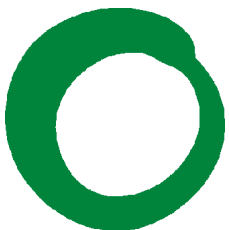


A large, thick green circular graphic that is partially cut off on the right side, framing the title and subtitle text.

Environmental Justice

Mapping transport and social
exclusion in Bradford



**Friends of
the Earth**

Environmental Justice

Mapping transport and social
exclusion in Bradford

Written and researched by:

Frank Pennycook, Rosalind
Barrington-Craggs, David Smith
and Simon Bullock

Thanks to:

Anthony Rae, Helen Barron,
Tony Bosworth, Sarah Denney,
Beverly Nuttall, Brian Anderson
and Tim Harvey

© Friends of the Earth September 2001

Environmental Justice

Mapping transport and social exclusion in Bradford

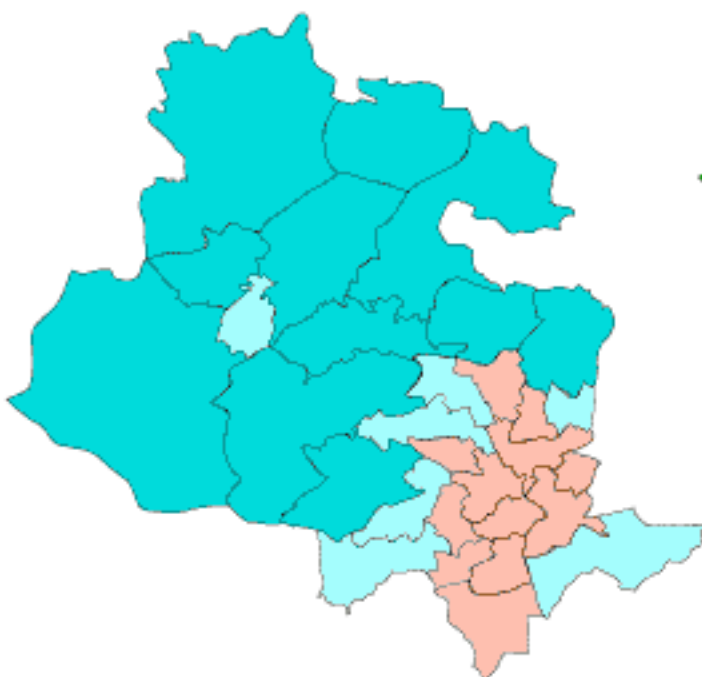
Friends of the Earth believes transport problems exacerbate social exclusion. Everyone should be able to get to where they need to - safely, comfortably and affordably. A transport system should deliver this, without damaging people's health, yet the UK's system fails.

The alternative to owning a car are not acceptable. Public transport is often expensive, inconvenient, inadequate or unpleasant. Cycling and walking can be dangerous, due to increased traffic volumes. And increased distances to services exacerbate these problems.

There are also major health impacts from transport. Government figures show that air pollution kills thousands of people prematurely each year. Thousand more are killed or maimed in road crashes.

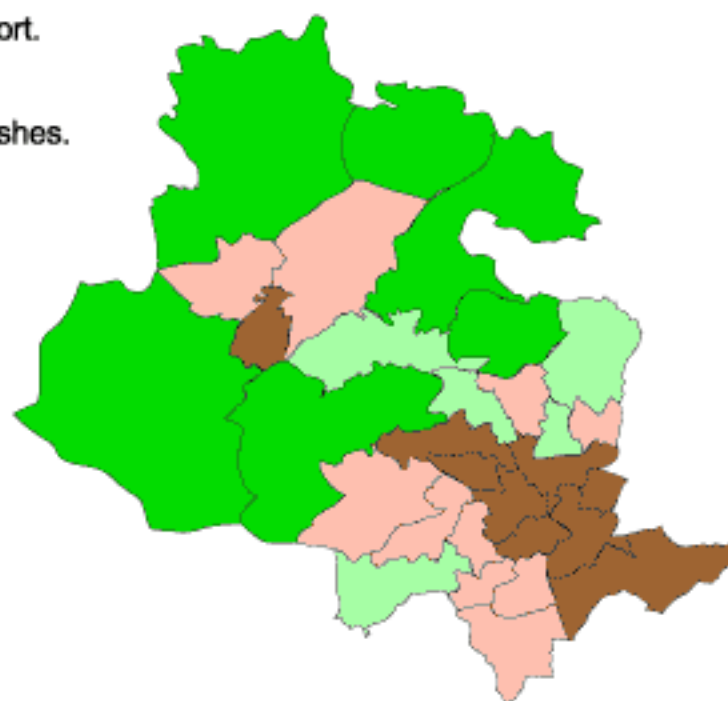
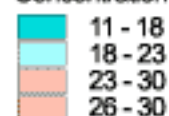
Millions are affected by noise and congestion. And heavy traffic makes neighbourhoods dangerous and unpleasant places to live. These problems all affect socially excluded communities more than others.

Friends of the Earth has mapped some of these issues for a sample area - the district of Bradford. The full report can be found on our website at www.foe.co.uk/campaigns/transport.

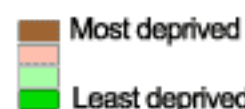


Nitrogen dioxide
estimated for 2005

Concentration in $\mu\text{g}/\text{m}^3$



Index of Multiple
Deprivation 2000



**Negative traffic impacts are
concentrated in more deprived areas**

Mapping transport issues can highlight areas with multiple problems



Level of car ownership

- Less than 50% of national average
- Between 50% and 100% of national average
- More than 100% of national average

- At least five buses per hour
- Between two and four buses per hour
- No more than one bus per hour



Tens of millions of people in the UK don't have access to a car. For these people, it is particularly important that good public transport exists.

The small map (above) shows the levels of car ownership in the Bradford urban area.

The large map (above right) shows only those areas of urban Bradford which are more than 200 metres from a bus route. Many of these also have very low levels of car ownership.

On this map, the bus routes are shown in red and blue, and everywhere within 200 metres of a bus route has been blanked out in white. Areas further than 200 metres from a bus route are shaded according to the level of car ownership. This allows concentrations of people without easy access to either form of transport to be identified.

Recommendations

1. The Social Exclusion Unit must assess transport impacts as well as access issues in this Autumn's review of transport and social exclusion.
2. Local authorities should map transport impacts and access issues, to identify where the greatest problems are.
3. The Government should revise Local Transport Plan guidance so that local authorities are

required to focus their transport strategies and expenditure on tackling social exclusion problems.

4. The Government should re-assess the overall expenditure priorities of its 10 year transport plan so that it prioritises social exclusion objectives - a decent transport system for everyone.

5. The Government's 2002 Comprehensive Spending Review needs to redirect transport funding to address these major transport-social exclusion problems, and reduce health inequalities.

Friends of the Earth inspires solutions to environmental problems which make life better for people

Friends of the Earth is:

- the UK's most influential national environmental campaigning organisation**
- the most extensive environmental network in the world, with almost one million supporters across five continents and 68 national organisations worldwide**
- a unique network of campaigning local groups, working in over 200 communities throughout England, Wales and Northern Ireland**
- dependent on individuals for over 90 per cent of its income.**

Friends of the Earth Ltd
26-28 Underwood Street
London N1 7JQ
Tel: 020 7490 1555
Fax: 020 7490 0881
Email: info@foe.co.uk
Website at www.foe.co.uk

Friends of the Earth Trust company no. 1533942. Registered charity no. 281681.
Friends of the Earth Limited company no. 1012357.

 Printed on paper made from 100 per cent post-consumer waste.