

TOPICS

Opening effect of Shin Tomei Expressway of road traffic seen from the data observed at all times

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1, Introduction

Since Shin Tomei Expressway, between Gotemba JCT and Mikkabi JCT opened in April 14, 2012, the double network of Shin Tomei Expressway and Tomei Expressway was formed. (fig.1)

We Road Department are working on the opening of the Shin Tomei Expressway effect analysis with the Chubu Regional Road Maintenance Bureau.

In this paper, we introduce some of the road traffic data and the results of the analysis using the full-time road traffic data observed with the probe data presented by the private companies.

2, Change in the amount of traffic on the main cross section in Shizuoka Prefecture

Since the Shin Tomei Expressway has opened, the traffic of Shin Tomei Expressway, Tomei Expressway and Route 1 (Shizuoka Prefecture central cross section) has increased 14%. Total traffic in Shizuoka prefecture has increased: 13% in west cross section, 7% in east cross section)

3. Speed and Punctuality of Time required in Shin Tomei Expressway and Tomei Expressway

After the opening of Shin Tomei Expressway, the travel speed of Tomei Expressway is improved. Also we find that the drivers on Shin Tomei Expressway drive faster than Tomei Expressway, which divers on Shin Tomei Expressway can drive at 100km / h in almost all the sections. (fig. 3 above)

Looking at the amount of time required between Gotemba JCT and Mikkabi JCT , before and after the opening Shin Tomei Expressway, we find the significant improvement in punctuality that the variation in the duration of Tomei Expressway has decreased by 34 minutes (101 minutes to 135 minutes) to 12 minutes (100 minutes to 112 minutes).

We have found that in Shin Tomei Expressway, the duration is 90 minutes to 102 minutes, which is shorter than before opening and the variation is about the same. (fig.3 below)

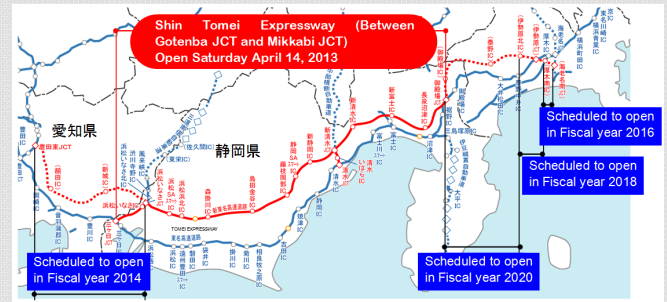


Fig.1 Schedule to open in the future and the opening section of Shin Tomei Expressway

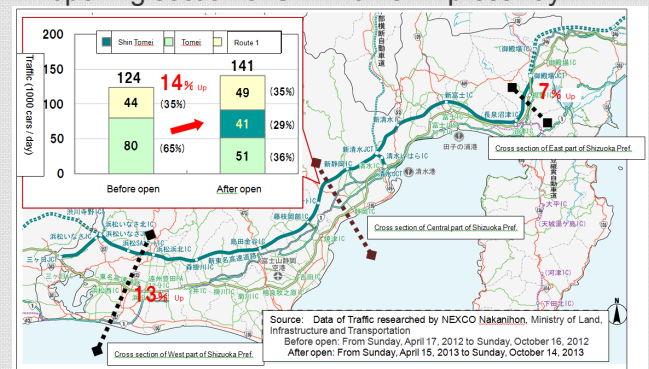


Fig.2 Change in the amount of traffic on the main cross section in Shizuoka Prefecture

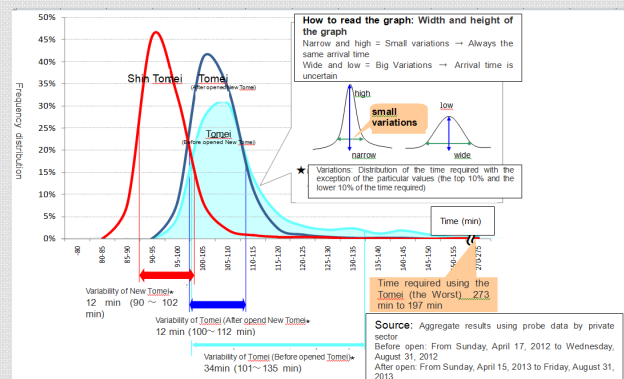
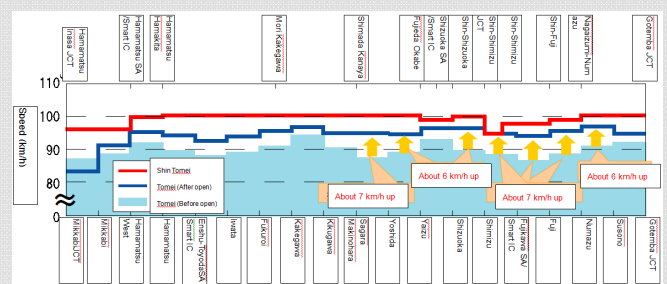


Fig.3 Distribution of travel speed and travel time between Gotemba JCT and Mikkabi JCT