

## **Evaluation Method for Implementation Effect of Disaster Countermeasures on a Freight Railway Network**

Daiki OKUDA      Takuya WATANABE      Shingo NAKAGAWA  
Takamasa SUZUKI      Noriko FUKASAWA

We developed a method for evaluating the effectiveness of disaster countermeasure implementation using two indexes: the amount of freight transported during the period when an interrupted section due to a natural disaster exists in the freight railway network, and the costs of restoration work and keeping freight transportation during the period, covered by the operator of the freight railway. The method aims to support decision-making of the operator in planning and examination of disaster countermeasures. A case study applying the developed evaluation method, showed that the method can provide appropriate evaluation results contributing to the decision-making of the freight railway operator.