

**SOCIALIZATION OF LOADING AND UNLOADING PROCEDURES BASED ON
LEAN LOGISTICS TO MINIMIZE DOWNTIME AT THE KEDIRI CITY GOODS
TERMINAL**

**Dynes Rizky Navianti^{1*}, Nyoman Arya Permana¹, Aulia Daffa' Iqbal Samudera¹, Putri Faradella¹,
Guntur Tri Indra Setiawan²**

¹Logistics Management, Politeknik Transportasi Darat Bali, Jl. Cempaka Putih, Samsam, Kerambitan, Tabanan,
Bali 80582, Indonesia

²Railway Transportation Management, Politeknik Transportasi Darat Indonesia-STTD, Cibuntu, Cibitung,
Bekasi, Jawa Barat 17520, Indonesia

*dynes@poltradabali.ac.id

ABSTRACT

The loading and unloading process at the goods terminal often experiences downtime due to inefficient procedures, queues, and lack of coordination. Lean Logistics is a solution to minimize wasted time and increase productivity. The objectives of this Community Service (PKM) activity are: (1) Increasing workers' understanding of the principles of Lean Logistics; (2) Socializing standardized loading and unloading procedures; (3) Building an efficiency-oriented work culture. The method used is direct socialization at the Kediri City Goods Terminal with an educational approach through brochures, banners, and two-way interactions. As a result, participants understand the importance of eliminating waste, standard operating procedures (SOP), and collaboration between parties. Supporting factors include financial support from Poltrada Bali and driver enthusiasm, while the main obstacle is the limited time of participants. This activity is recommended to be carried out periodically by involving driver associations and terminal management.

Keywords: downtime; efficiency; freight terminal; lean logistics; loading and unloading

INTRODUCTION

Logistics activities at goods terminals are the backbone of commodity distribution, but are often hampered by *downtime* due to queues, unprepared documents, or overlapping tasks. Management logistics is the process of managing from procurement goods until expenditure goods in a way effective and efficient so that get mark plus for customer (Tinggi Ilmu Ekonomi et al., n.d.). understanding effectiveness is achievement objective in a way appropriate or choose the right goals from a series alternative or choice how and determine choice from a number of choice others. Effectiveness can also be interpreted as as measurement success in achievement the goals that have been Logistics (Widyawati & Hinriyani, 2020) is the management of the flow of goods, energy, information, people and other resources from the point of origin to the point of consumption, with the aim of ensuring optimal use of resources and capital (Kasengkang et al., n.d.). Efficiency in activity logistics greatly influences performance chain supply in a way overall. Temporary activity logistics Alone is a design activity that begins from planning where company will plan need goods or services and carry out identification processes source the power required to support need logistics (Saputra et al., 2024a). Activity main logistics involving activity procurement, production, warehousing, distribution, transportation and delivery goods worked on each perpetrator business and industry both in the secondary and tertiary sectors in frame support activity its operations (Hidayat et al., n.d.). Activity logistics is activities that encompass all activity planning from upstream to downstream (Tohir & Satritama, n.d.). Logistics Process is

a transfer process activities goods from point beginning until to point the end that has been determined by a company logistics with notice a number of aspects (Saputra et al., 2024b).

Activities transportation is step important in transport cargo (goods and passengers) from One place to elsewhere. *Downtime* not only reduces productivity but also increases operational costs. In this fast-paced (Transportasi Darat Terhadap Kelancaran Distribusi Logistik Siti Sahara & Saputra, n.d.) era this, level competition in the business world especially in the field logistics become very high. To Can endure as well as growing in condition said, the company must Can improve, develop as well as process various source the power it has such as capital, materials and machines in order to survive and thrive in condition said (Saputra et al., 2024a). Business in the field of logistics is one of enough business promising especially in the field of service transportation (Yazmi et al., 2023). Implementation The Lean Manufacturing concept aims to accelerate production process time (lead time) and increase number of outputs with method remove various form waste in the company (Teknik et al., 2017). The concept of lean manufacturing can developed with another customized approach with problems that occur in layout repair understaffed factory in accordance with layout rules good facilities (Wirawan & Suryati, n.d.).

Based on observations at the Kediri City Goods Terminal, *downtime* occurs due to: (1) Lack of worker understanding of standardized workflow; (2) Lack of process visualization; (3) Weak inter-divisional coordination. This PKM activity aims to overcome these problems through the socialization of *Lean Logistics-based procedures*, such as 5S (Seiri, Seiton, Seiso, Seiketsu, Shitsuke) 5S is five steps arrangement and maintenance place work developed through effort intensive in field manufacturing (Prinsip et al., 2017). A method of organizing work that aims to improve quality and productivity by eliminating waste due to irregularities in the workplace. An important effect of the 5S method is the standardization of the workplace (Michlowicz, 2024). *Just-in-Time* is "Approach sustainable and completion problem in a way force that focuses on output and reduction supply" (Aprilianti & Hidayat, 2019)

METHOD

The methodology used is socialization. Socialization is a learning method in gaining knowledge about norms and values in order to participate as members of community groups (Laia, n.d.). Community service activities targeting drivers and stevedores in the framework of educating the importance of lean logistics to minimize downtime at the Kediri city goods terminal. This activity was carried out on Jl. Raya Kediri - Pare No. 4, Tosaren, Kec. Pesantren, Kediri Regency, East Java 64133.

RESULTS AND DISCUSSION

Community service activities related to lean logistics-based loading and unloading procedures at the old terminal in Kediri City to increase insight and provide education to drivers and stevedores in a series of Community Service programs in 2025. The criteria for this socialization activity are the level of understanding of drivers and stevedores based on lean logistics to minimize downtime and the importance of PPE in loading and unloading activities, including:

Program Success

This PKM activity was carried out by directly asking questions to drivers and loading and unloading workers and accompanied by the Kediri City Transportation Agency. The PKM

activity can run well and can provide education on lean logistics to minimize downtime and direct understanding.

Supporting Factors

The achievement of this PKM activity cannot be separated from internal and external support. Internal support is in the form of the active role of all Lecturers and Students of Logistics Management Poltrada Bali. External support for the achievement of PKM activities is also inseparable from the support of the Kediri City Transportation Agency which has provided a place for the implementation of socialization activities, in addition to the enthusiasm of drivers and stevedoring workers in activities socialized by students.

Inhibiting Factors

During the activity process there were no inhibiting factors during the running of PKM. The drivers and loading and unloading workers who participated in this PKM activity were very enthusiastic and showed a good response by asking several questions related to several materials that were still not understood by the participants and the students were able to provide a good response.

Stages of Activity Implementation

The activity was carried out on May 16, 2025 at the Kediri City Goods Terminal using the following methods:

This PKM activity is carried out with a participatory and educational approach, combining direct socialization methods (on-site) with structured mentoring. Stages implementation consists of from :

1. Preparation

a. Coordination with Stakeholder :

The team coordinated with the Kediri City Transportation Agency and the Freight Terminal management to align the activity schedule with terminal operations, ensuring that the socialization did not interfere with loading and unloading activities.

b. Compilation Material :

The material is compiled based on a needs assessment through field observations and informal interviews with drivers and stevedores. The material focuses on the basic principles of Lean Logistics (waste elimination , value stream mapping) , Standard Operating Procedures (SOP) for efficient stevedores , and the role of visual aids (visual management) in reducing downtime .

c. Media Preparation :

Brochure educative containing steps dismantling procedure load based on Lean and Lean Logistics solutions for loading and unloading and the importance of using PPE



Figure 1. Lean Logistics Definition Brochure



Figure 2. Brochure for Socialization of Loading and Unloading Procedures

Socialization Banner for Lean Logistics-Based Loading and Unloading Procedures to Minimize Downtime at the Kediri City Goods Terminal

2. Implementation of Socialization

Activities are carried out in two forms:

a. Delivery Material :

The material is delivered interactively using a small group discussion method involving drivers and stevedores accompanied by the Kediri City Transportation Agency. The presentation is done in simple and contextual language to ensure that all participants understand the basic principles of Lean Logistics and the urgency of minimizing downtime.

b. **Lean Logistics Educational Brochure Distribution**

Drivers and stevedores are divided brochure educational content that contains procedures procedure demolish efficient loading , guide arrangement goods , and checklist format mandatory documents prepared For speed up administrative processes , as well as important guidelines for using PPE

3. Evaluation

a. **Feedback Direct :**

Drivers and workers loading and unloading goods are asked to provide responses through a question and answer session

b. **Documentation :**

All activities are documented in the form of photos and videos as material for team evaluation and reporting.



Figure 3. Distribution of Brochures to Drivers



Figure 4. Socialization to stevedores



Figure 5. Questions and Answers to the Assistants of the Kediri City Transportation Agency

CONCLUSION

This Community Service (PKM) activity has succeeded in increasing the understanding of drivers and stevedores at the Kediri City Goods Terminal regarding the importance of implementing *Lean Logistics principles* in the loading and unloading process. Through direct socialization and distribution of educational materials such as brochures and banners, participants gained insight into eliminating waste, the importance of Standard Operating Procedures (SOP), and the use of personal protective equipment (PPE) to support work safety. This program is supported by the enthusiasm of the participants and collaboration from the Kediri City Transportation Agency and Bali Police. No significant obstacles were found during the implementation of the activity. The educational and participatory approach has proven effective in delivering materials and building a more efficient work culture in the terminal environment. Similar activities are recommended to be carried out sustainably with a wider scope, involving driver associations, terminal management, and related stakeholders to strengthen the implementation of *Lean Logistics* in national logistics practices.

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