

Session Title: Behavior and Transportation Demand Change

Name: Hayashi Yoshitsugu

Position: President, The Association of The Club of Rome

Professor and Director, Center for Sustainable Development and Global Smart Cities, Chubu University, Japan

Abstract title:

Impacts of COVID-19 on Travel Behaviour, Its Energy Use and CO₂ Emission

Transport systems bring not only passengers to enhance socio-economic activities but also COVID-19 virus. The infection fears have made substantial changes in citizen's travel behaviours to shift from public transport systems to private cars to cars and also active transport such as bicycle and walk. The countries such as China and Korea, shifting to cars are remarkable while that to active transport is large in Europe.

The World Conference on Transport Research Society (WCTRS) conducted Expert Survey on direct effects and indirect ones caused in travel behavior by emergency measures. We report analysed results on the effects in order of Activity (trip length), Structure (modal share) and Intensity & Fuel Use (fuel economy, emission factor) and implications for the New Normal.