Project title
Looking Over the Horizon: Transport and Global Warming – Visioning and Backcasting for Transport in London

Lead organisation
Halcrow

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Project value
£165,688 grant, plus £206,932 contribution in kind

Start/end dates
1/5/07 to 31/10/08

Project partners
Oxford U; Space Syntax; Transport for London; The Greater London Authority

UrbanBuzz project monitor
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Project summary
The project envisions a sustainable transport future for 2050 and 2025. Using ‘back-casting’ techniques applied to current carbon efficiencies it aims to recommend steps required to implement a future carbon efficient transport system. This will be in accordance with the targets given in the Mayor of London’s Transport Strategy 2025, which include effecting a 60% reduction in transport emissions by 2025 and 80% by 2050. Key study stages include:

Stage 1: baseline and context
Stage 2: alternative images of the future
Stage 3: policy packaging
Stage 4: appraisal
Stage 5: conclusions and recommendations

Dr Robin Hickman, Halcrow’s project manager, explains: “The issues relating to climate change have risen rapidly to the top of the national and regional political agenda and the importance of the transport sector in contributing to reduced levels of carbon dioxide (CO2) is clearly evident."

The project develops a simulation model of transport and carbon emissions in London (TC-SIM). TC-SIM is the first simulation model available in this field and is an enormously useful tool in helping decision-making and strategy selection in a very challenging area. The simulation model is applicable at a variety of scales – for different cities, towns, regions and even at the country-wide level.