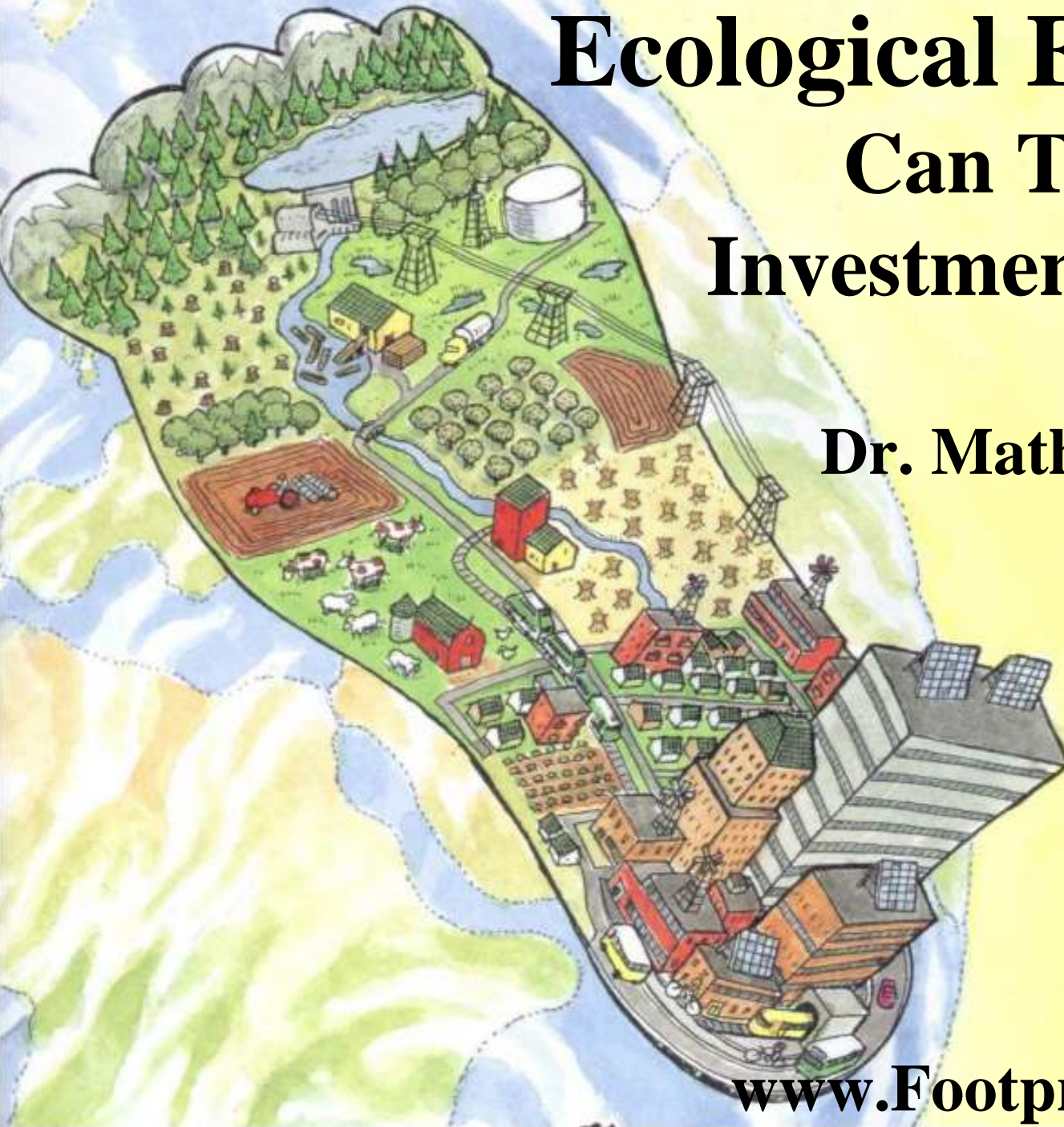


Ecological Footprints: Can They Support Investment Decisions?

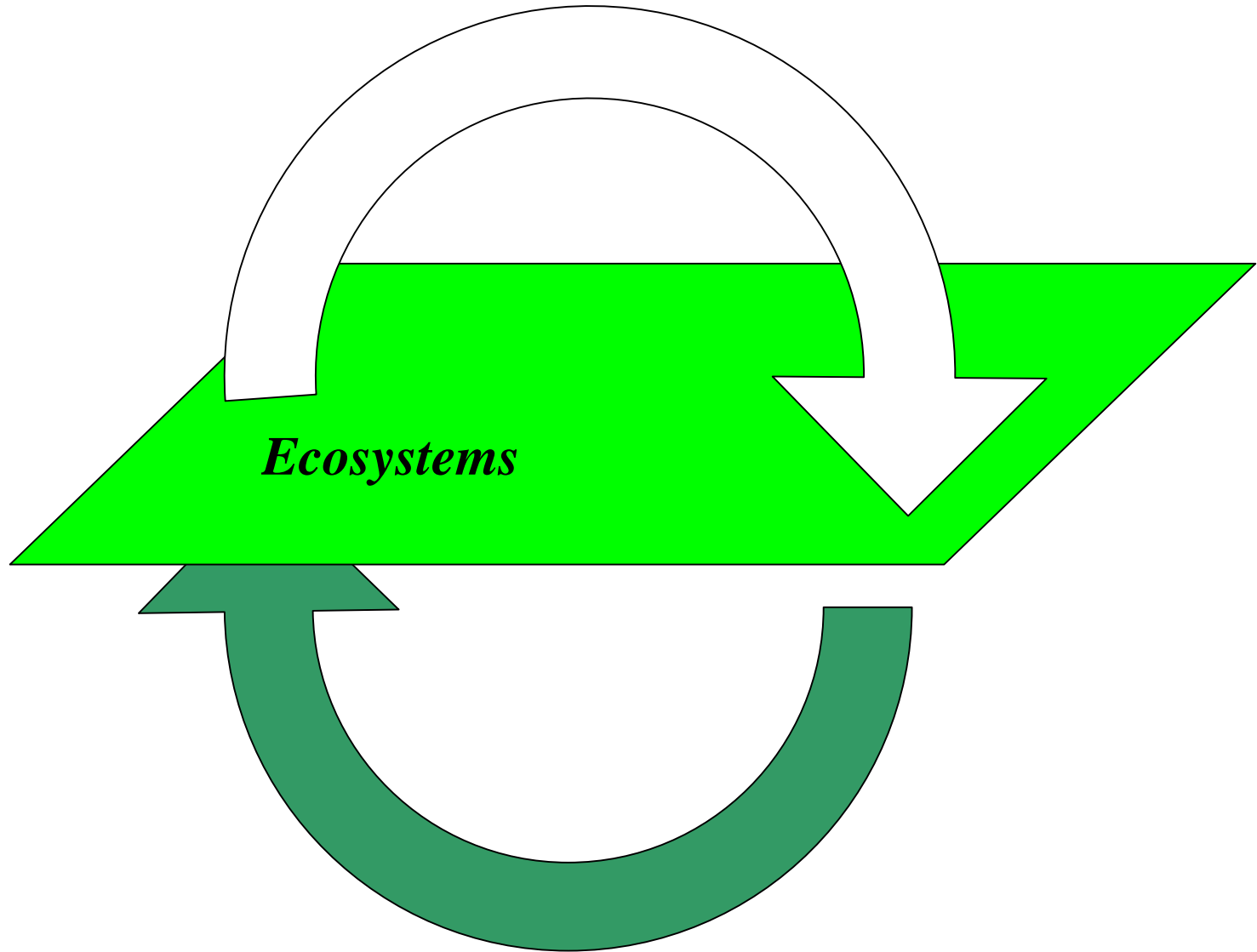
Dr. Mathis Wackernagel



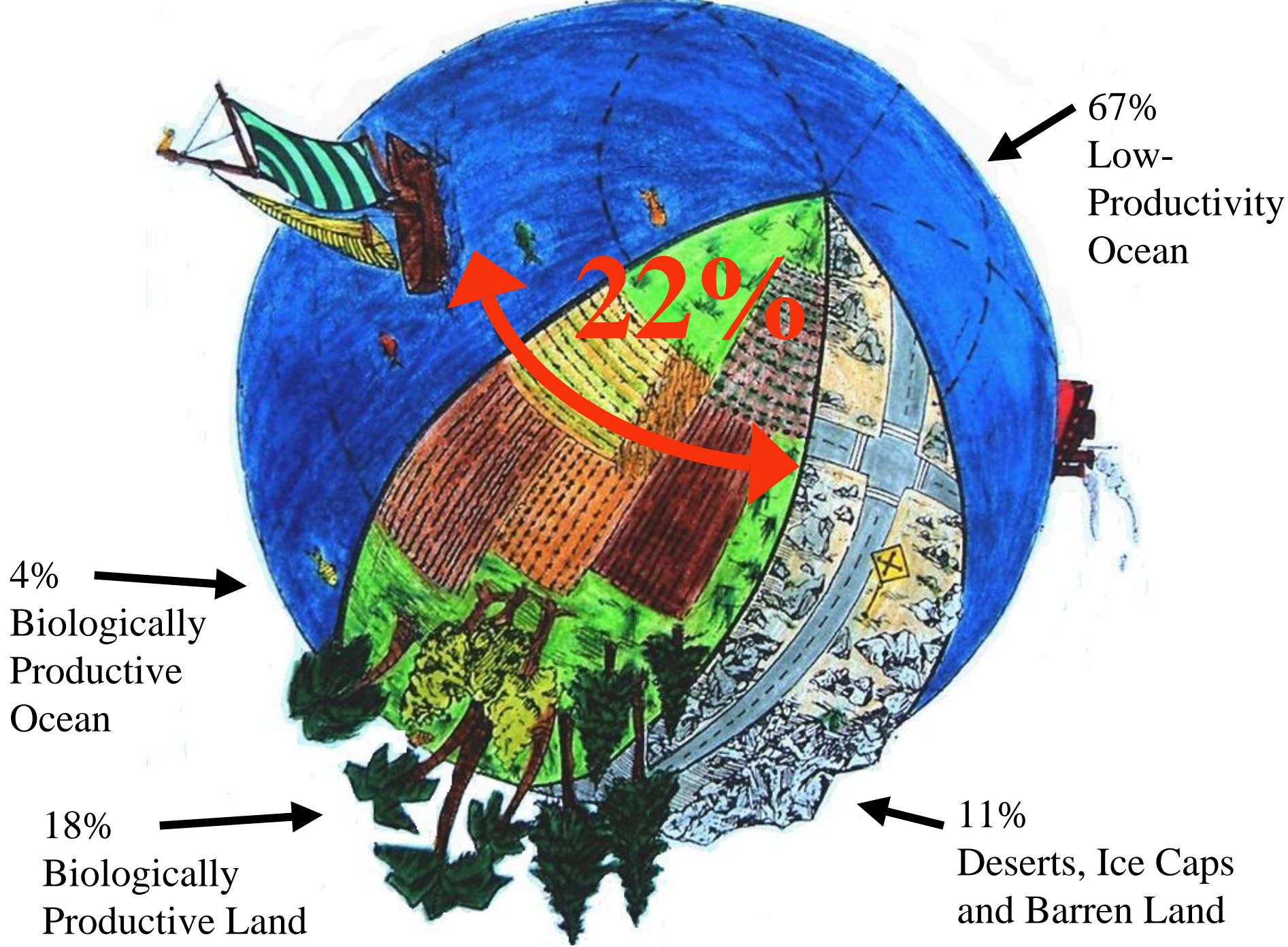
Global Footprint Network
Advancing the Science of Sustainability

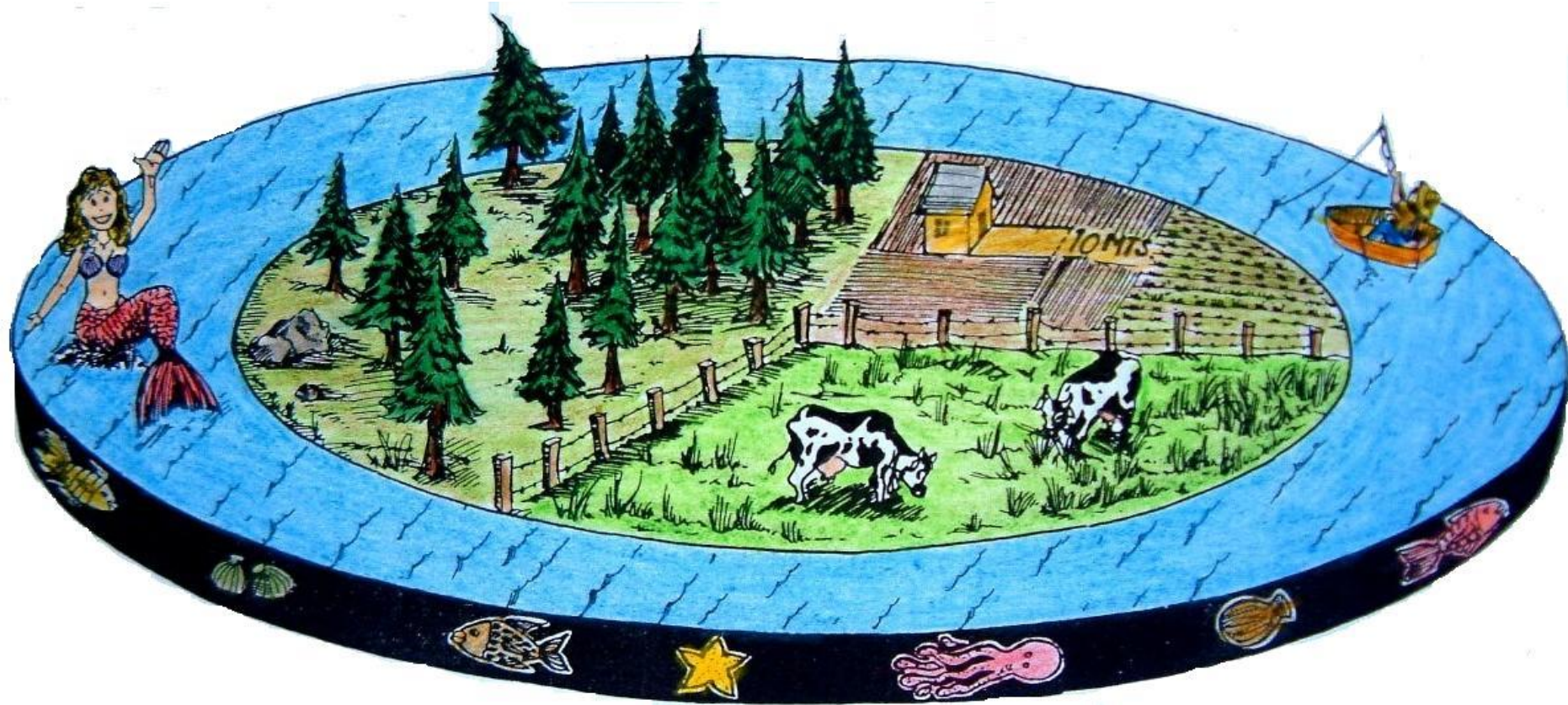
www.FootprintNetwork.org

Organism's metabolism: food in, waste out.

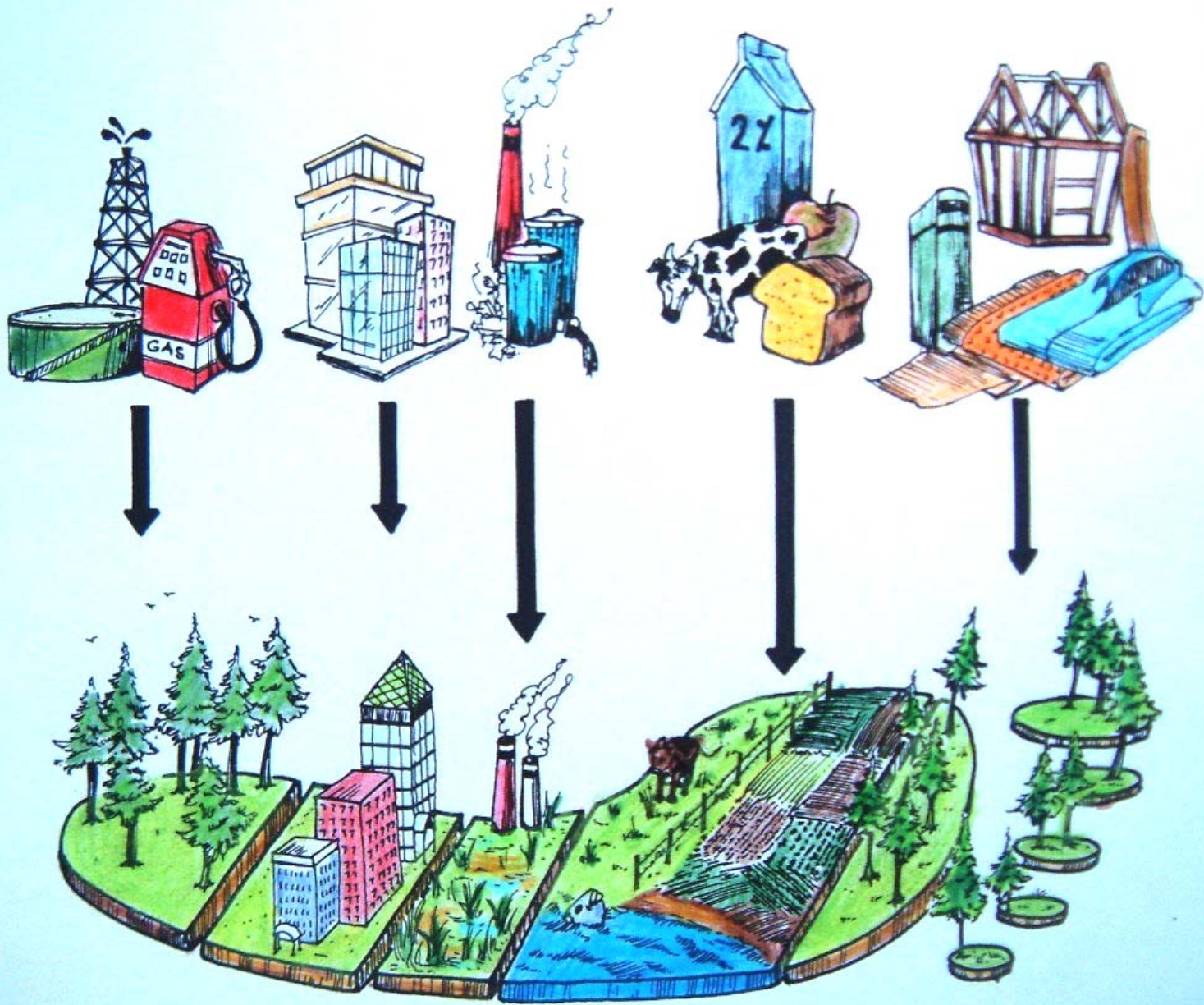


Nature turns waste back into food





Global average availability of bioproductive
Land + Sea = **1.9 global hectares/person**



Fossil Fuel Built-up Waste
absorption

Food

Fibres

Global Footprint Accounts

(in global hectares/person, 1999 data)

Ecological Demand (*Ecological Footprint*)

Footprint Areas for:

Growing Crops	0.53
Grazing Animals	0.12
Settlements & infrastructure	0.10
Producing timber & fuelwood	0.33
Absorbing excess CO ₂	1.07
Harvesting Fish	0.14

Total Global Demand 2.29

Demand
Exceeds
Supply
By
20%

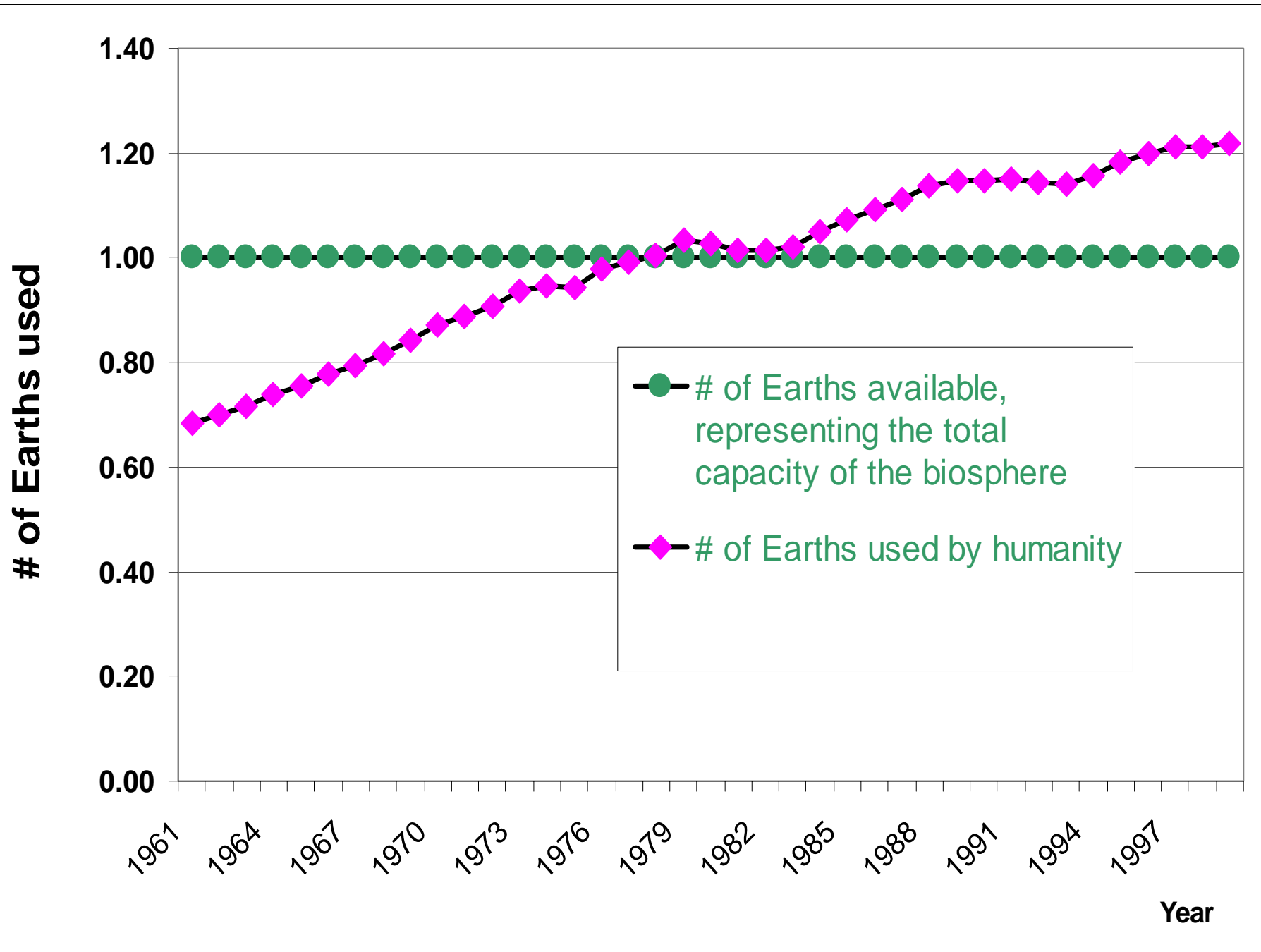
>

Ecological Supply (*Biocapacity*)

Biocapacity Areas:

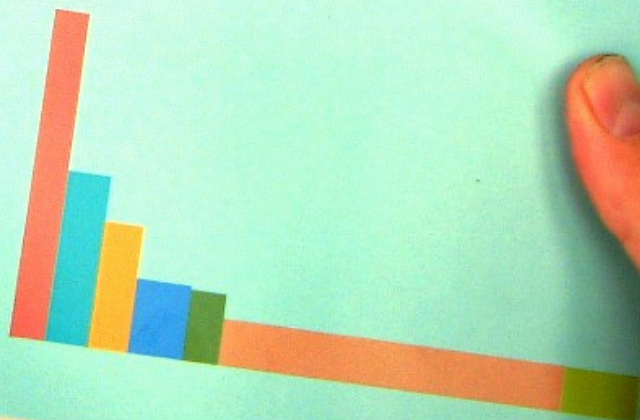
Crop land	0.53
Grazing land	0.27
Built-up area	0.10
Forest	0.86
Fishing Grounds	0.14

Total Global Supply 1.90





LIVING PLANET REPORT 2002



Download at www.panda.org

Figure 1:
LIVING PLANET INDEX,
1970–2000

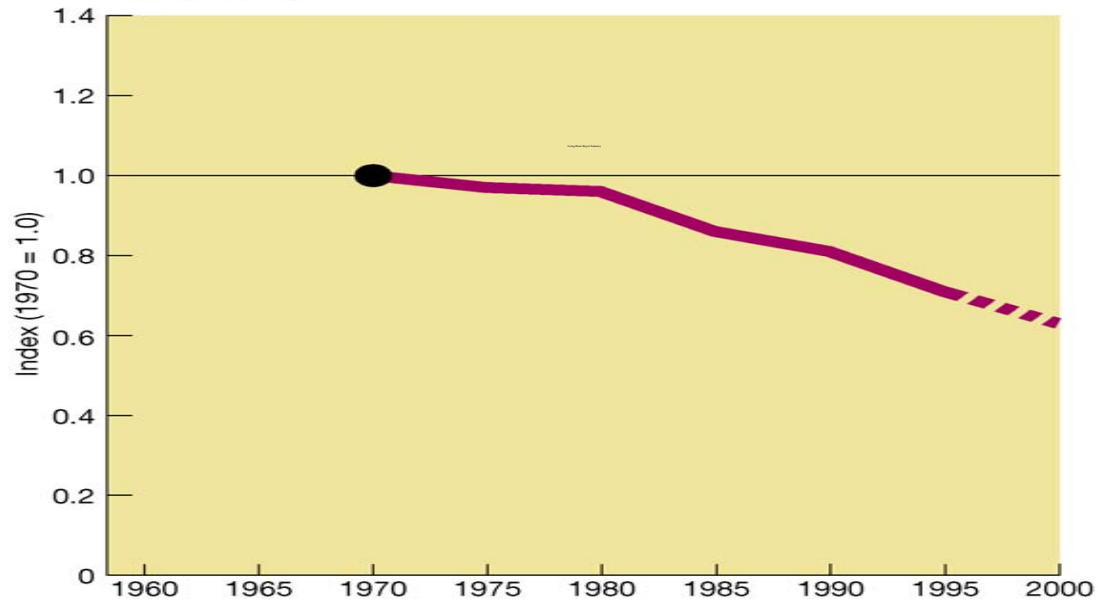
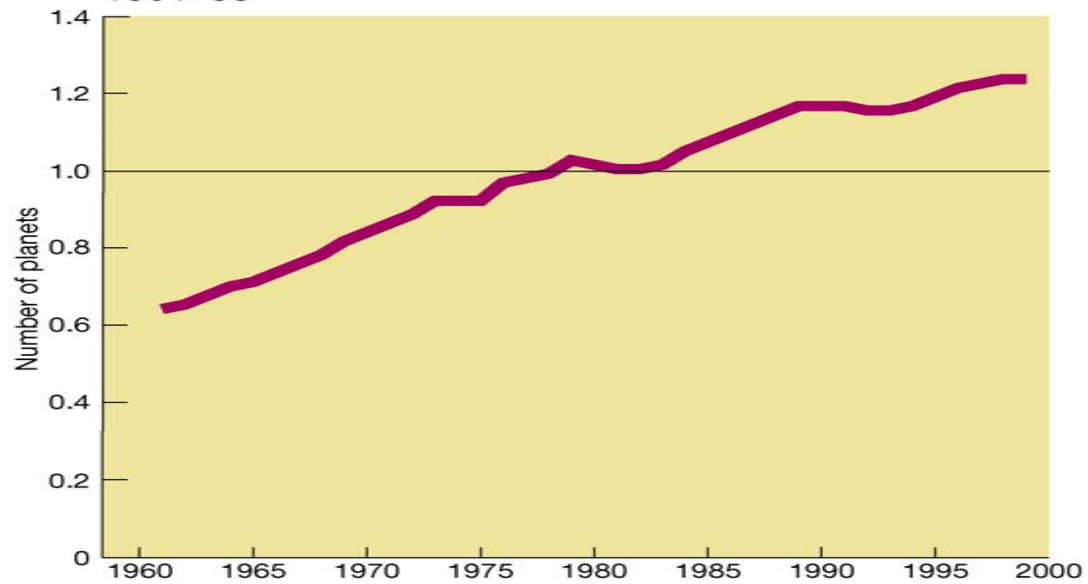
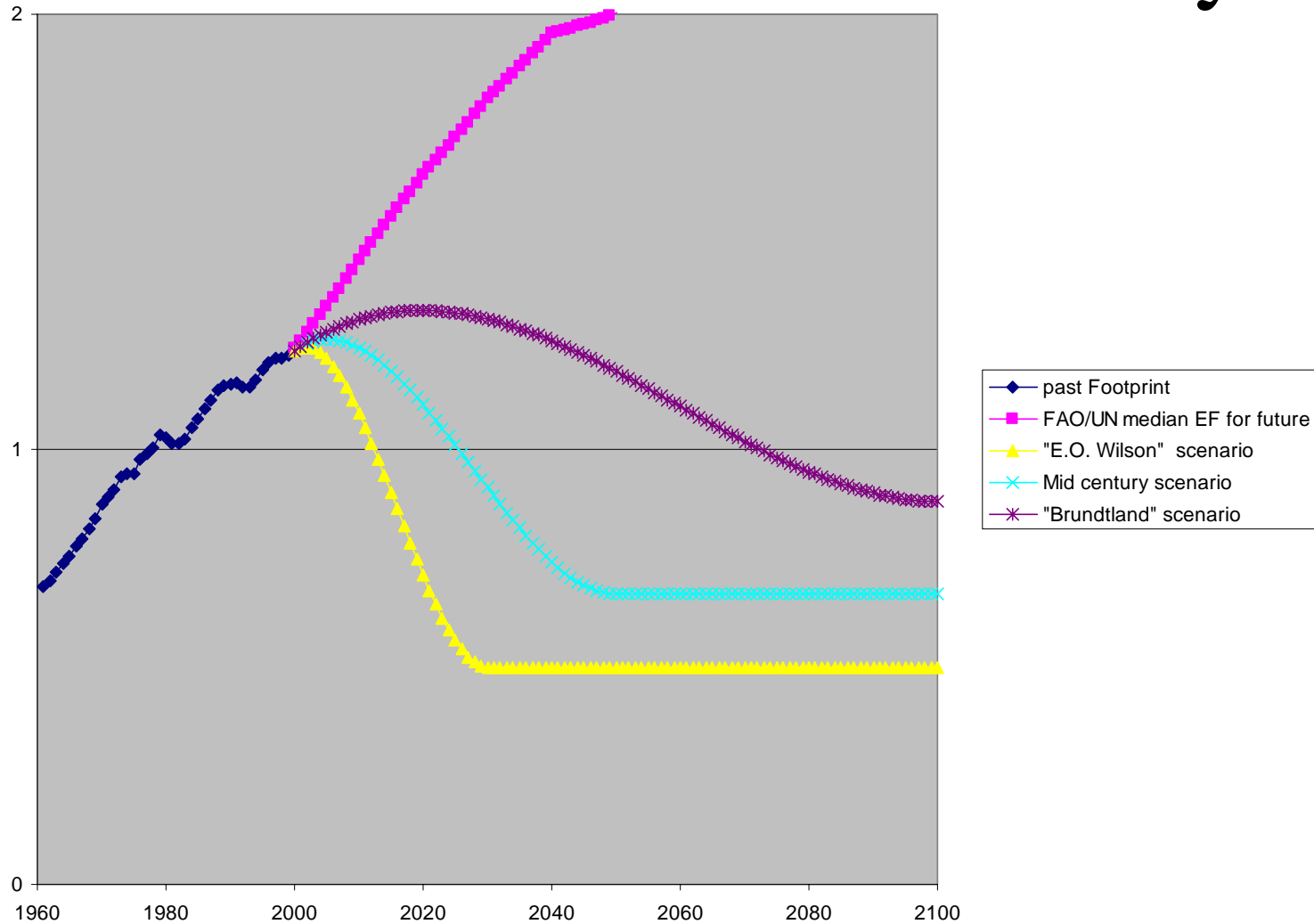


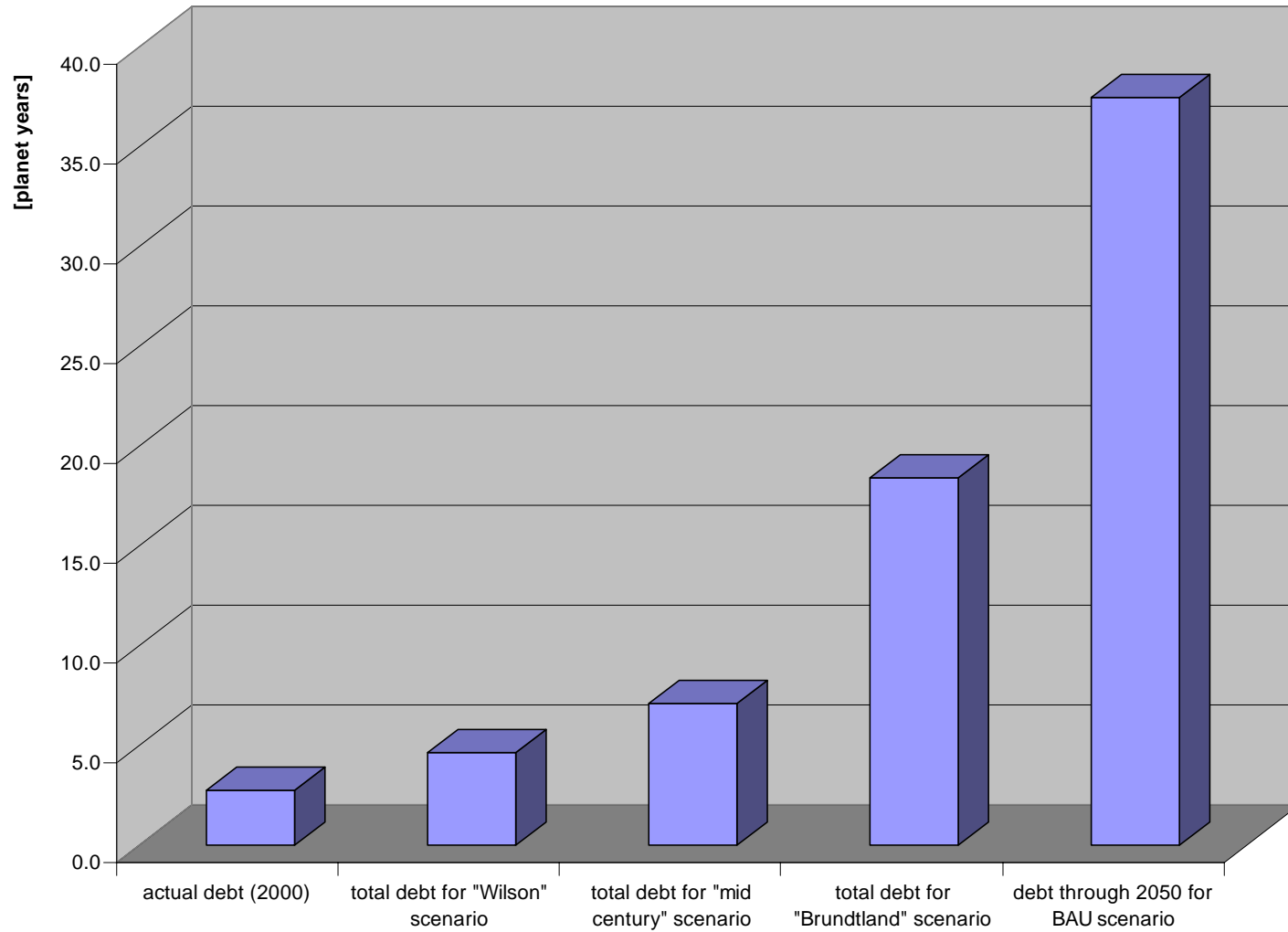
Figure 2:
WORLD ECOLOGICAL FOOTPRINT,
1961–99



EF Used for Scenario Analysis

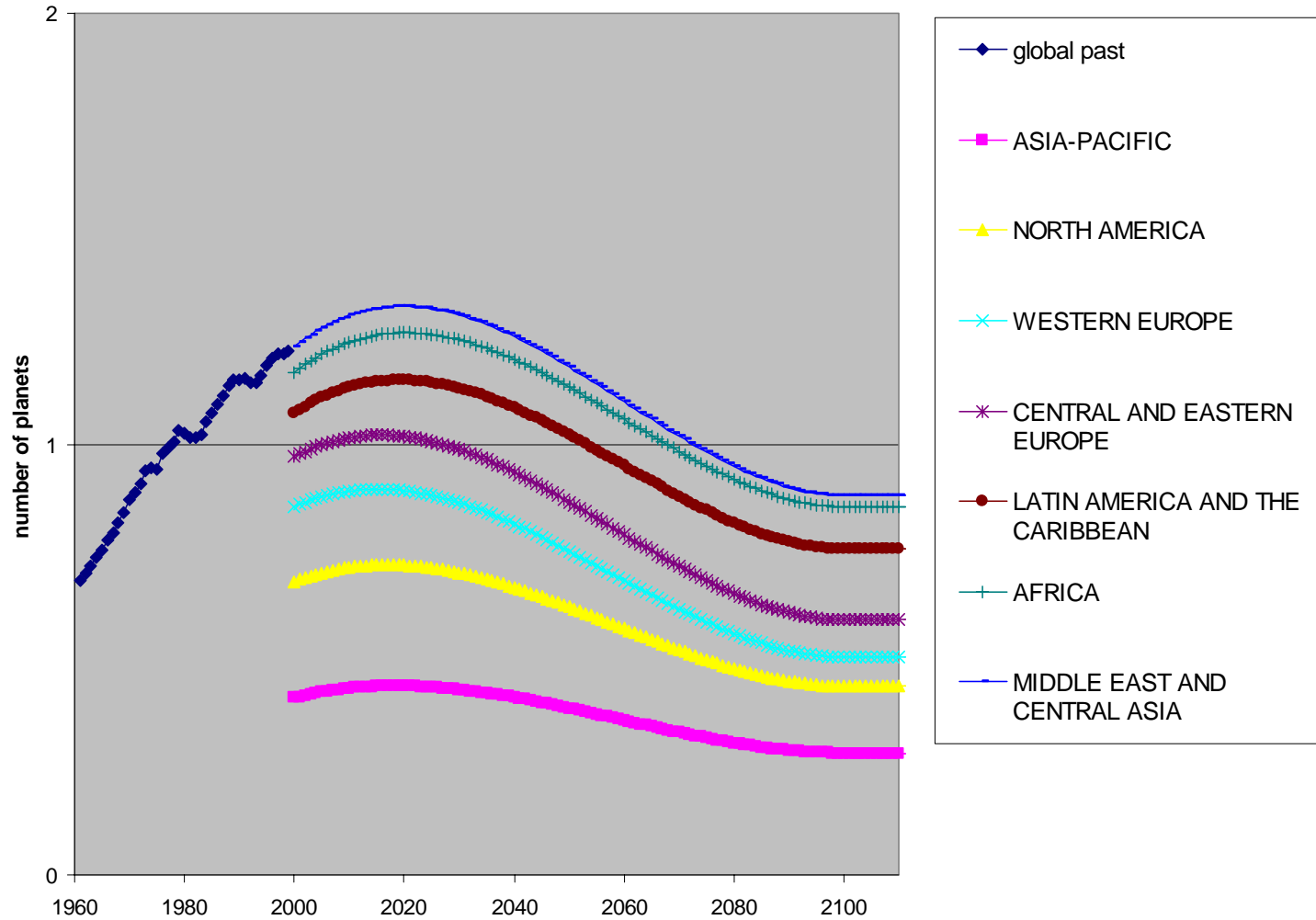


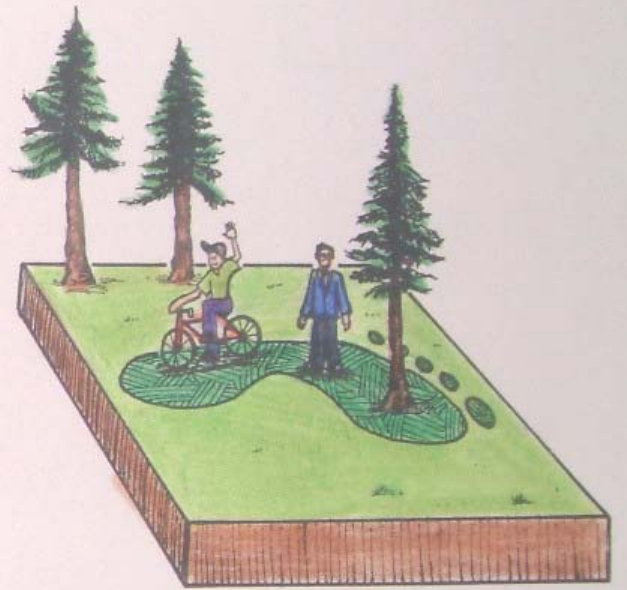
Ecological Debt in 4 Scenarios

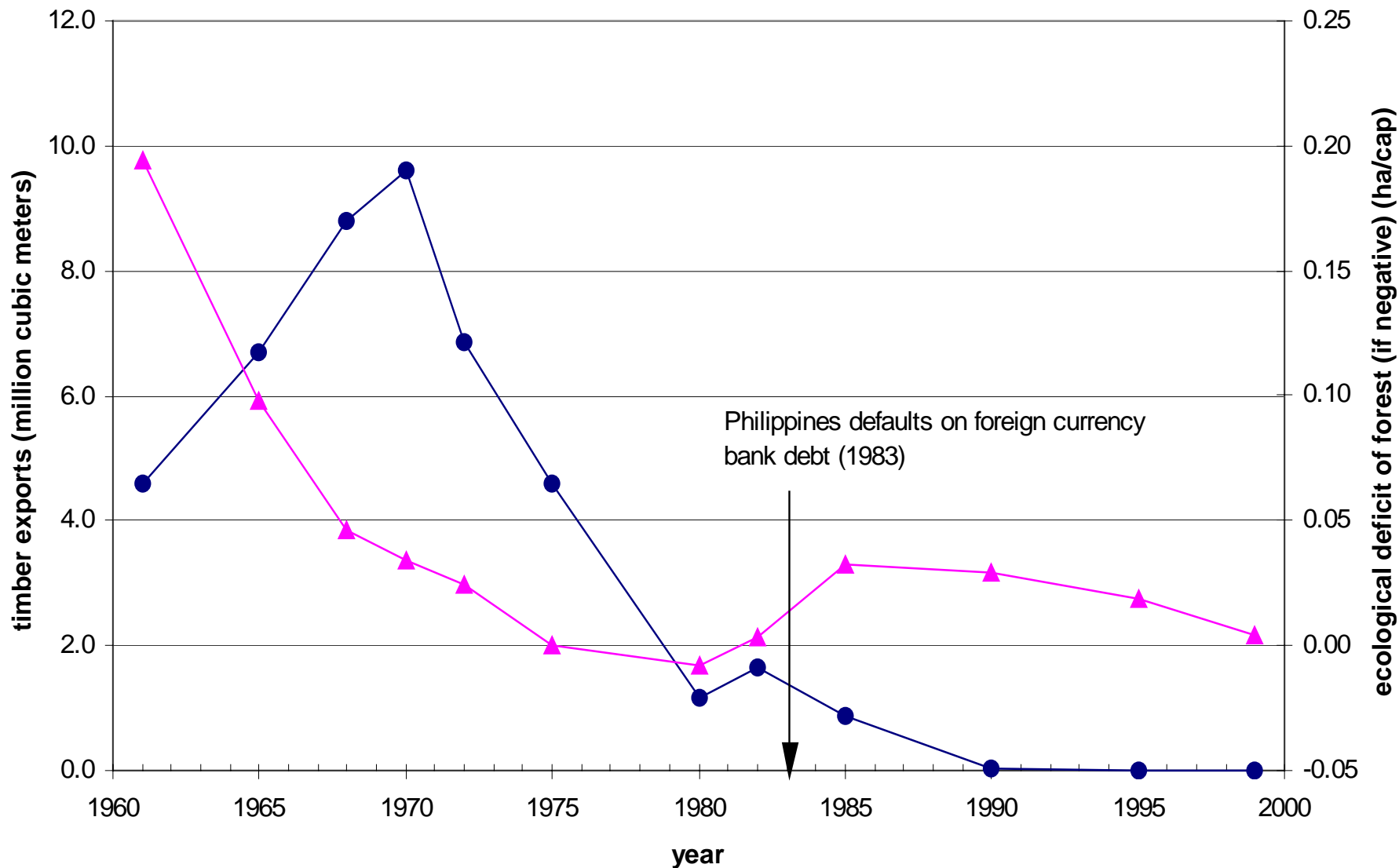


<i>Data for 1999</i>	<i>Eco-Footprint</i> [global ha /cap]	<i>Biocapacity</i> [global ha/cap]
Australia	7.6	14.6
China	1.6	1.1
Germany	4.7	1.8
Italy	3.8	1.3
Japan	4.6	0.8
Russia	4.2	5.1
South Africa	4.0	2.5
US	9.6	5.8
WORLD	2.3	1.9

“Shrink & Share” by Region







timber exports
 ecological deficit of forest

What Does the Ecological Footprint offer?

- Addresses a specific, central, minimum-requirement for sustainability. Moves sustainability from abstract concept to specific measurable goals
- Uses science (specific research question, testable, explicit assumptions and limitations)
- Invites to the table: builds consensus on concern. Generates questions and asks for solutions

A small, grey and black tabby kitten is perched on the palm of a large, weathered stone hand sculpture. The hand is part of a larger figure, possibly a deity or a person of significance, and is shown in a gesture of holding or offering. The background features a circular stone relief with a floral or leaf-like pattern. The overall scene is set in an outdoor or semi-outdoor environment with natural lighting.

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