

**SOCIALIZATION OF SIAP BERBUS (INFORMATION SYSTEM FOR MONITORING
TOURIST BUS FLEET) FOR STUDENTS AND TEACHERS**

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ABSTRACT

Motor vehicles are the main means of transportation in Indonesia, with the number increasing every year. This increase facilitates mobility and boosts economic growth, but also leads to increased air pollution, congestion, and traffic accidents. Unroadworthy vehicle conditions are one of the main causes of traffic accidents, potentially jeopardizing the safety of motorists and other road users. To address this issue, it is important for students and teachers to understand the importance of vehicle roadworthiness, especially tour buses that are often used in study tour activities. This research aims to increase the awareness and understanding of students and teachers about the importance of vehicle roadworthiness through the socialization of "SIAP BERBUS (Tourism Bus Fleet Monitoring Information System)" using the MITRA DARAT application. This activity was carried out at SMA Negeri 2 Denpasar with an interactive counseling method that involved participants in discussions and hands-on simulations. The results of this activity showed an increase in participants' understanding of traffic safety and the use of technology to monitor vehicle eligibility. Participants showed the ability to apply the knowledge gained, so it is expected to reduce the risk of accidents related to study tour activities.

Keywords: bus; monitoring; roadworthiness; tourism; traffic

INTRODUCTION

Motorized vehicles are one of the main means of transportation used by people in Indonesia. Currently, there are tens of millions of motorized vehicles registered in Indonesia. This number continues to increase every year. The increase in the number of motorized vehicles has positive and negative impacts (Priyambodo, 2018). The positive impact is facilitating people's mobility and encouraging economic growth. The negative impact is increasing air pollution, traffic congestion, and traffic accidents. Traffic accidents are one of the serious problems in Indonesia. Data from the Traffic Corps of the Indonesian Police (Korlantas Polri) shows that in 2022, there were 23,029 cases of traffic accidents resulting in 15,603 deaths. One of the factors causing traffic accidents is the condition of motorized vehicles that are not roadworthy. Motorized vehicles that are not roadworthy can endanger the safety of their drivers and other road users. Ensuring that the vehicles used are roadworthy is not only the responsibility of entrepreneurs or the government but we as users also need to participate in encouraging increased safety. The many cases of accidents that occur related to study tour activities carried out by several schools and resulting in fatalities need to be a serious concern considering that study tours have become mandatory in many schools in Indonesia. We can anticipate this by checking the roadworthiness of the vehicle using the "Mitra Darat" application. Therefore, it is very important for students and teachers to be able to know how to ensure that the vehicle to be used meets the requirements as evidenced by the multiplication of motorized vehicle roads. By focusing on education and socialization, we aim to increase

awareness and understanding of students and teachers about the importance of roadworthiness of motorized vehicles, especially tourist buses that are often used in study tour activities.

Through this activity, students and teachers will be introduced to "SIAP BERBUS (Tourism Bus Fleet Monitoring Information System)," a tool designed to facilitate monitoring of vehicle roadworthiness. It is hoped that with a better understanding, they can play an active role in ensuring that the vehicles used have met roadworthiness standards, so that study tour activities can take place safely and comfortably. Thus, this community service activity is not only an effort to fulfill social responsibility, but also a concrete step in reducing the number of accidents on the road and protecting the younger generation who are the hope for the future.

METHOD

This community service activity uses a counseling method that focuses on students and teachers at SMA Negeri 2 Denpasar. This method was chosen to provide the knowledge and skills needed to ensure the roadworthiness of motorized vehicles, especially tourist buses, which are often used in school activities such as study tours. The implementation of this activity is carried out through a series of structured and systematic steps. The first step is the preparation of educational materials that are tailored to the needs of the participants. This material includes information on the importance of vehicle roadworthiness as well as practical guidance on using the "SIAP BERBUS (Tourism Bus Fleet Monitoring Information System)" application. Furthermore, the counseling activity is carried out with an interactive approach, where participants not only listen to the presentation, but are also involved in discussions and direct simulations. The location of the activity was chosen in a school environment to ensure comfort and ease of access for participants. Through a friendly and easy-to-understand approach, it is hoped that students and teachers can better understand the risks posed by unroadworthy vehicles and how to avoid them. As part of the evaluation, participants were asked to provide feedback regarding their understanding of the material presented. This evaluation is important to measure the effectiveness of the counseling and to see to what extent participants can apply the knowledge they have gained in real life. With this method, it is hoped that this community service activity will not only provide knowledge, but also create a higher awareness among students and teachers regarding the importance of road safety.

RESULTS AND DISCUSSION

The socialization activity regarding the Tourism Bus Fleet Monitoring Information System (SIAP BERBUS) aims to increase understanding among students and educators regarding the importance of traffic safety, especially regarding the use of tourism bus fleets. This program is part of a series of community service activities in 2024, which has the main target of increasing the level of safety and security in the use of tourism buses through several success indicators, including:

Program Success

This Community Service Program has succeeded in expanding participants' understanding of the importance of monitoring the roadworthiness of tourism bus fleets. In addition, this program also encourages the adoption of technology through land partner applications designed to ensure safety and security in the use of tourism buses. With this socialization, it is hoped that students and teachers can gain deeper knowledge, so that they can be more vigilant and play an active role in ensuring safety when using tourism transportation modes.



Figure 1. Awarding the prize to the quiz winner.

Supporting Factors

The success of the implementation of this PKM activity cannot be separated from various supporting factors, both internal and external. Internal support includes the active involvement of all lecturers and students of Poltrada Bali Automotive Technology who play an important role in the realization of this activity. Support from Poltrada Bali, including the allocation of funds through the P3M, is also an important factor in supporting the smooth running of this program. On the external side, SMA Negeri 2 Denpasar also made a significant contribution by providing facilities for the implementation of the socialization. In addition, the enthusiasm shown by the students of SMA Negeri 2 Denpasar during the activity was also a strong indicator that supported the success of this program. Their involvement, especially in the question and answer session, reflected their interest and concern for the material presented.



Figure 2. Delivery of material and Q&A session

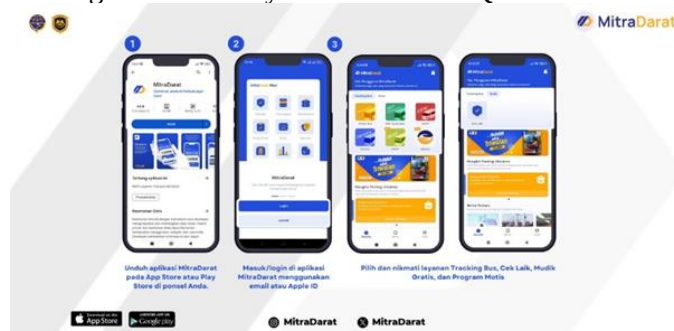


Figure 3. Display of the Mitra Darat Application.

Inhibiting Factors

During the implementation process, no significant obstacles were found that disrupted the course of the activity. The socialization participants showed a high level of participation and gave a positive response to the material presented. They not only followed the entire series of activities well, but also actively asked questions that reflected their understanding and interest in the topics discussed. The speakers were able to provide adequate explanations, so that each question could be answered well. This shows that this PKM activity was carried out effectively and efficiently, without any significant obstacles.

CONCLUSION

Community service activities that have been carried out by Lecturers and Students of the D-III Automotive Technology Study Program of the Bali Land Transportation Polytechnic located at SMAN 2 Denpasar held a socialization activity themed SIAP BERBUS (Tourism Bus Fleet Information System) to improve understanding and new knowledge for students of SMAN 2 Denpasar. During the community service activities, the participants were very enthusiastic and enthusiastic in participating in various series of socialization activities provided by the Poltrada Bali community service team. It is hoped that in the future this socialization activity can be continued and implemented in various other locations as a form of concern for security and safety in driving on the road for the younger generation.

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