	0,127273	0,127273	0,367058	0,560612	0,367058	0,492659	0,152894	1							
P12	0,09759	0,152894	0,786796	0,152894	0,152894	0,786796	1	0,786796	0,428571	0,428571	0,560612	1						
P13	0,31334	0,418182	0,367058	0,418182	0,418182	0,712525	0,560612	0,712525	0,764471	0,560612	0,418182	0,560612	1					
P14	0,466667	0,591864	0,289414	0,591864	0,870388	0,620174	0,48795	0,620174	0,87831	0,48795	0,31334	0,48795	0,591864	1				
P15	0,48795	0,560612	0,302614	0,560612	0,560612	0,786796	0,428571	0,302614	0,428571	1	0,152894	0,428571	0,560612	0,48795	1			
P16	0,620174	0,367058	0,179487	0,367058	0,367058	0,589744	0,302614	0,179487	0,221917	0,786796	0,367058	0,302614	0,367058	0,289414	0,786796	1		
P17	0,09759	0,152894	0,786796	0,152894	0,152894	0,786796	1	0,786796	0,428571	0,428571	0,560612	1	0,560612	0,48795	0,428571	0,302614	1	
P18	0,09759	0,152894	0,786796	0,152894	0,152894	0,786796	1	0,786796	0,428571	0,428571	0,560612	1	0,560612	0,48795	0,428571	0,302614	1	1
R Hitung	0,590041	0,622834	0,537213	0,649058	0,675283	0,848641	0,753468	0,755213	0,765719	0,753468	0,54416	0,753468	0,780181	0,816014	0,753468	0,599499	0,753468	0,753468
R Tabel	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514	0,514
F/V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V

