The Ecological Footprint

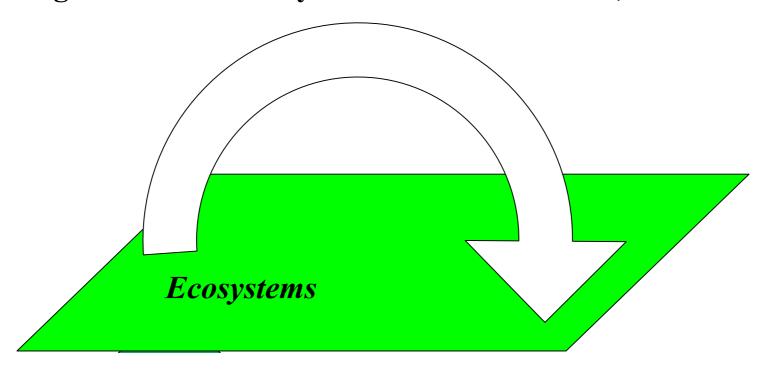
What's in it for you?

Mathis Wackernagel, PhD

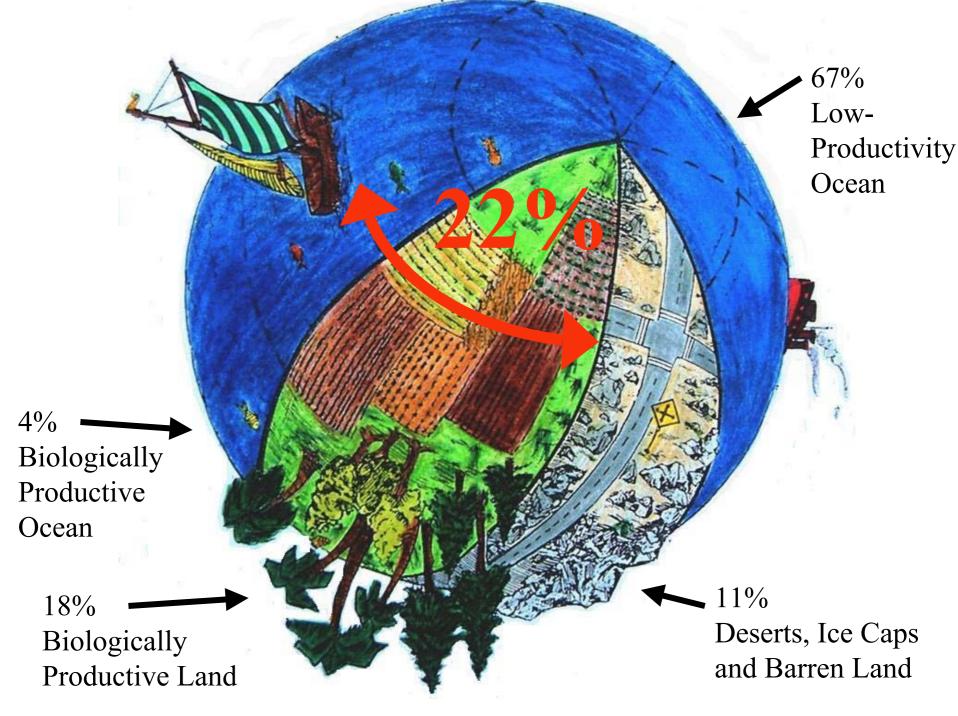


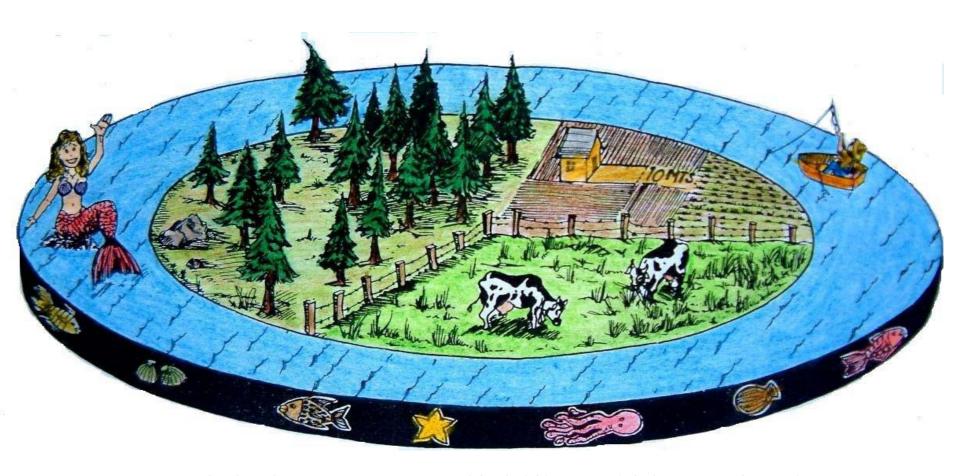
Bundesverfassung der Schweizerischen Eidgenossenschaft Art. 73 Nachhaltige Entwicklung

Bund und Kantone streben ein auf Dauer ausgewogenes Verhältnis zwischen der Natur und ihrer Erneuerungsfähigkeit einerseits und ihrer Beanspruchung durch den Menschen anderseits an. Organism's or society's metabolism: food in, waste out.

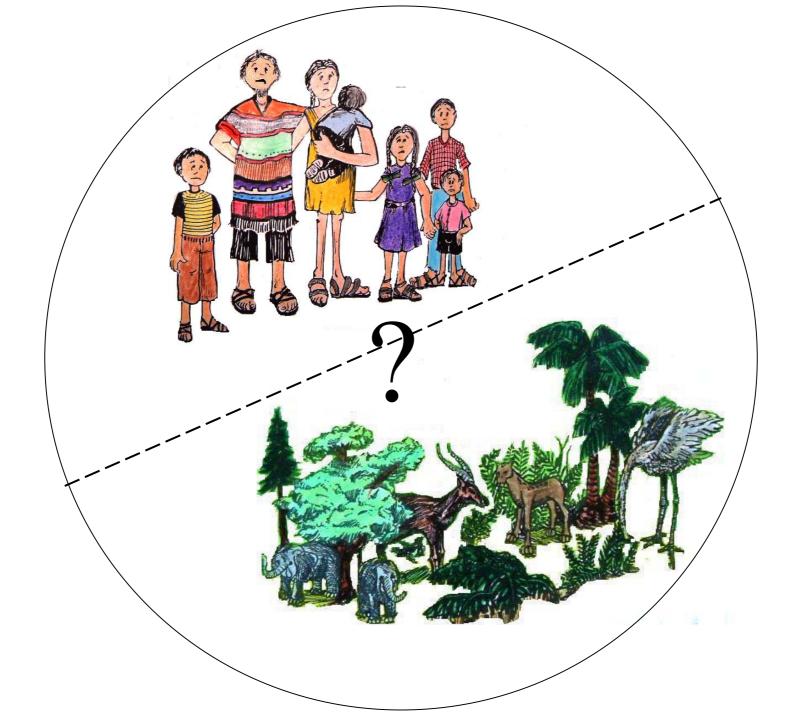


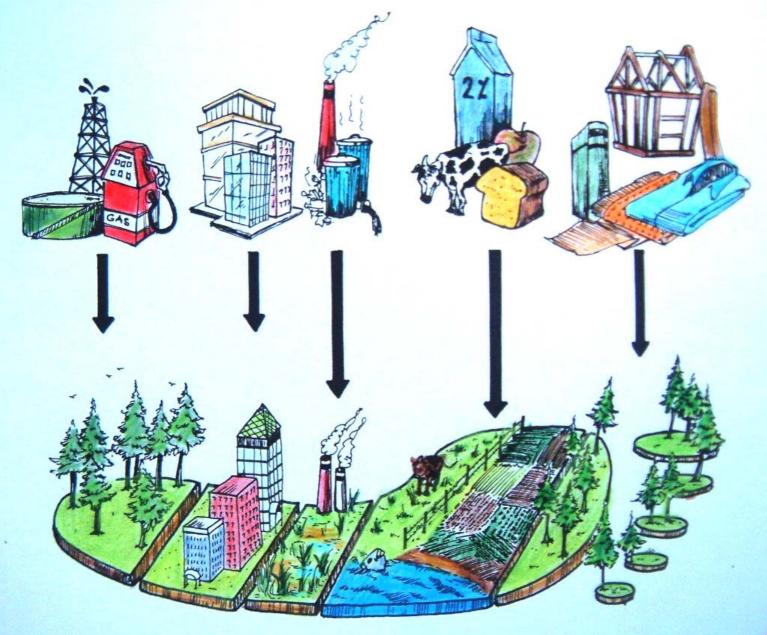
Nature turns waste back into food





Global average availability of bioproductive Land + Sea = **1.8 global hectares/person** (in 2001)





Fossil Fuel Built-up Waste Food absorption

Fibres

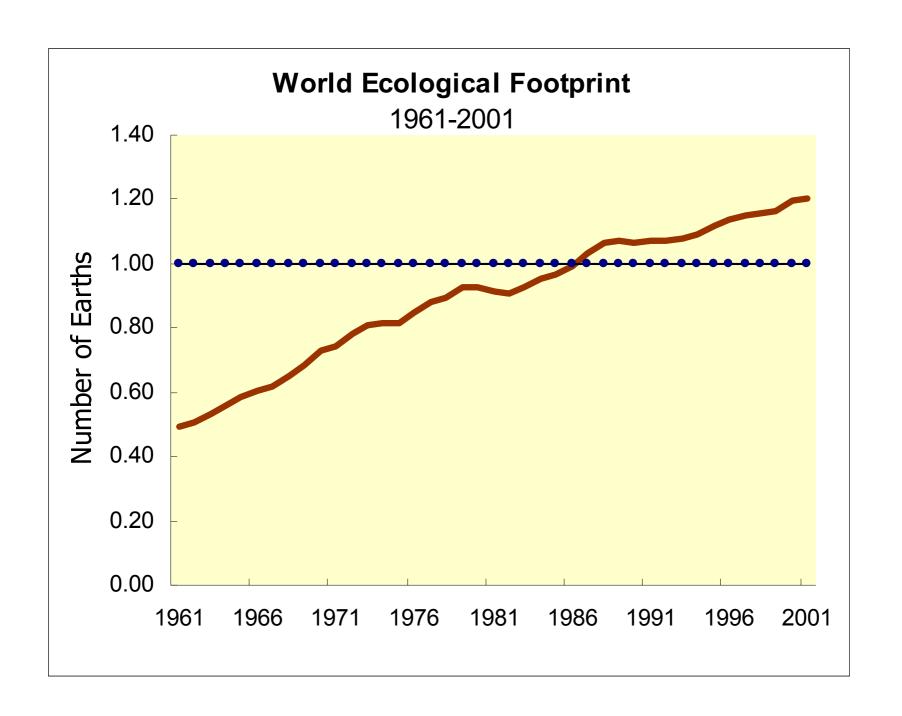
What Does the Footprint Do?

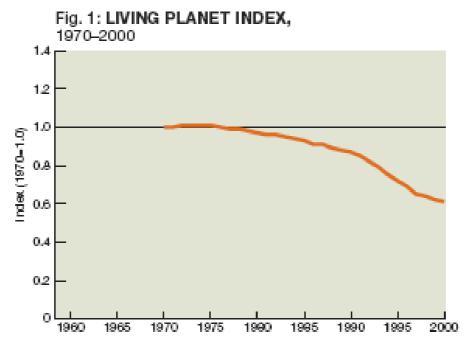
It answers:

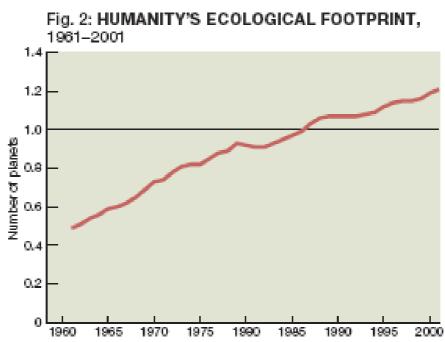
- How much of the regenerative capacity of the biosphere is used by human activities?
- How much is available within a region?

Global Footprint Accounts (in global hectares/person, 2001 data)

Ecological Demand (Ecological Footprint) Footprint Areas for:		Demand	Ecological Supply (Biocapacity) Biocapacity Areas:	
Growing Crops	0.49	Exceeds	Crop land	0.53
Grazing Animals	0.14	Supply	Grazing land	0.27
Settlements & infrastructure	0.07	Ву	Built-up area	0.07
Producing timber & fuelwood	0.24	20%	Forest	0.81
Absorbing excess CO ₂	1.12	ZU /0		
Harvesting Fish	0.13		Fishing Grounds	0.14
Total Global Demand	2.2	>	Total Global Supply	1.8









for a living planet®

EUROPE 2005 The Ecological Footprint



he European Union is firmly committed to sustainable development. It is a key principle for our policies and actions – within the EU and internationally. We want to achieve a better quality of life for all, now and in the future. This requires amongst other things safeguarding the Earth's capacity to support life in all its diversity and respecting the limits of the planet's natural resources. We need to prevent and reduce environmental pollution. We need to promote sustainable production and consumption and strike the right balance between economic growth and prosperity and the protection of environment at home and globally.

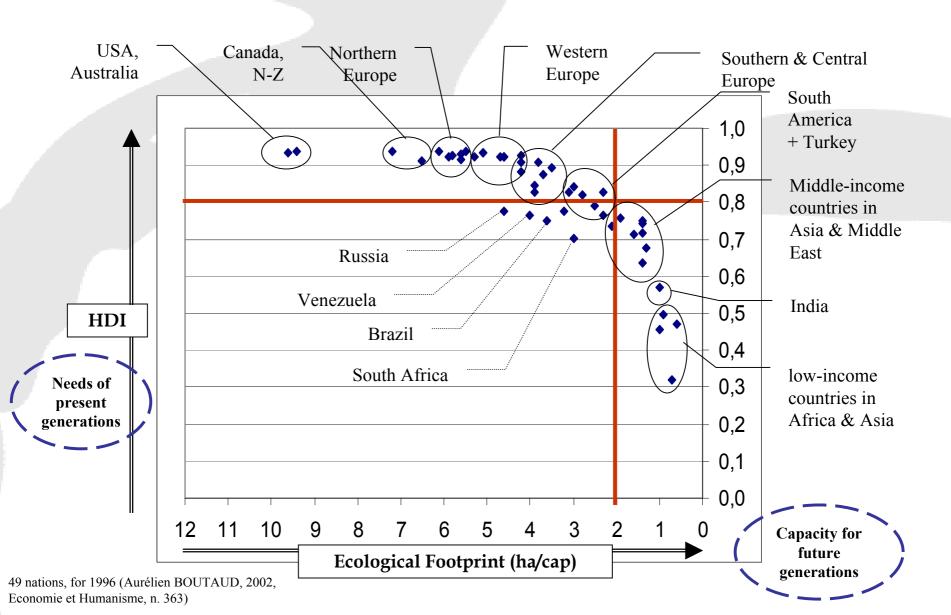
These objectives are confirmed in the Commission's recent proposal for a Declaration on Sustainable Development. Later this year this Commission will present a proposal for a new EU Sustainable Development Strategy.

I am convinced that to realise our vision, we need to engage stakeholders and citizens from across Europe and the world and get people to take real ownership of the sustainable development challenge. However, for people to do this, they need clear information on the challenges and the options available for more sustainable patterns of production, consumption and development. We also need to be able to assess progress made and target our actions which will allow all stakeholders to play their role in communicating with and engaging people. That is why I very much welcome initiatives such as this one taken by the WWF.

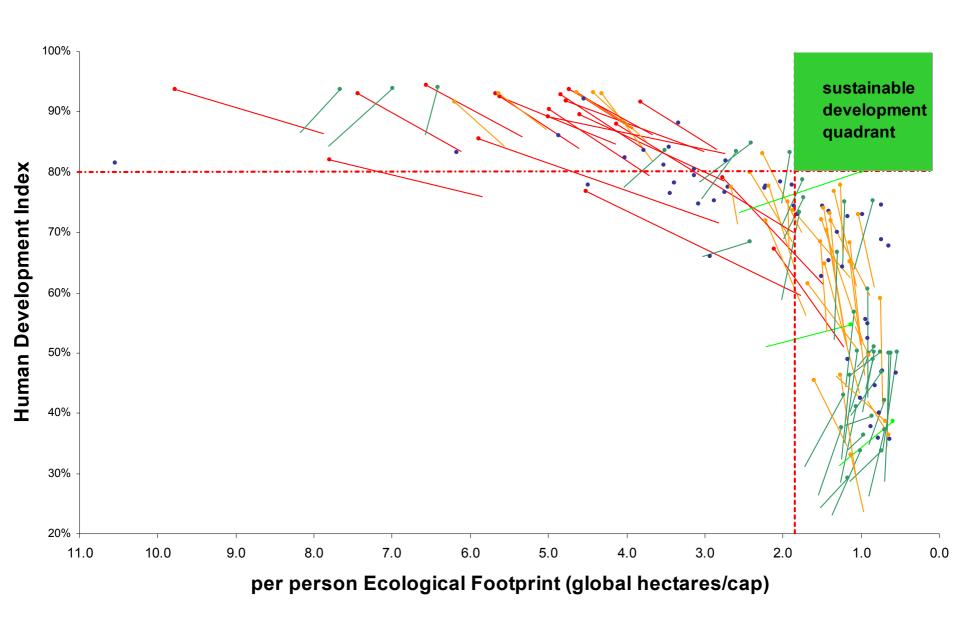


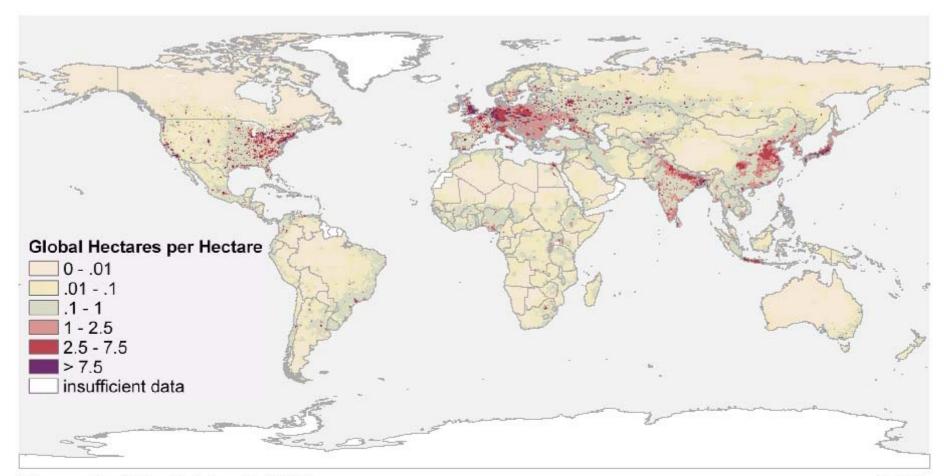
José Manuel Barroso
President of the European Commission

Sustainable development : what about the nations of the World ?



HDI v. Footprint 1975 to 2001

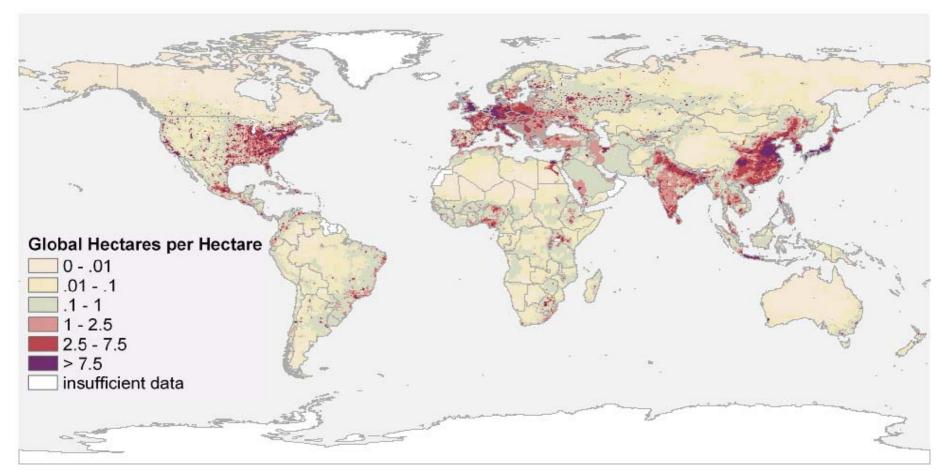




Percent of Earth Used: 49%

Source: Global Footprint Network & SAGE - UW Madison

1961

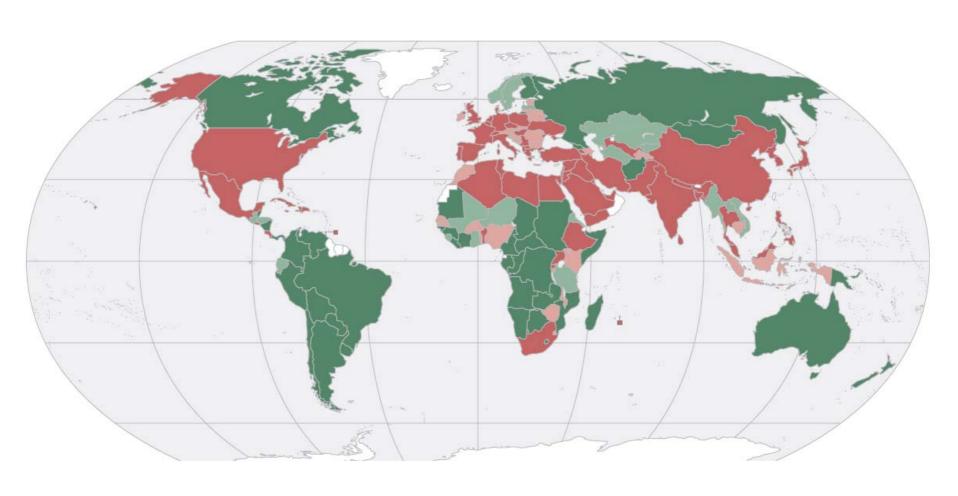


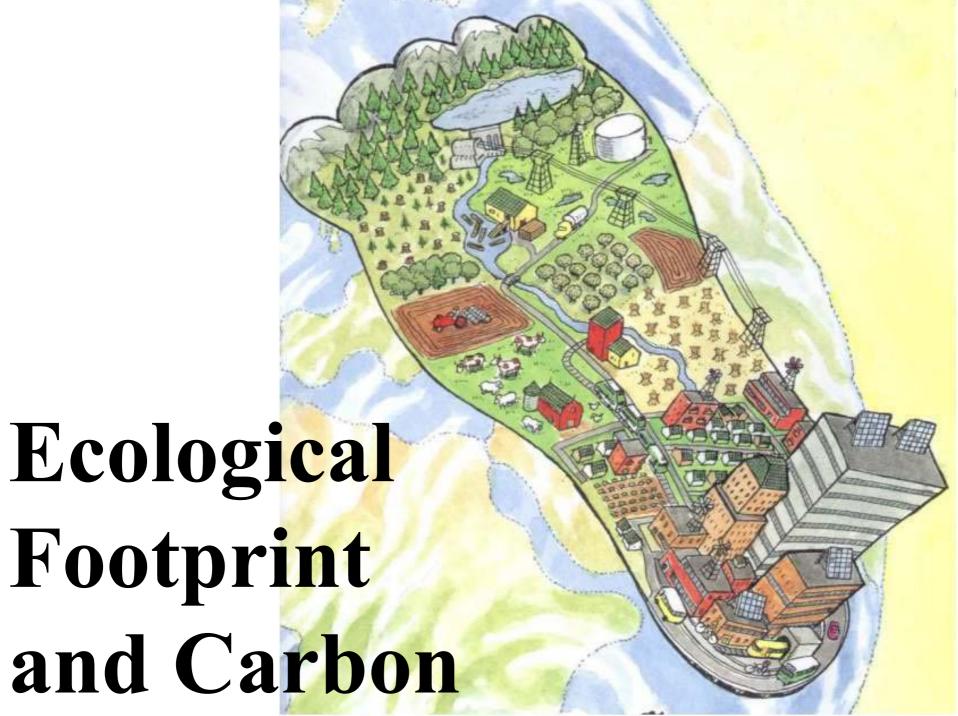
Percent of Earth Used: 121%

Source: Global Footprint Network & SAGE - UW Madison

2001

Ecological Creditors and Ecological Debtors





Opportunities

- Link to audience's core interests
 - securing prosperity and well-being
 - competitiveness
 - policy scenarios: consequences of choices
- Work with winners
 - leading cities
 - leading companies
 - finance analysis
- Policy and communication
 - what's at stake?
 - are the pieces adding to the total?



How does the Global Footprint Network operate?

- 40 partner organizations
- Standardization (3 committees)
- 10-in-10 campaign

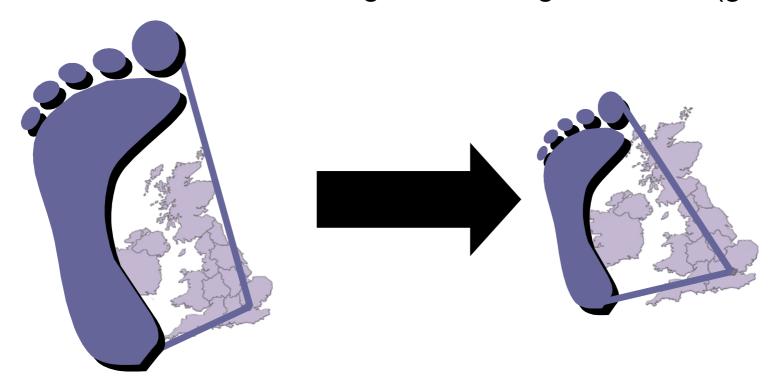
Footprint Assessment for Urban Development



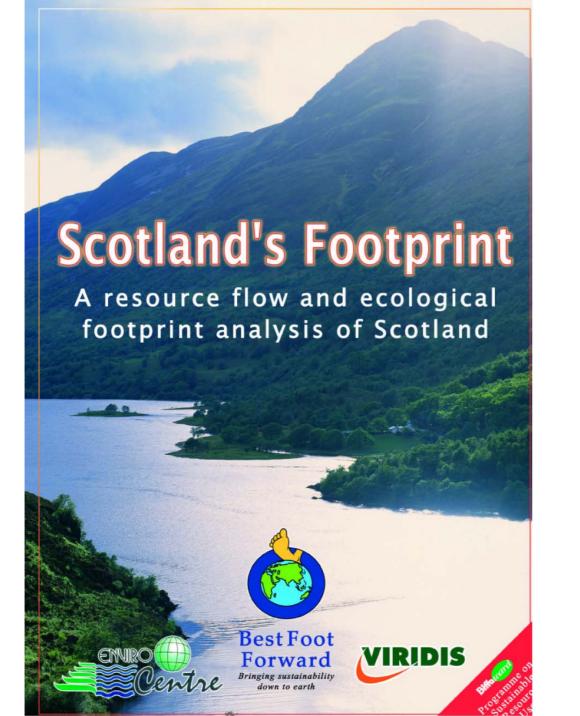
Case Study: Reducing London's Ecological Footprint

What is the potential for reduction?

- Total London Ecological Footprint = 50 million gha
- Possible to reduce London's Ecological Footprint by between 20 & 25 million global average hectares (gha)



London Remade with WSP Environmental, Global Footprint Network



REPORT ON THE

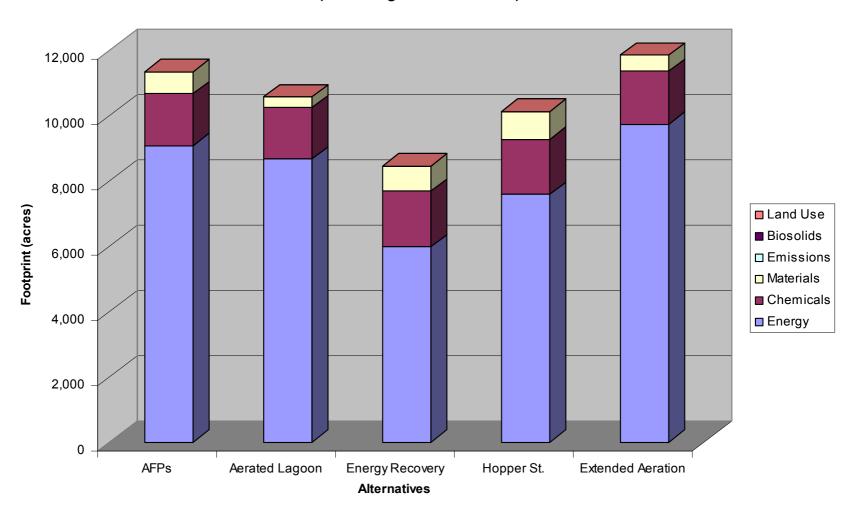
-MAY 2002-



Sustainable Sonoma County with Redefining Progress

Petaluma Wastewater Treatment

Sustainability Analysis - DAFs Option (Assuming UV Disinfection)

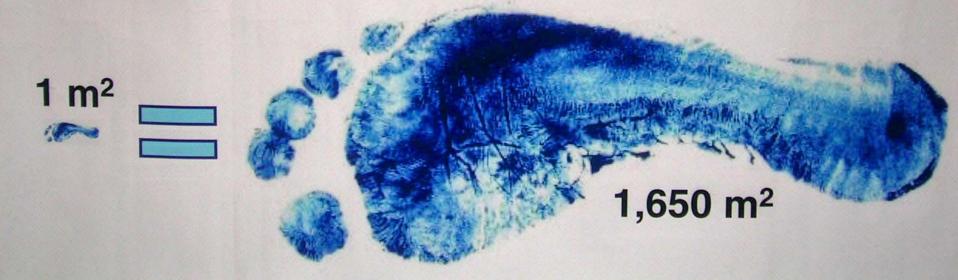


Can electricity be Footprint Neutral?

Our Impact: The Eco-Footprint of a General Retailer

Business As Usual - General Retailer per 1m² NLA

Annual Resource Inputs		Example Environmental Reporting	per \$1,000	per FTE		
Electricity consumption (kWh/m²)			GTO			
Light	160	Electricity consumption (kWh)	40.70	17,484		
Power	107	Greenhouse from energy (kg CO ₂ -e)	38.67	16,610		
HVAC (selling area only)	95	Water Consumption (litres)	10.62	4,563		
Greenhouse from energy (kg CO ₂ -e/m ²)	321		10.02	4,303		
Water Consumption (litres/m²)	88	Waste (kg) Landfilled	2.59	1,113		
Waste (kg/m²)		Recycled	0.39	166		
Landfilled	21.5					
Recycled	3.2					
Travel to work		Notes				
Private car	82%	Average gross turnover (GTO) data used				
Public transport	13%	Assumed 4 equivalent full time employees (FTE) for 200m ² store				
Walk / other	5%					



The Ecological Footprint is a standardized way to measure what has been immeasurable, contentious, and often misunderstood: ecological limits.



INVITATION!

- Don't ask what you can do for the Footprint, ask what the Footprint can do for YOU! (J.F.K.)
- >Partnership?
- Contact us at: www.footprintnetwork.org





