



Social change and sustainable transport¹

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There are important social changes that are influencing the way transport is now viewed. In particular, there are concerns that current trends in transport are not sustainable over the long term. This paper describes some of the main forces for social change and the way that they interact with transportation. It highlights a number of key areas where conceptual research work could prove advantageous and considers institutional mechanisms that would foster, in particular, transatlantic initiatives in these fields. © 1997 Elsevier Science Ltd. All rights reserved.

Keywords: sustainable transport; social change; strategic research; transport policy

Social change does not occur at a constant pace. Rather there is a complex blend or package of modifications to existing trends, new trends and mood breaks that interact to bring about changes to the way society develops. The process is also not unidirectional but embodies a range of important and still imperfectly understood feedback loops. A variety of factors make the late twentieth century a particularly important period in this respect. Rising incomes, more leisure time, changing demographic patterns, better education, technological advances, emerging life styles and new political priorities are among the factors influencing and being influenced by social change. These forces have, in very broad terms, led to outcomes of enhanced flexibility, fragmentation, polarization and differentiation in time and space.

Our understanding of the key driving forces for the new social structures is still limited. What is clear is that one important element in the process is linked to conflicting pressures of centralization. Combinations of new networks, externalities and the breaking down of barriers have led to pressures on the one hand for geographical and social concentration and uniformity but on the other for diversity and spread. At one level this may be viewed in terms of the continued urbaniza-

tion of many societies but at the same time the growth in 'newscities' and only in terms of location and job selection but also regarding shopping, recreational and other everyday activities. Transport considerations play an important role in shaping the nature and direction of centrifugal forces.

The forces bringing social change and the changes that emerge have linkages with all aspects of the social fabric. In a more specific context, transport is both an influence on the nature of social change and a reactor to it. We are, however, poorly informed about the role of social change in determining transport behaviour. Many of the important areas of interest, such as the interaction between changing household structure, travel behaviour and land-use, have been examined before but significant areas of ignorance remain. There are also newer issues, such as the interaction of transport and various communications systems on travel behaviour, land-use and social structure, which are adding to this area of ignorance.

Modern transport affords mobility, facilitates post-Fordist production and allows political cohesion. Degrees of access to transport networks affect social patterns at all levels of spatial aggregation. Transport supply, however, is regulated by political interests and market pressures both of which reflect changes in social attitudes, structures and priorities. Concerns about environmental degradation and economic efficiency are reflections of social changes in social

¹ Although this paper was not presented at Smethway, the authors were present and this paper represents their summary of the program being developed by NSF and EPA at the conclusion of that meeting.

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