

Cities

making Europe ressource-efficient



Birgit Georgi

Urban Development 2050, Vienna, 3 May 2011

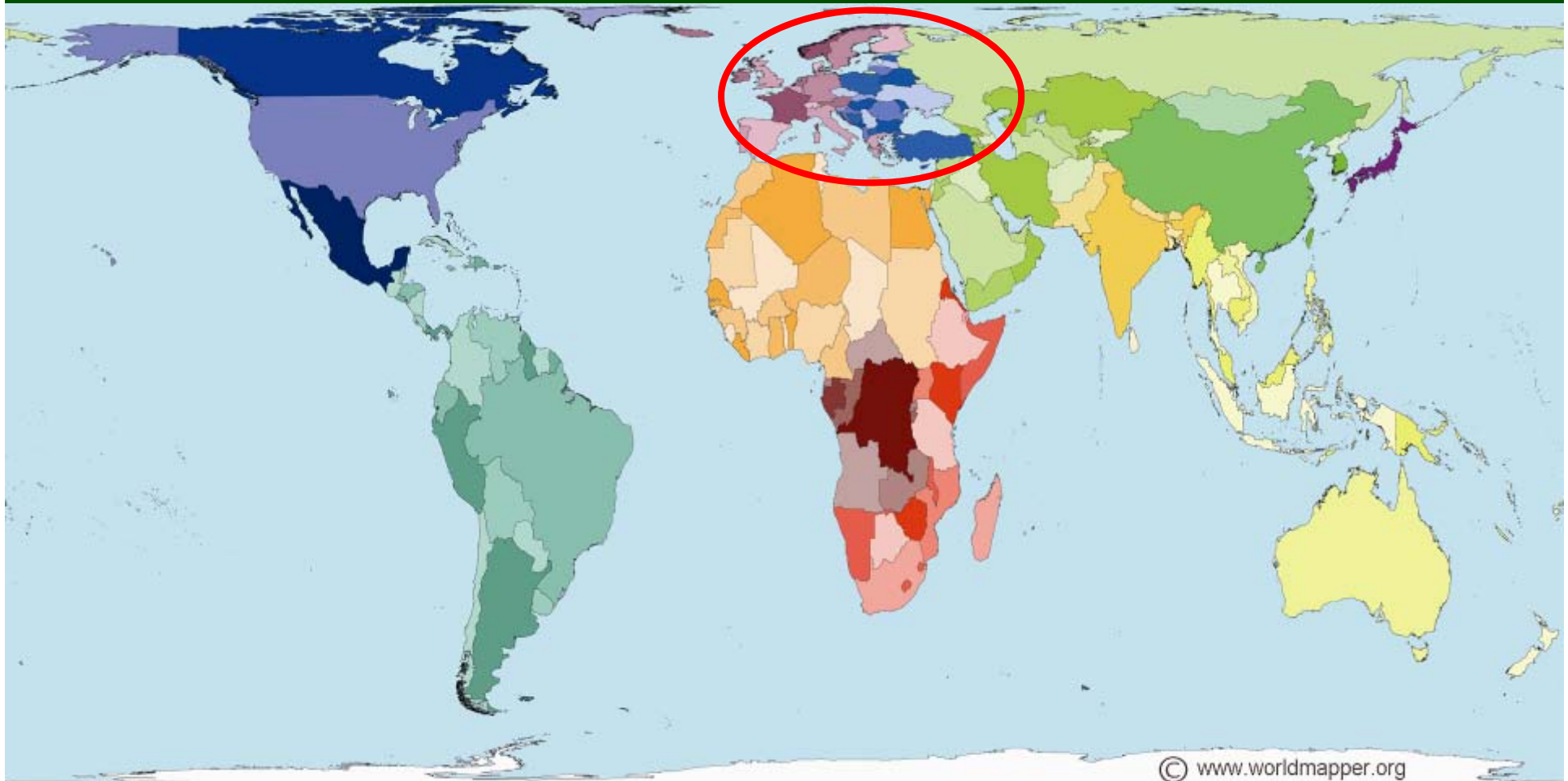
European Environment Agency



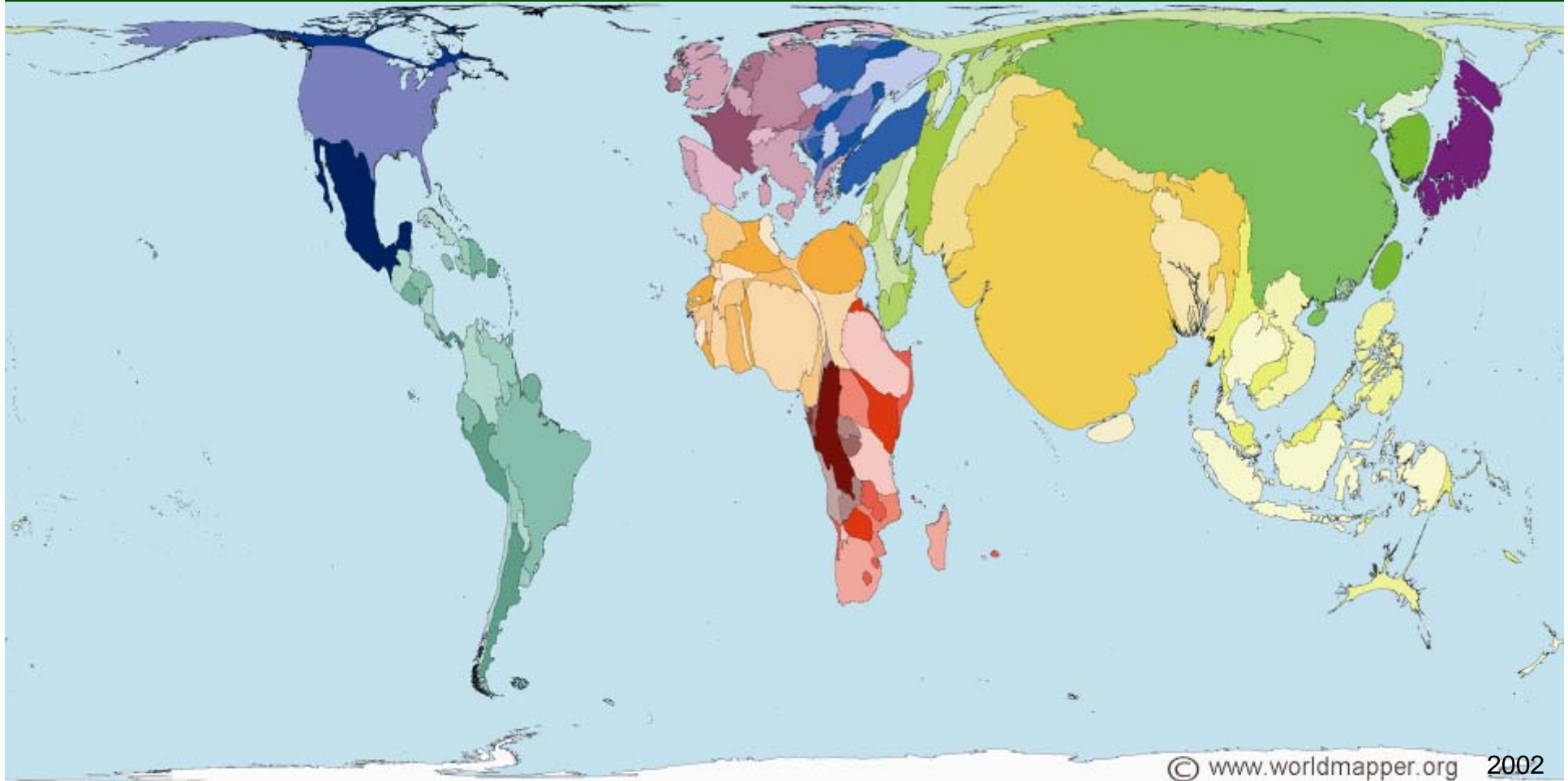
Europe in a nutshell



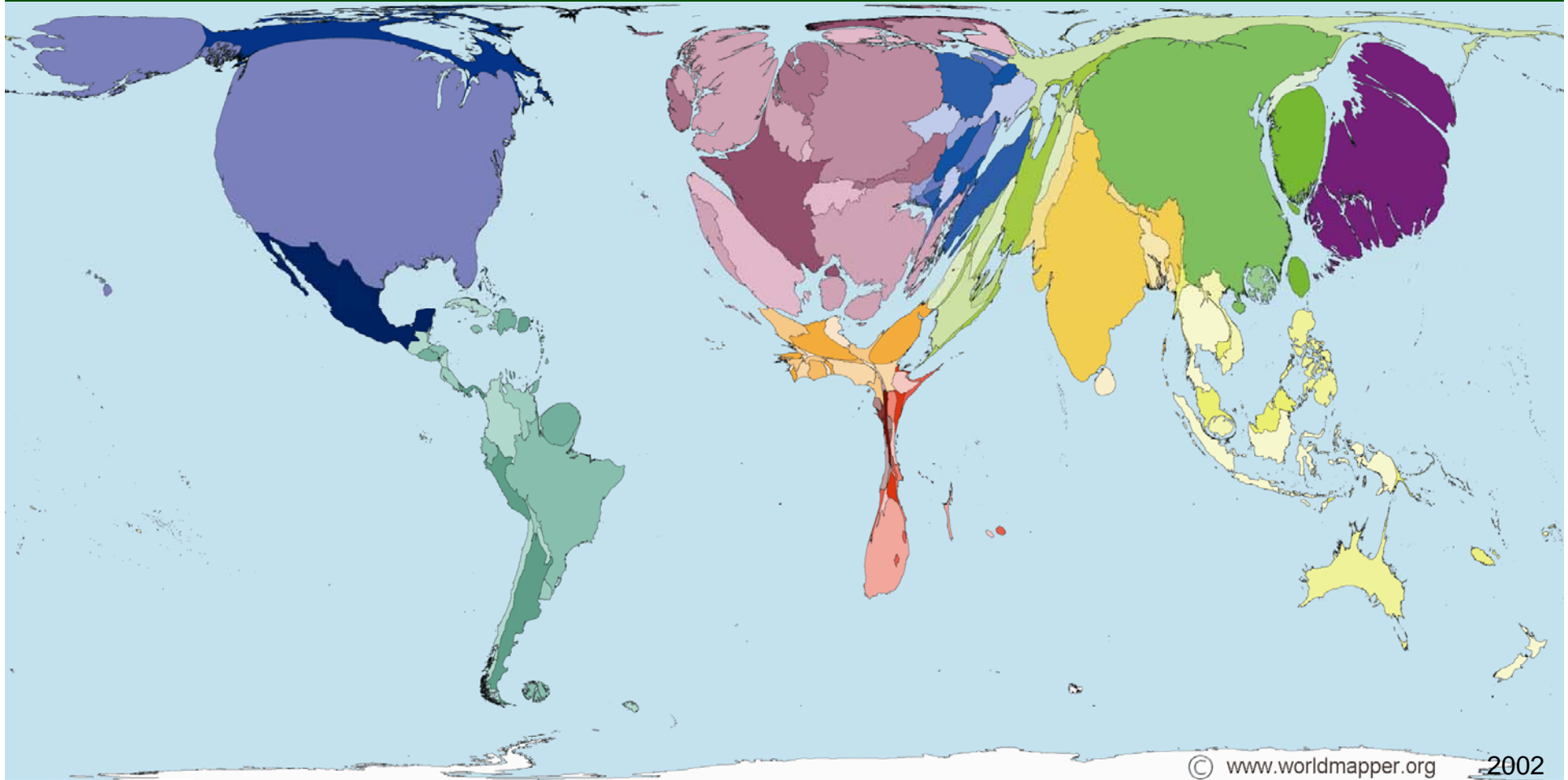
The world as we know it ...



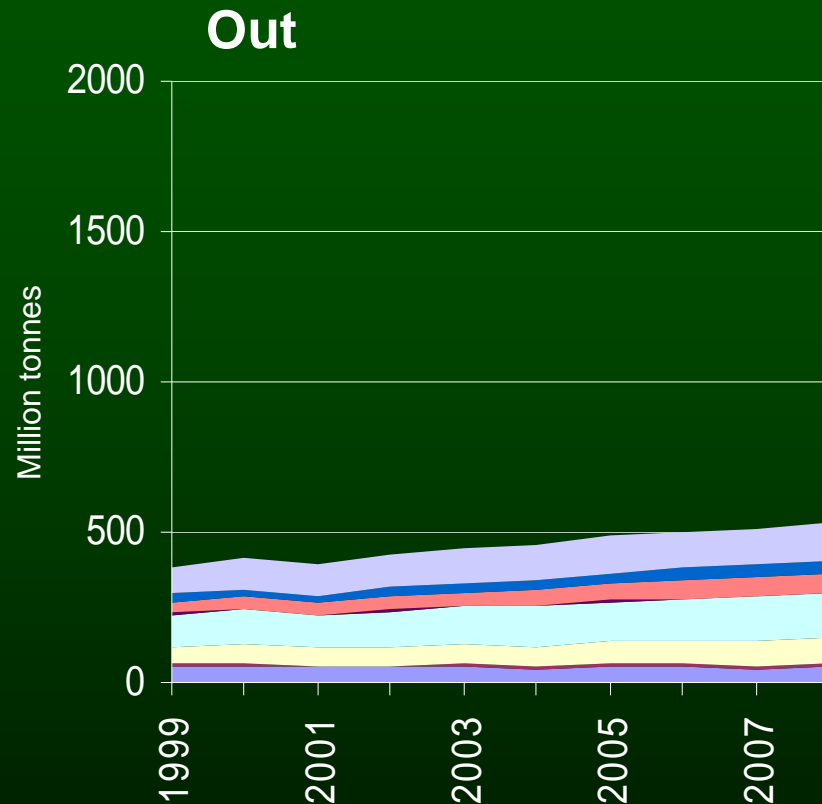
Population



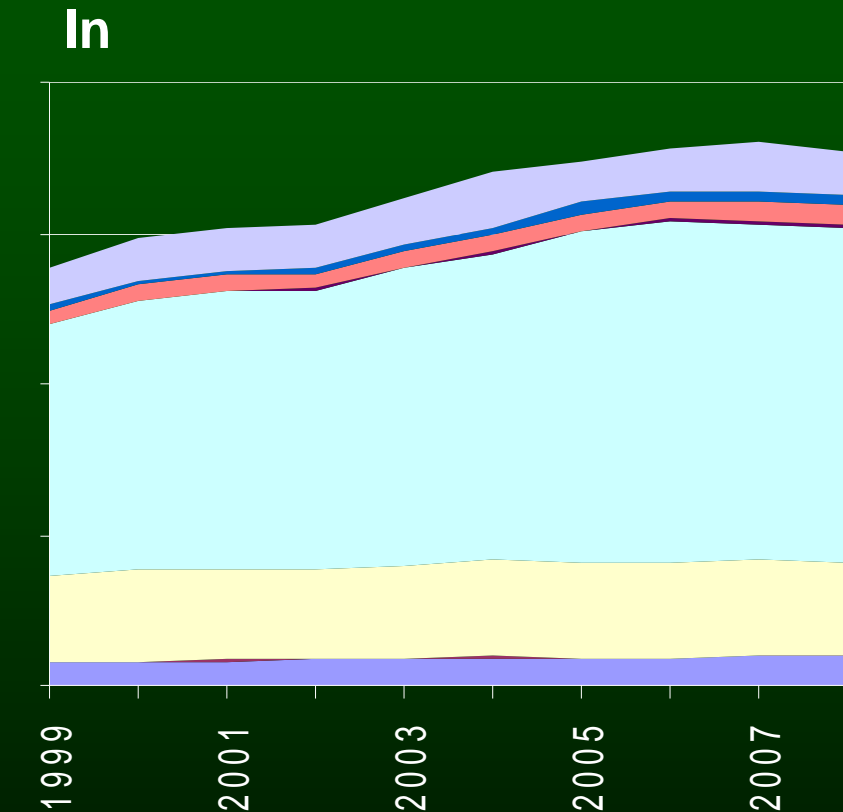
Wealth



Europe's wealth and resources

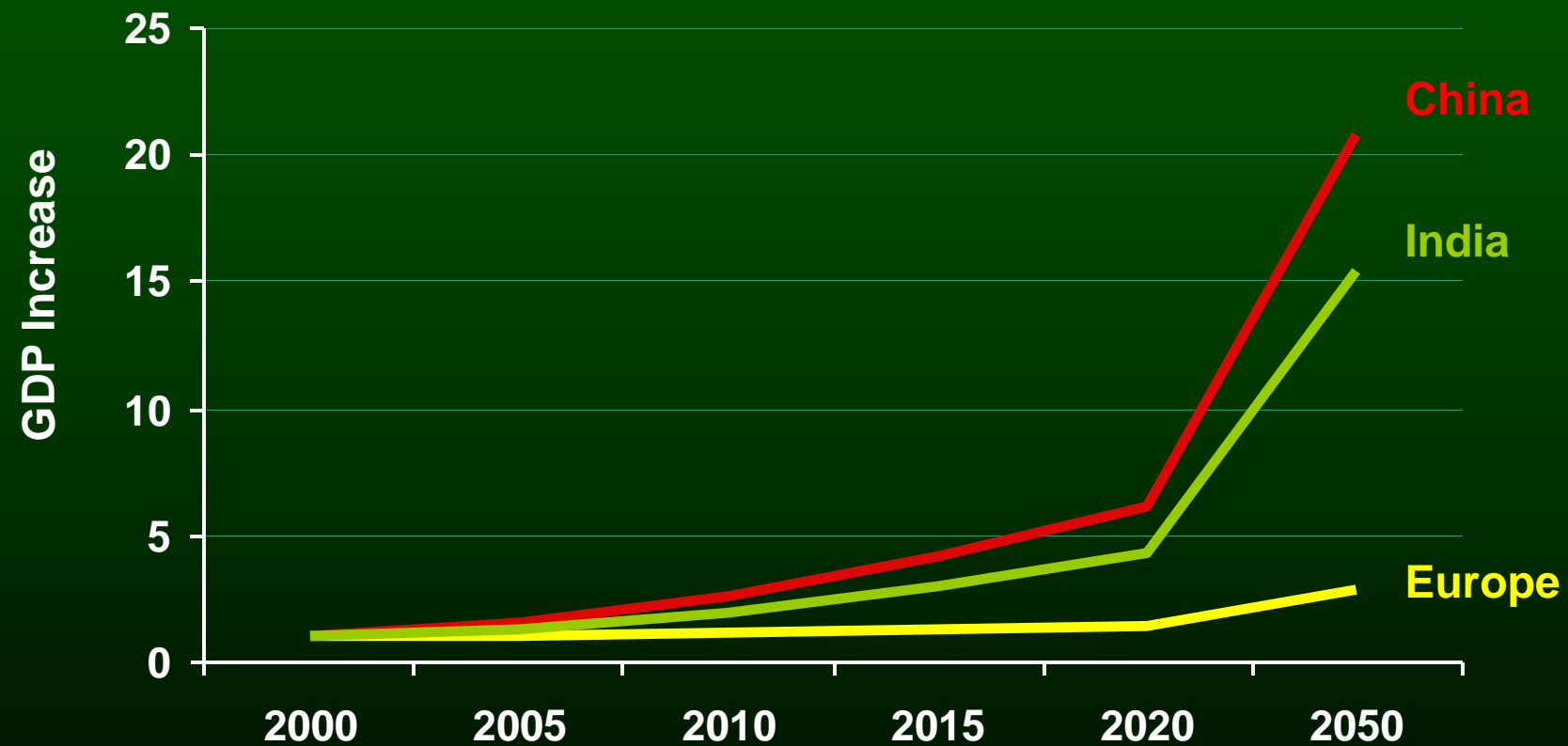


- Other manufactured goods and commodities
- Machinery and transport equipment
- Chemicals and related products
- Animal and vegetable oils, fats

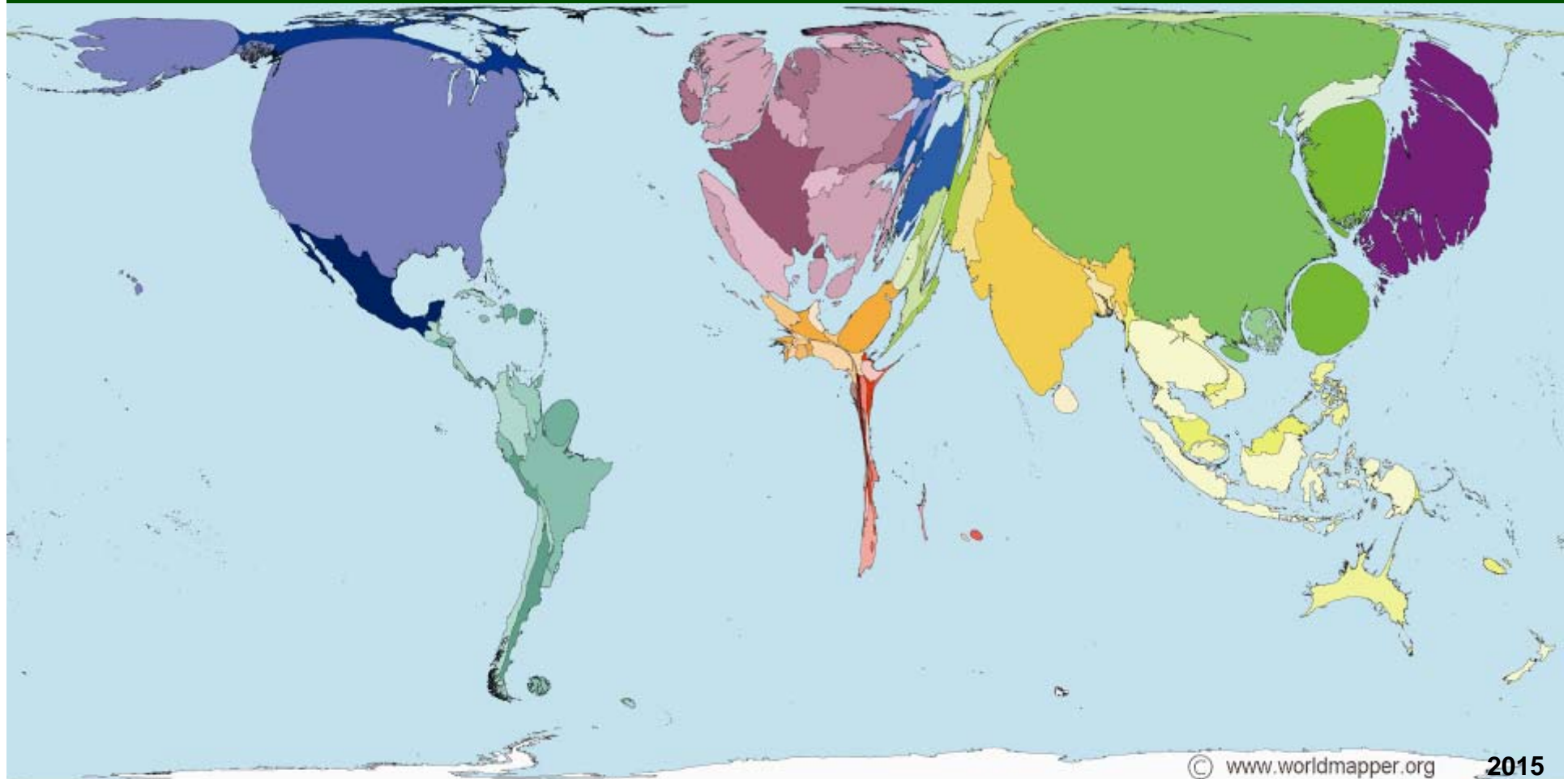


- Mineral fuels, lubricants etc
- Crude materials, inedible, except fuels
- Beverages and tobacco
- Food and live animals

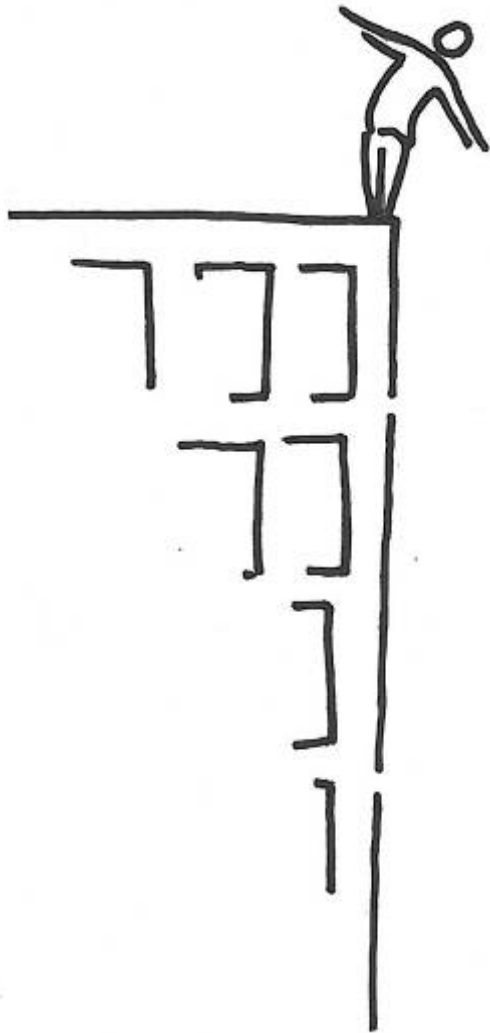
China & India catch up



Wealth in the future



We **risk**
our **quality**
of **life**

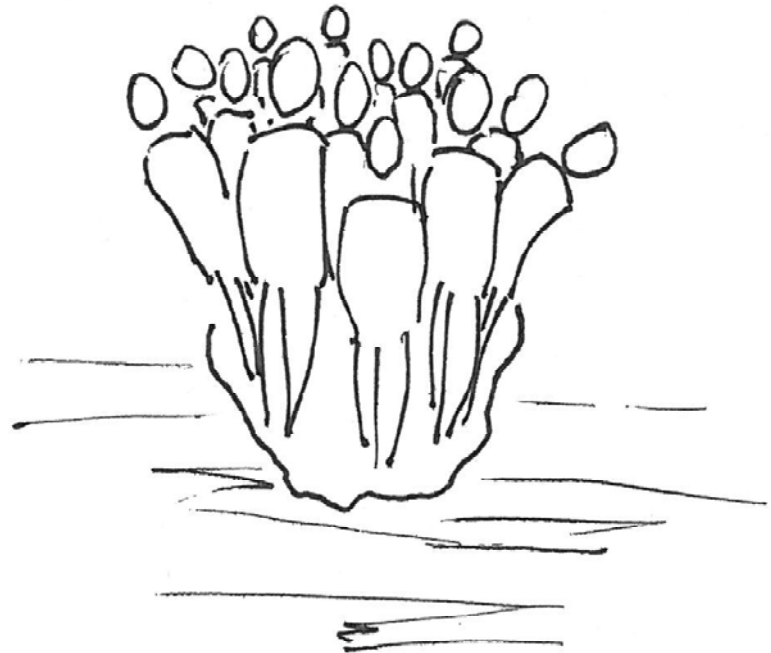


Cities in Europe ...

4% area



75% people







... and where wealth is generated

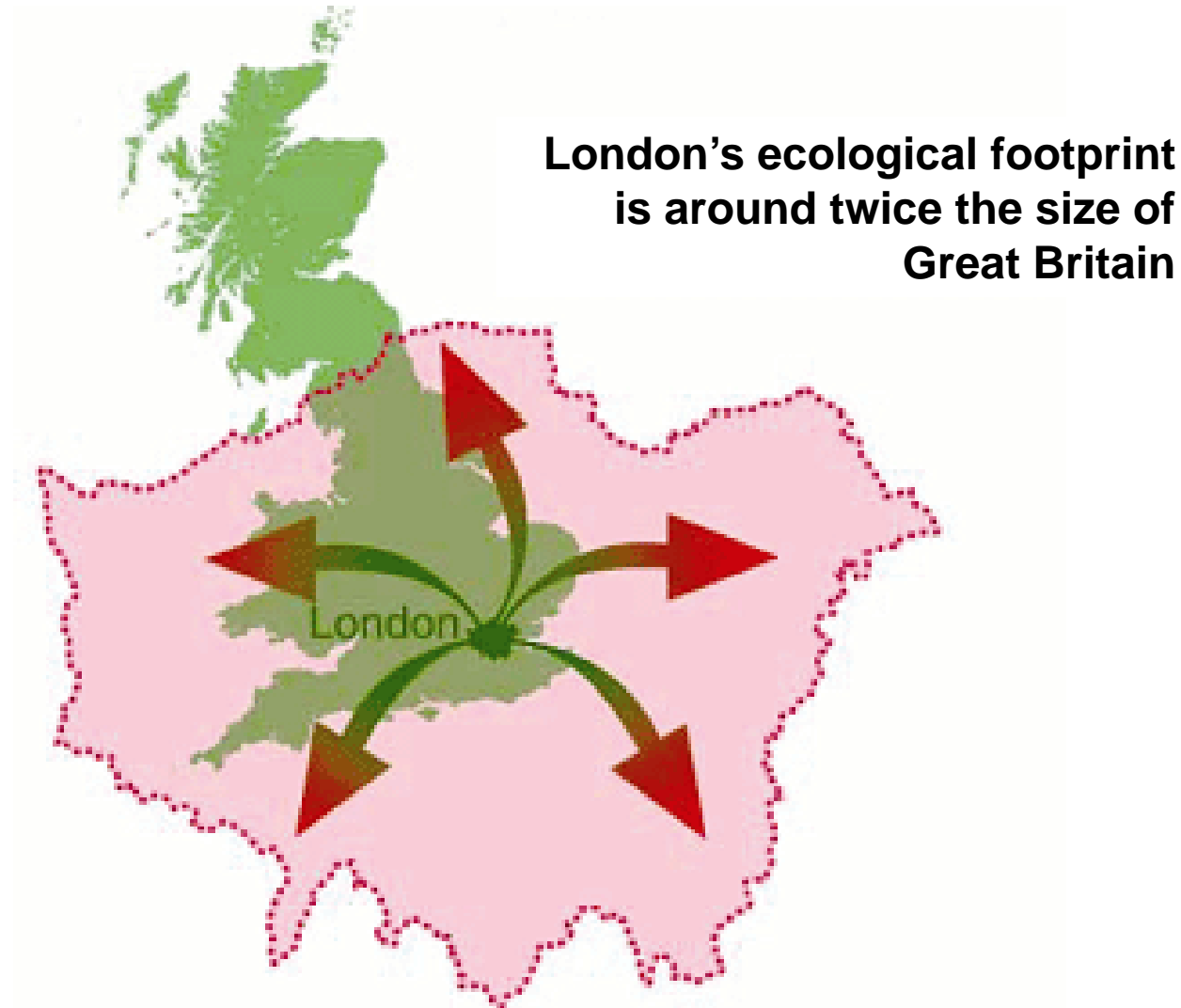
Cities consume

69%



of Europe's primary energy

... and effect whole Europe



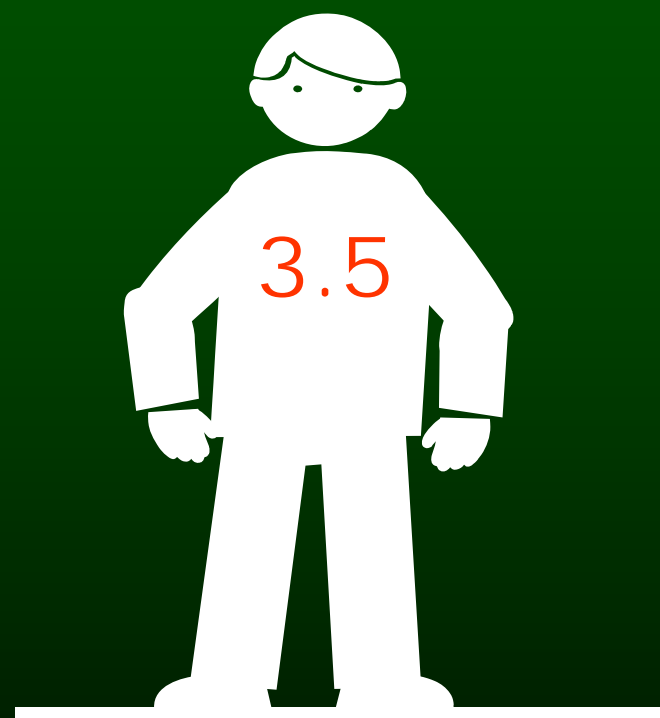
But ...

Efficiency



rural resident

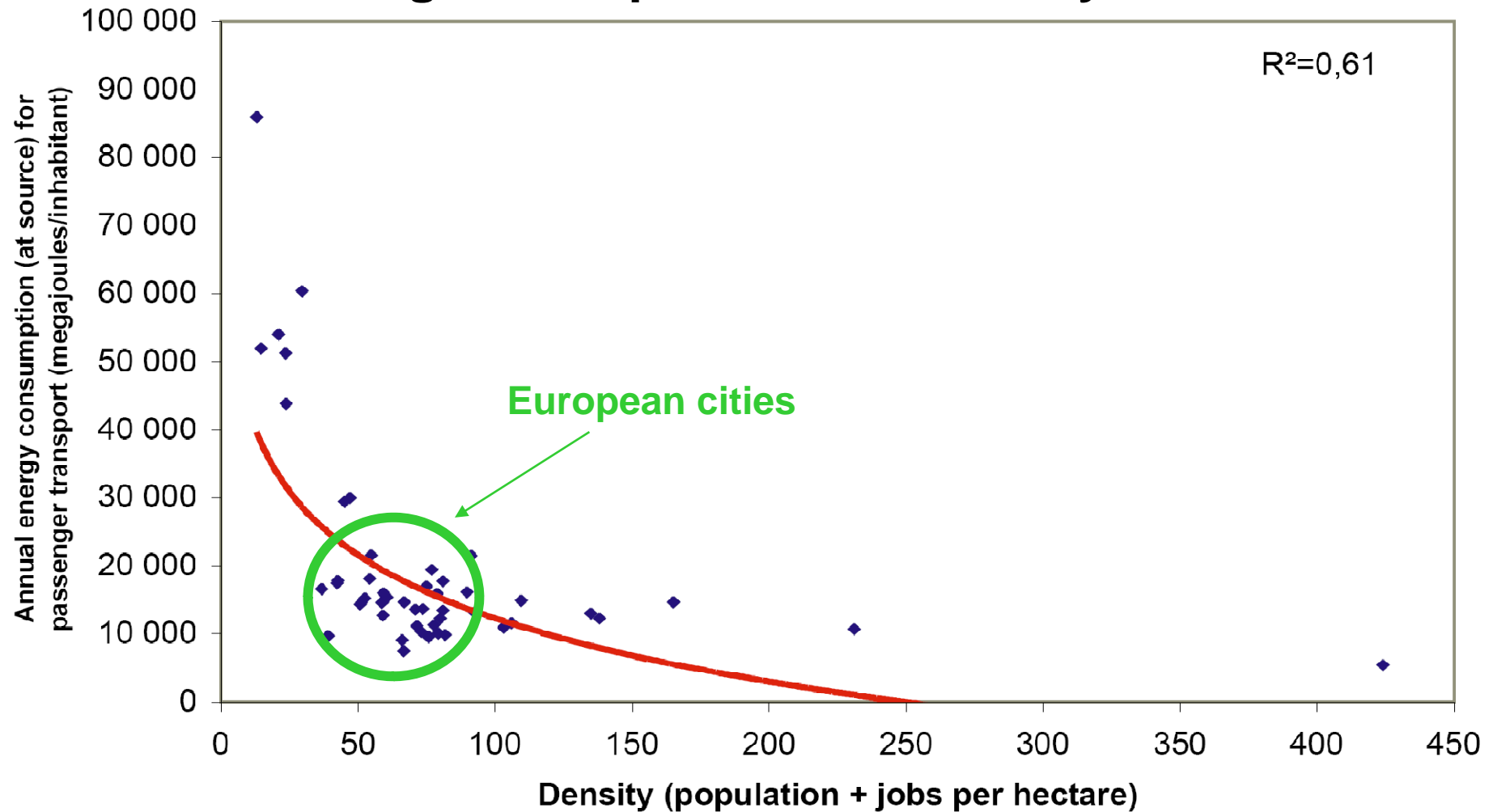
tonnes of oil equivalent / year in Europe



CITY RESIDENT

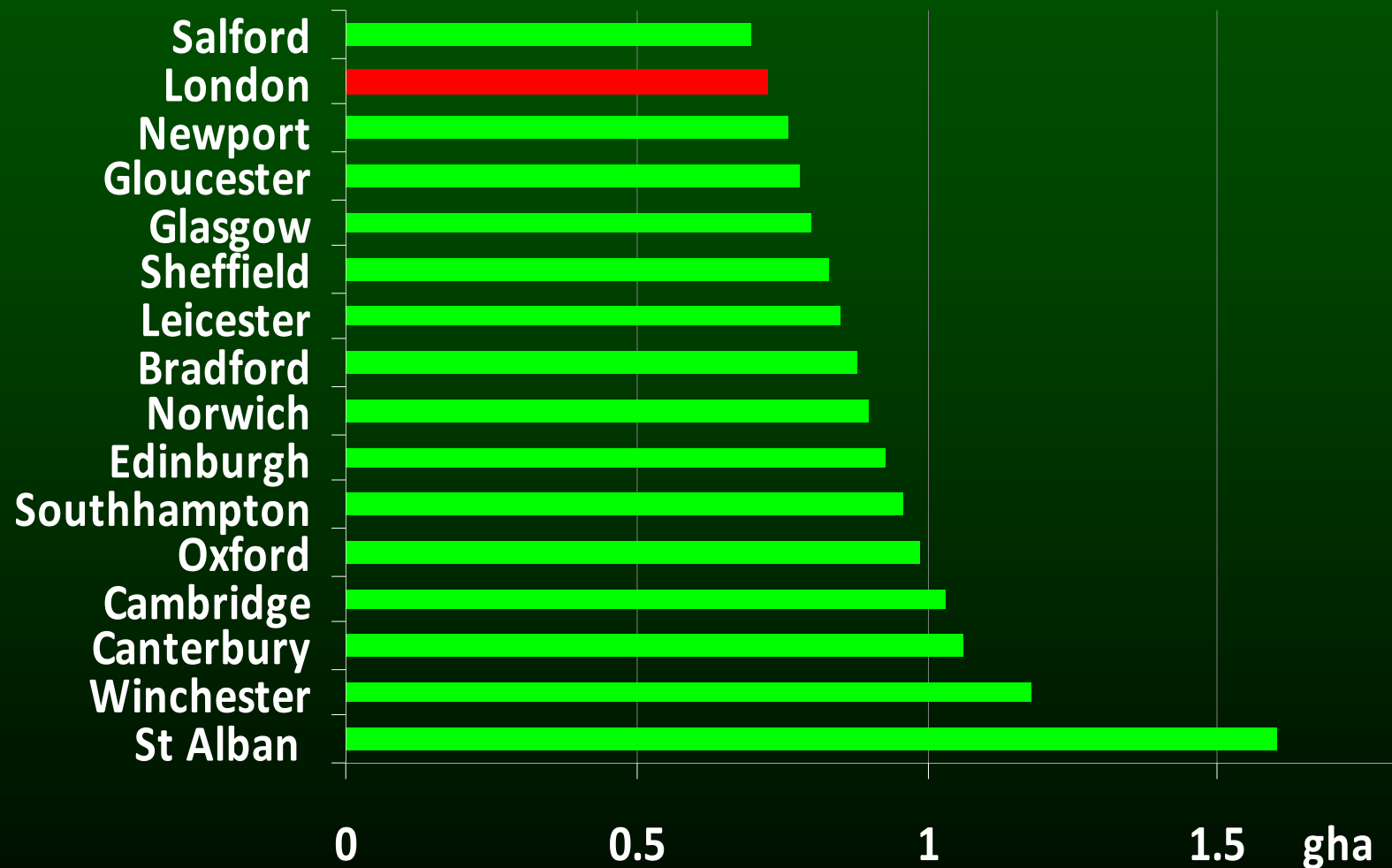
Energy consumption

Passenger transport versus density



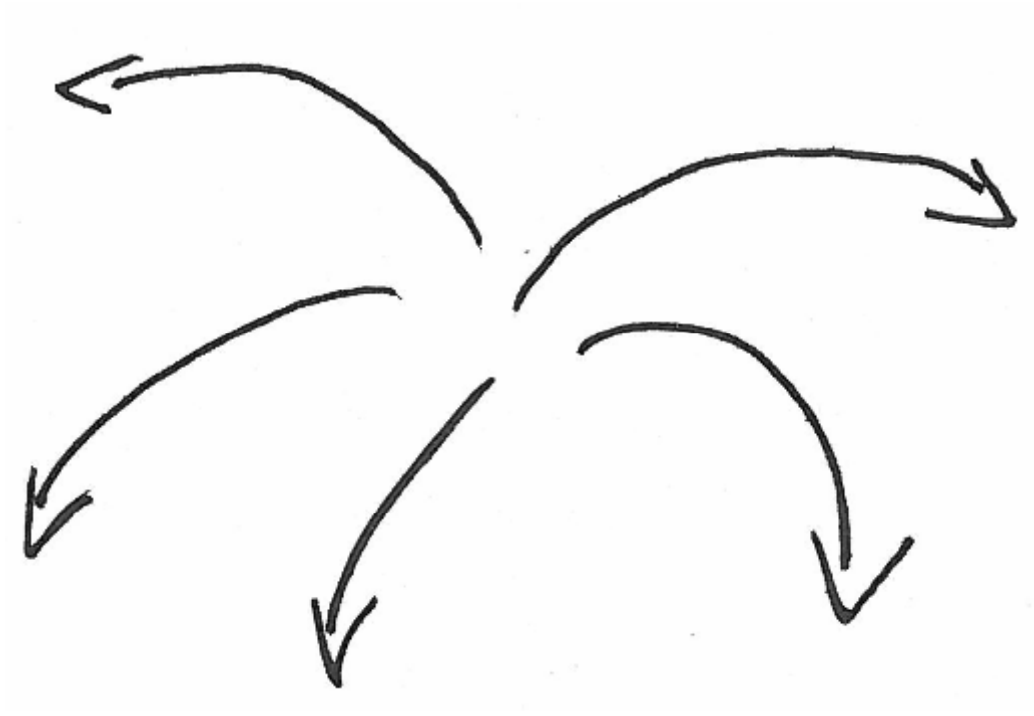


Resident's transport footprint

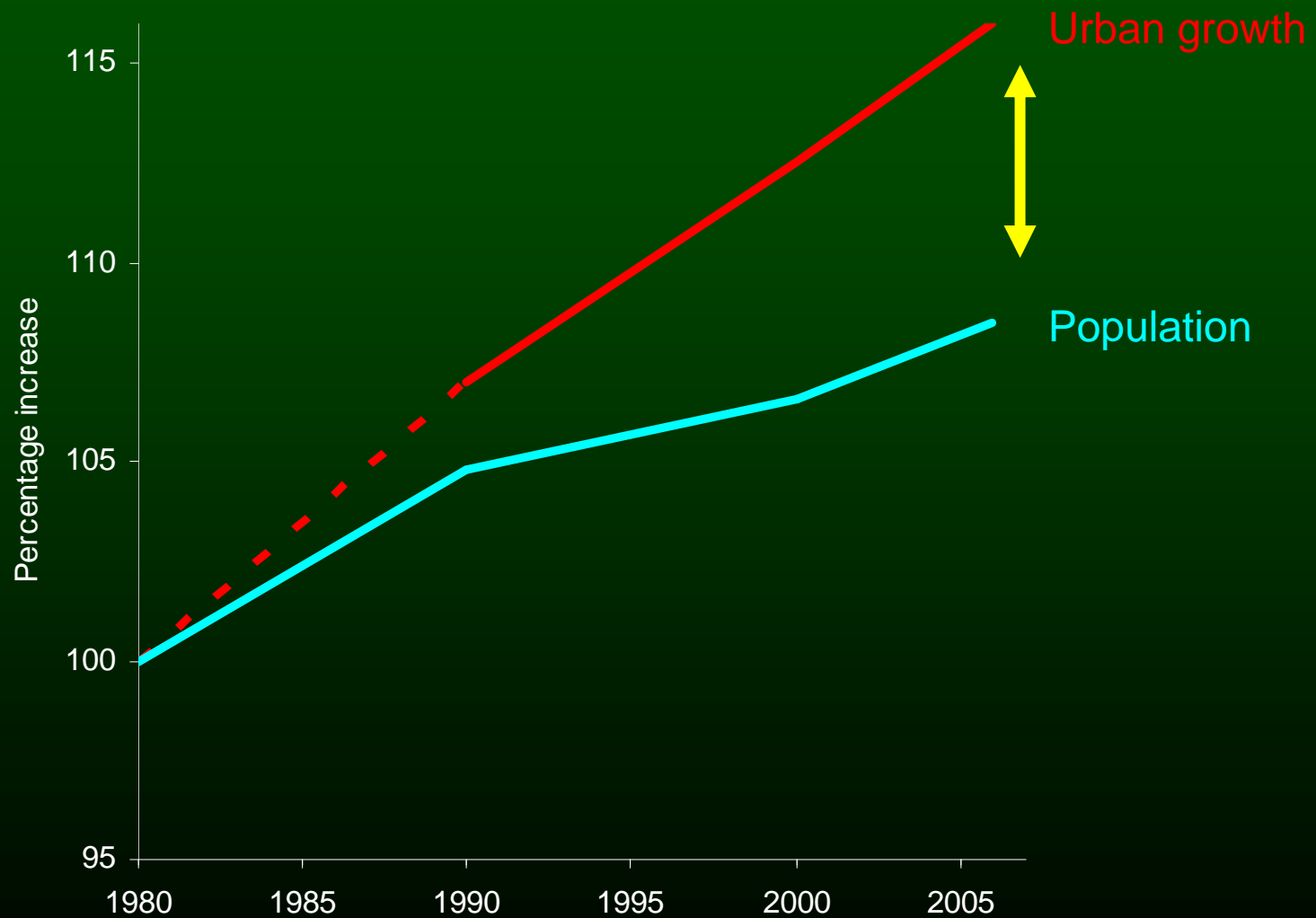


Source: WWF, 2007

**Imagine, we all would spread
across the countryside ...**



In fact, we **are** spreading!

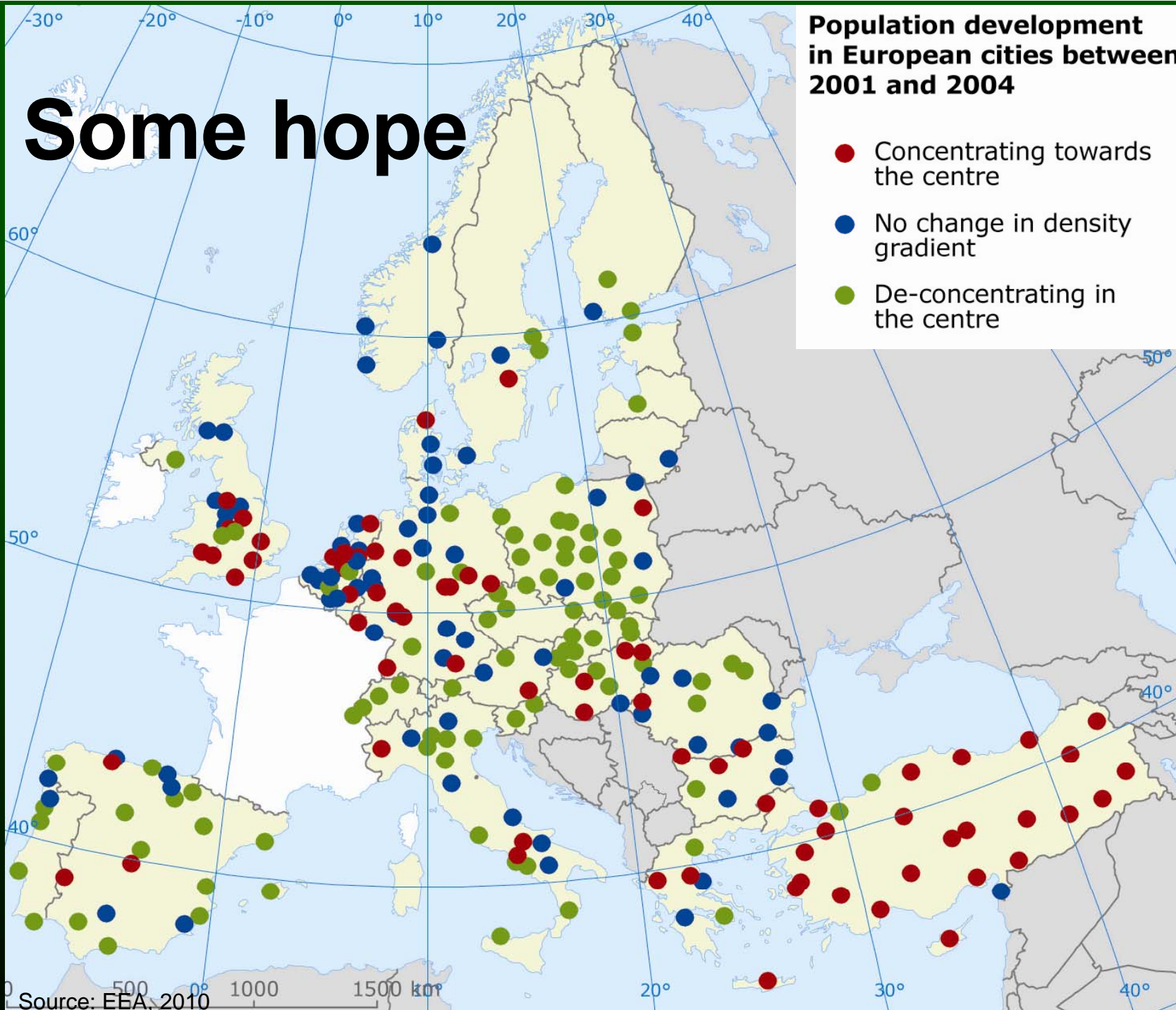


Source: EEA, 2010

Some hope

Population development in European cities between 2001 and 2004

- Concentrating towards the centre
- No change in density gradient
- De-concentrating in the centre



Source: EEA, 2010

How
to make it
happen **?**



EEA

... 30 nations and
cultures



Video

<http://www.eea.europa.eu/multimedia/it-is-fun-to-save-the-environment/view>

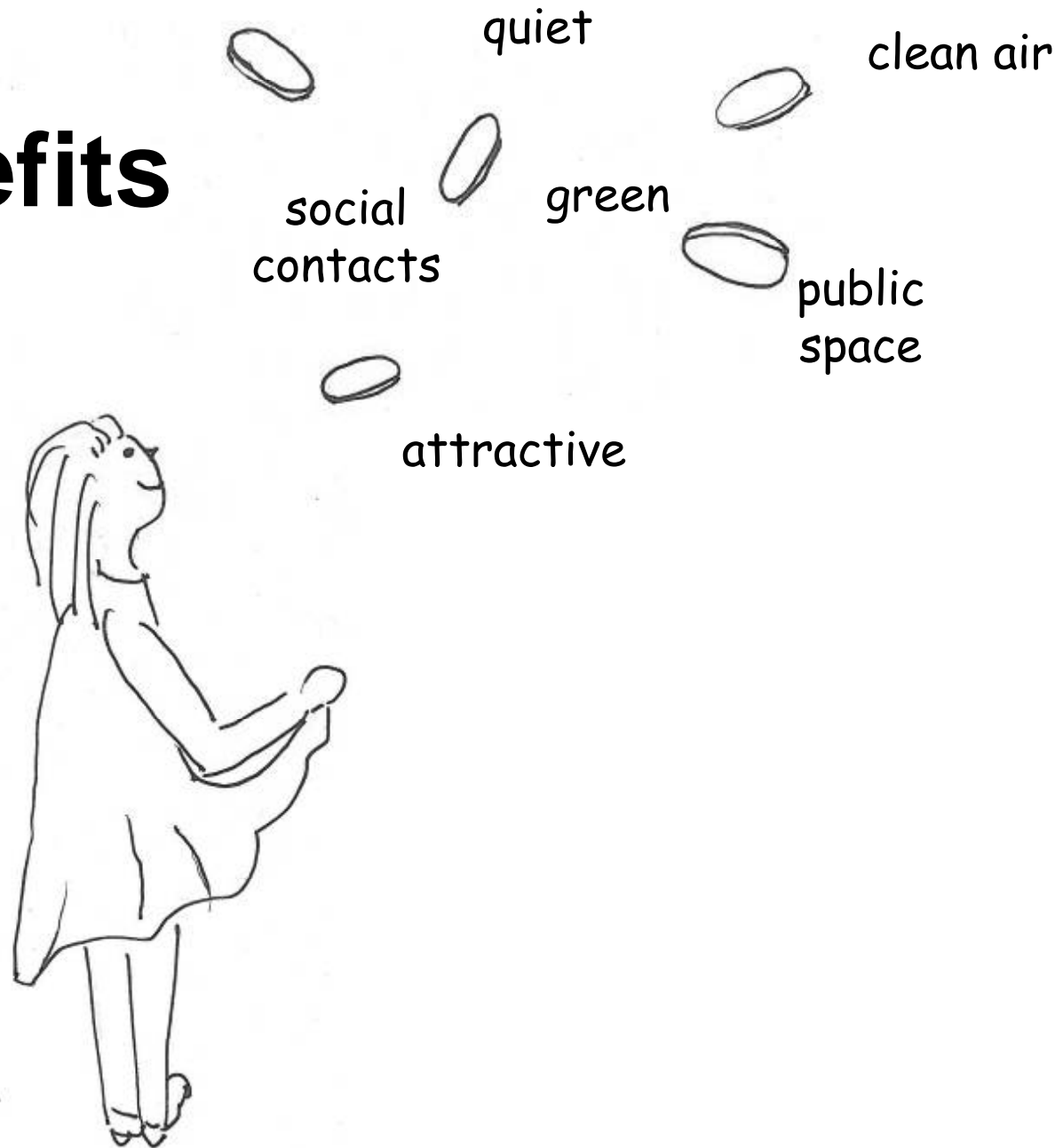
The **whole**
package
must be
right

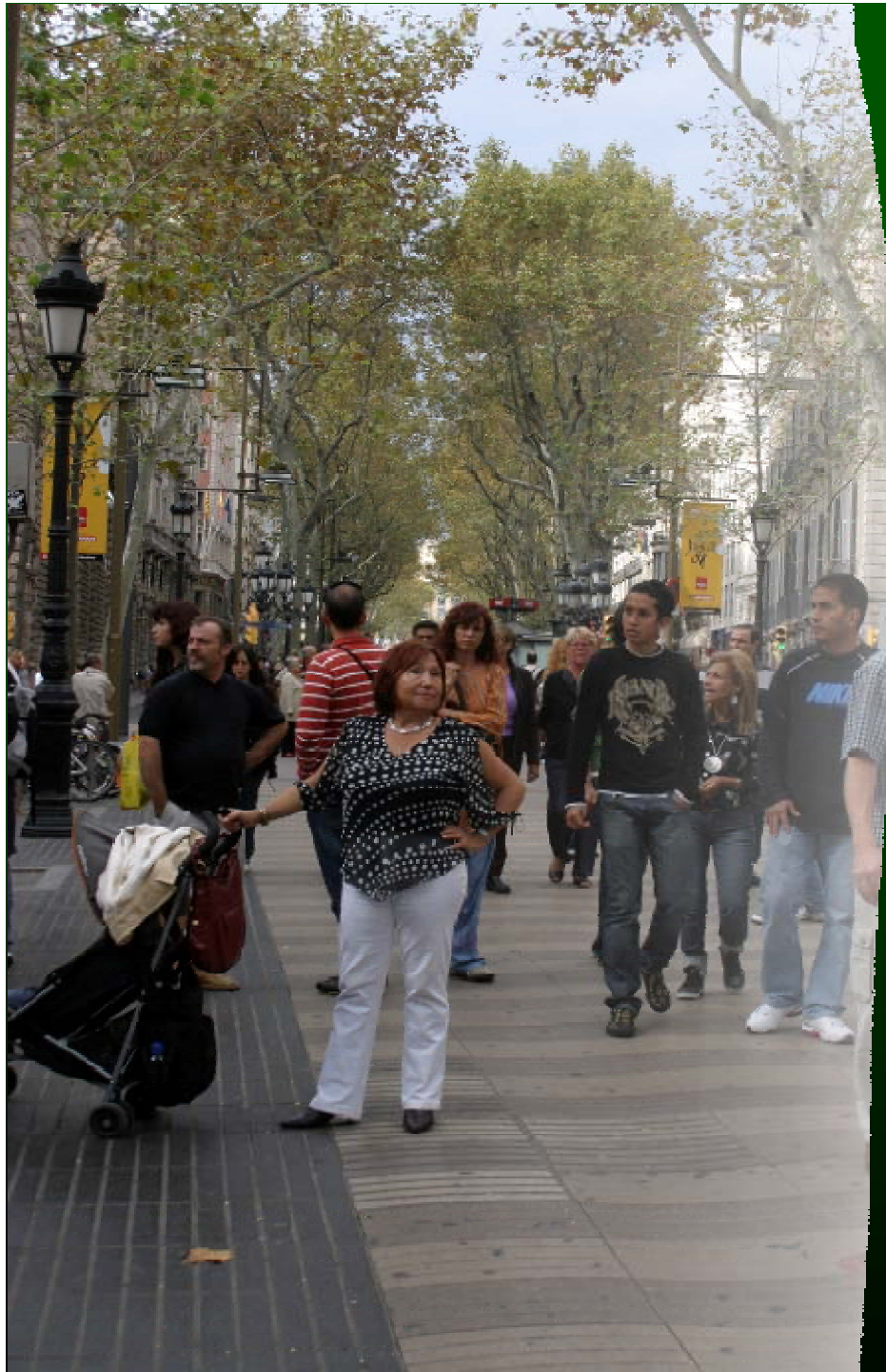


Good urban *design*



Co-benefits





compact

green

efficient

nice



European Commission
Europe 2020

smart

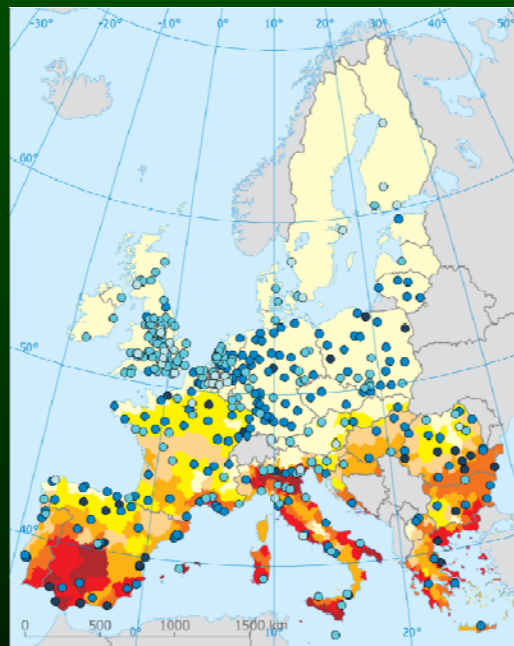
green

inclusive



Back to Europe ...

Cities are different



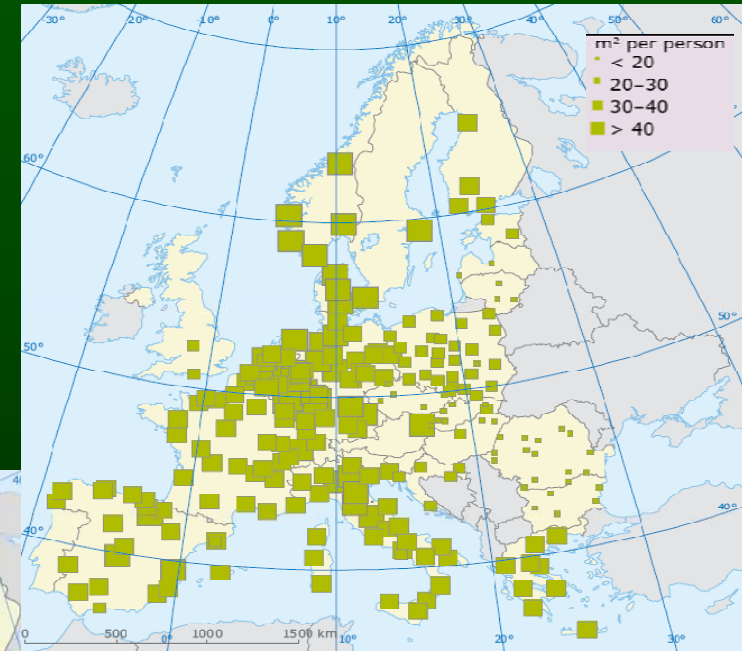
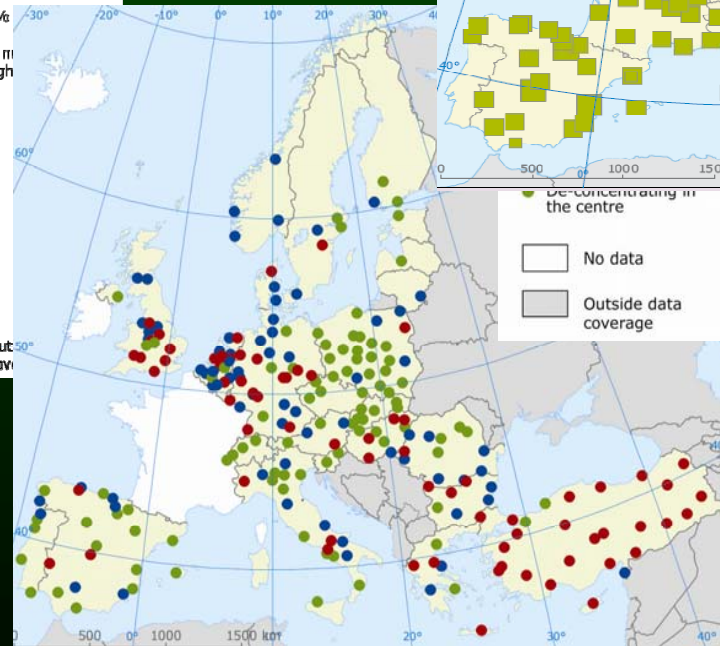
Mean soil sealing in Europe's cities (UMZ) in 2006 and modelled changes in number of tropical nights during summer between 1961-1990 and 2010-2040

Mean soil sealing in UMZ

- < 35 %
- 35-50 %
- 50-65 %
- > 65 %

Change in n tropical night

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- Out



m² per person

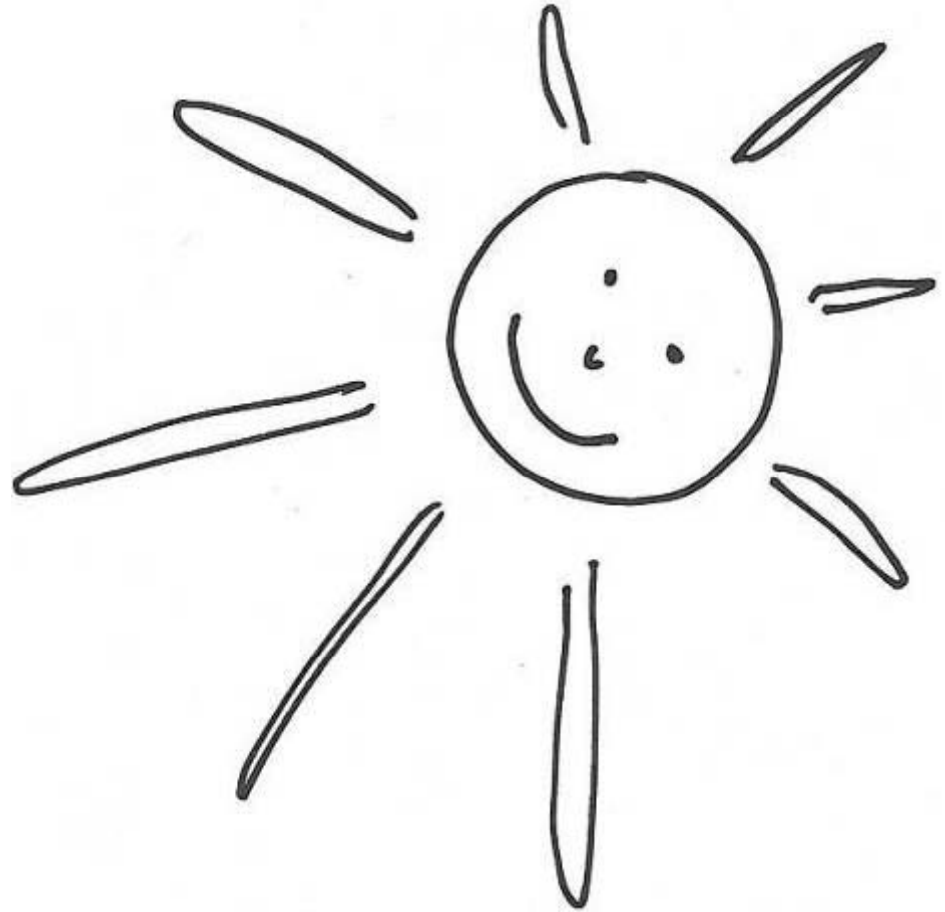
- < 20
- 20-30
- 30-40
- > 40

De-concentrating in the centre

- No data
- Outside data coverage



No one-size-fits-all!



Cities -

Quality of life

for all Europe!

A hand-drawn black frame surrounds the text. The frame consists of a jagged, irregular top line that peaks in the center, two slightly curved vertical side lines, and a slightly wavy bottom line. The text is centered within this frame.

**Urban form and
design sets the **frame****

Information

10 messages for 2010
Urban ecosystems

EEA Report | No 5/2009

Ensuring quality of life in Europe's cities and towns
Tackling the environmental challenges driven by European and global change

ISSN 1725-9177

EEA Report | No 10/2006

Urban sprawl in Europe
The ignored challenge

ISSN 1725-9177

THE EUROPEAN ENVIRONMENT

STATE AND OUTLOOK 2010

URBAN ENVIRONMENT

European Environment Agency 

 **CLIMATE**
TECHNOLOGICAL UNIVERSITY OF DARMSTADT

Climatecon Working Paper
No. 1-2011

DEVELOPING A PRAGMATIC APPROACH TO ASSESS URBAN METABOLISM IN EUROPE

A REPORT TO THE EUROPEAN ENVIRONMENT
AGENCY

Dr. Jan Minx, Dr. Felix Creutzig, Verena
Medinger, Tina Ziegler, Anne Owen and Dr.
Giovanni Balocchi

18/02/2011

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European Environment Agency 

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www.eea.europa.eu/themes/urban

