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Submission Metadata

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Name Affiliation Country Bio Statement	Dana Marsetiya Utama 🖾 Universitas Muhammadiyah Malang Indonesia —		
Title and Abstract			
Title	A Three-Phased Perishable Inventory Simulation Model with Quality Decrease Consideration		
Abstract	In this article, focus on the simulation of a three-phase perishable product inventory system of a SMEs selling fresh and processed milkfish. This research was conducted to simulate a perishable product inventory system to understand and analyze the problems that occur then propose solutions to fix them. The simulation model was developed with ARENA software, simulation results of the existing condition show that there is 162 kg/month waste in fresh fish, 158 pcs/month in processed product A, and 86 pcs/month in processed product B. A model with a product renewal process mechanism was proposed to overcome this problem, and seven improvement scenarios were developed. The results obtained from the seventh improvement scenario revealed that there was a 100% reduction in fresh fish and processed product B and 94% in processed product A. Besides, there was a saving in need for fresh fish supply of 10 kg/day. In this article, we show how ARENA software can be adopted to simulate inventory system problems effectively. The method in this research can be applied to investigate various supply system scenarios and their consequences before implementing it in a real system.		
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References	 Abelti, A., Correspondence, A., & Abelti. (2016). Post-harvest and nutritional loss assessment of fish at different handling stage from Genale River, Southeastern Oromia. 263, 263-266. Agustina, D., Lee, C. K. M., & Piplani, R. (2014). Vehicle scheduling and routing at a cross docking center for food supply chains. International Journal of Production Economics, 152, 29-41. doi:https://doi.org/10.1016/j.ijpe.2014.01.002 Ali, I., Nagalingam, S., & Gurd, B. (2018). A resilience model for cold chain logistics of perishable products. The International Journal of Logistics Management. doi:10.1108/JJLM-06-2017-0147 Ames, G., Clucas, I., & Paul, S. S. (1991). Post-Harvest Losses of Fish in The Tropics: Natural Resources Institute. Amorim, P., Günther, H. O., & Almada-Lobo, B. (2012). Multi-objective integrated production and distribution planning of perishable products. International Journal of Production Economics, 138(1), 89-101. doi:https://doi.org/10.1016/j.ijpe.2012.03.005 Avinadav, T., Herbon, A., & Spiegel, U. J. I. J. o. P. E. (2013). Optimal inventory policy for a perishable item with demand function sensitive to price and time. 144(2), 497-506. Bakker, M., Riezebos, J., & Teunter, R. H. (2012). Review of inventory systems with deterioration since 2001. European Journal of Operational Research, 221(2), 275-284. doi:https://doi.org/10.1016/j.ejor.2012.03.004 Chakraborty, N., Mondal, S., Maiti, M. J. C., & Engineering, I. (2013). A deteriorating multi-item inventory model with price discount and variable demands via fuzzy logic under resource constraints. 66(4), 976-987. Chang, CT, Cheng, MC., & Ouyang, LY. (2015). Optimal pricing and ordering policies for non-instantaneously deteriorating items under order-size-dependent delay in payments. Applied Mathematical Modelling, 39(2), 747-763. doi:https://doi.org/10.1016/j.apm.2014.07.002 Chao, X., Gong, X., Shi, C., & Zhang, H. J. O. R. (2015). Approximat		

Chew, E. P., Lee, C., Liu, R., Hong, K.-s., & Zhang, A. J. I. J. o. P. E. (2014). Optimal dynamic pricing and ordering decisions for perishable products. 157, 39-48.

Chung, C.-J., Wee, H.-M., Chen, Y.-L. J. M., & Modelling, C. (2013). Retailer's replenishment policy for deteriorating item in response to future cost increase and incentive-dependent sale. 57(3-4), 536-550.

Chung, J., & Li, D. (2013). The prospective impact of a multi-period pricing strategy on consumer perceptions for perishable foods. British Food Journal, 115. doi:10.1108/00070701311314200 Chung, W., Talluri, S., & Narasimhan, R. J. E. J. o. O. R. (2015). Optimal pricing and inventory strategies with multiple price markdowns over time. 243(1), 130-141.

Dalfard, V. M., Nosratian, N. E. J. N. C., & Applications. (2014). A new pricing constrained singleproduct inventory-production model in perishable food for maximizing the total profit. 24(3-4), 735-743.

Duong, L. N. K., Wood, L. C., & Wang, W. Y. C. (2015). A Multi-criteria Inventory Management System for Perishable & Substitutable Products. Procedia Manufacturing, 2, 66-76. doi:https://doi.org/10.1016/j.promfg.2015.07.012

Dye, C.-Y., & Hsieh, T.-P. J. A. M. M. (2013). Joint pricing and ordering policy for an advance booking system with partial order cancellations. 37(6), 3645-3659.

Dye, C.-Y., & Yang, C.-T. (2016). Optimal dynamic pricing and preservation technology investment for deteriorating products with reference price effects. Omega, 62, 52-67. doi:https://doi.org/10.1016/j.omega.2015.08.009

Dye, C.-Y. J. O. (2013). The effect of preservation technology investment on a non-instantaneous deteriorating inventory model. 41(5), 872-880.

FAO, F. A. O. o. t. U. N. (2018). The State of World Fisheries and Aquaculture 2018.
Getu, A., & Misganaw, K. (2015). Post-harvesting and Major Related Problems of Fish
Production. Fisheries and Aquaculture Journal, 06. doi:10.4172/2150-3508.1000154
Guchhait, P., Maiti, M. K., & Maiti, M. J. I. J. o. P. E. (2013). Production-inventory models for a
damageable item with variable demands and inventory costs in an imperfect production process.
144(1), 180-188.

Hafner, G., Barabosz, J., Schneider, F., Lebersorger, S., Scherhaufer, S., Schuller, H., . . . Kranert, M. (2012). Determination of discarded food and proposals for a minimization of food wastage in Germany.

Herbon, A. J. I. J. o. P. R. (2018). Optimal two-level piecewise-constant price discrimination for a storable perishable product. 56(5), 1738-1756.

Ignaciuk, P., & Bartoszewicz, A. (2012). DSM control of perishable inventory systems with remote supply source and uncertain demand. Paper presented at the 2012 12th International Workshop on Variable Structure Systems.

Ignaciuk, P., Bartoszewicz, A. J. I. T. o. A. S., & Engineering. (2012). Sliding mode dead-beat control of perishable inventory systems with multiple suppliers. 9(2), 418-423.

Janssen, L., Claus, T., & Sauer, J. (2016). Literature review of deteriorating inventory models by key topics from 2012 to 2015. International Journal of Production Economics, 182, 86-112. doi:https://doi.org/10.1016/j.ijpe.2016.08.019

Janssen, L., Sauer, J., Claus, T., & Nehls, U. (2018). Development and simulation analysis of a new perishable inventory model with a closing days constraint under non-stationary stochastic demand. Computers & Industrial Engineering, 118, 9-22.

doi:https://doi.org/10.1016/j.cie.2018.02.016

KKP, K. K. d. P. (2015). KKP-FAO Kaji Penyusutan Panen Perikanan. Retrieved from https://news.kkp.go.id/index.php/kkp-fao-kaji-penyusutan-panen-perikanan/

Kouki, C., Jemaï, Z., & Minner, S. J. I. J. o. P. E. (2015). A lost sales (r, Q) inventory control model for perishables with fixed lifetime and lead time. 168, 143-157.

Kouki, C., Jemai, Z., Sahin, E., & Dallery, Y. J. I. J. o. P. R. (2014). Analysis of a periodic review inventory control system with perishables having random lifetime. 52(1), 283-298.

Kuthambalayan, T. S., Mehta, P., & Shanker, K. J. I. J. o. P. E. (2015). Managing product variety with advance selling and capacity restrictions. 170, 287-296.

Li, N., Chan, F. T., Chung, S., & Tai, A. H. J. M. P. i. E. (2015). An EPQ model for deteriorating production system and items with rework. 2015.

Liu, G., Zhang, J., & Tang, W. J. A. o. O. R. (2015). Joint dynamic pricing and investment strategy for perishable foods with price-quality dependent demand. 226(1), 397-416.

Mahata, G. C. (2015). Partial Trade Credit Policy of Retailer in Economic Order Quantity Models for Deteriorating Items with Expiration Dates and Price Sensitive Demand. Journal of Mathematical Modelling and Algorithms in Operations Research, 14(4), 363-392.

doi:10.1007/s10852-014-9269-5

Mahata, P., Gupta, A., & Mahata, G. C. J. I. J. o. O. R. (2014). Optimal pricing and ordering policy for an EPQ inventory system with perishable items under partial trade credit financing. 21(2), 221-251.

Maihami, R., Abadi, I. N. K. J. M., & Modelling, C. (2012). Joint control of inventory and its pricing for non-instantaneously deteriorating items under permissible delay in payments and partial backlogging. 55(5-6), 1722-1733.

Makkar, S., Jha, P. J. J. o. I., & Sciences, O. (2012). Single-Source, Multiple-Destination coordination of multi item EOQ model for perishable products with quantity discounts incorporating Partial/Full truckload policy under fuzzy environment. 33(2-3), 385-399. Molana, S., Davoudpour, H., & Minner, S. J. J. o. t. O. R. S. (2012). An (r, nQ) inventory model for packaged deteriorating products with compound Poisson demand. 63(11), 1499-1507. Muniappan, P., Uthayakumar, R., Ganesh, S. J. J. o. I., & Engineering, P. (2016). A production

inventory model for vendor–buyer coordination with quantity discount, backordering and rework for fixed life time products. 33(6), 355-362.

Nahmias, S. (1982). Perishable Inventory Theory: A Review. Operations research, 30, 680-708. doi:10.1287/opre.30.4.680

Nahmias, S. (2011). Perishable Inventory Systems: Springer US.

Olsson, F. J. A. o. O. R. (2014). Analysis of inventory policies for perishable items with fixed leadtimes and lifetimes. 217(1), 399-423.

Ouyang, L.-Y., Wu, K.-S., Yang, C.-T., & Yen, H.-F. J. I. J. o. S. S. (2016). Optimal order policy in response to announced price increase for deteriorating items with limited special order quantity. 47(3), 718-729.

Ramadhan, A. N., Simatupang, T. M. J. P.-S., & Sciences, B. (2012). Determining inventory management policy for perishable materials in Roemah Keboen restaurant. 65, 992-999. Sazvar, Z., Baboli, A., & Jokar, M. R. A. J. T. I. J. o. A. M. T. (2013). A replenishment policy for perishable products with non-linear holding cost under stochastic supply lead time. 64(5-8), 1087-1098.

Sharma, P. K. (2016). Perishable inventory systems: A literature review since 2006. International Journal of Applied Research, 2(9).

Shin, M., Lee, H., Ryu, K., Cho, Y., & Son, Y.-J. (2019). A two-phased perishable inventory model for production planning in a food industry. Computers & Industrial Engineering, 133, 175-185. doi:https://doi.org/10.1016/j.cie.2019.05.010

Shukla, M., & Jharkharia, S. J. I. J. o. I. S. M. (2014). An inventory model for continuously deteriorating agri-fresh produce: an artificial immune system-based solution approach. 9(1-2), 110-135.

Singh, S., & Saxena, N. J. P. T. (2013). A closed loop supply chain system with flexible manufacturing and reverse logistics operation under shortages for deteriorating items. 10(1), 330-339.

Singh, S., & Vishnoi, M. J. I. J. o. P. M. (2013). Supply chain inventory model with price-dependent consumption rate with ameliorating and deteriorating items and two levels of storage. 6(2), 129-151.

Song, B. D., & Ko, Y. D. (2016). A vehicle routing problem of both refrigerated- and general-type vehicles for perishable food products delivery. Journal of Food Engineering, 169, 61-71. doi:https://doi.org/10.1016/j.jfoodeng.2015.08.027

Soni, H. N., Joshi, M. J. C., & Engineering, I. (2013). A fuzzy framework for coordinating pricing and inventory policies for deteriorating items under retailer partial trade credit financing. 66(4), 865-878.

Soysal, M., Bloemhof-Ruwaard, J. M., Haijema, R., & van der Vorst, J. G. J. I. J. o. P. E. (2015). Modeling an Inventory Routing Problem for perishable products with environmental considerations and demand uncertainty. 164, 118-133.

Tai, A. H. J. C., & Engineering, I. (2013). Economic production quantity models for deteriorating/imperfect products and service with rework. 66(4), 879-888.

Taleizadeh, A. A., Mohammadi, B., Cárdenas-Barrón, L. E., & Samimi, H. J. I. J. o. P. E. (2013). An EOQ model for perishable product with special sale and shortage. 145(1), 318-338.

Transchel, S., & Hansen, O. (2019). Supply Planning and Inventory Control of Perishable Products Under Lead-Time Uncertainty and Service Level Constraints. Procedia Manufacturing, 39, 1666-1672. doi:https://doi.org/10.1016/j.promfg.2020.01.274

Wang, X., & Li, D. (2012). A dynamic product quality evaluation based pricing model for perishable food supply chains. Omega, 40(6), 906-917.

doi:https://doi.org/10.1016/j.omega.2012.02.001

Wee, H. M., & Widyadana, G. A. J. O. (2013). A production model for deteriorating items with stochastic preventive maintenance time and rework process with FIFO rule. 41(6), 941-954. Widyadana, G. A., & Wee, H. M. J. I. J. o. P. E. (2012). An economic production quantity model for deteriorating items with multiple production setups and rework. 138(1), 62-67. Xiao, T., & Xu, T. J. I. J. o. P. E. (2013). Coordinating price and service level decisions for a supply chain with deteriorating item under vendor managed inventory. 145(2), 743-752.

Zhang, J., Liu, L., Mu, W., Moga, L., & Xiaoshuan, Z. (2009). Development of temperature-

managed traceability system for frozen and chilled food during storage and transportation. J. Food Agric. Environ., 7.



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Editor Decision

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Letter of Acceptance

2 messages

Jurnal Industri <jurnal.industri@ums.ac.id> To: muhammad.ibrahim@uisi.ac.id Wed, Dec 9, 2020 at 11:31 AM

Dear Mr./Mrs. Muhammad Faisal Ibrahim, Yunita Siti Mardhiyyah, Ahmad Rusdiansyah, Meidina Kalse Boer, Dana Marsetiya Utama

Assalaamu'alaikum wa rahmatullaahi wa barakaatuh

Alhamdulillah, all praise is due to Allah, the Most Gracious and the Most Merciful.

We congratulate that the manuscript that you have sent to the editor of Jurnal Imiah Teknik Industri,

Title	:	A Three-Phased Perishable Inventory Simulation Model with Quality Decrease Consideration
Code	:	11769
Author((s):	Muhammad Faisal Ibrahim, Yunita Siti Mardhiyyah, Ahmad
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has been accepted for publication in Vol. 19 No. 2, which will be published in December 2020.

For this reason, a publication fee of IDR 1,000,000 can be transferred to Bank Mandiri, account number 138.00.0501276.5 (Much Djunaidi). We expect publication fees to be transferred no later than December 15, 2020. Please, send the transfer evidence to this email.

Thank you for your attention.

Wassalaamu'alaikum wa rahmatullaahi wa barakaatuh

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Muhammad Faisal Ibrahim <muhammad.ibrahim@uisi.ac.id> To: Jurnal Industri <jurnal.industri@ums.ac.id> Mon, Dec 14, 2020 at 9:03 AM

Dear Editor Jurnal Ilmiah Teknik Industri,

Waalaikumsalam warahmatullaahi wa barakaatuh

Along with this e-mail, I attach evidence of the publication fee transfer. We will re-upload the full paper soon.

Thanks

Best Regards,

Muhammad Faisal Ibrahim, S.T., M.T.

Lecturer of Logistics Engineering Department Universitas Internasional Semen Indonesia Gresik 61122, East Java, Indonesia **Mobile** +62853 2366 6694 **Office** +6231 3985482 /+6231 3981732 **Fax** +6231 3985481 [Quoted text hidden]

Best Regards,

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1 message

Jurnal Industri <jurnal.industri@ums.ac.id>

Wed, Dec 23, 2020 at 8:30 AM

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Dear Author Volume 19 (2)

Assalaamu'alaikum

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Wassalaamu'alaikum

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[JITI] Submission Acknowledgement

1 message

Much. Djunaidi <journals-noreply@ums.ac.id> To: Muhammad Faisal Ibrahim <faisalibrahim.ie@gmail.com>

Muhammad Faisal Ibrahim:

Thank you for submitting the manuscript, "A Three-Phased Perishable Inventory Simulation Model with Quality Decrease Consideration" to Jurnal Ilmiah Teknik Industri. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

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If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

Much. Djunaidi Jurnal Ilmiah Teknik Industri

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[JITI] Editor Decision

1 message

Much. Djunaidi <journals-noreply@ums.ac.id> To: Muhammad Faisal Ibrahim <faisalibrahim.ie@gmail.com>

Muhammad Faisal Ibrahim:

We have reached a decision regarding your submission to Jurnal Ilmiah Teknik Industri, "A Three-Phased Perishable Inventory Simulation Model with Quality Decrease Consideration".

Our decision is to: REVISION REQUIRED

Much. Djunaidi Universitas Muhammadiyah Surakarta much.djunaidi@ums.ac.id

Reviewer A:

Please describe your detail inputs in pointers format. You are permitted to provide direct inputs to the manuscript by providing direct comments in every section of the manuscript as guided in the following list. Abstract (concise and complete):

The abstract should be concise

Introduction and Theoretical Background (problem clarity and theoretical framework):

This sentence "In previous studies, there have been many inventory models for perishable products, but very few consider the renewal process" in the introduction section is ambiguity, lack of support and only based on the writer perspective

The gap from previous research is not explained with proper flow in the section of introduction

Methods (clarity and details of the research steps):

The method is using Arena simulation. There are no justification on some treatment of the simulation model such as scenarios and some modules used in the Arena.

Results and Discussions (results of data processing, depth of analysis and discussion):

Results are not analyzed in depth. The results from scenarios are not discussed firmly.

Conclusion (summary of analysis and discussion):

The conclusion should not just mention the results, it should beyond the results.

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There is no Reference published in 2019 and 2020.

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the fundamental flaws of this article.

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Please describe your detail inputs in pointers format. You are permitted to provide direct inputs to the manuscript by providing direct comments in every section of the manuscript as guided in the following list. Abstract (concise and complete):

The abstract should be concise, no need to state further potential research

Mon, Dec 7, 2020 at 7:11 AM

Introduction and Theoretical Background (problem clarity and theoretical framework):

This sentence in the introduction section is ambiguity, lack of support and only based on the writer perspective "In previous studies, there have been many inventory models for perishable products, but very few consider the renewal process".

The gap from previous research is not explained with proper flow in the section of introduction

Methods (clarity and details of the research steps):

The method is using Arena simulation however there are no justification on some treatment of the simulation model such as scenarios and some modules used in the Arena.

Results and Discussions (results of data processing, depth of analysis and discussion):

Results are not analyzed in depth. It is all about the results of the software. The results from scenarios are not discussed firmly. There should be practical implication section explaining the proposed improvement for the company. Also there should be a section of theoretical insight to answer the gap of this study from other previous relevant studies.

Conclusion (summary of analysis and discussion):

The conclusion should not just mention the results, it should beyond the results. Thus it should be written in better way

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