ONE PLANET LIVING

a joint initiative:

BioRegional

WWF

Overarching OPL Goal

To create **communities**
where it is **easy** for people
to live **happy and healthy** lives
within a **fair share** of the Earth's resources

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Aim of this first session

- Introduction to BioRegional
- How green to be sustainable? What is and isn't sustainable?
- Ecological footprinting as a tool
- "One Planet Living" Framework

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The Challenge

Kofi Annan, former UN Secretary General, 2001.

> *“Our biggest challenge this new century is to take an idea that seems abstract – sustainable development – and turn it into a reality for all the world’s people”*

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Need for clearer thinking

- If we put a few solar panels on a house, can we call it sustainable?
- How green to be sustainable?
- Ecological footprinting can give us quantifiable targets

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Origins of Eco-footprinting

human consumption - food, materials & energy

can be converted in areas of biologically active land required to produce them

Examples: Per annum

- 25 hectares of fishing grounds / tonne of fish
- 1.3 hectares of forest / m^3 timber
- 0.35 hectares forest / tonne CO_2 from fossil fuels

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Planet Earth's Productive Capacity

cropland	1.3	billion hectares
grazing land	4.6	"
forest	3.3	"
fishing grounds	3.2	"
built up areas	0.2	"
TOTAL	12.6	billion hectares

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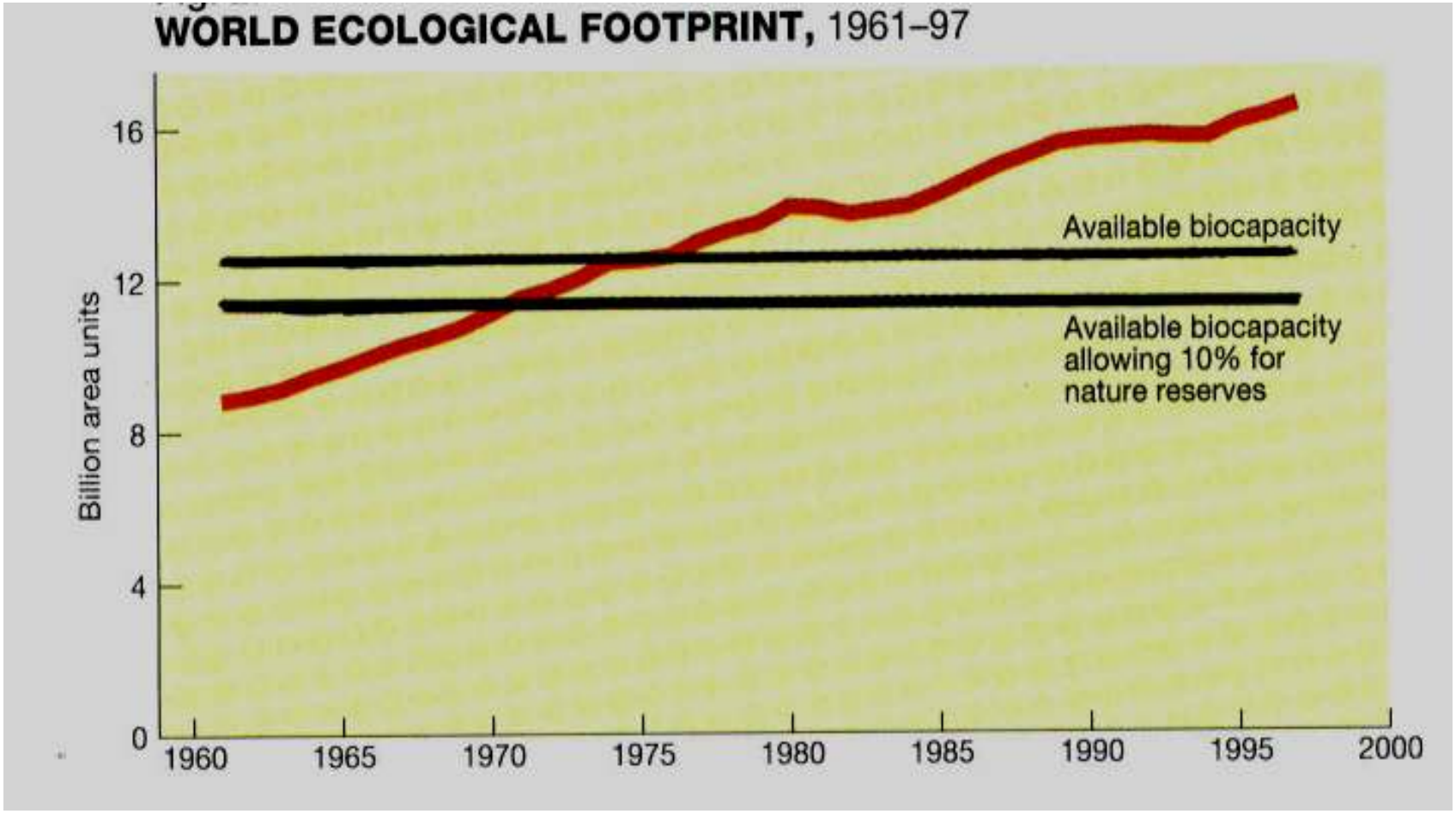
Global Biocapacity versus Consumption



Target for sustainability

- population of 6 billion
- fair share of Earth's resources - 1.9 ha

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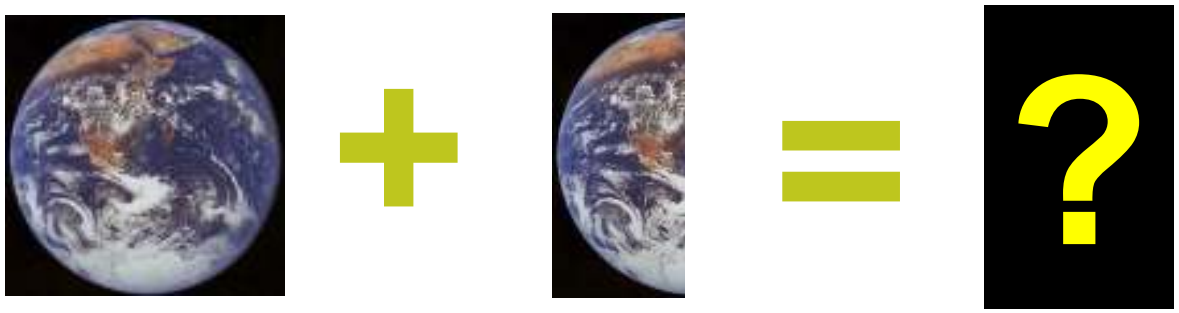
Bringing it home

- South Africa - 2.3 hectares per person

?



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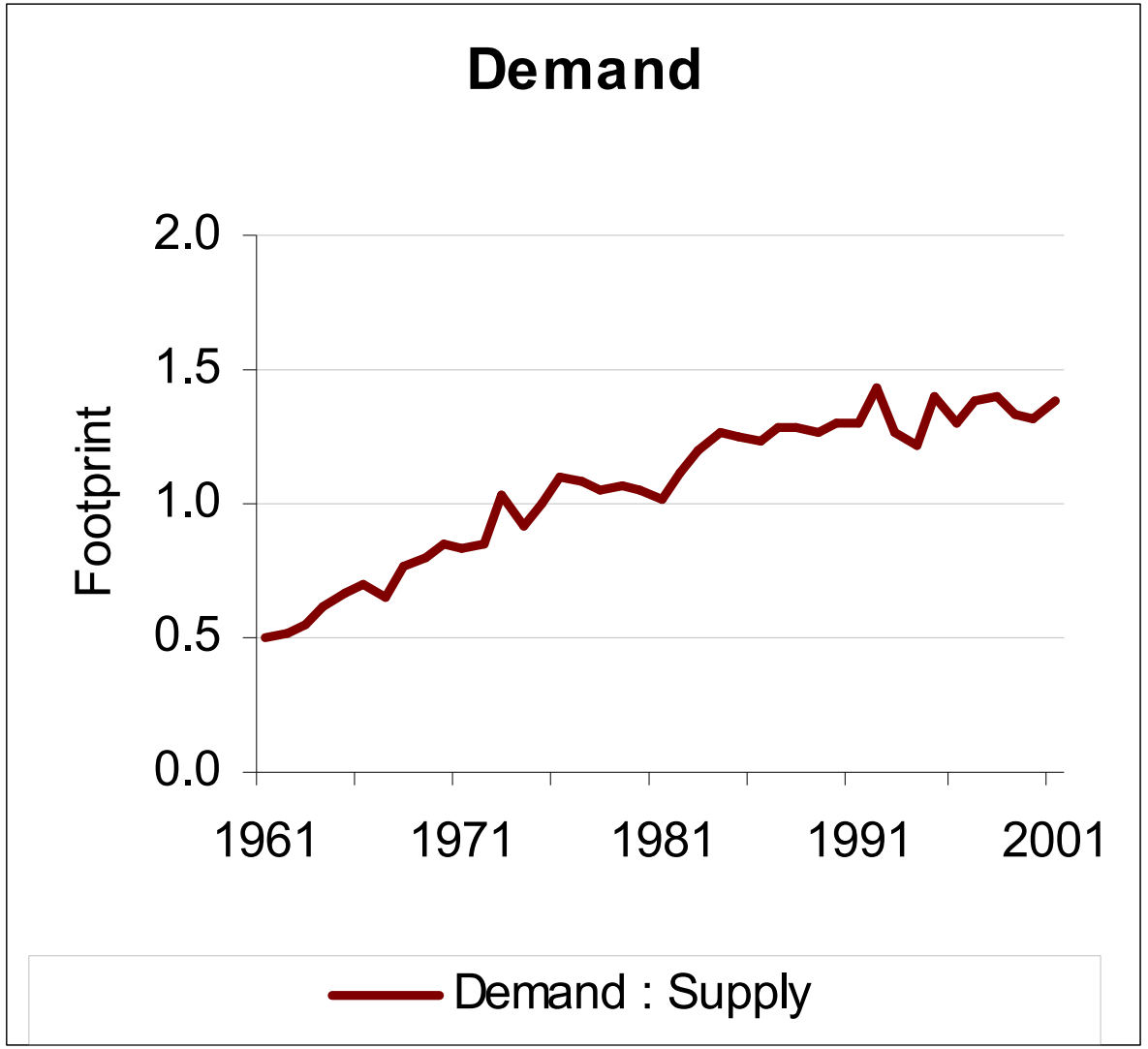
South Africa's Ecological Footprint



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South Africa's 2 Track Footprint

- Rich "5 planet lifestyle"
- Poor "0.25 planet lifestyle"

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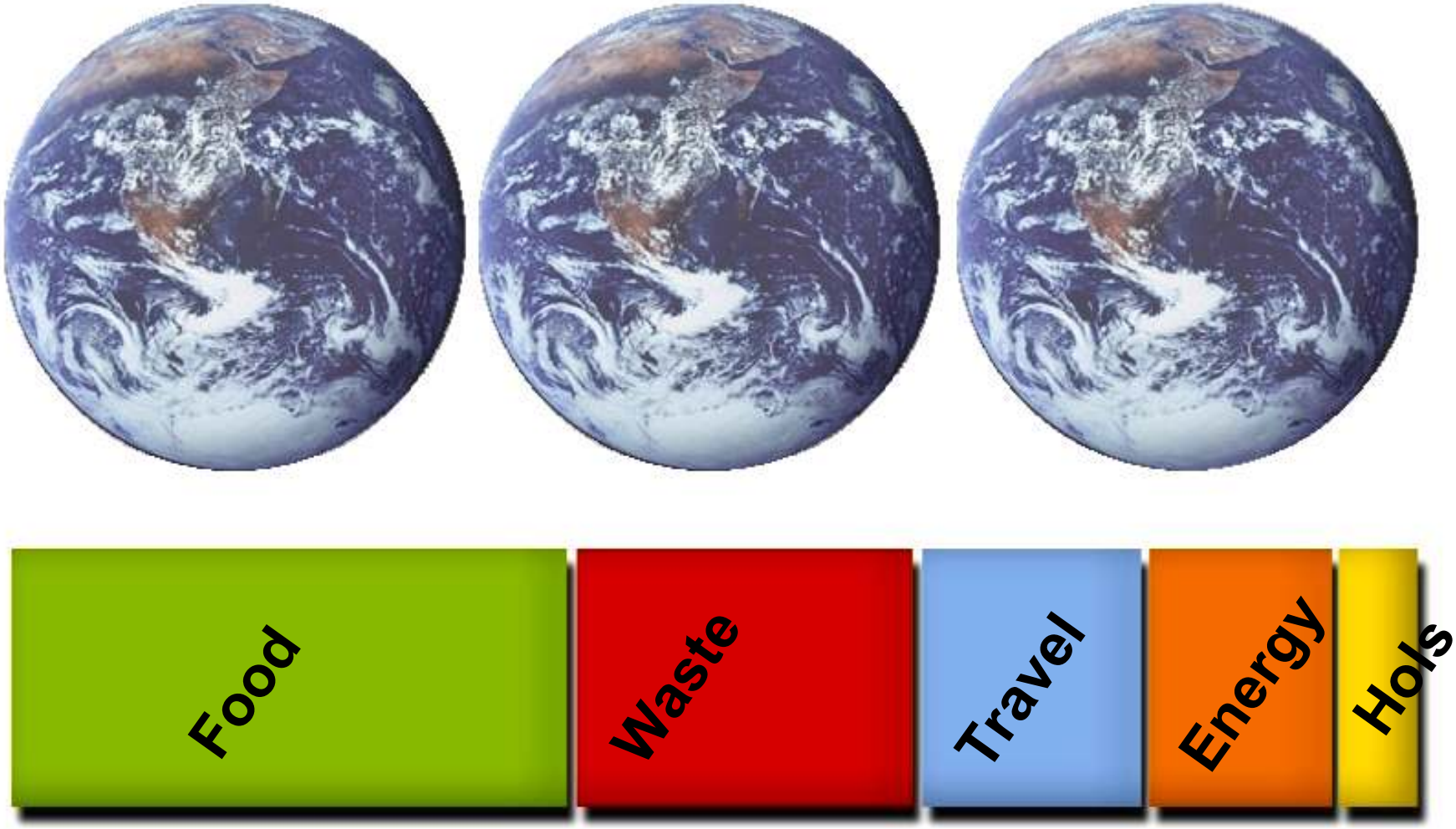
UK footprint



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BedZED - making it easy to reduce footprint

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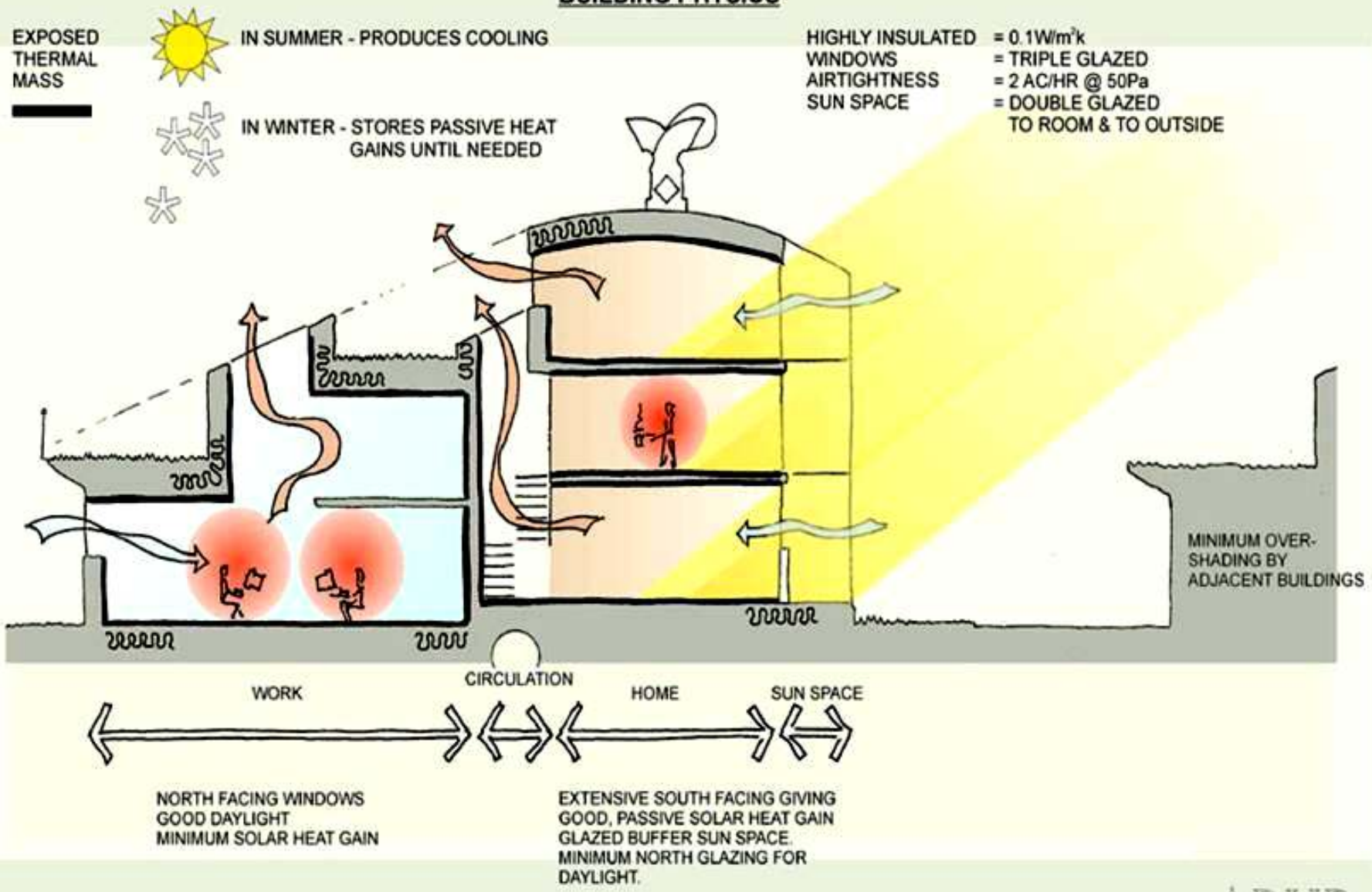
BUILDING PHYSICS



ARUP

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Solar Panels

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Biomass Fuel

- diverting 15000 tonnes/yr tree surgery waste from landfill

FSC

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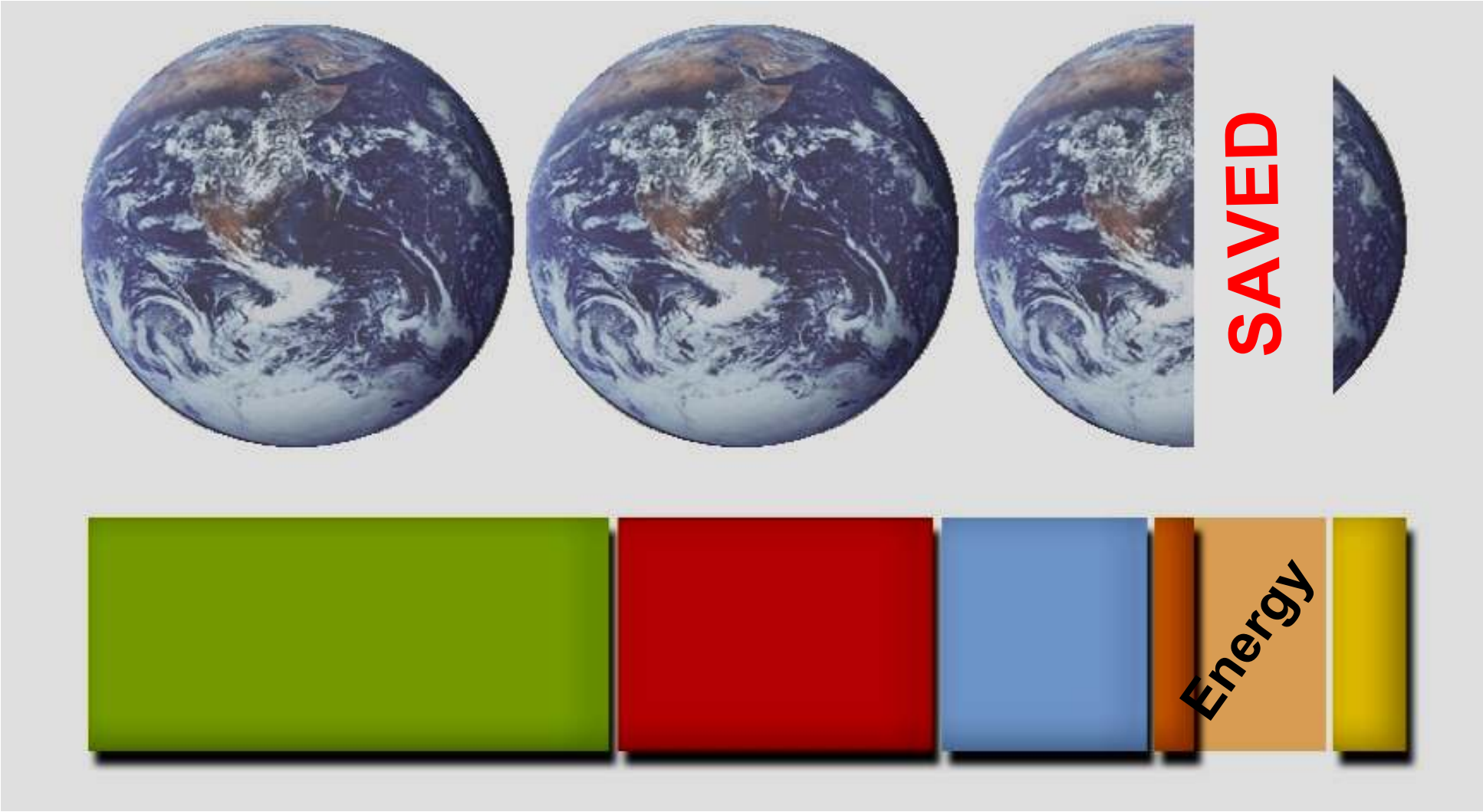
Energy Saving



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BioRegional/CityCarClubs

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easy Mobility

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Travel Saving

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Reclaimed materials

Segregated bins - easy Recycling

Waste Saving

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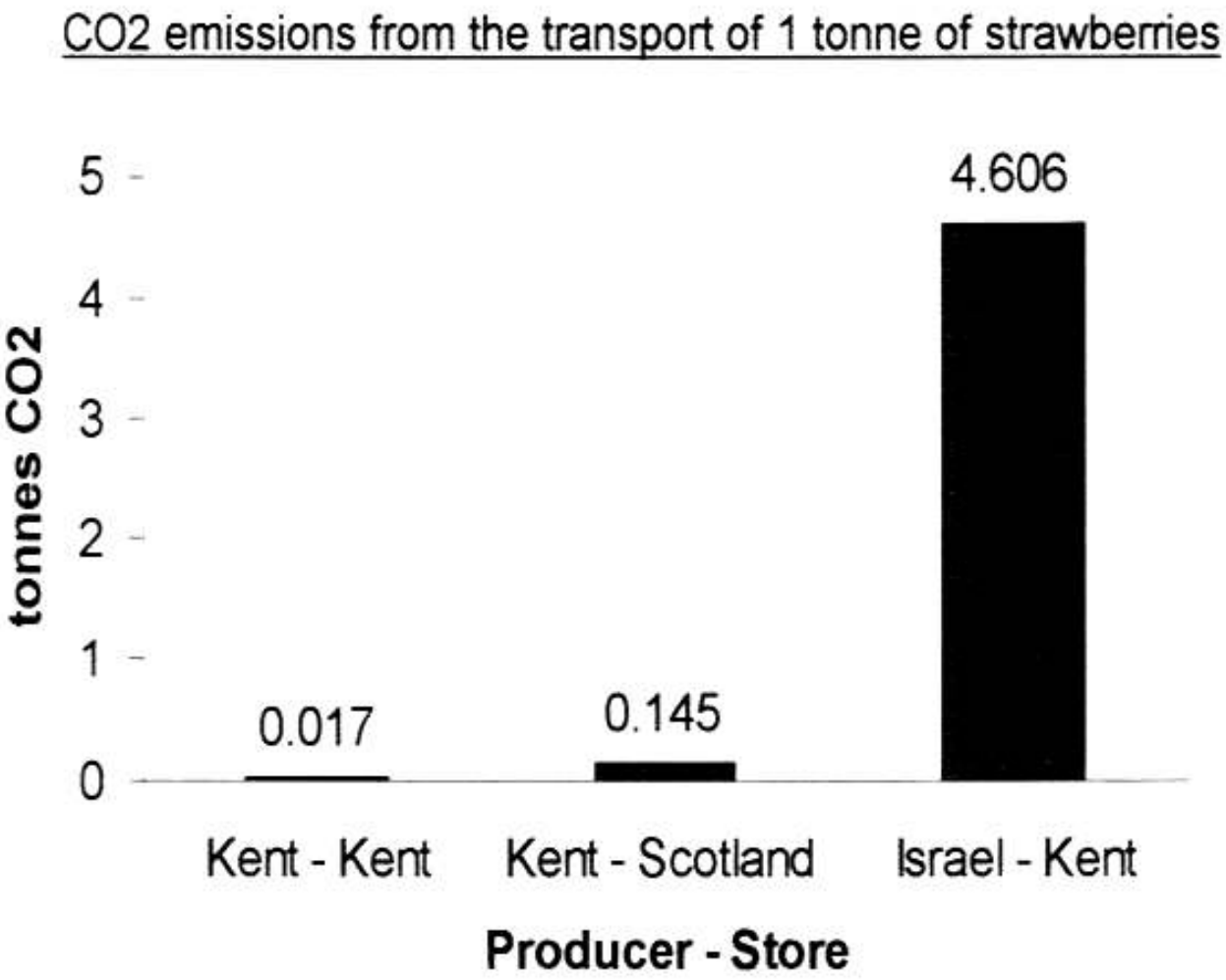
Food



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Local Food

Food Saving

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easy Living

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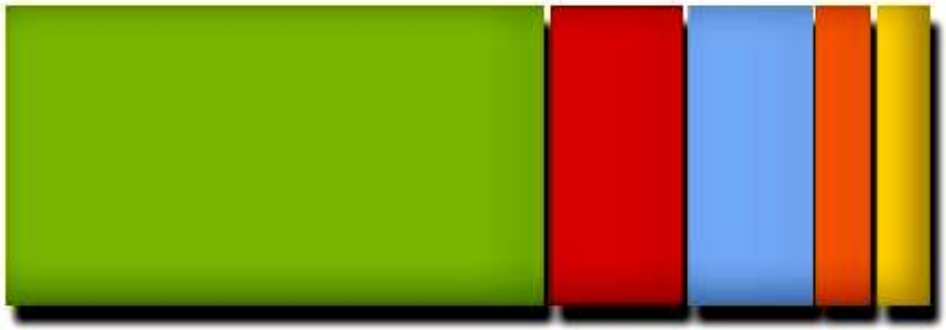
Living at BedZED



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One Planet Living Principles	
Zero Carbon	Sustainable Water
Zero Waste	Natural Habitats and Wildlife
Sustainable Transport	Culture and Heritage
Local & Sustainable Materials	Equity and Fair Trade
Local and Sustainable Food	Health and Happiness

Applying One Planet Living Principles

- Real estate development
- Individual
- Region
- Country

Creates common language

ONE PLANET LIVING

One Planet Living

is about the choices and challenges we all face if we are to enjoy a high quality of life within the resources of our planet.

We are consuming resources at a faster rate than the planet can replenish them. Few people actually want to live unsustainably but it is often too easy to make decisions that have damaging, unsustainable, consequences and too difficult to choose more sustainable options.

Based on ten guiding principles which address key human needs, this little book suggests many ingenious, easy and affordable ways in which you can start adopting One Planet Living as part of your everyday life and lessen your impact not only on our planet but also on other people.

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www.oneplanetliving.org

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ONE PLANET LIVING

Pooran Desai and Paul King

ONE PLANET LIVING

A GUIDE TO ENJOYING LIFE ON OUR ONE PLANET

Introduction by Kevin McCloud

LONDON 2012

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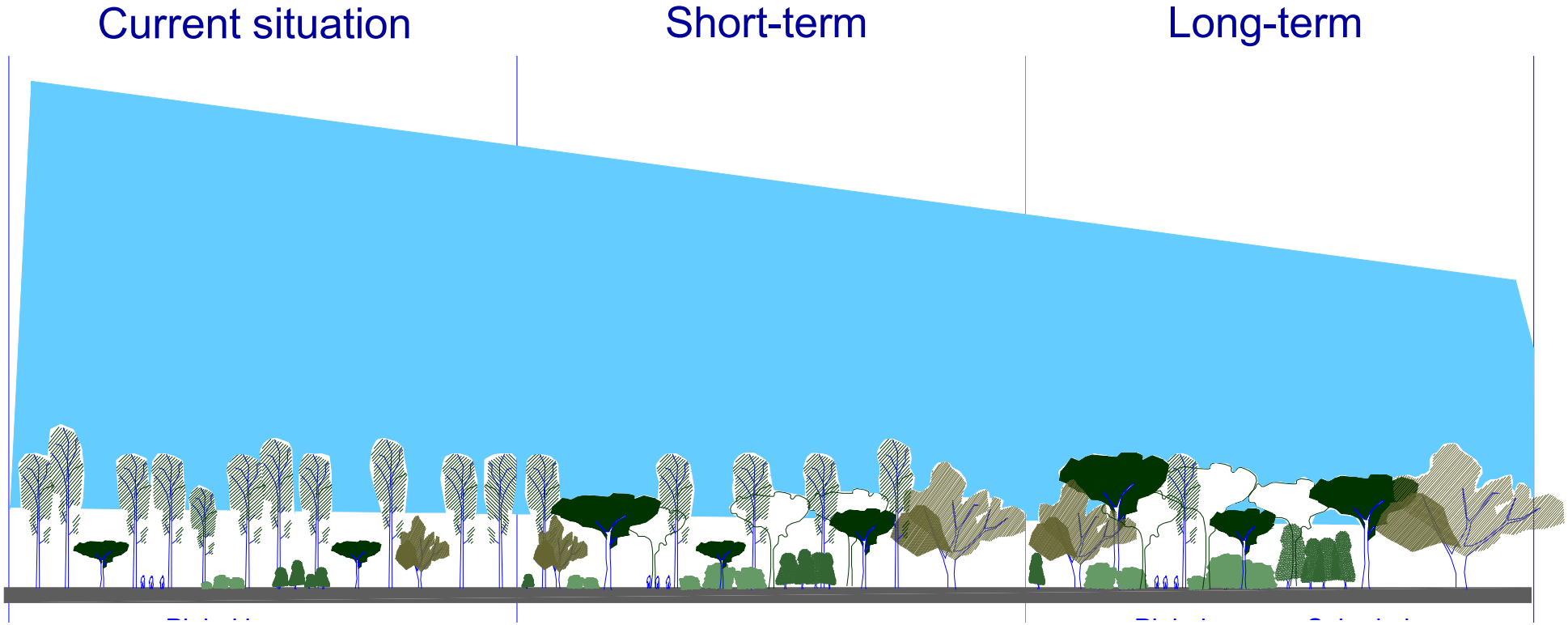
One Planet Living Approach

- Lifestyle as much as buildings
- Long term estate management as much as initial design

One Planet Living in Portugal

- 8,000 homes
- Zero carbon and zero waste targets
- Developer-funded project

Forest landscape restoration - Mata



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2000 home concept - Foster and Partners

Z2 Costs – capex

		£		%
ANALYSIS OF DIFFERENCE:				
Site wide energy and other utility works		£38m		6%
Building costs		£ 0m		-
Reduction in carparking and other support infrastructure		(£18m)		-3%
Difference		**£20m**		**3%**
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Z2 Household budget

Annual Costs	Base Option	Z-Squared	Difference	Difference
	£	£	£	
Utilities	**1356**	**1052**	**-304**	
Community facilities	**4,130**	**4,160**	**30**	
Consumer Goods etc.	**8,500**	**7,050**	**-1450**	
Transport	**2,900**	**1,000**	**-1900**	
Mortgage	**7,020**	**7020**	**0**	
Totals	**23,906**	**20,282**	**-3,624**	**-14%**

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BioRegional Quintain Ltd – 170 apartments in Brighton

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BioRegional Quintain Ltd – 500 homes in Middlesborough

China

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EcoCity in Ivory Park

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The Sibaya Precinct Site

- **850 Ha in extent,**

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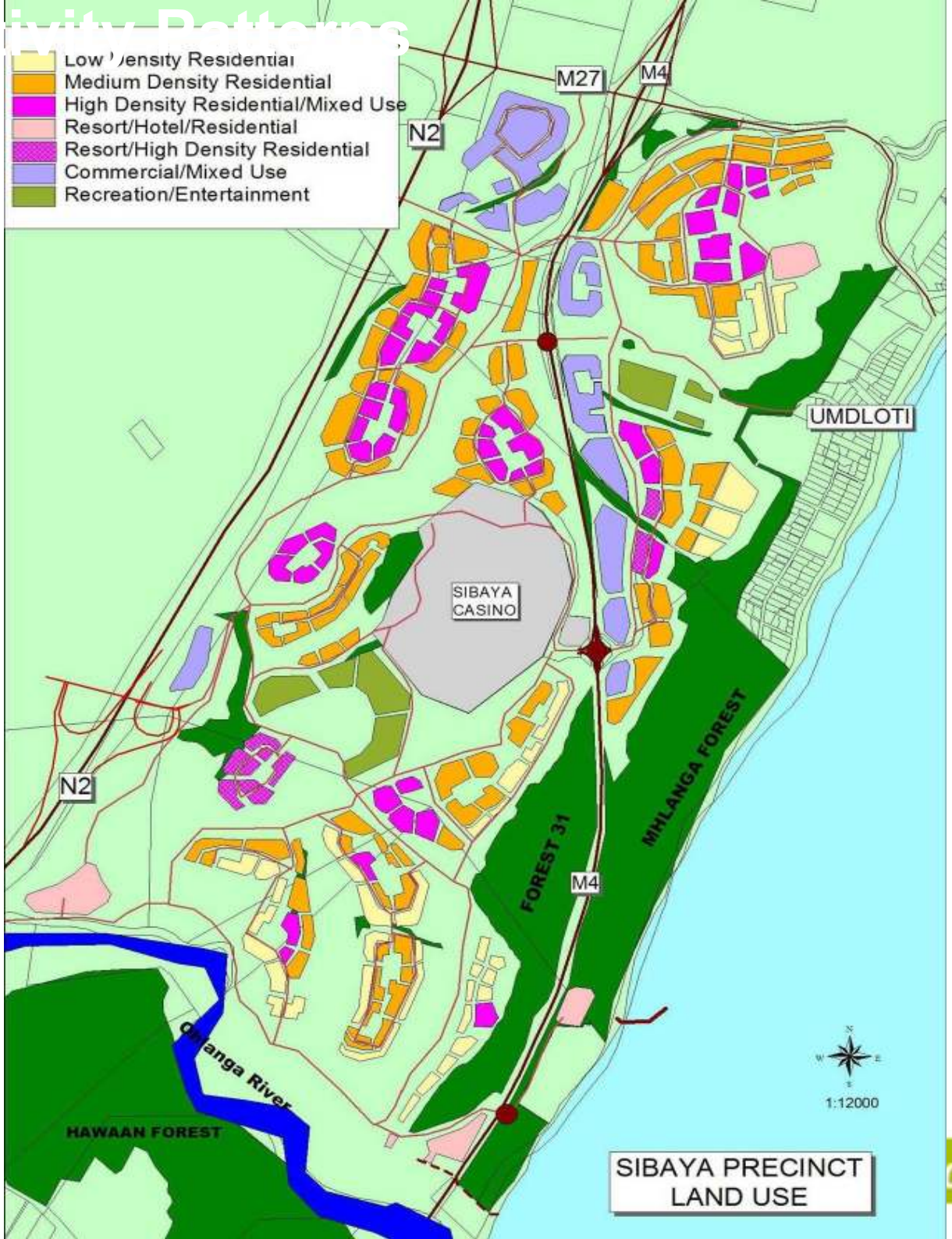
Low Density Residential
Medium Density Residential
High Density Residential/Mixed Use
Resort/Hotel/Residential
Resort/High Density Residential
Commercial/Mixed Use
Recreation/Entertainment
M27
M4
N2
UMDLOTI
SIBAYA CASINO
N2
MHLANGA FOREST
FOREST 31
M4
Ohlanga River
HAWAAN FOREST
1:12000
SIBAYA PRECINCT
LAND USE

Opportunities in SA

ONE PLANET LIVING

Opportunities in SA

Run workshops over 2 years

Ethembalethu

Yeoville

Northern Farm

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To create **communities**
where it is **easy** for people
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