

Telematics Data for Official Statistics: An Experience with Big Data

Nicholas Husek

Statistician, Australian Bureau of Statistics

Canberra - Australia

Abstract

Road freight touches all facets of the Australian economy and maintaining efficiency of this industry is vital for a growing Australia. Increasingly freight companies are producing telematics data to track vehicle movements for vehicle safety and efficiency, and this data provides valuable information which can be used to inform government policy on infrastructure planning and investment decisions. Telematics data faces many big data issues that non-traditional data sources face, especially around data quality and sample bias, and methods for correcting these issues are discussed. Statistics surrounding freight congestion can be created from telematics data which have previously not been possible using traditional freight data. In this paper we investigate how to turn telematics data into official statistics.