

LOW TRAFFIC NEIGHBOURHOODS IN LONDON: IMPACTS ON TRAFFIC NETWORKS EFFICIENCY AND RESILIENCE

ABSTRACT This paper will examine impacts of LTNs in London on both local and wider traffic networks. It will take as an example one particular LTB, involving one total vehicle road closure and four camera-controlled timed closures. About 5kms of mainly residential roads are directly included in the LTN area including the order of 1500 residences and a short high street. Diversion routes amount to about 6kms; these are a mixture of residential routes and a long high street. They all include bus routes.

Principles underlying LTN philosophies will be presented.

With regard to the example LTN, estimates will be presented on changed traffic routing, from the pre-LTN state. Estimates will also be presented on traffic network and flow impact, resulting from historical occasions of road closures and restrictions on the diversion routes. Consequential impacts on an affected bus route on a diversion route will be referred to. There will be brief references to other London LTNs with substantial traffic impact.

The paper will conclude with a discussion regarding factors that should be considered in planning future LTNs in order to minimise negative network impacts and maximise network resilience.