

Sustainable
Lifestyles 2050
One planet living
in Ecocommunities

Sue Riddlestone Executive Director & co-founder BioRegional Development Group



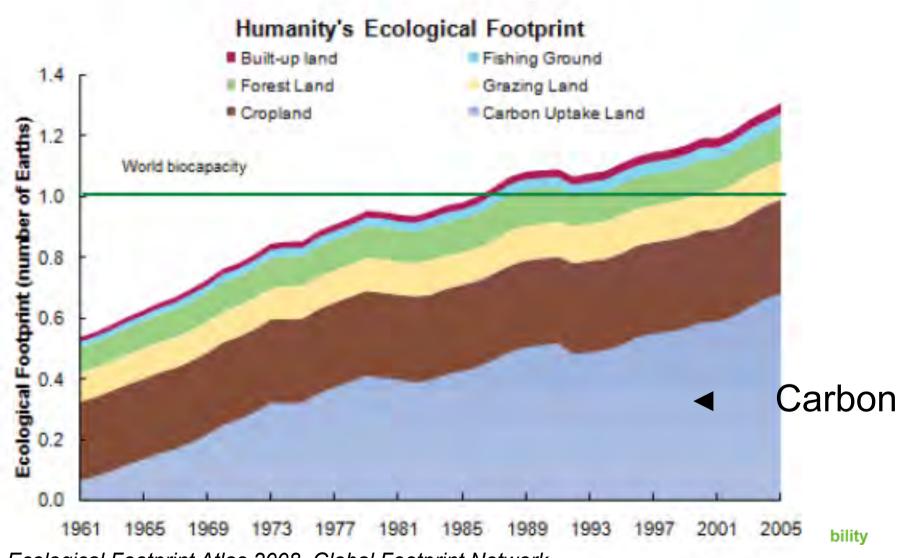
This afternoon

- BioRegional approach to communicating and delivering sustainability
- Case studies of sustainable living
- Policies to scale?



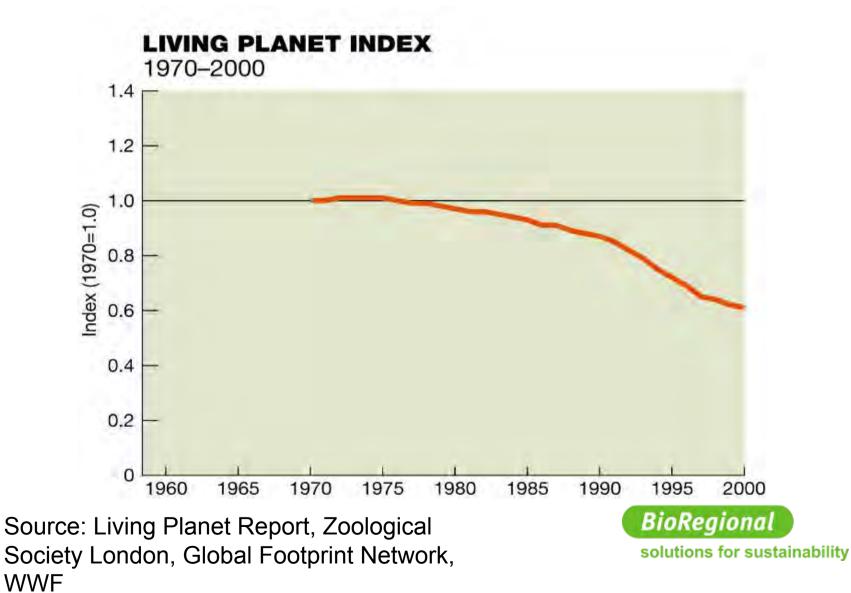


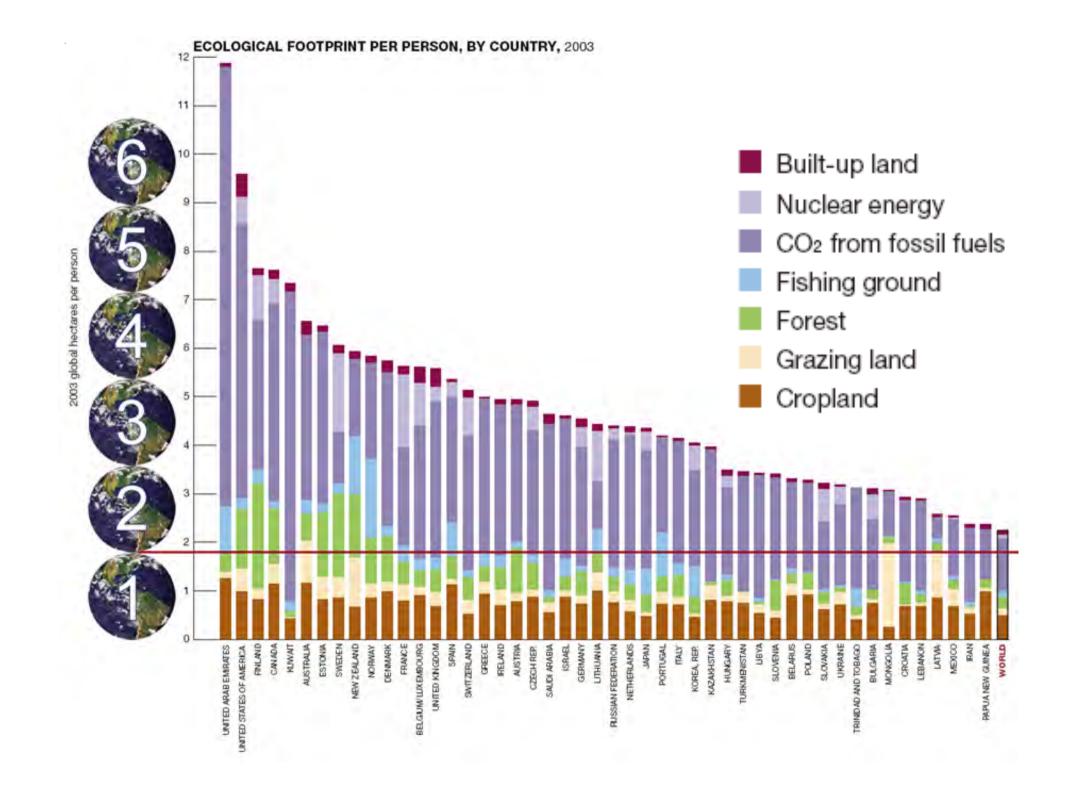
The Challenge - Ecological Footprint

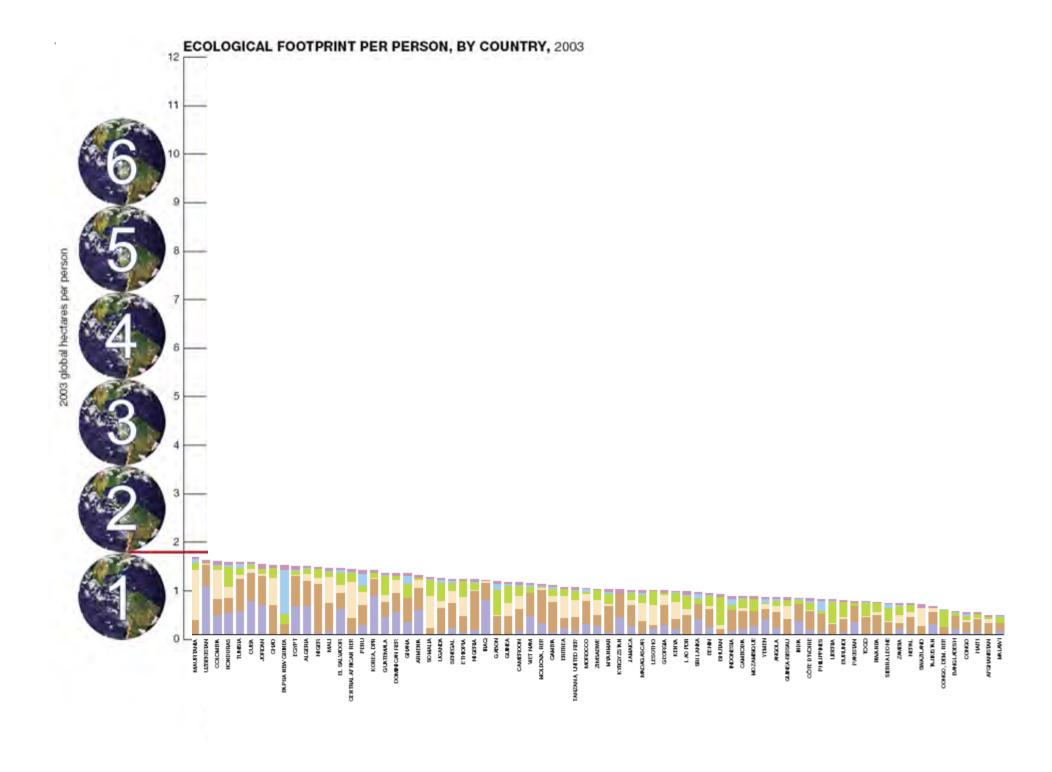


Ecological Footprint Atlas 2008, Global Footprint Network

The challenge - decline of Biodiversity

















BioRegional projects: one planet living is possible







BioRegional projects and companies

- Local Paper for London (93% EF)
- Local charcoal (85% transport CO2)
- BedZED eco-village (71% personal CO2)

 BioRegional

solutions for sustainability



BedZED Eco-village

Designing in sustainability at the start

- Zero carbon strategy
- Sustainable building materials
- Green Transport Plan
- Water strategy
- Composting & recycling
- Local sustainable food









Our approach to implementing sustainability

One planet living and ten principles

A simple, holistic concept & framework to communicate & implement sustainability

Developed by BioRegional from experience - scaleable, cross-sectoral Zero carbon
 Zero waste
 Sustainable transport
 Sustainable materials
 Local and sustainable food
 Sustainable water
 Land and wildlife
 Culture and heritage
 Equity and local economy

Health and happiness



Guiding approaches









- Measure and analyse <u>consumption</u> based impacts
- Truly sustainable targets
- What do people need? What resources do we have locally?
- Make it easy to do right thing & difficult to do the wrong thing
- Action Plan to implement using ten principles
- Do it yourself & enable clients/customers



Process: co-create & implement an Action Plan



Workshops - engaging stakeholders

Training - Project & staff using one planet living principles

Process naturally addresses issues e.g. costonal technical and delivers innovation

1. Zero carbon ..energy use in buildings

18%

Ecological footprint of average UK resident

23%

CO₂ emissions of average UK resident







2. Zero waste ... to landfill





Monitoring at BedZED showed;

- 60% recycling rate by weight (70% possible)
- 68% reduction in residual waste/person/yr; 104kgs (local average 324kg)
- 87% recycling at offices at BedZED



3. Sustainable Transport

15%

Ecological footprint of average UK resident

23%

CO₂ emissions of average UK resident

- Alternatives to private car; car club, public transport, cycling
- Planning to reduce road space & offer facilities
- Homes & office alternative to commuting
- Monitored 50- 65% reduction in car use at BedZED





4. Sustainable materials.. in construction

8%

Ecological footprint of average UK resident

8%

CO₂ emissions of average UK resident





- 83% of all timber reclaimed or FSC certified
- 52% of materials sourced within 35 mile radius
- 3404 tons from reclaimed & recycled sources BioRegional



solutions for sustainability

4. Sustainable materials.. consumer goods

Ecological footprint of average UK resident

CO₂ emissions of average UK resident

13%

-Culture of re-use and tool sharing

- Sustainable products





5. Local and Sustainable Food

Ecological footprint of average UK resident

23%

CO₂ emissions of average UK resident

8%



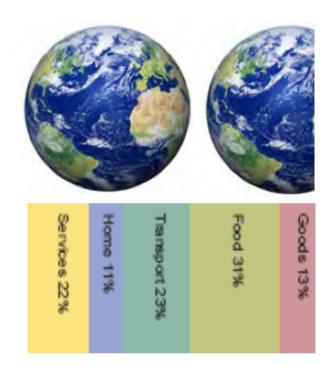




Zero carbon	making buildings more energy efficient and delivering all energy with renewable technologies
Zero waste	reducing waste arisings, reusing where possible, and ultimately sending zero waste to landfill
Sustainable transport	encouraging low carbon modes of transport to reduce emissions, reducing the need to travel
Sustainable materials	using sustainable products that have a low embodied energy
Local and sustainable food	choosing low impact, local, seasonal and organic diets and reducing food waste
Sustainable water	using water more efficiently; tackling local flooding and water course pollution
Land use and wildlife	protecting and expanding old habitats and creating new space for wildlife
Culture and heritage	reviving local identity and wisdom; supporting and participating in the arts
Equity and local economy	inclusive, empowering workplaces with equitable pay; support for local communities and fair trade
Health and happiness	encouraging active, sociable, meaningful lives to promote good health and well being

BioRegional Solutions - BedZED ecovillage





Nicole's eco-footprint is 1.7 planets and her carbon footprint is 6 tonnes per year



Carbon Savings @ BedZED:

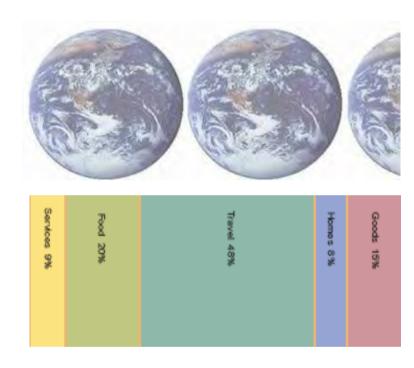
5.1 tons CO2 per person p.a.

- 50% building design and renewable energy :
 - biomass CHP
 - PV
 - in building efficiency/passive solar
- 44% of total carbon savings in *lifestyles*:
 - Transport
 - Waste
 - Food

Lifestyles are as important as green buildings

BedZED – importance of lifestyle choices





Steve's Eco-Footprint is 2.3 planets and his carbon footprint is 7.6 tonnes per year



Breakdown of average UK residents impact



Ecological Footprint of average UK resident: 5.45 Gha

Housing	Home energy	Transport	Food	Consumer goods	Gov't.	Business	Capital
8%	18%	15%	23%	14%	7%	9%	6%

CO₂ emissions (including embodied CO₂) of average UK resident: 11.87 tonnes

Housing	Home energy	Transport	Food	Consumer goods	Gov't.	Business	Capital assets
8%	23%	23%	8%	13%	8%	10%	7%

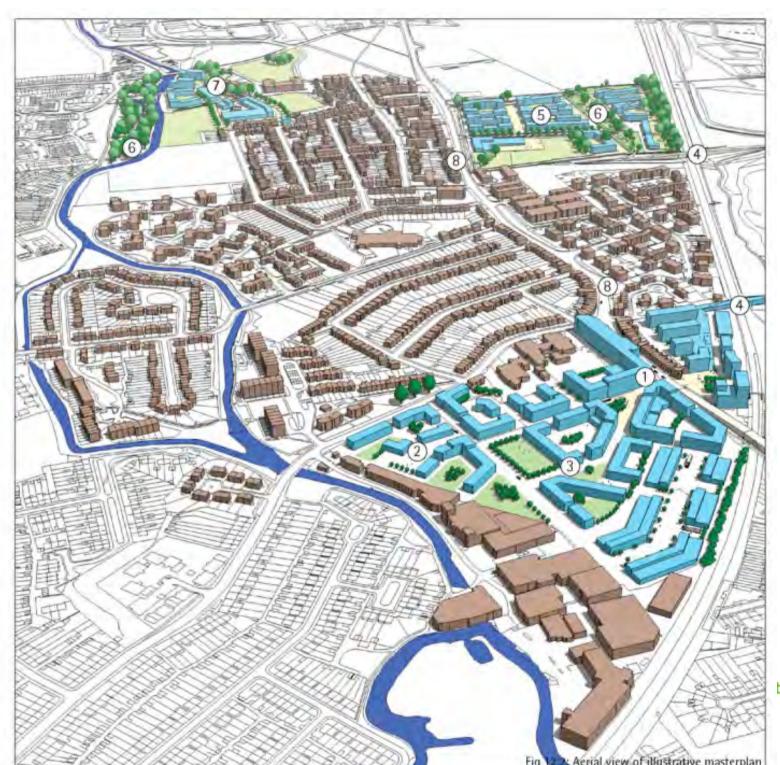
Figures derived from REAP by BioRegional "What makes an eco-town" BioRegional & CABE Sept 2008

BioRegional solutions for sustainability

Ref:









Projects and initiatives underway







One Planet Communities



one brighton

one planet one address

170 apartments -Built within normal range of build costs

BioRegionalQuintain



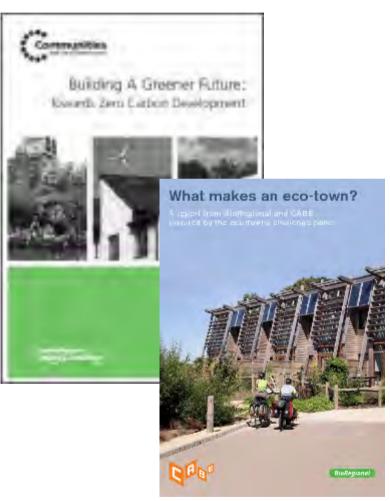
One Planet Living around the world



Real examples can change policy & practice







BioRegional solutions for sustainability

Our Rio+20 Proposals





Globally, we want to achieve one planet living by 2030, and this campaign will contribute to that through simple aims:

- That the Rio+20 treaty and policy outcomes include solutions to overcome the barriers to one planet living.
- That during the Rio+20 process 40 countries from both the global south and north commit to producing a roadmap to enable their citizens to achieve one planet living by 2030.



Proposal: At Rio+20 UN and civil social soci

- 1. Positive Vision of future a world where we live happy, healthy lives within our fair share of the World's resources, wherever we live in the world, leaving space for wildlife & wilderness;
- 2. Roadmaps & Sustainable Development Goals & indicators simple common language for sustainability, global to local
- 3. Support and Guidance
 - i) Resources Panels ii) Solutions Bank iii) Education &training

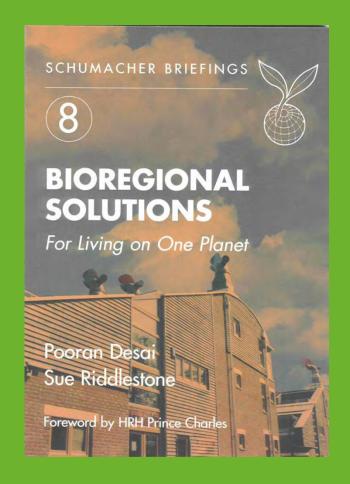
solutions for sustainability

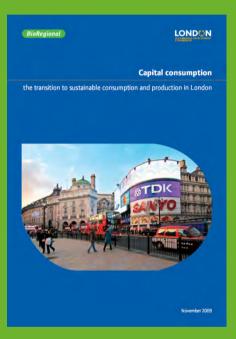
- 4. Enable & Remove barriers through policy & regulation
 - Renewable energy
 - Human settlement & urbanisation
 - Circular economies

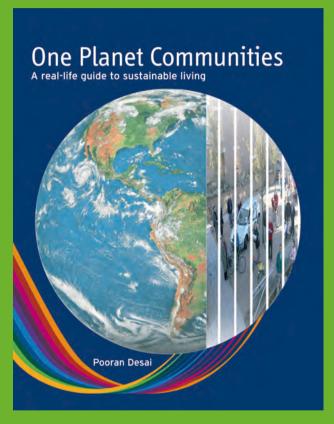
Policy Proposal for Rio+20 (2)



- 4. Enable & Remove barriers through policy & regulation
 - Renewable energy –grid connection; ownership; carbon price; remove subsidy for fossil fuels; Feed in Tariffs;
 - Human settlement & urbanisation Planning policies to promote walk-able & cycle-able cities;
 - Circular economies incentives towards circular resource efficient and zero waste economies;
 - Biodiversity and natural capital agreements and financial and regulatory mechanisms;
 - Economic & Monetary Policies expert UN Economic & Monetary Panel; supranational reporting & enforcement mechanisms under the IMF; treaties to avoid liquidity & capital flow crises; local currencies







www.bioregional.com

