



How can we live well  
within natural limits?  
Case studies of  
one planet living

Sue Riddlestone OBE  
CEO & co-founder, Bioregional

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# Introducing Bioregional



Bioregional champions a better, more sustainable way to live.

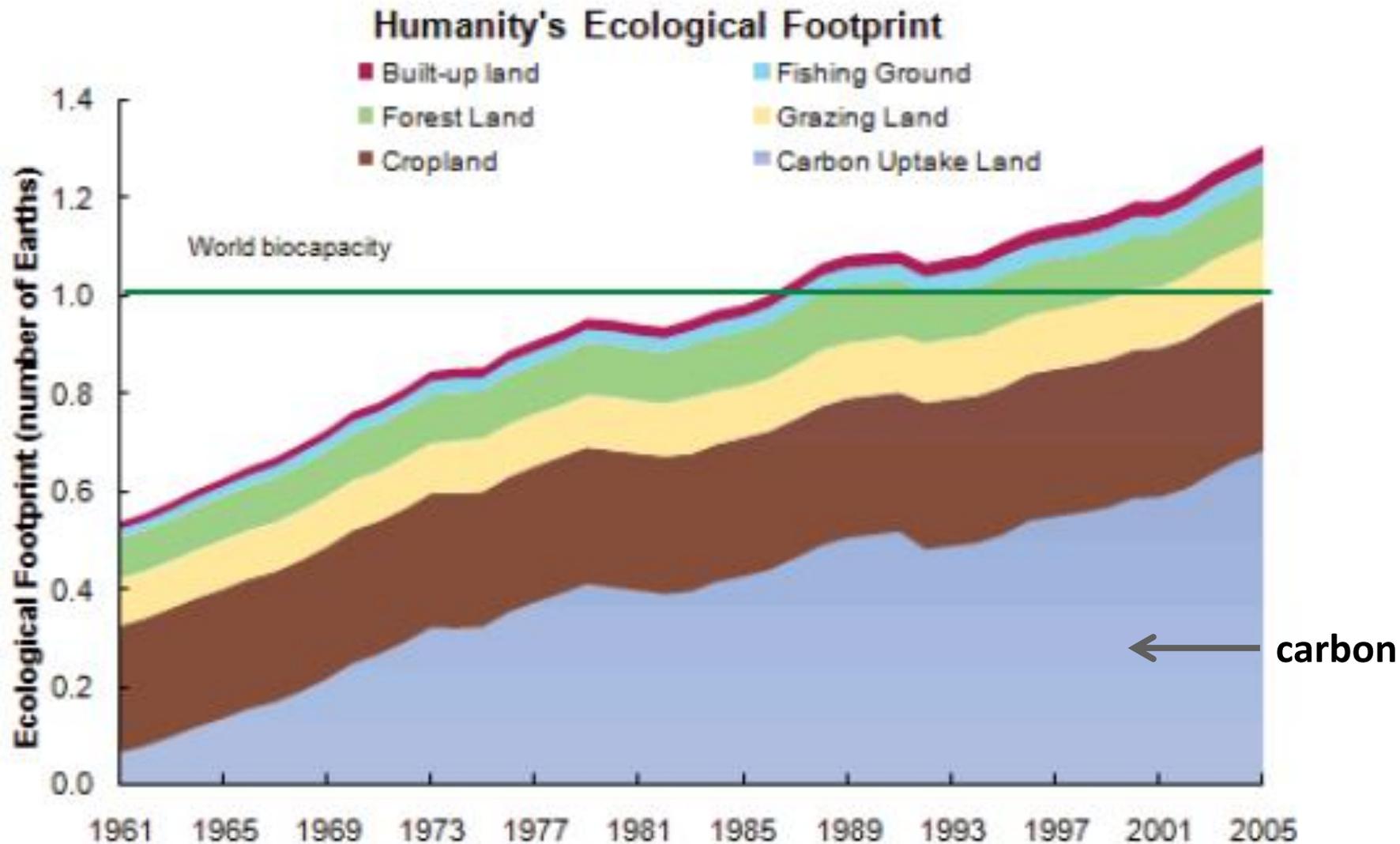
We work with others to create places and products which enable people to live within the natural limits of the planet. We call this One Planet Living.

Registered Charity with offices in London, Oxford, Brighton, New York  
Sister Organisations in Ottawa, Durban, Mexico, Melbourne

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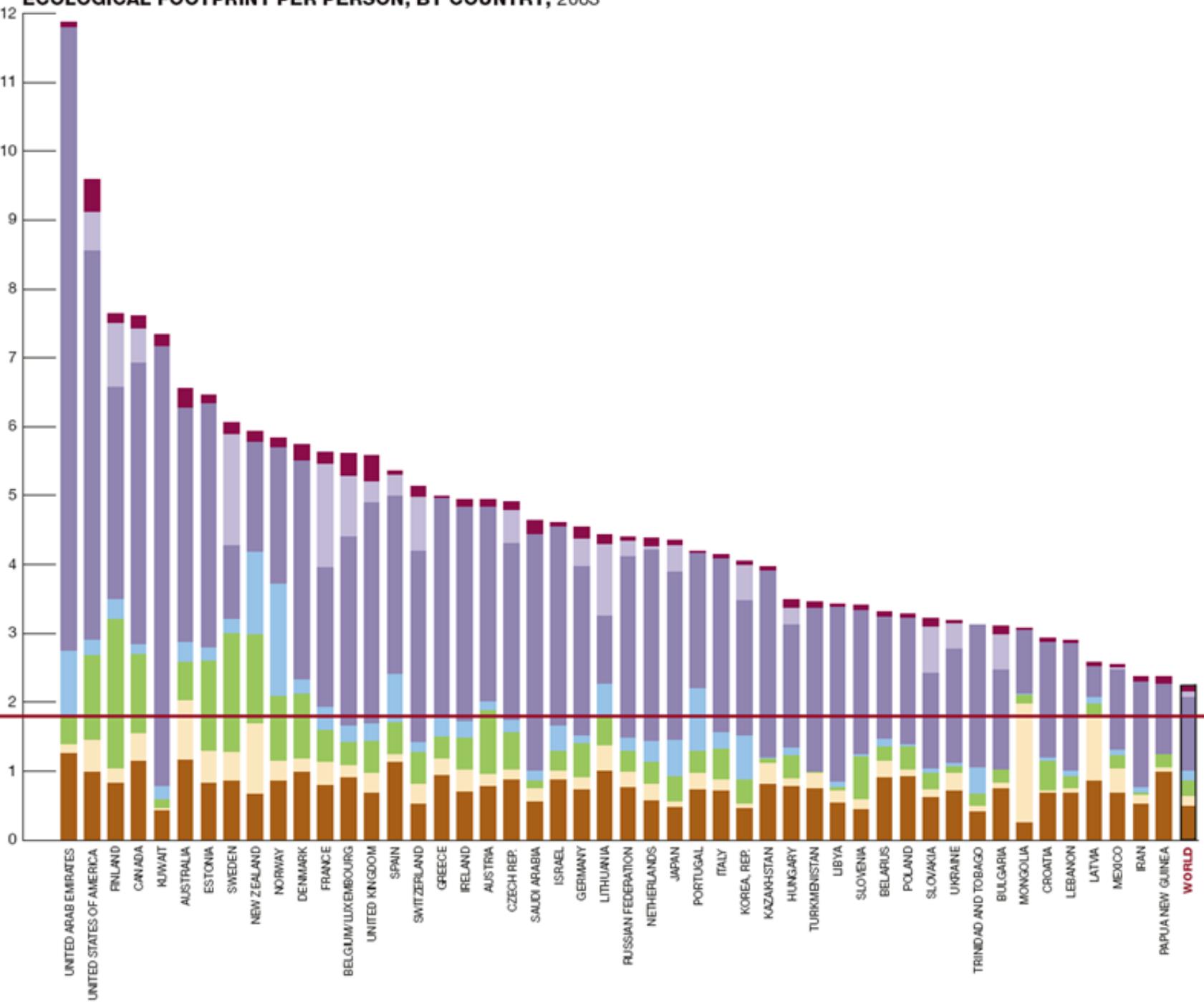
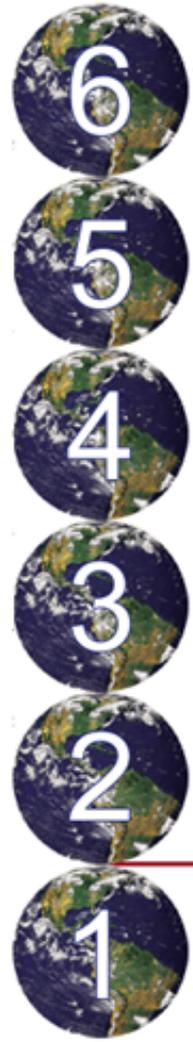
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# The consumption challenge



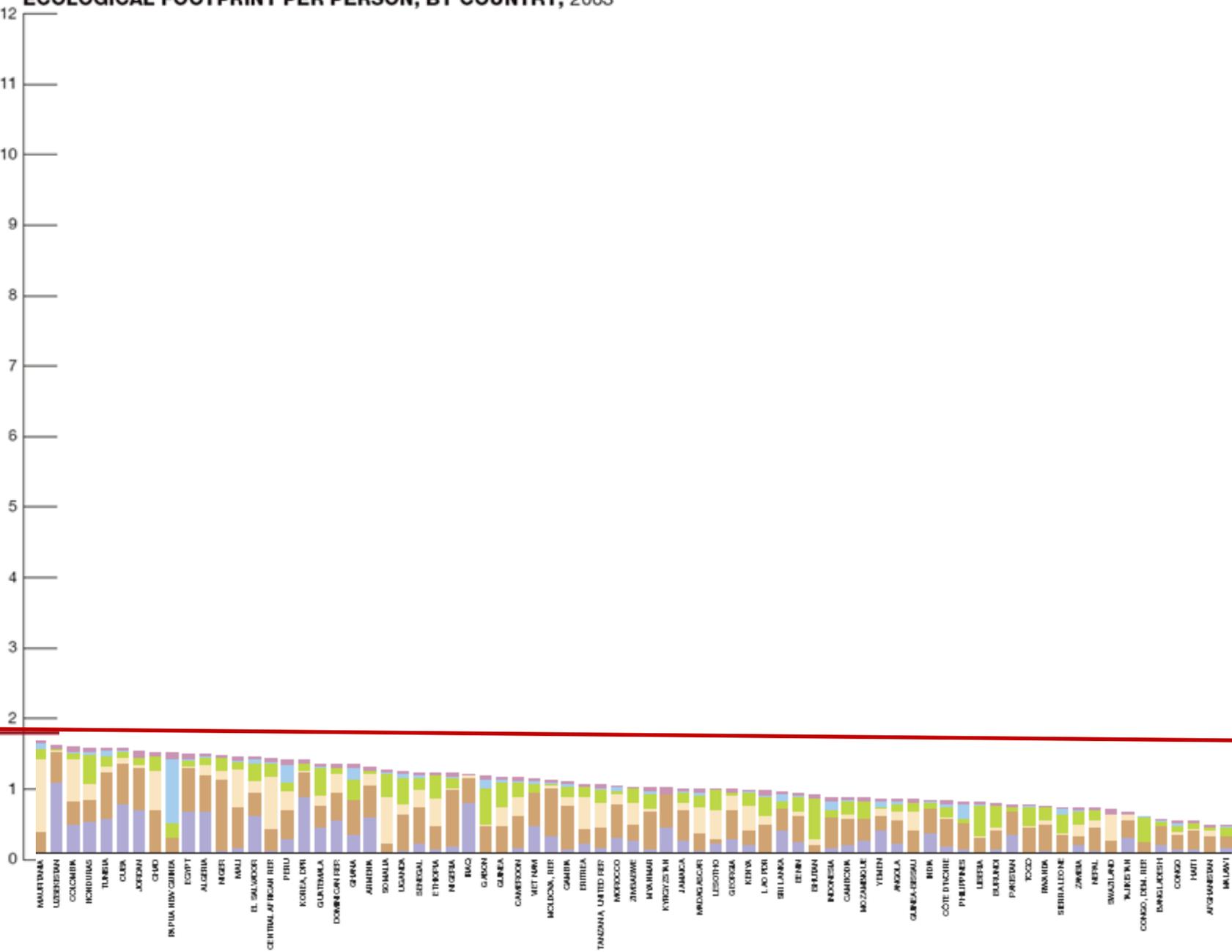
ECOLOGICAL FOOTPRINT PER PERSON, BY COUNTRY, 2003

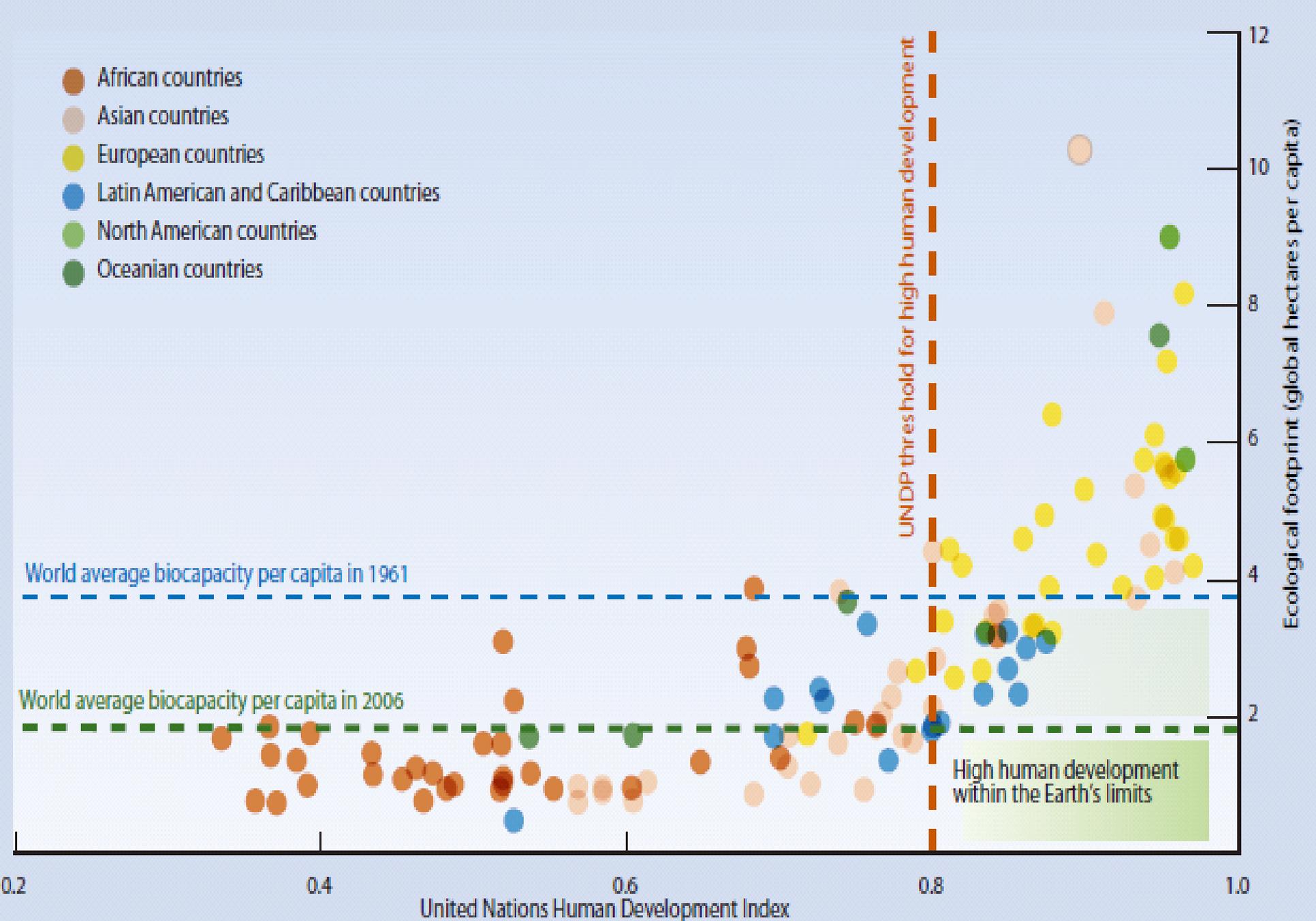
2003 global hectares per person



# ECOLOGICAL FOOTPRINT PER PERSON, BY COUNTRY, 2003

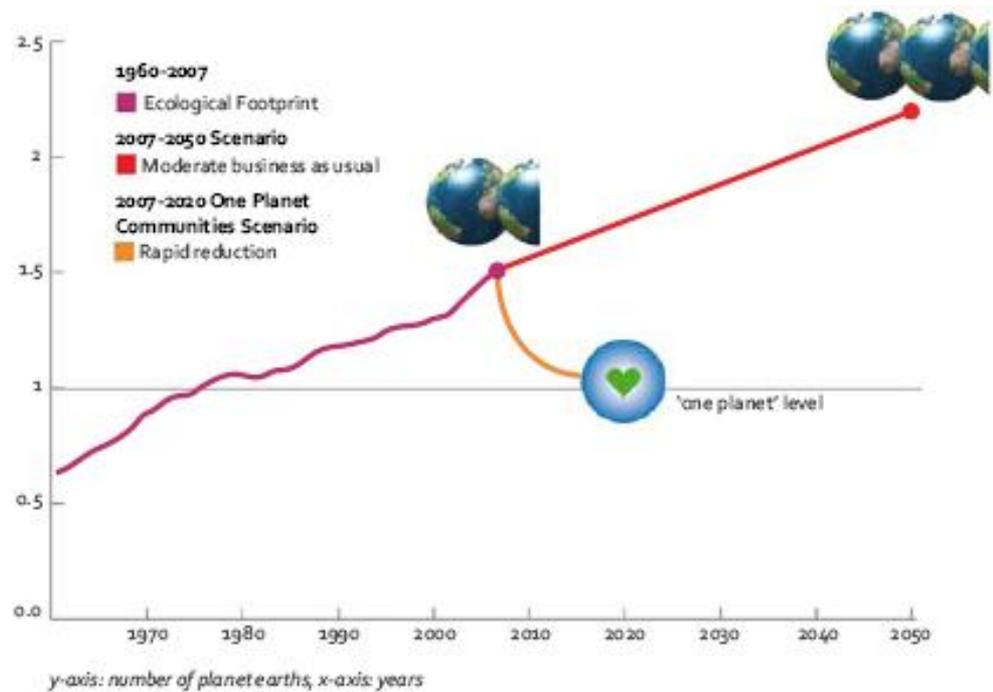
2003 global hectares per person





Source: Global Footprint Network (2010); UNDP (2009)

# We all need one planet living



A world where we can live happy, healthy lives within natural limits and our fair share of the world's resources, leaving space for wildlife and wilderness.

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# Good living for 7 billion within limits is possible



BedZED eco-village 71% lower personal CO<sub>2</sub>

Local charcoal 85% cut in transport CO<sub>2</sub>

Recycled paper loop 93% lower eco-footprint

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# Average Ecological Footprint in UK



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# BedZED eco-village

## Designing in sustainability at the start

- zero carbon energy strategy
- sustainable building materials
- green transport plan
- water strategy
- composting and recycling
- local and sustainable food
- culture and heritage



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Make it easy to do the right thing...

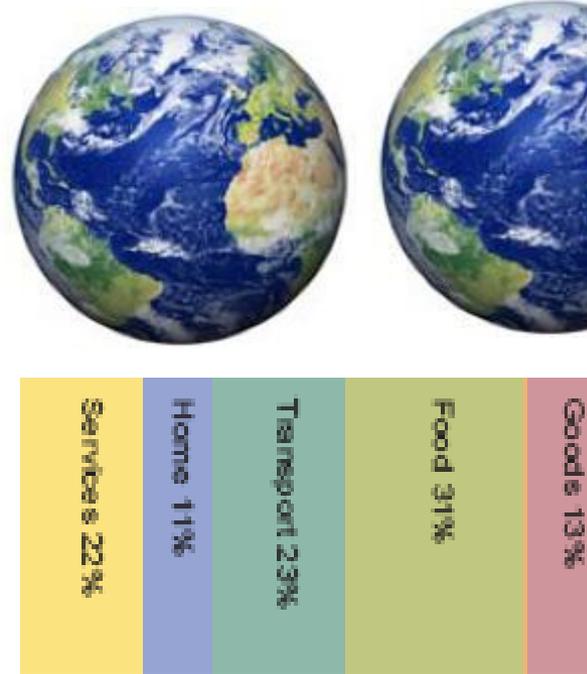


....difficult to do the wrong thing....

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# One planet living at BedZED?



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

# Achieving one planet living – differing responsibilities



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***"Nice community spirit, non-isolating"***

***"Social side is spectacularly good"***

# Ten principles of One Planet Living

- 1 Zero carbon
- 2 Zero waste
- 3 Sustainable transport
- 4 Sustainable materials
- 5 Local and sustainable food
- 6 Sustainable water
- 7 Land use and wildlife
- 8 Culture and community
- 9 Equity and local economy
- 10 Health and happiness

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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

# One Planet Living - process

## 1. Gather information



## 2. Workshops-Action Plan



- 1 Zero carbon
- 2 Zero waste
- 3 Sustainable transport
- 4 Sustainable materials
- 5 Local and sustainable food
- 6 Sustainable water
- 7 Land use and wildlife
- 8 Culture and community
- 9 Equity and local economy
- 10 Health and happiness

## 3. Implementation & share your progress annually



### Zero carbon

Performance against targets	
✓✓	Reduce energy use in line with CO <sub>2</sub> reduction target of 20% by 2012
✓	New stores zero carbon by 2012
✓	Zero carbon across existing estate by 2013 in line with 50% target

**Key activities and achievements in 2010**

- ▶ Invested £2.3 million in lighting upgrades for 39 stores.
- ▶ Absolute reduction in CO<sub>2</sub> from store energy use of 11% compared to the 2006 baseline.
- ▶ Played a leading role in the provision of support to government to develop the Green Deal following the successful PAVS pilot with the London Borough of Sutton.

**Plans for 2011**

- ▶ Trial measures to reduce heat loss for example building lobbies onto existing stores and thereby reducing gas consumption.
- ▶ Further investment in lighting upgrades with £2.5m already approved to spend on lighting upgrades in 25 stores including installing energy efficient lighting and new lighting controls.
- ▶ Develop concept for zero carbon stores and identify suitable offsite renewable energy supply that could be secured to meet any residual demand.



**London 2012 Olympic and Paralympic Games**

*London 2012*



**One Brighton, UK**

*Crest Nicholson  
BioRegional Quintain*



**Masdar City, Abu Dhabi**

*Mubadala*



**The Hills, Guangzhou, China**

*China Merchants Property Development*



**BedZED, UK**

*Peabody / BioRegional*



**One Planet Sutton, UK**

*London Borough of Sutton*



**One Planet Middlesbrough, UK**

*Middlesbrough Council*



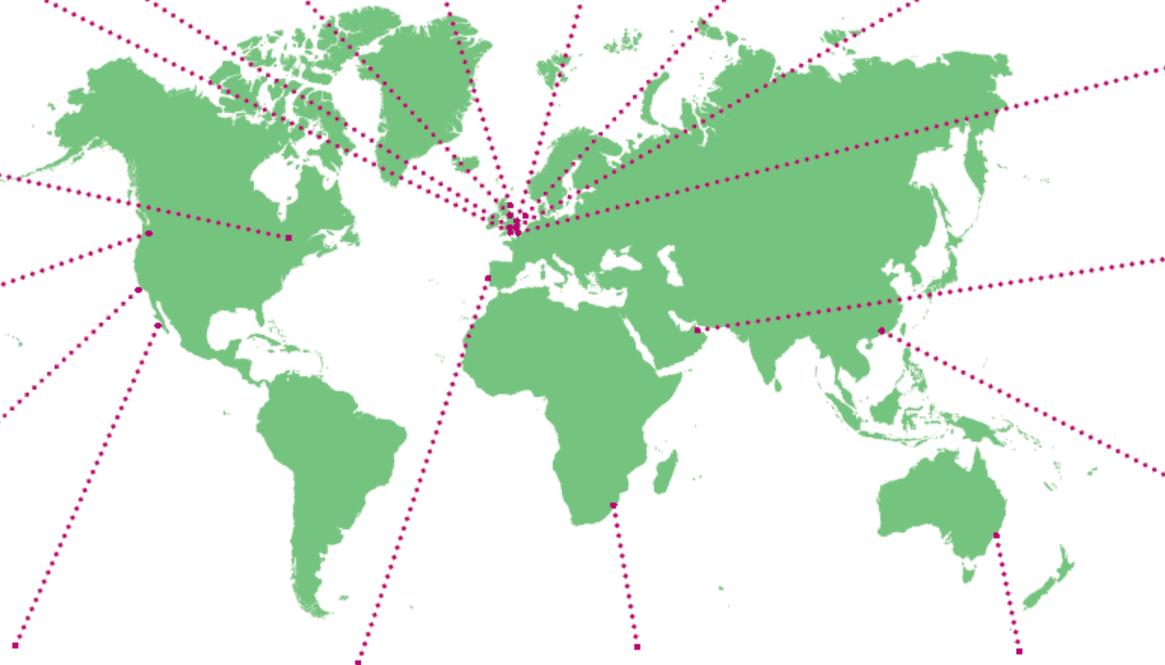
**Riverside One, UK**

*BioRegional Quintain*



**North West Bicester, UK**

*A2 Dominion*



**Barangaroo, Australia**

*Barangaroo Delivery Authority /  
Lend Lease*



**Ivory Park / Sibaya, South Africa**

*Johannesburg EcoCity Trust /  
Tongaat Hulett Developments*



**Mata de Sesimbra, Portugal**

*Pelicano*



**Imbera**

*Queretaro, Mexico*



**Sonoma Mountain Village, USA**

*Coding Enterprises*



**Grow Community  
Bainbridge Island, USA**

*Asani*



**Petite Rivière, Canada**

*Groupe Pacific*



**B&Q One Planet Home, UK**

*B&Q plc*

# From BedZED to One Planet Living in our borough - Sutton



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Look  
out

KEU

NI85H

# Creating our Action Plan



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# Implementing our Action Plan

## From saving energy.....



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# ...to our community farm



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# One Planet Living in Brighton



# Bicester eco-town enabling one planet living



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# Modelling living within limits in London

64 measures for a 90% reduction in Londoners consumption based carbon emissions. Led to PAS 2070 for cities

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LONDON  
SUSTAINABLE DEVELOPMENT  
COMMISSION

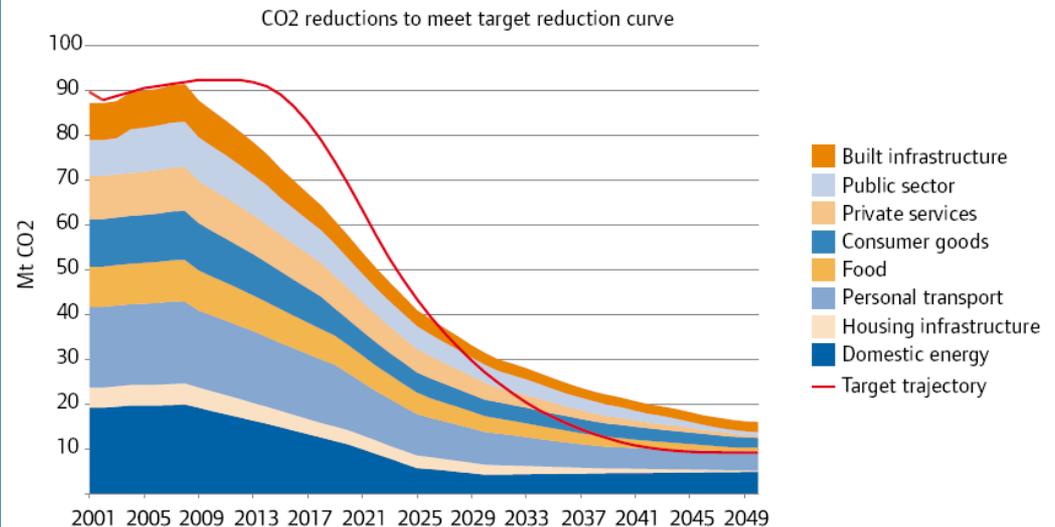
## Capital consumption

the transition to sustainable consumption and production in London



November 2009

Combined carbon emissions reductions needed to meet carbon budget



London 2012  
Sustainability Plan  
2nd Edition December 2009



# Towards a one planet 2012



**RECYCLED  
PLASTIC**  
LOFT INSULATION  
TOTALLY ITCH FREE  
EASY TEAR

R-VALUE 3.00  
LOW HIGH

**1/2 PRICE**  
Rolled  
Loft  
Insulation



**ONE  
PLANET  
HOME**

Use thermostatic  
controls to fine tune  
your home's heating  
and reduce fuel bills.



**RECYCLED  
PLASTIC**  
LOFT INSULATION



# B&Q -helping customers achieve one planet living



Products which can reduce an individual's eco-footprint

- ❖ Energy efficiency and renewables
- ❖ Water efficiency
- ❖ Grow your own
- ❖ Lower impact goods

Potential for 10% eco-footprint reduction of customer

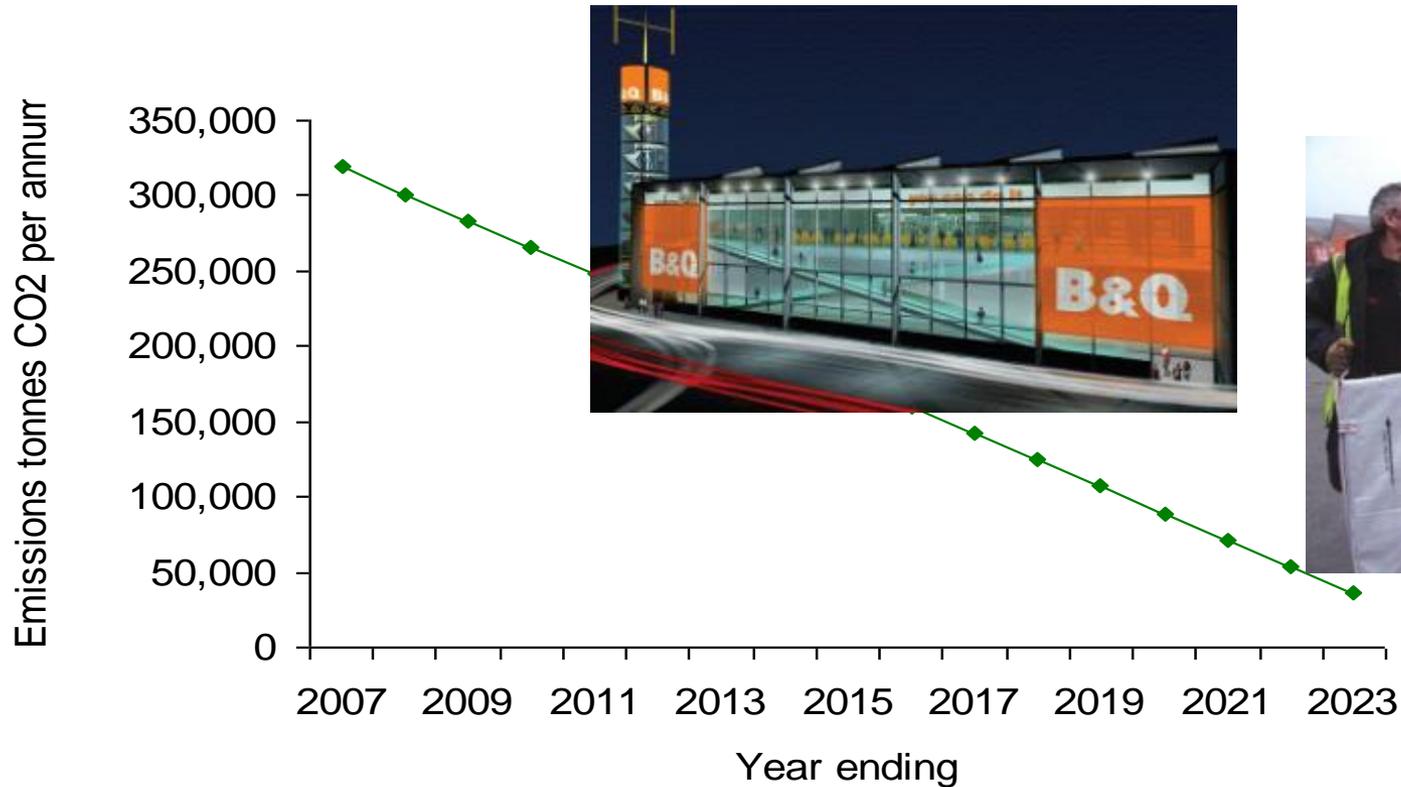


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# B&Q – One Planet Company

Trajectory for 90% reduction by 2023



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One Planet Principle	Short Term - By End September			By End 2013			What
	What	Who	When	What	Who	When	
Zero carbon	Install power consumption monitoring equipment in all lodges	AK	Sep-13	Install 4 x solar water heaters - location to be confirmed - Sabayaya or Makundusi BOH	AK	Dec-13	Obtain a quotation for a Battery Management System (BMS) for 900Ah
	Install energy efficient lightbulbs throughout BoH - Sabayaya, Lawatu, Security Point, Makundusi, Lodge BOH Areas (SL, SP, FF, SH) - <b>meters to be installed first so as to accurately measure the impact of the energy efficient bulbs</b>	AK	Sep-13	Installation of light and motion sensors in key areas	AK	Dec-13	Obtain quotation for a Battery Management System (BMS) for 900Ah
				Inventory of all bulbs FOH (to plan future strategy for energy efficient bulbs FOH that do not impact negatively on the aesthetics of the lodges) - alternatives to be agreed with Style & Design - OP to meet with S&D on site in October 2013	Lodge Mgrs	Oct-13	Obtain quotation for a Battery Management System (BMS) for 900Ah
				Trial solar lanterns as alternative to kerosene - trial to take place at Sabora	WO	Sep-13	Obtain quotation for a Battery Management System (BMS) for 900Ah
				Specific staff training - junior staff	BKB, SK	Nov-13	Obtain quotation for a Battery Management System (BMS) for 900Ah
				Review of job descriptions to include key tasks	BKB, SK, SW	Nov-13	Obtain quotation for a Battery Management System (BMS) for 900Ah
						Obtain quotation for a Battery Management System (BMS) for 900Ah	
Zero Waste	Waste management system upgrade (all Lodges and staff camps)	AZ	Sep-13	Installation of the water filtration/glass bottling system at Sasakwa	JT	Nov-13	Budget for additional water filtration system
				Investigate recycling options for outstanding categories (tin)	MR, BKB	Nov-13	
				Food waste initiative	FL		
				Installation of the biodigesters (budget approved for purchase and freight of 2 biodigesters for 2013)	AZ	Nov-13	
				Reintroduce the system of signing up for meals at Sabayaya and Makundusi	SW, TR	Dec-13	
				Investigate alternatives to plastic in guest picnic packs	BKB, FL		
				Education and training - staff and guests	BKB		
				Driver training (already in place but to be more specific and focused)	Transport Mgr	Nov-13	Hides for game viewing - investigate possibilities
				Vehicle fleet analysis (already happening but step up engagement)	Transport Mgr and HODs	Nov-13	Obtain quotation for a Battery Management System (BMS) for 900Ah
Sustainable Transport				Investigate most efficient airlines	BDG	Dec-13	
				Analysis of flight logistics	BKB	Dec-13	
				Tourism programme - reduction of reliance on vehicles, guest engagement in other options	JT	Nov-13	
Sustainable Materials	Rehabilitation of murrum pits	AA, CM	Sep-13	Ongoing rehabilitation of all murrum pits	AA, CM	Dec-13	
				Investigate eco-product cleaning alternatives	MR, BKB	Nov-13	
				Design options to reduce concrete - lodges and other new construction	BDG	Dec-13	
Local and Sustainable Food			Fish - sustainable options to be investigated	FL, BKB, BDG	Dec-13	Introduction of additional fish - farm programme	

# One Planet Living in the Favela?



# Nosso Manifesto para Um único planeta para se viver

Ladeira dos Tabajaras, Rio de Janeiro, Brasil



## 1. Por que um Manifesto?

Durante a Rio+20, alguns membros da nossa comunidade da Ladeira dos Tabajaras participaram de uma oficina de capacitação no Fórum de Empreendedorismo Social e a Nova Economia, 15-17 junho de 2012.

A oficina mostrou-nos como podemos criar um futuro em que é fácil para as pessoas em todos os lugares terem uma vida feliz e saudável com uma divisão equitativa dos recursos da terra - o que é chamado de "One Planet Living" (Um único planeta para se viver). Desenvolvido pela ONG britânica BioRegional, fomos treinados nos dez princípios do "One Planet Living", que nos deu uma maneira de pensar e agir em torno da melhoria da qualidade de vida das pessoas em nossa comunidade. Os dez princípios são:

-  Energia sustentável
-  Resíduos e reciclagem
-  Transporte sustentável
-  Materiais sustentáveis
-  Alimentos locais e sustentáveis
-  Uso sustentável da água
-  Uso da terra e vida selvagem
-  Cultura e comunidade
-  Justiça e economia local
-  Saúde e felicidade

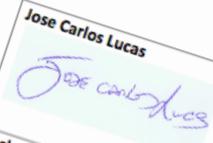
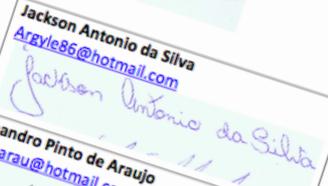
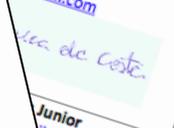
**Acreditamos** que uma comunidade forte e saudável é também sustentável, onde podemos criar empregos e oportunidades de trabalho para todos e ao mesmo tempo viver em harmonia com o ambiente de que todos nós dependemos.

A oficina de treinamento foi desenvolvida pela BioRegional com o apoio da Fundação Roberto Marinho e do SEBRAE.

Este é o nosso Manifesto para um único planeta para se viver, e queremos trabalhar de forma positiva, ativa e em cooperação com parceiros públicos, privados e outros para ajudar a torná-lo realidade em nossa comunidade.

**Data:** X **Julho 2012**

**Assinaram:**

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# UN Sustainable Development Goals



**BioRegional**  
solutions for sustainability

**Securing a sustainable and equitable future through One Planet Living**

**RIO+20**  
United Nations  
Conference on  
Sustainable  
Development

**ONE PLANET LIVING**

**One planet living - a practical solution**

One planet living is a positive vision of a world in which we are living happy, healthy lives within the natural limits of the planet - wherever we live in the world - having left sufficient space for wildlife and wilderness. At BioRegional we know that one planet living is possible.

Working with partners we've developed inspiring, real life examples of sustainable communities and businesses which show one planet living in practice. From this experience we've developed a simple approach and sustainability framework based on ten principles, which enables others to implement one planet living.

**An international framework**

The one planet living framework is being formally used in projects and initiatives in 12 countries: Australia, Canada, China, France, Greece, Ireland, Mexico, Portugal, South Africa, UK, United Arab Emirates and USA. An online toolkit, available since 2010, has been used in at least 40 other countries.

- Zero carbon
- Zero waste
- Sustainable transport
- Sustainable materials
- Local and sustainable food
- Sustainable water
- Land use and wildlife
- Culture and heritage
- Equity and local economy
- Health and happiness

*The ten principles of One Planet Living*

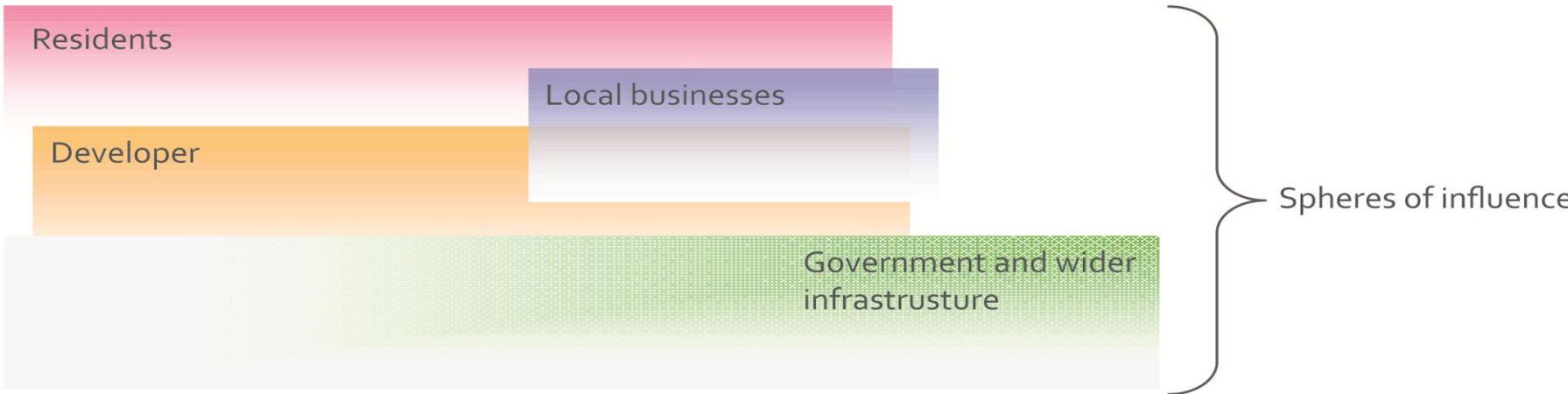
Globally, the rate at which we are consuming resources and pumping out pollutants is racing way ahead of the planet's ability to replenish or absorb them. To put this another way, we are now consuming the equivalent of 1.5 planets' worth of resources each year - whatever way you define sustainability, this is not it. The proof is all around us, from the impacts of climate change, disappearing forests, over-exploited fisheries and the loss of biodiversity on a massive, and rapid scale.

Around the world people consume at different rates. If everyone in the world lived like the average European we'd need three planets to support us and yet a citizen of Bangladesh only uses the equivalent of a third of a planet. We clearly need a more equitable spread of the world's natural resource use.

Three small images: a person in a field, a building with flags, and a person in a shop.

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# Living well within limits – a role for all of us



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