

Characteristic Analysis Transportation Difficulty Area

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This study is in order to identify the characteristics of the areas all over Japan, where transportation is not easily available and people depend on automobile for transportation, including places in the mountains and depopulated areas.

Relationship between population distribution and daily destinations (shopping centers, banks, kindergartens, delivery services, mail services and hospitals) was analyzed in terms of the location.

As a result, it was found out as follows:

First, it is easy only in and around cities to access any destination. It is difficult in the most areas to access either one of destinations. That is, approximately 45 million people live in areas where it is difficult to access either one of destinations.

Secondly, approximately 30% of people who lives in such areas, where transportation is not easily available, has difficulties in access to only one of the destinations and more than 60% lives in areas, where transportation is not easily available to more than one destinations.

Thirdly, there are many areas, where transportation is not easily available and population density is low. On the other hand, there are a small number of areas around cities, where transportation is not easily available and population density is high. All areas of departure are small enough to be within the radius of approximately 100m. The distance from such areas of departure to destinations is less than 2km (Fig1).

As stated above, in the areas where transportation is not easily available, small and slow electric transportation means are useful as the distance of transportation is short. Because there are many areas where transportation is not easily available, it seems to be difficult for autonomous bodies and public transportation businesses to provide transportation services independently. It may be required to consider transportation means owned by a small number of people who live in the same area.

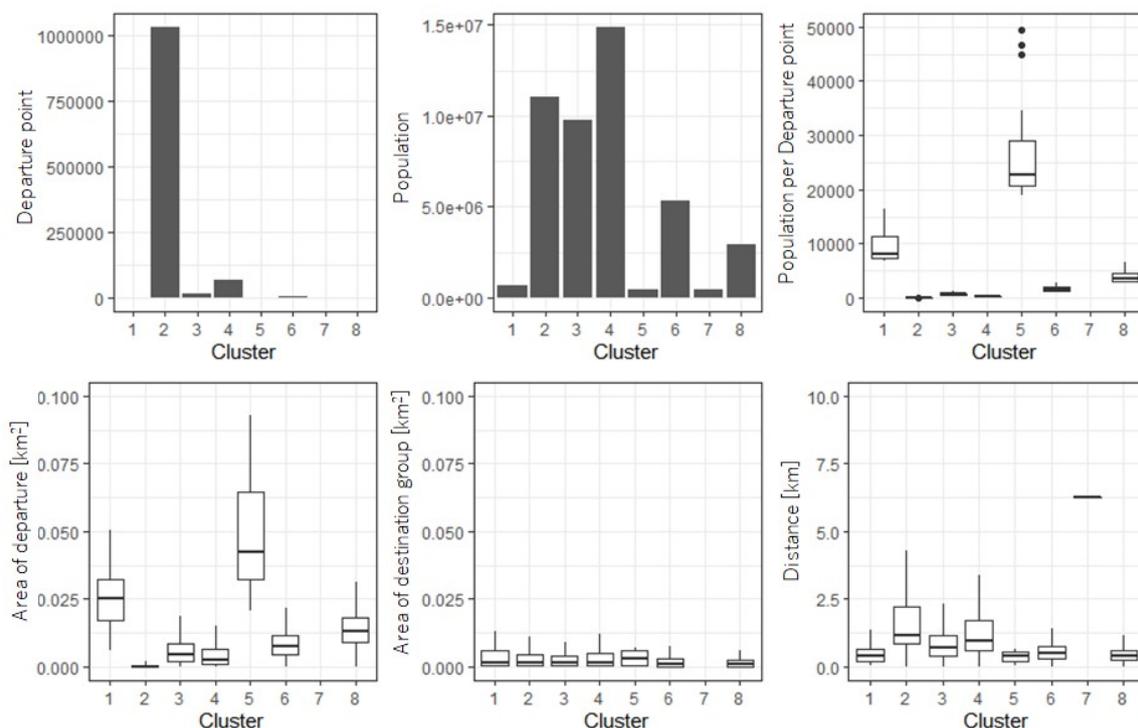


Fig.1 Comparison by cluster in difficult traffic areas