

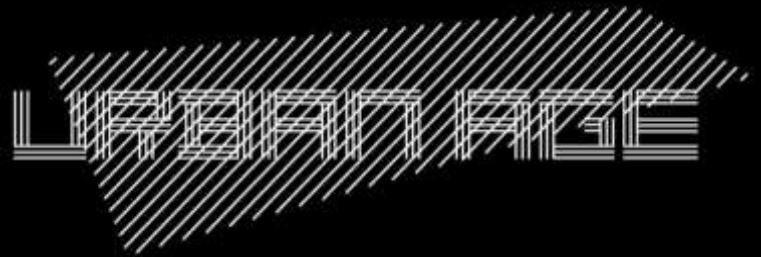
URBAN AGE ELECTRIC CITY CONFERENCE

DECEMBER 2012

Ricky Burdett

LSE Cities

The electric city





THE SHARD
THE GHERKIN
THE LONDON EYE

1100

CONFERENCE PROGRAMME

Thursday 6 December

- 09:00 - 09:35 Welcome
- 09:35 - 10:20 The dynamo of cities: density, technology and ideas?
- 10:20 - 10:45 Coffee break
- 10:45 - 12:15 A new climate for the urban economy?
- 12:15 - 12:45 Innovating urban futures
- 12:45 - 13:45 Lunch
- 13:45 - 15:30 Continuity or disruption: the impact of new urban tech
- 15:30 - 16:00 Coffee break
- 16:00 - 17:45 Infrastructures for social progress: a global outlook

Friday 7 December

- 09:15 - 10:45 Culture and innovation in the electric city
- 10:45 - 11:15 Coffee break
- 11:15 - 12:30 Designing place for the digital age
- 12:30 - 13:00 Implications for the public realm
- 13:00 - 14:00 Lunch
- 14:00 - 15:15 An urban response to climate change
- 15:15 - 15:45 Coffee break
- 15:45 - 16:15 Governing urban transformation
- 16:15 - 17:30 Cities panel: the legacy of urban leadership
- 17:30 - 17:45 Closing remarks









Mobile
Internet



RFID
tagging



Data
storage



CCTV



Smart card



E-mobility



Smart
meter



Smart
house



Smart grids



E-governance



Tele-
working



Tele-care







Waterloo Bridge

Waterloo →



**TECHNOLOGY IS THE ANSWER.
BUT WHAT IS THE QUESTION?**

Cedric Price, c 1960

URBAN AGE CITIES





75%

of the world's CO₂ emissions are produced by cities



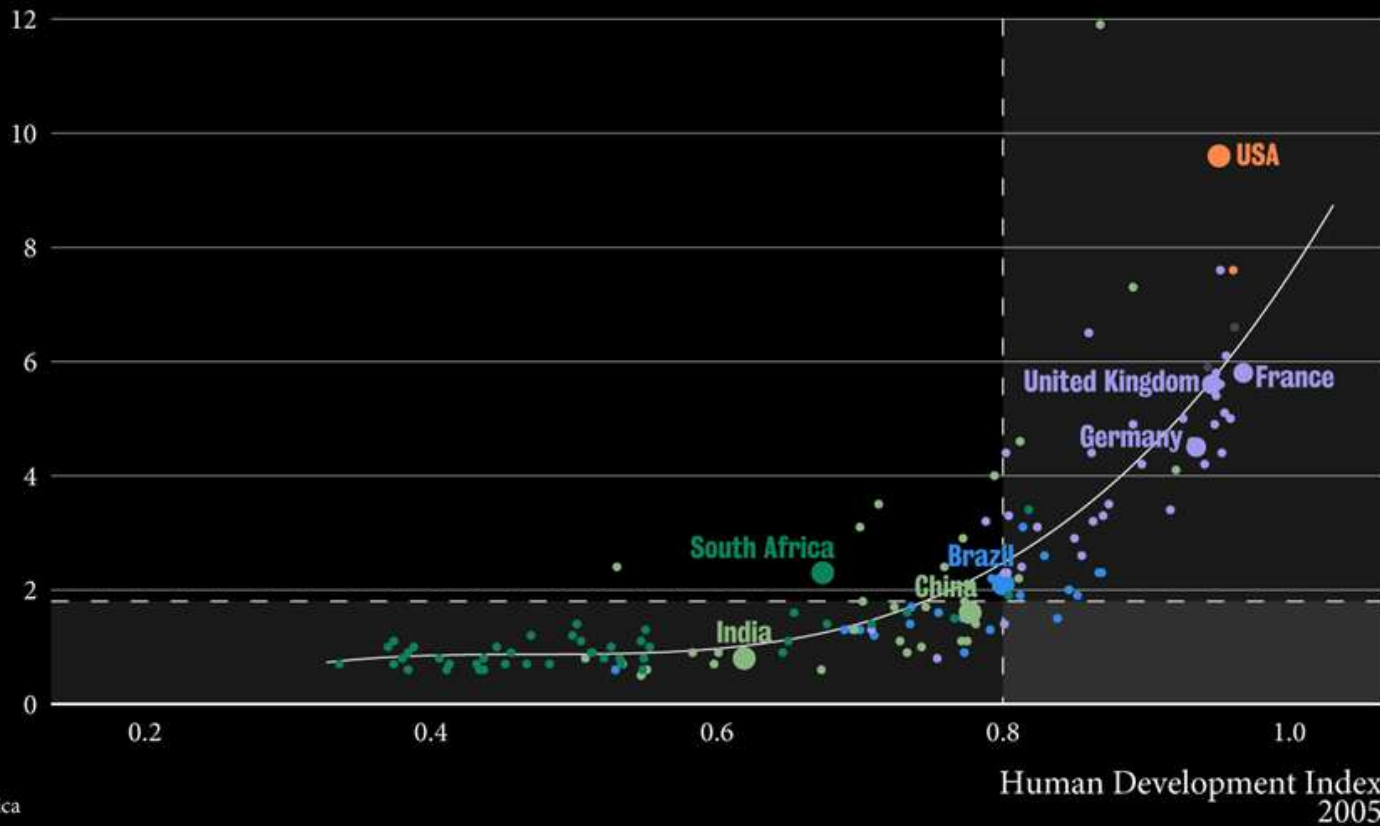
33%

of city dwellers live in slums



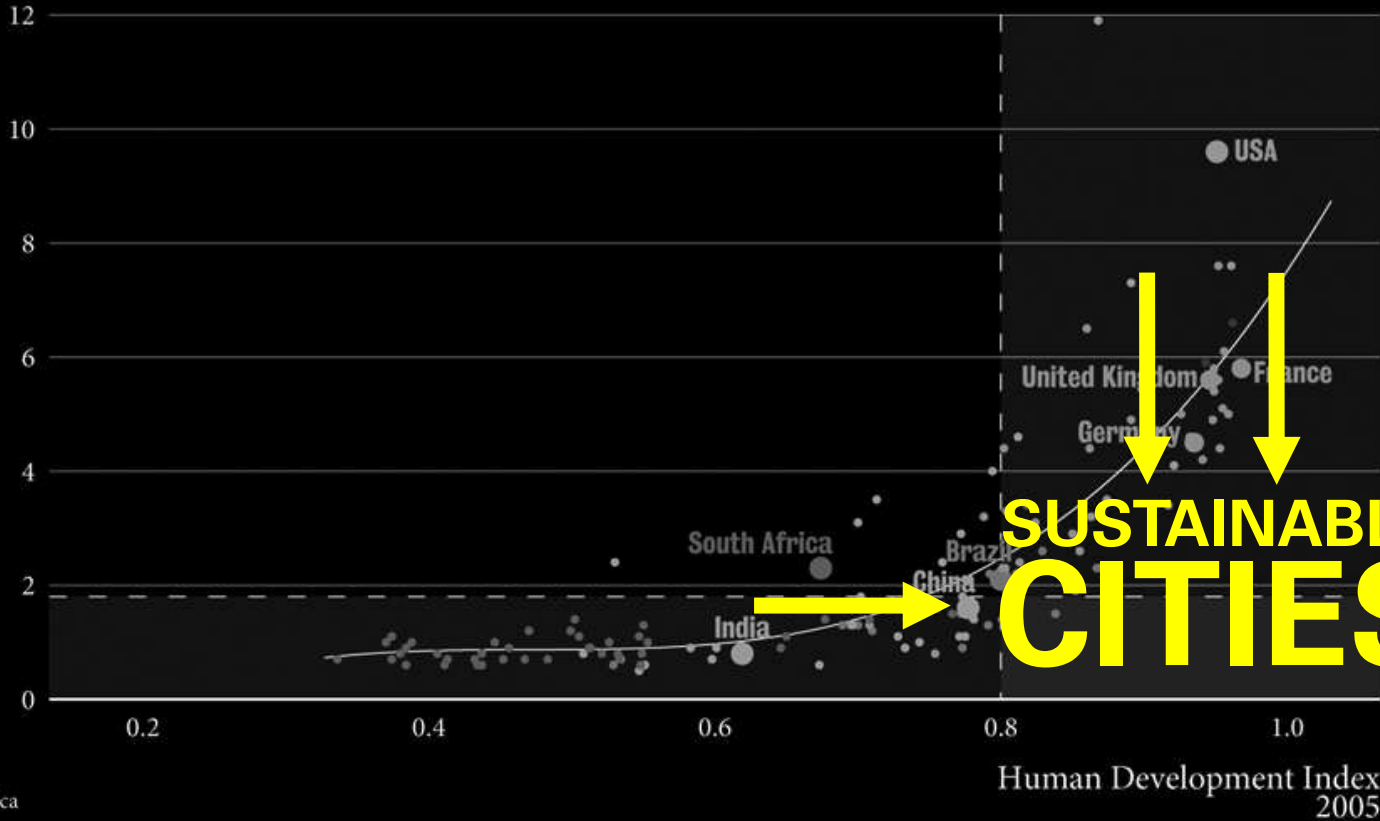


National Ecological Footprint
(global ha/person) 2003



- Africa
- Asia
- Europe
- North America
- Oceania
- Latin America

National Ecological Footprint
(global ha/person) 2003

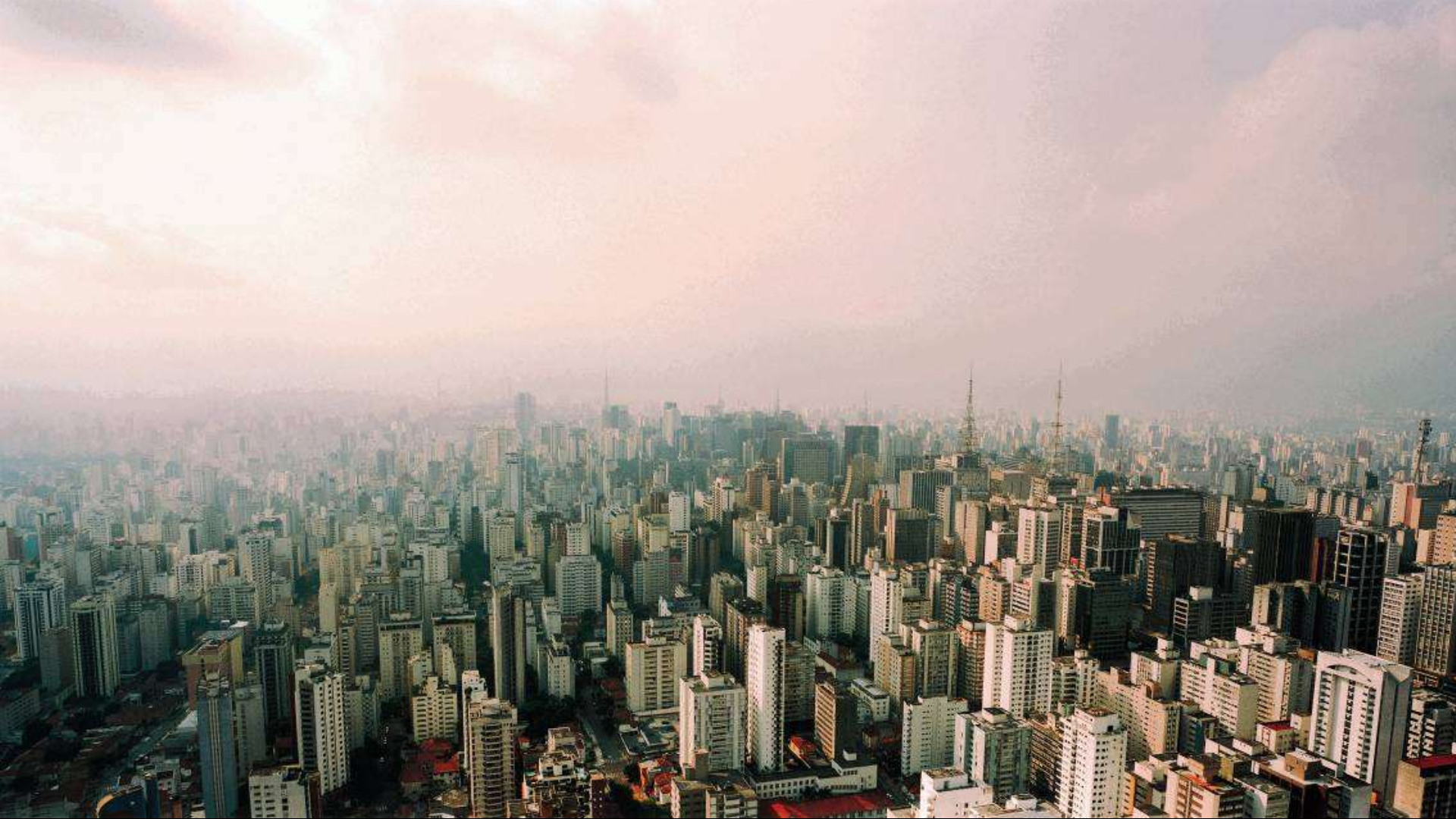


**SUSTAINABLE
CITIES**

- Africa
- Asia
- Europe
- North America
- Oceania
- Latin America















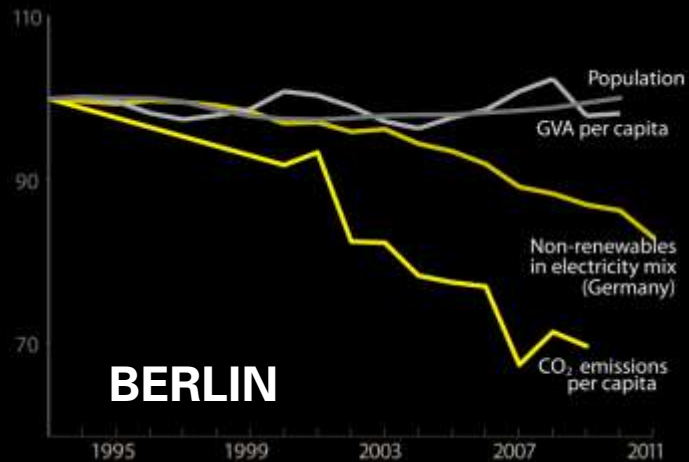
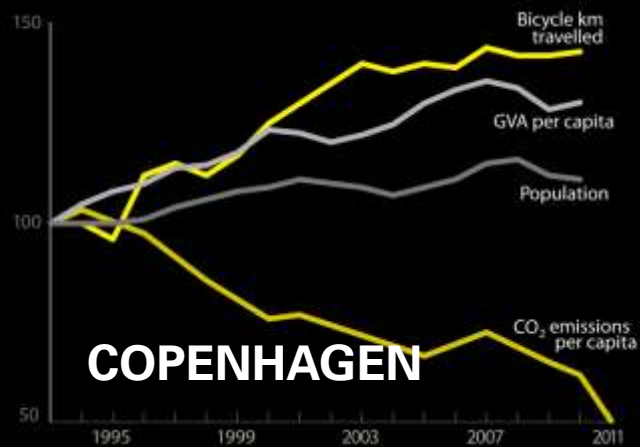
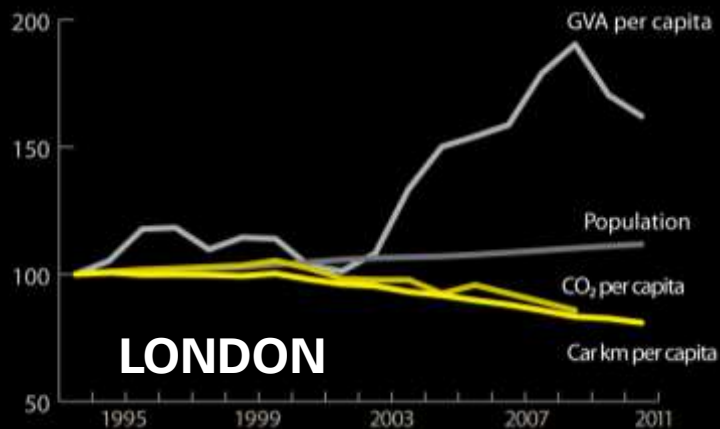




PIONEERING CITIES

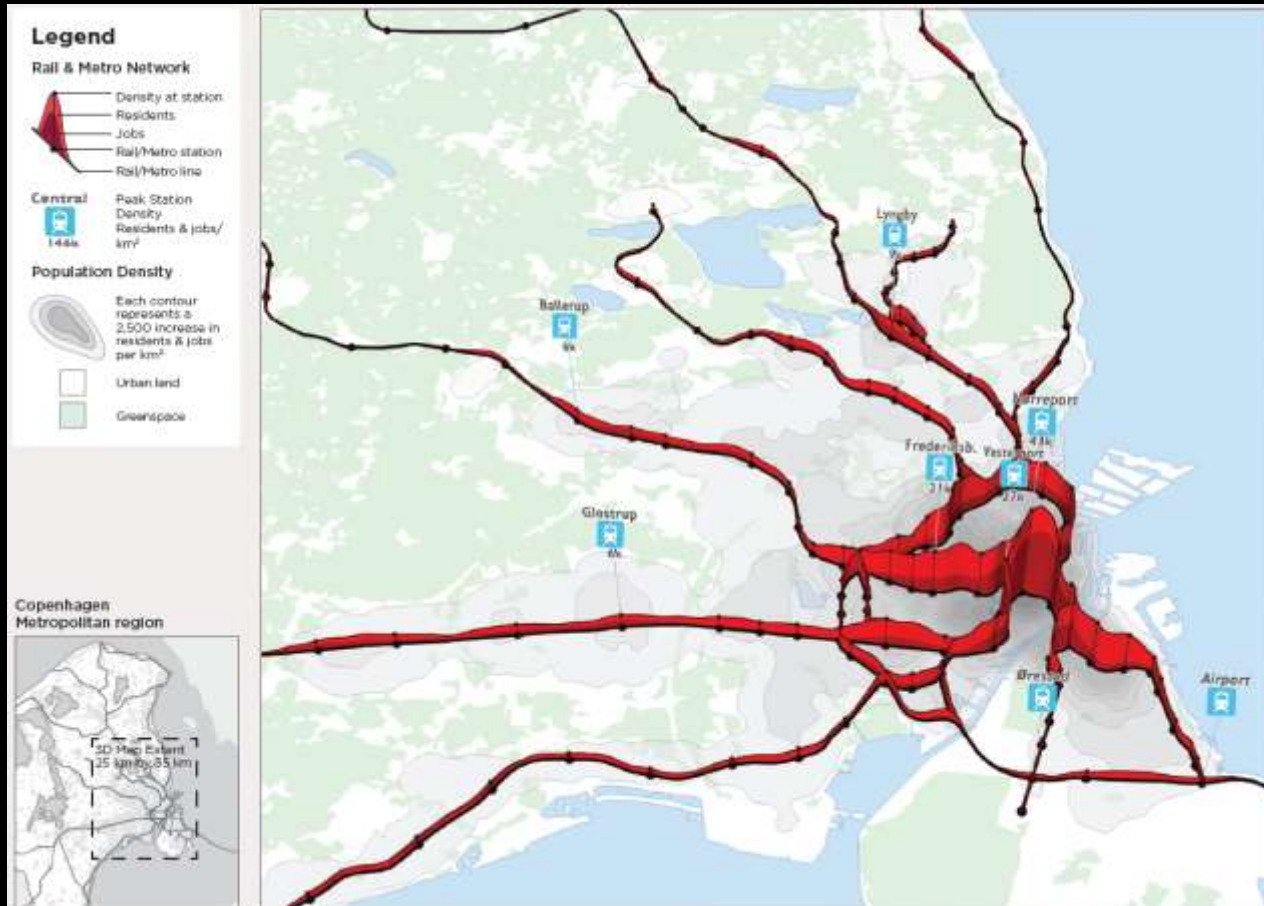


DECOUPLING IN CITIES





COPENHAGEN LAND USE AND TRANSPORT INTEGRATION





STOCKHOLM ECO-DISTRICTS





4 Elmers End

13

2558

Prezzi H





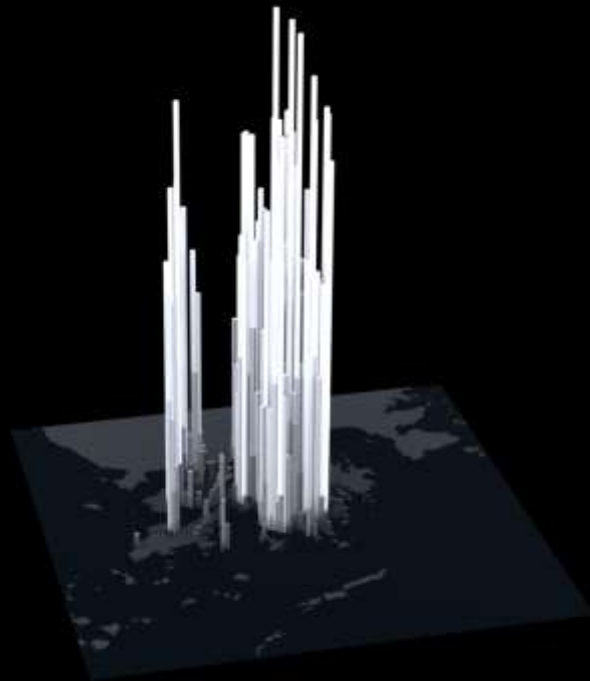
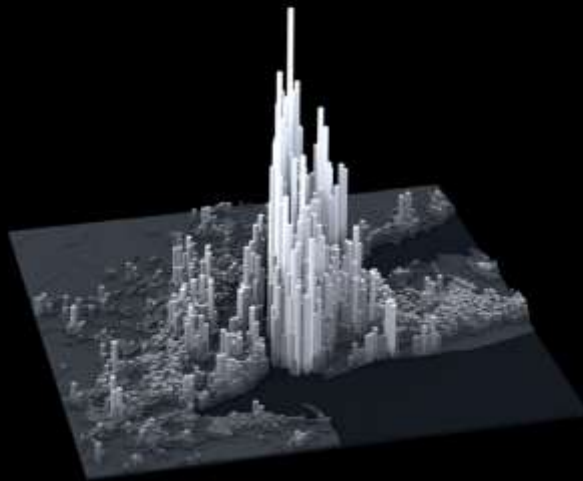
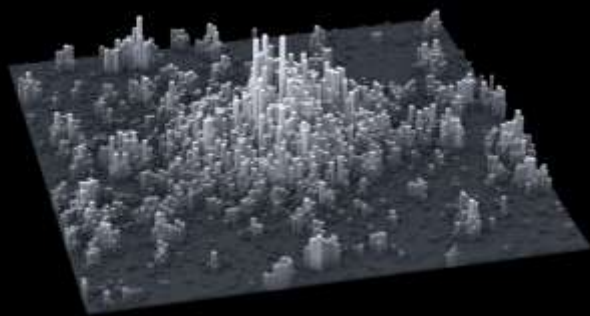


RESIDENTIAL DENSITY

LONDON

NEW YORK

HONG KONG

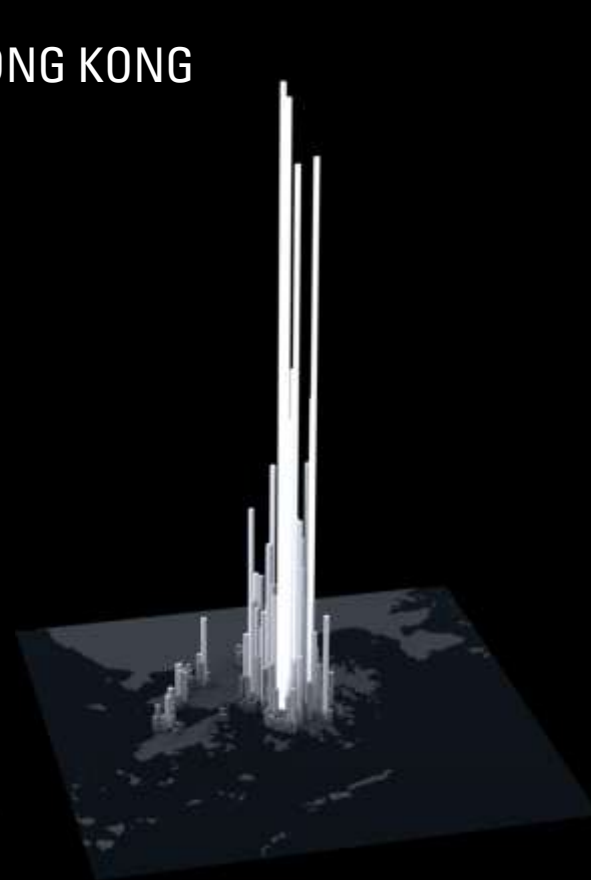
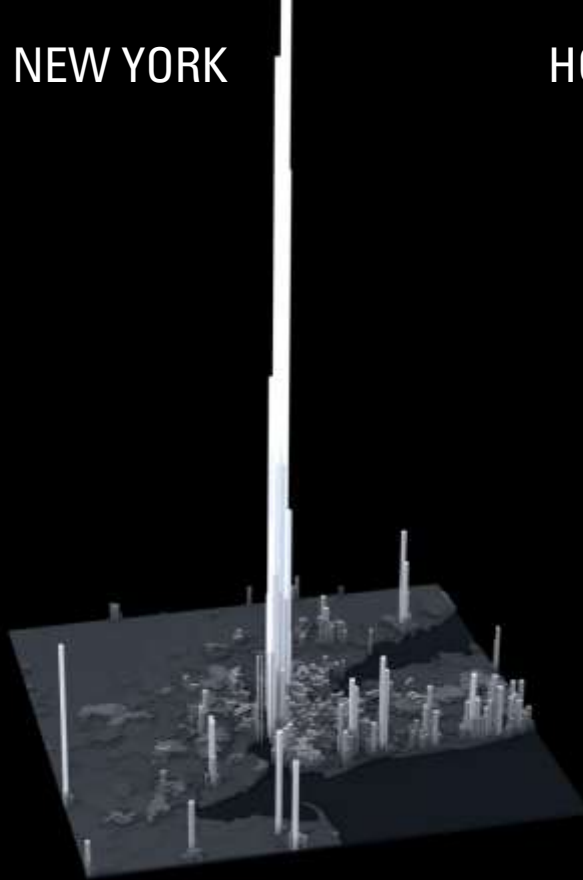
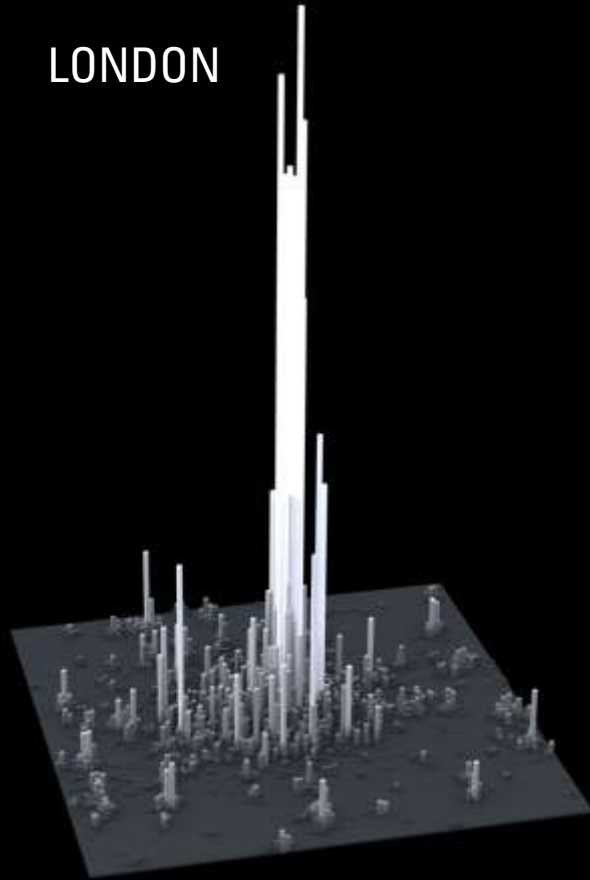


EMPLOYMENT DENSITY

LONDON

NEW YORK

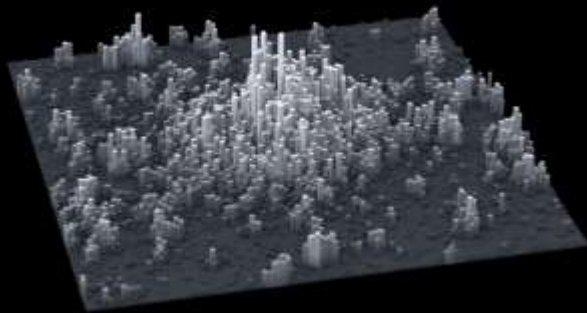
HONG KONG



DENSITY: LONDON

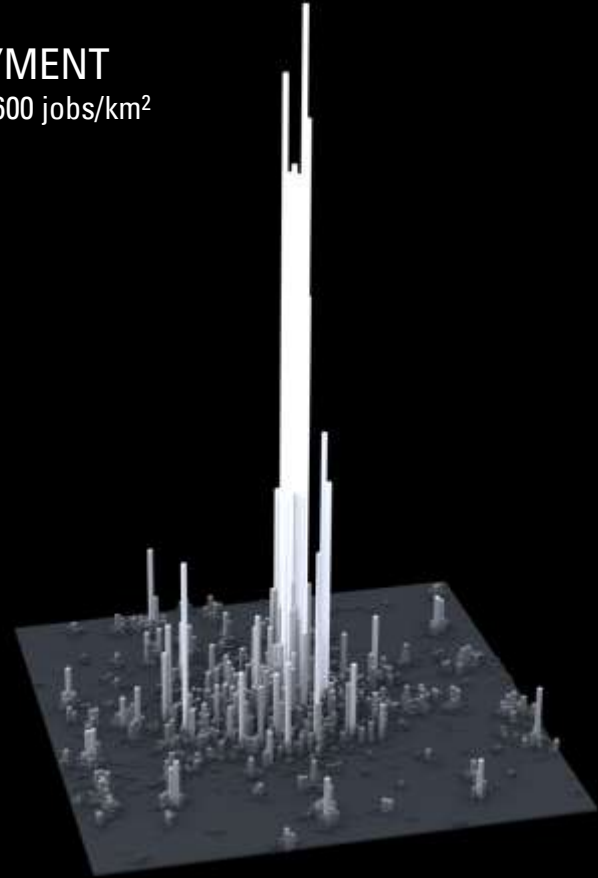
RESIDENTS

PEAK 27,100 pp/km²



EMPLOYMENT

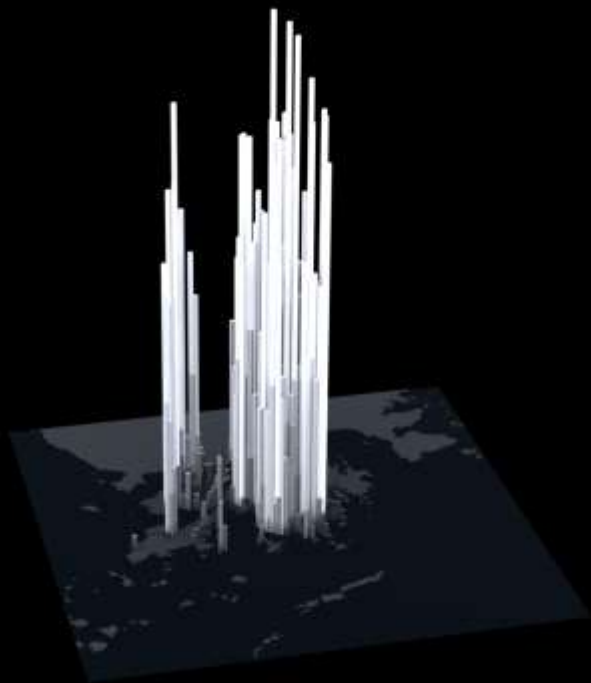
PEAK 141,600 jobs/km²



DENSITY: HONG KONG

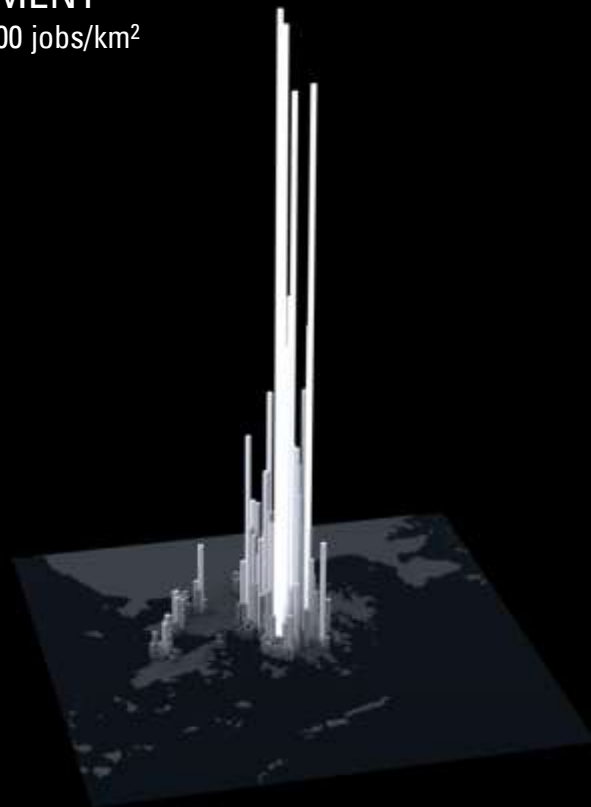
RESIDENTS

PEAK 111,100 pp/km²



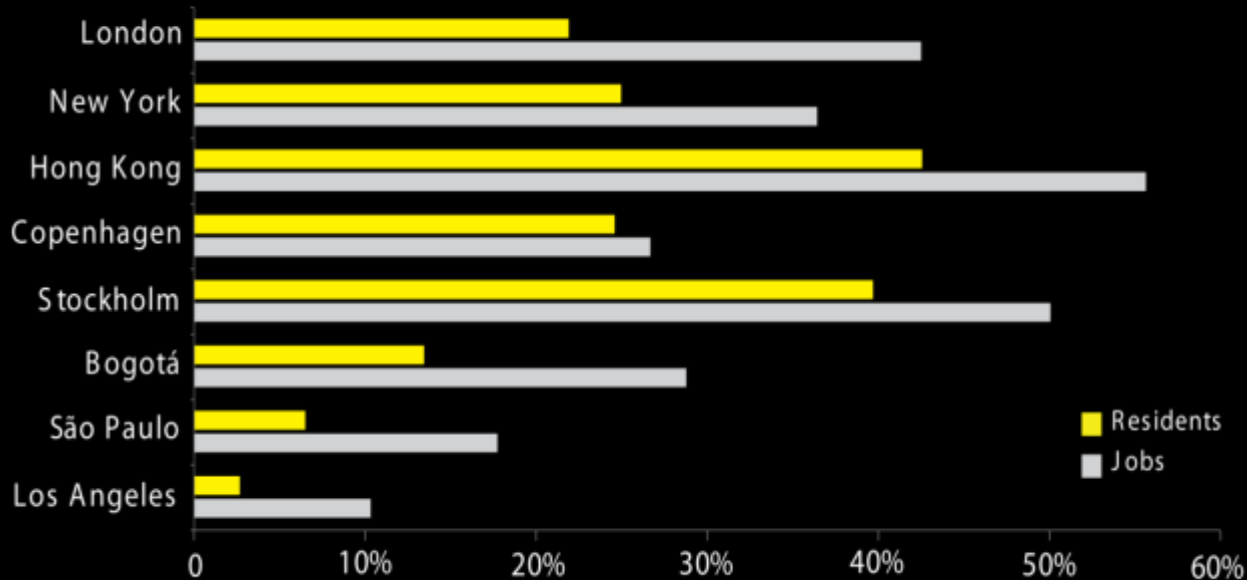
EMPLOYMENT

PEAK 120,200 jobs/km²



ACCESSIBILITY

Metropolitan populations in walking distance (500m) of rail and metro stations





Only

All other
traffic



Only

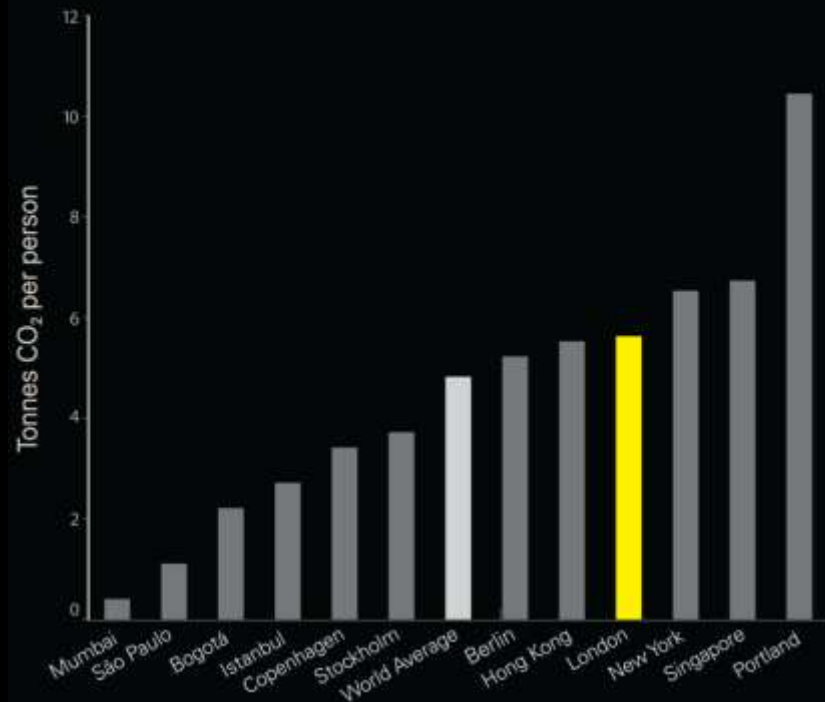
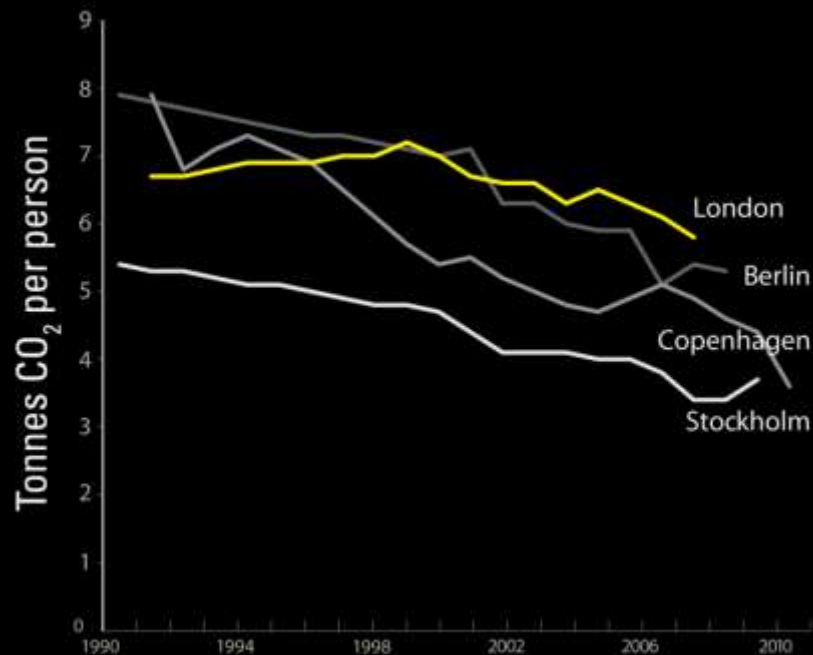
GER KING

BURGER KING

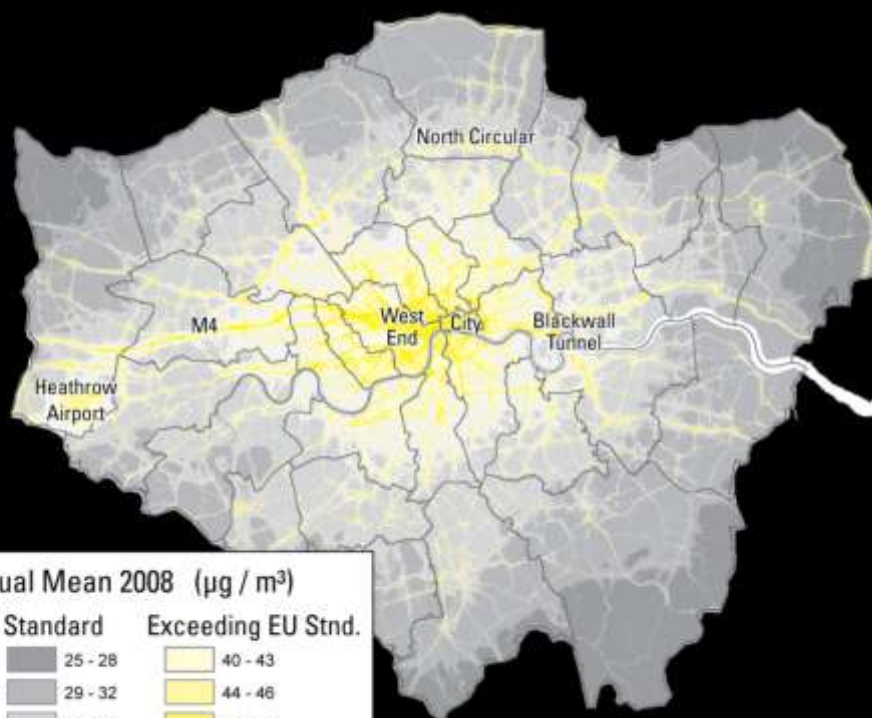
nylon chi
Croydon



CO2 EMISSIONS COMPARED



LONDON AIR POLLUTION

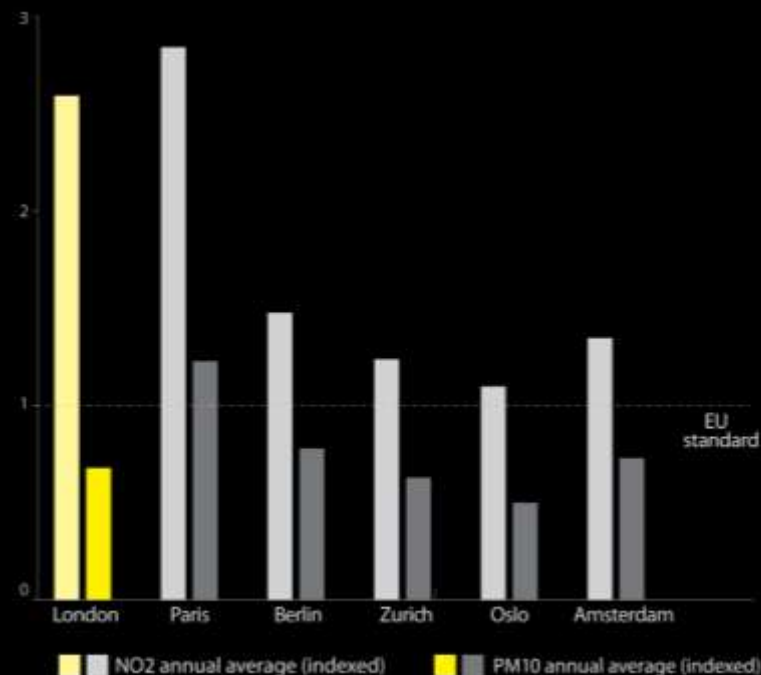


NO2 Annual Mean 2008 ($\mu\text{g} / \text{m}^3$)

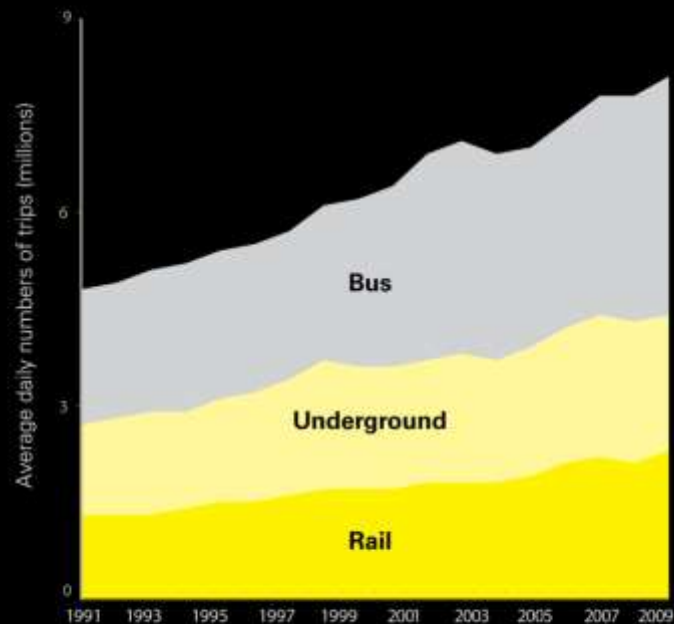
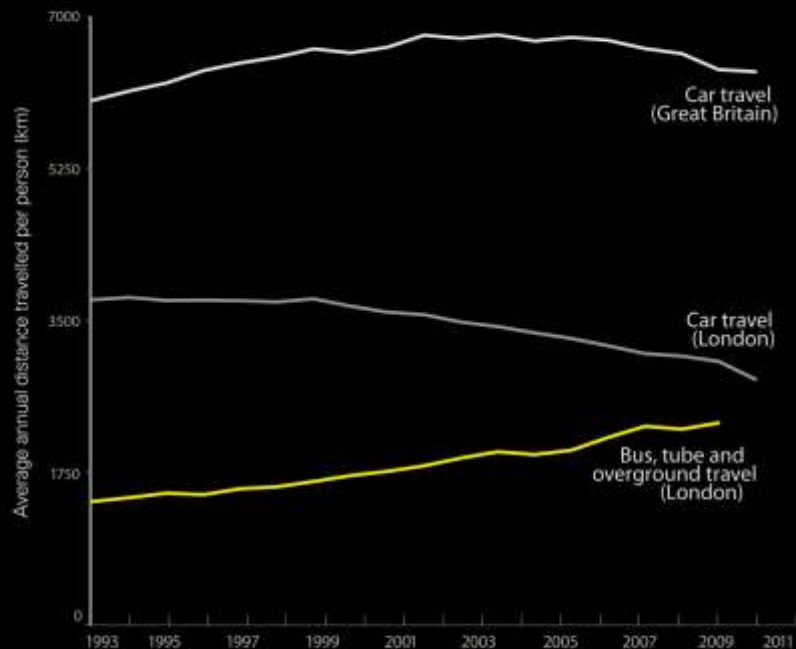
Within EU Standard

Exceeding EU Stnd.

0 - 13	25 - 28	40 - 43
14 - 17	29 - 32	44 - 46
18 - 21	33 - 35	47 - 50
22 - 24	36 - 39	51 - 277



LONDON CHANGES IN TRAVEL



LONDON DIGITAL ECONOMY

