Achieving carbon efficient transport

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Halcrow Group

Space Syntax
VISIONING AND BACKCASTING FOR TRANSPORT IN LONDON

Objective: mapping the pathways towards a 60% reduction in CO2 emissions in the transport sector in London by 2025 and 80% by 2050

- A range of policy packages
- Level of application
- Target achieved/ achievable?
The Backcasting Approach

- Baseline and projection
- Alternative image(s) of the future
- Backcasting
- Appraisal, costing, optimum pathways
Achieving Carbon Efficient Transport

Carbon inefficient travel

Fewer trips
Reduced trip length
Mode shift
Increased vehicle efficiency

Carbon efficient travel
The VIBAT Policy Packages

Enabling Mechanisms?
Carbon rations
Oil price sensitivities
Conclusions: Towards Optimised Packaging

- Much debate – but little action – transport sector needs to URGENTLY ACCELERATE its efforts
- Some cities, such as London, providing a lead
- [80%] target is very ambitious: major change required; the scale of which is being underestimated
- Wide range of policy packages available – all require a successful application
- Behavioural and lifestyle changes difficult to engender
- Further work:
  - Different contexts (India, North America ..)
  - Educational tool – BA, BSc and MA
  - CO2 quantification, synergies
  - Policy packaging and pathways
  - International air & shipping
  - Political and public acceptance
- Appraisal - not just CO2; wider quality of life aspects
Looking over the horizon: Transport and reduced CO2 emissions in the UK by 2030.
> see more

Vibat London Stage 1 report to be published soon.

What does the future hold for travel and city life? Our travel behaviour and lifestyles are likely to change beyond all recognition up to 2030 or 2050.

Achieving a carbon efficient transport system, whilst still improving wider sustainability and quality of life objectives, is likely to be no easy task. The Vibat projects seek to explore these difficult issues.

Vibat India & Delhi
Asian Development Bank
2008
> read more

Vibat London
UrbanBuzz Research Programme
2007 - 2008
> read more

TC-SIM
UrbanBuzz Research Programme
2007 - 2008
> read more

Vibat UK
UK Department Transport
2004 - 2006
> read more
Dr Robert Biel
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- Use of community gardens
- Practical surveys of cultivable space
- Actual cultivation
- Practical permaculture training
- YouTube UCLurbanbuzz
DEI-DEMONSTRATION

Prof. Stephen Gage
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- Reducing heat loss in buildings
- Zero carbon mechanisms and sensors for automatically opening and closing shutters

http://www.pachube.com/feeds/1044
John Kelsey
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- Knowledge sharing events between regeneration teams of local authorities
- Social sustainability usually weak
- One size does not fit all for stakeholder engagement; context is everything
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THANK YOU
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www.urbanbuzz.org
Reserve slides if web not available
Techno-Optimist “REALISTIC”
Complacent Car Addict
Concerned Realist
The International Air Problem