

Asia on the Move: Energy Efficient and Inclusive Transport

UK Backcasting and Policy Packages

Asia Transport Forum
September 2008

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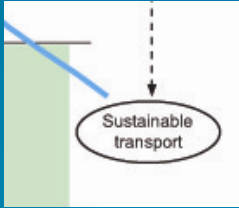
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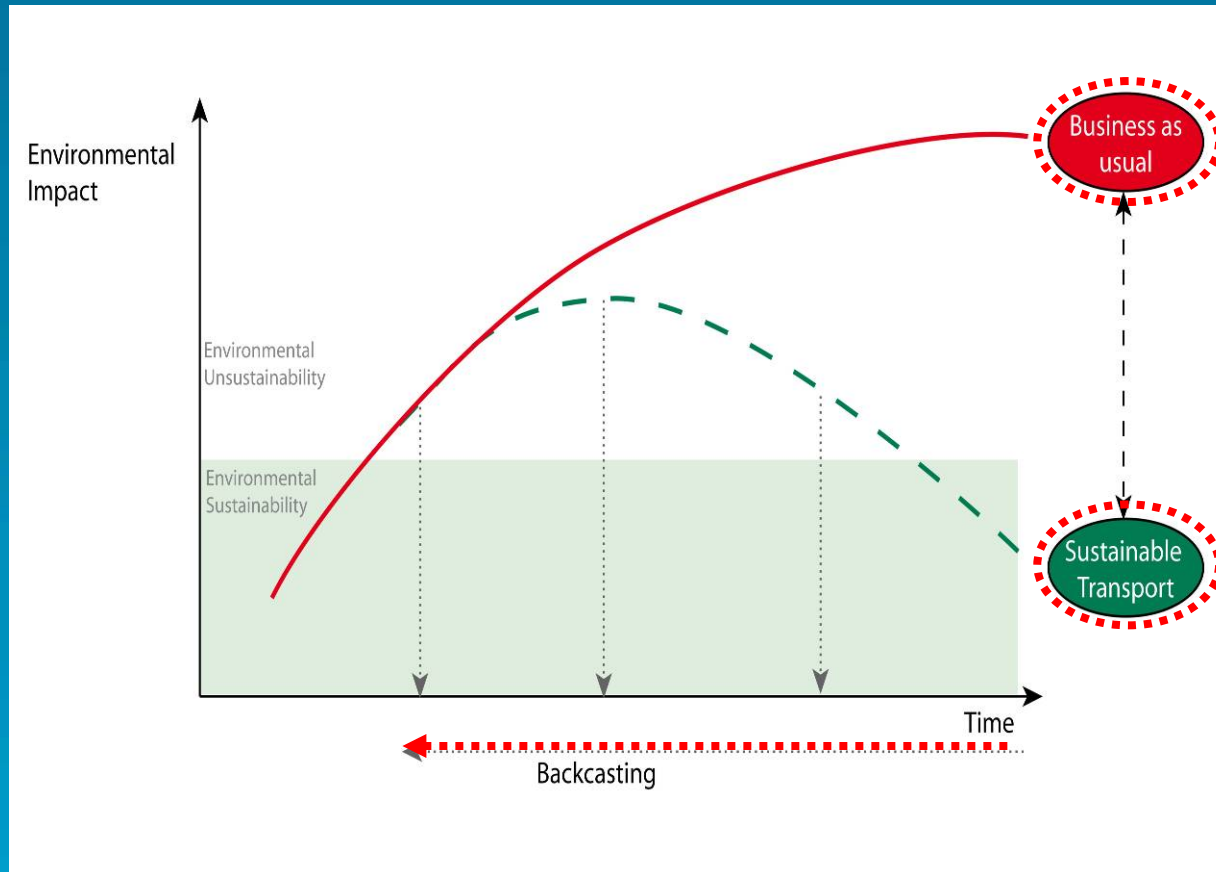
1. A backcasting approach
2. The transport CO2 baseline
3. Available policy packages
4. Alternative scenarios
5. Transport & carbon simulator (TC-SIM)
6. VIBAT-Delhi

Previous and current studies www.vibat.org
 VIBAT-London (UrbanBuzz, 2007-08)
 VIBAT-India and Delhi (ADB, 2008),
 VIBAT-Victoria (Transport Canada, 2008)
 VIBAT-UK (DfT, 2005-06)

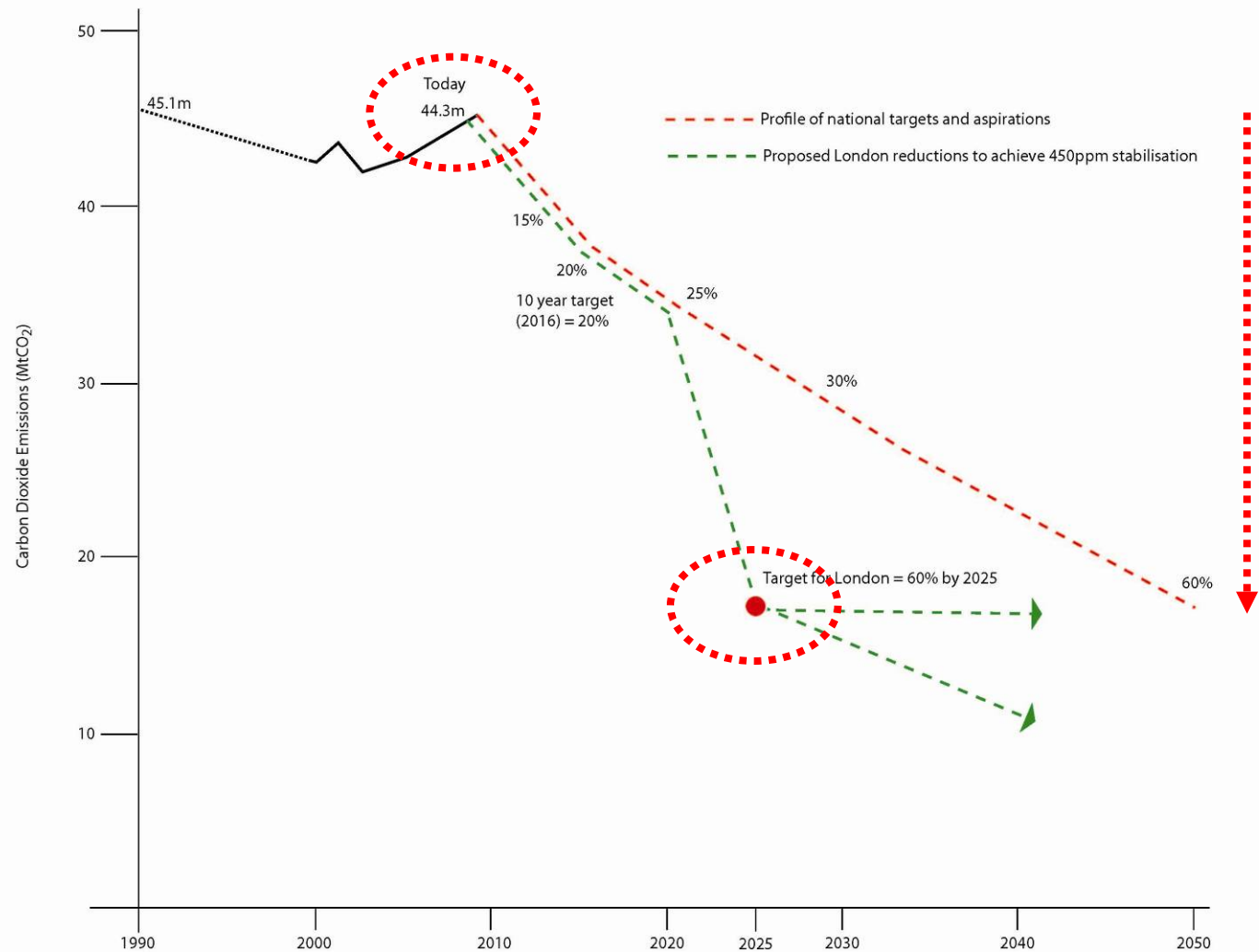
Carbon emission reduction targets:

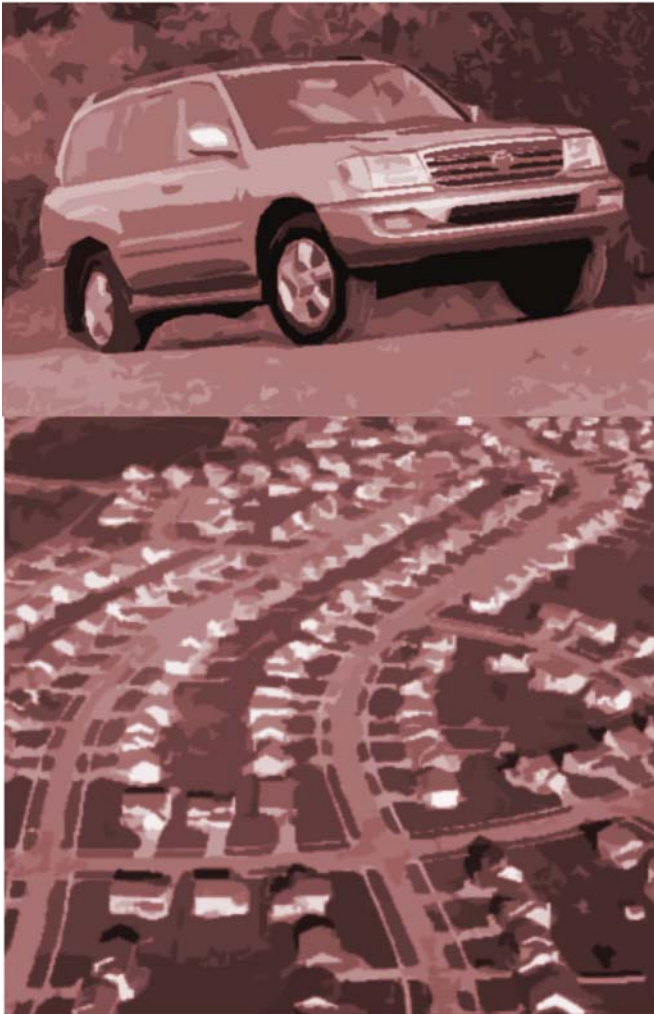


- **UK Kyoto commitment: a 12.5% reduction in six greenhouse gases below 1990 levels over the period 2008-2012**
- **A “path towards” a 60% reduction in CO2 emissions by 2050 has been adopted by the UK Government (DTI Energy White Paper, 2003) – based on Royal Commission on Environmental Pollution (RCEP, 1994). Now adopted as UK Government target**
- **London – 60% reduction by 2025 (CCAP, 2006)**
- **India - ratified the Kyoto protocol [along with Brazil, China etc.] but have no obligation beyond monitoring and reporting emissions**



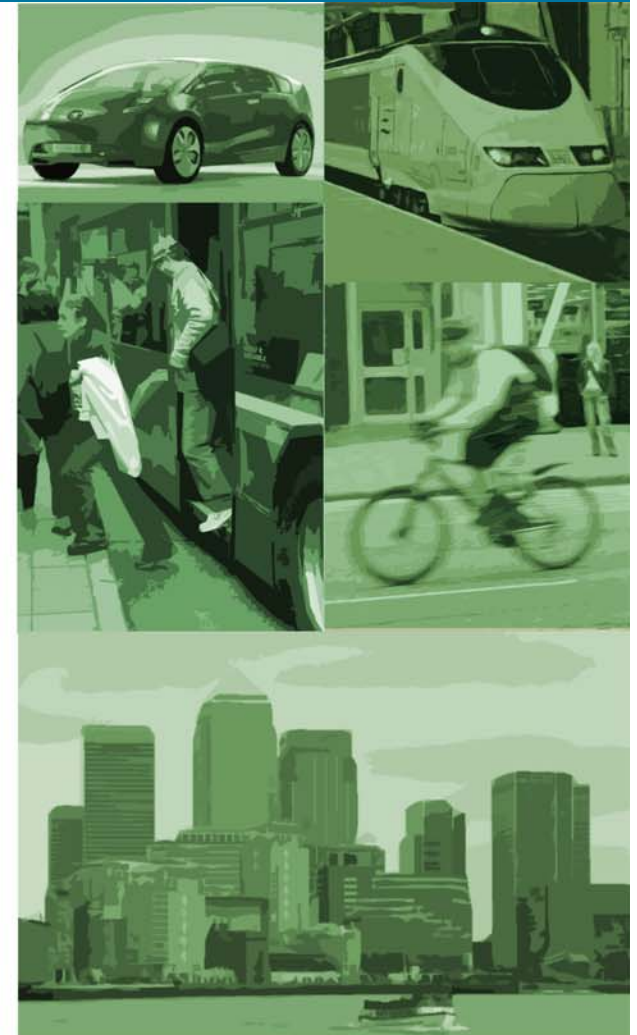
- **Baseline and projection**
- **Alternative image(s) of the future**
- **Policy measures and packages available**
- **Appraisal, costing, optimum pathways**





Carbon inefficient travel

Fewer trips
Reduced trip length
Mode shift
Increased vehicle efficiency



Carbon efficient travel



PP1 Low Emission Vehicles



PP2 Alternative Fuels



PP3 Pricing Regimes



PP4 Public Transport



PP5 Walking and Cycling



PP6 Urban Planning



PP7 Information and Communications Technology



PP8 Smarter Choice Soft Measures



PP9 Slower Speeds and Ecological Driving



PP10 Long Distance Travel



PP11 Freight Transport

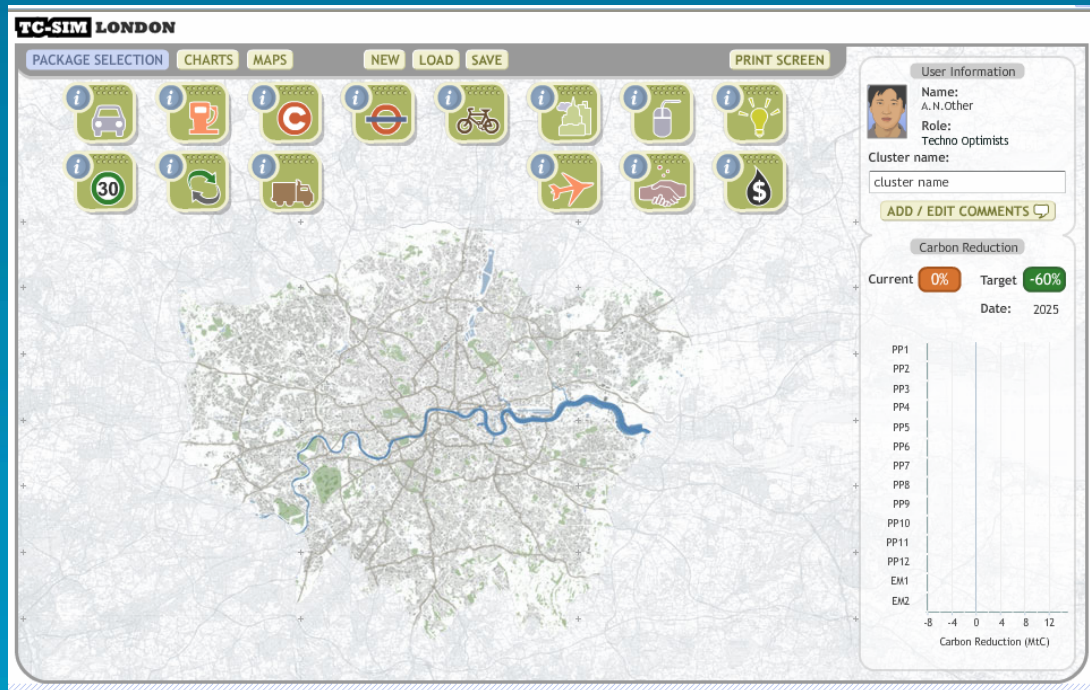


PP12 International Air



Enabling Mechanisms?

Carbon rations
Oil price sensitivities

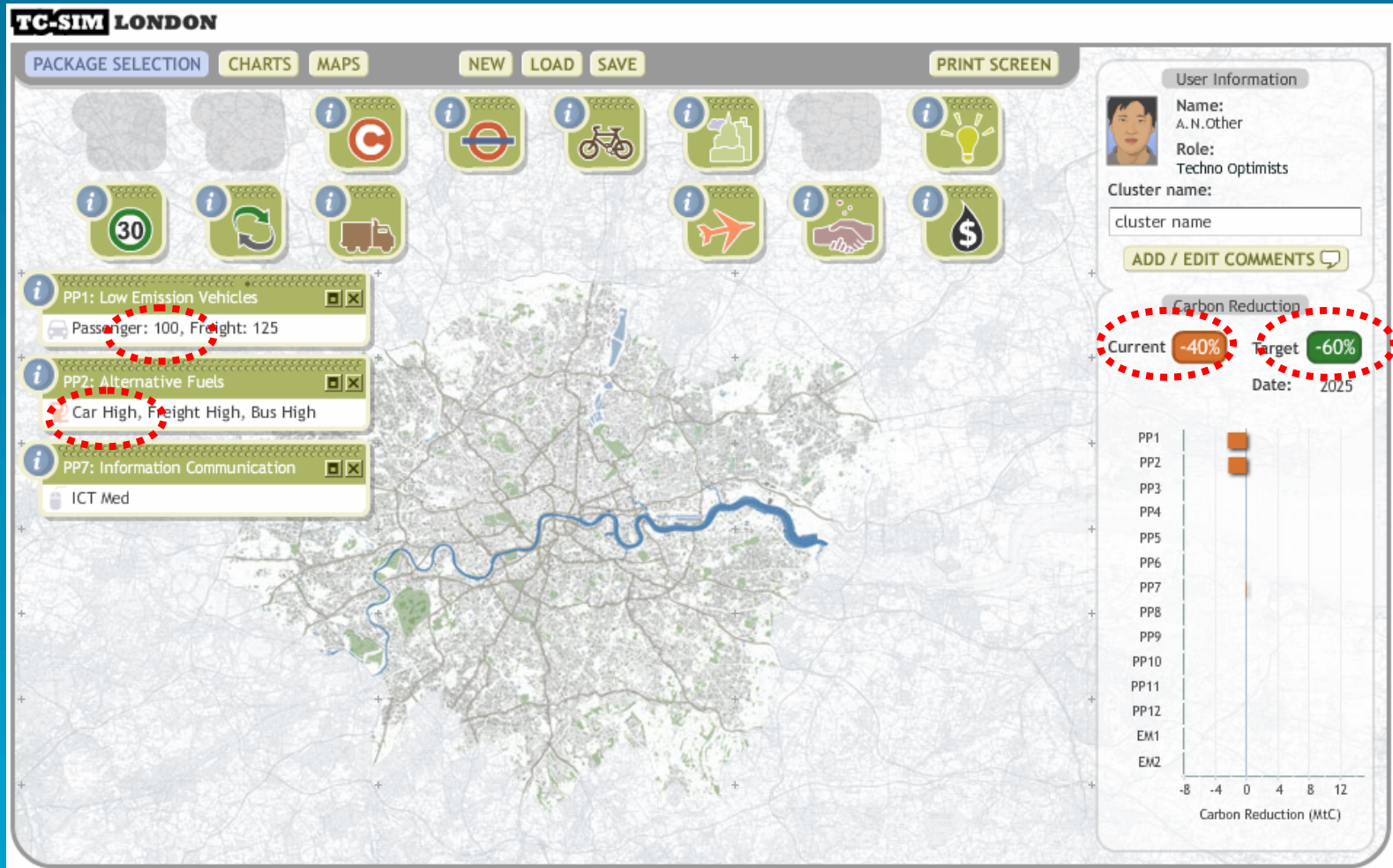


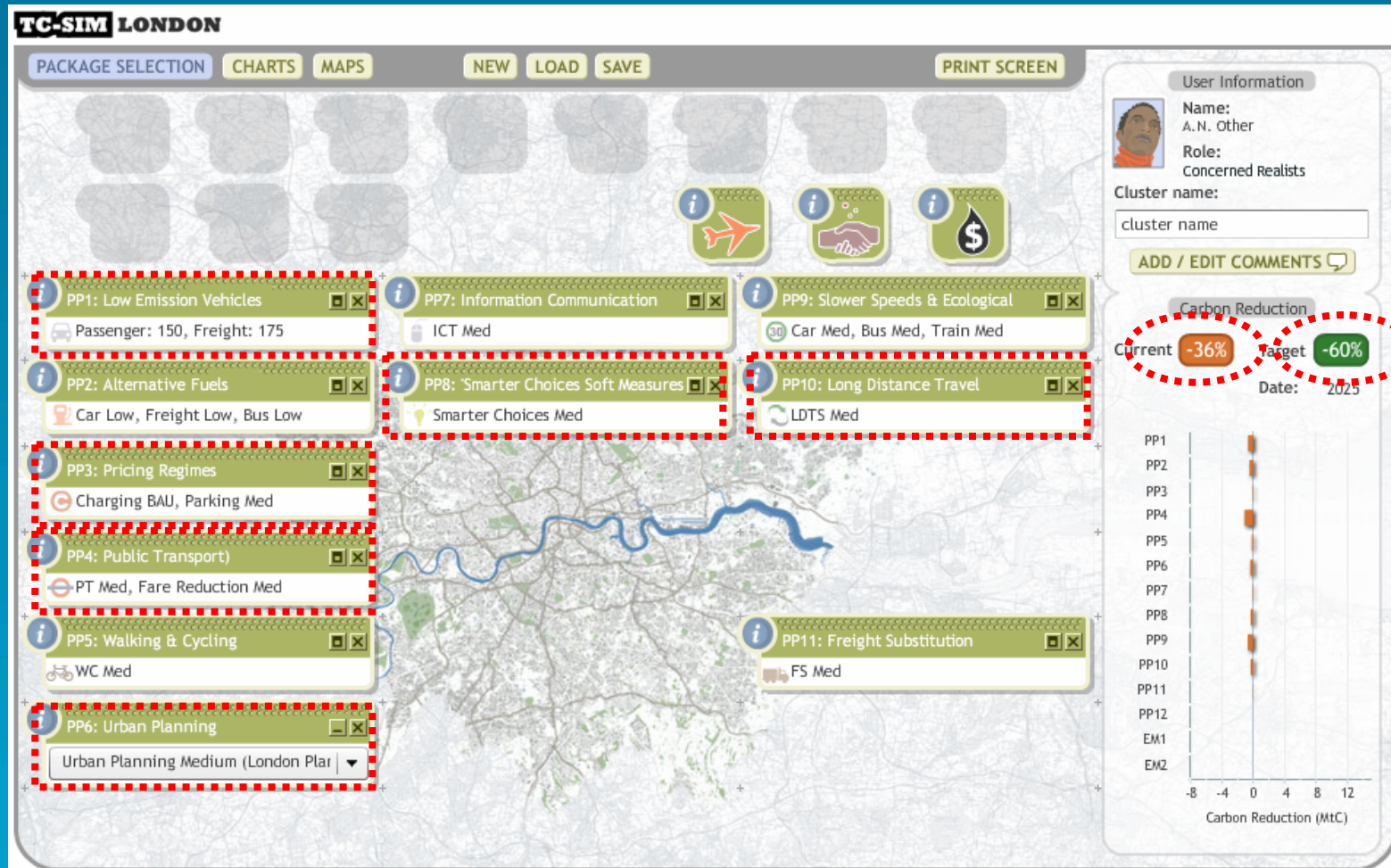
Local Version

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Web Version

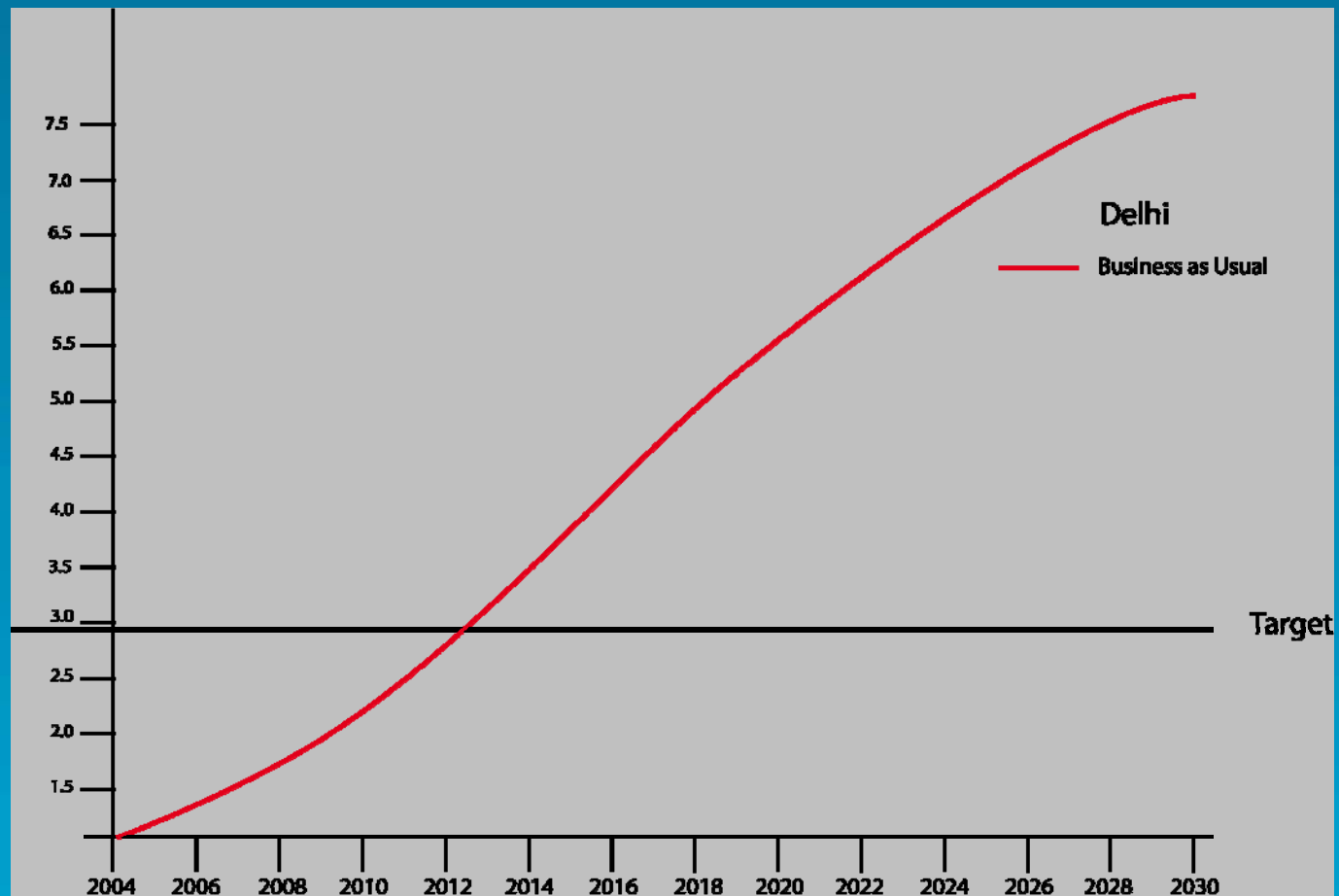
http://www.vibat.org/vibat_ldn/tcsim/tcsim.html

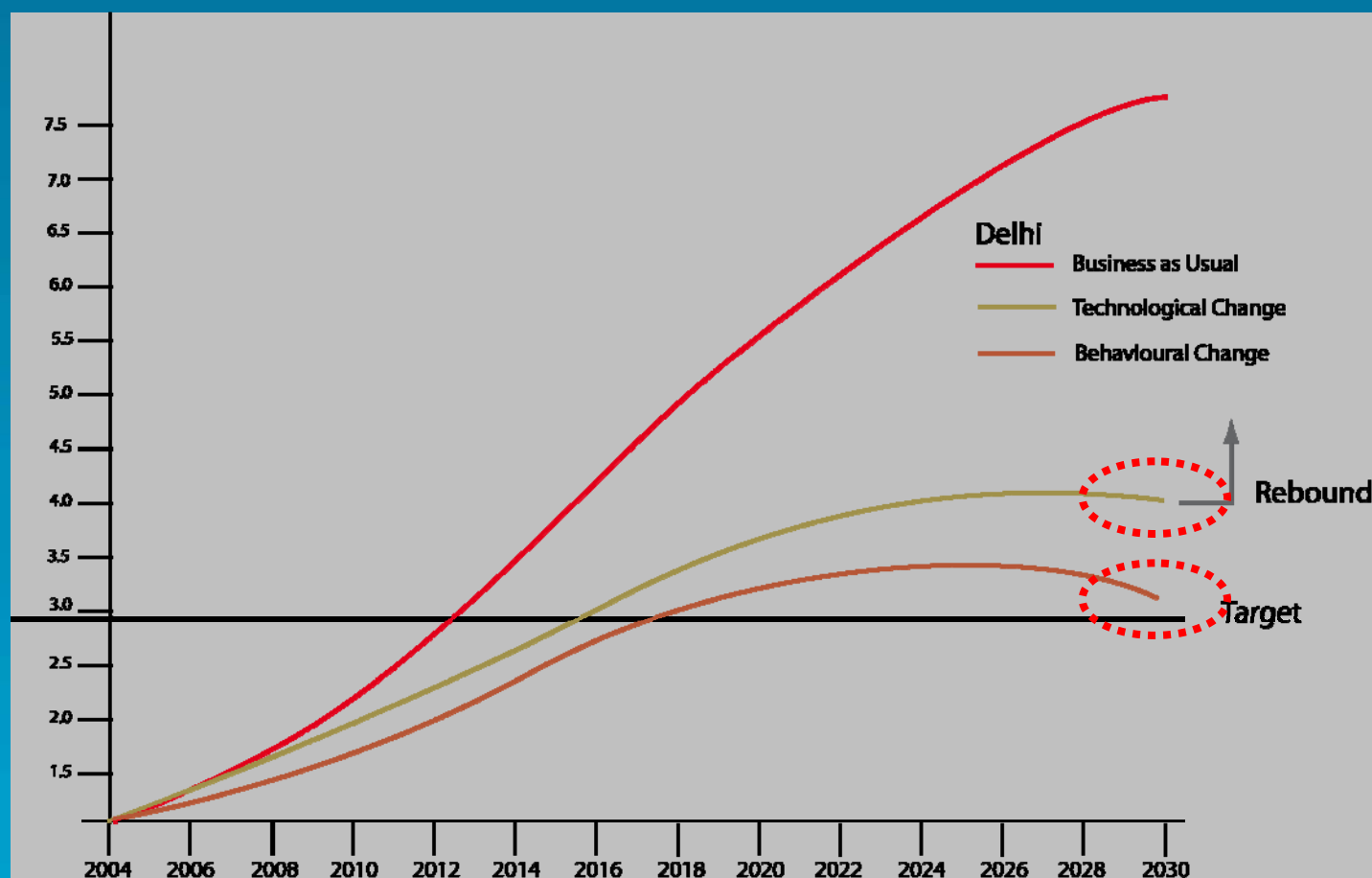




VIBAT-Delhi









- Much debate - transport sector needs to **URGENTLY ACCELERATE** its efforts (in effective implementation)
- Energy/CO2 reduction objectives and targets are very ambitious: major change required
- Wide range of policy packages available – need to act successfully across the range
- Individual schemes/policy measures need to be developed as part of integrated packages
- Technological and behavioural measures important
- Appraisal: not just CO2; wider impacts (sustainability and quality of life)

Achieving the trend-break will be very difficult.

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Hickman, R. and Banister, D.
(2007)
Looking over the horizon: Transport and reduced CO2 emissions in the UK by 2030.
Transport Policy, 14 (5), pp. 377-387.

→ [see more](#)

Hickman, R. and Banister, D.
(2008)
Vibat London Stage 1 report to be published soon.

Halcrow



Space Syntax

UrbanBuzz
Building sustainable communities

ZUPA



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.

projects



Vibat India & Delhi
Asian Development Bank
2008

→ [read more](#)



Vibat London
UrbanBuzz Research
Programme
2007 - 2008

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TC-SIM
UrbanBuzz Research
Programme
2007 - 2008

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Vibat UK
UK Department
Transport
2004 - 2006

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