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## User inequity implications of road network vulne

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## **Abstract**

An important purpose of the road transport system is to allow people to commute in eff reliable ways. For various undesired reasons, however, link capacities are sometimes r are closed completely. To assess and reduce the risk of such events, a key issue is to i links that are particularly important, i.e. roads where disruptions would have particularly consequences. This paper presents a method for incorporating user equity consideration link importance measure. As a complement to measuring the total increase in vehicle tr also measure the disparity in the distribution among individual users. These two compo combined to form an equity-weighted importance measure. We study the properties of both analytically and in a full-scale case study of the Swedish road network. A main res increasing the weight put on the equity aspect transfers importance from the main road local roads. The use of the measure in transport policy and planning is discussed.

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