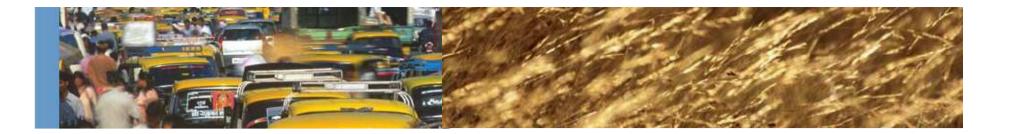


## Securing Human Well-being in a Resource Constrained World

Dr. Mathis Wackernagel Global Footprint Network "Beyond GDP" – November 6, 2009





## Summary

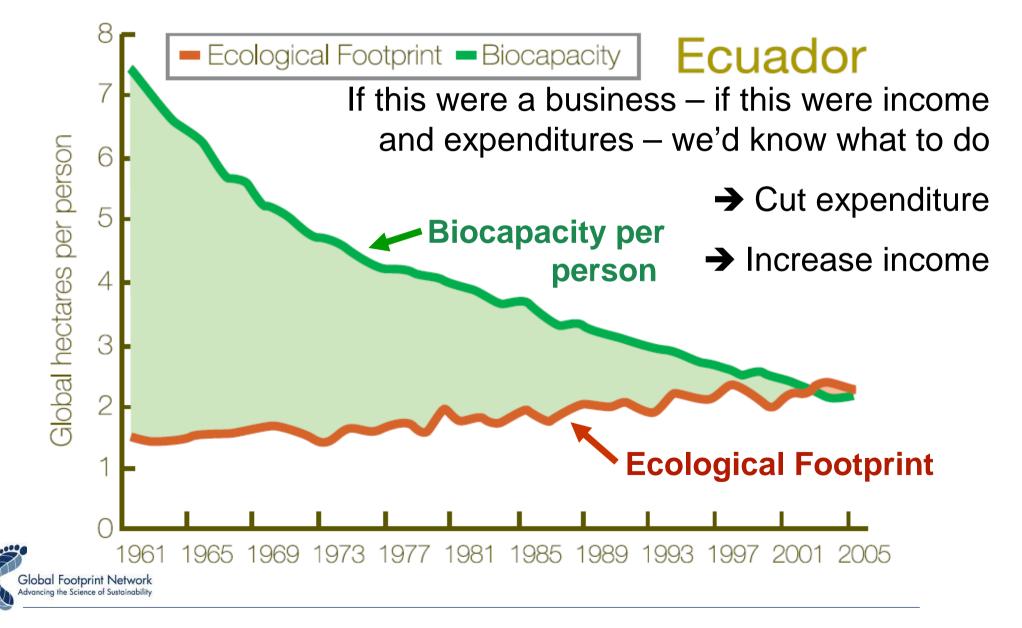
With upcoming resource constraints, a country that does not know *how much biocapacity it has*, and *how much it uses* will not be able to operate effectively

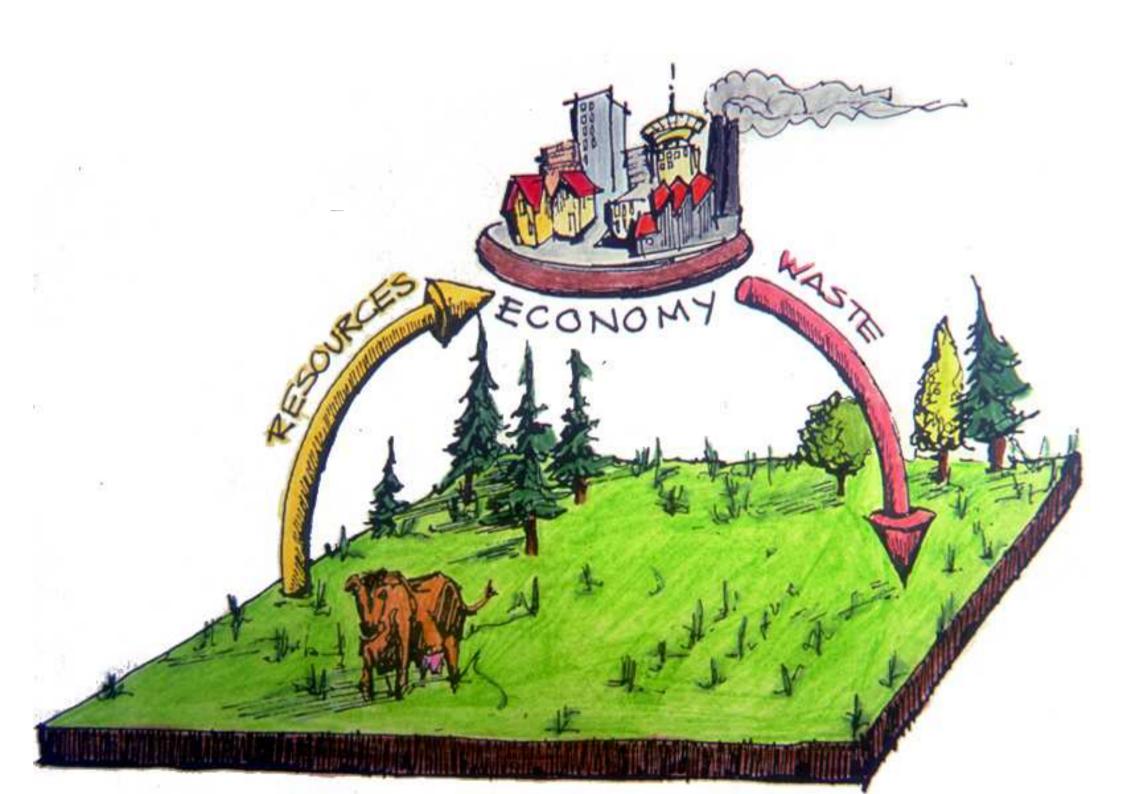
If you don't have this capacity, you need a tool like the Footprint

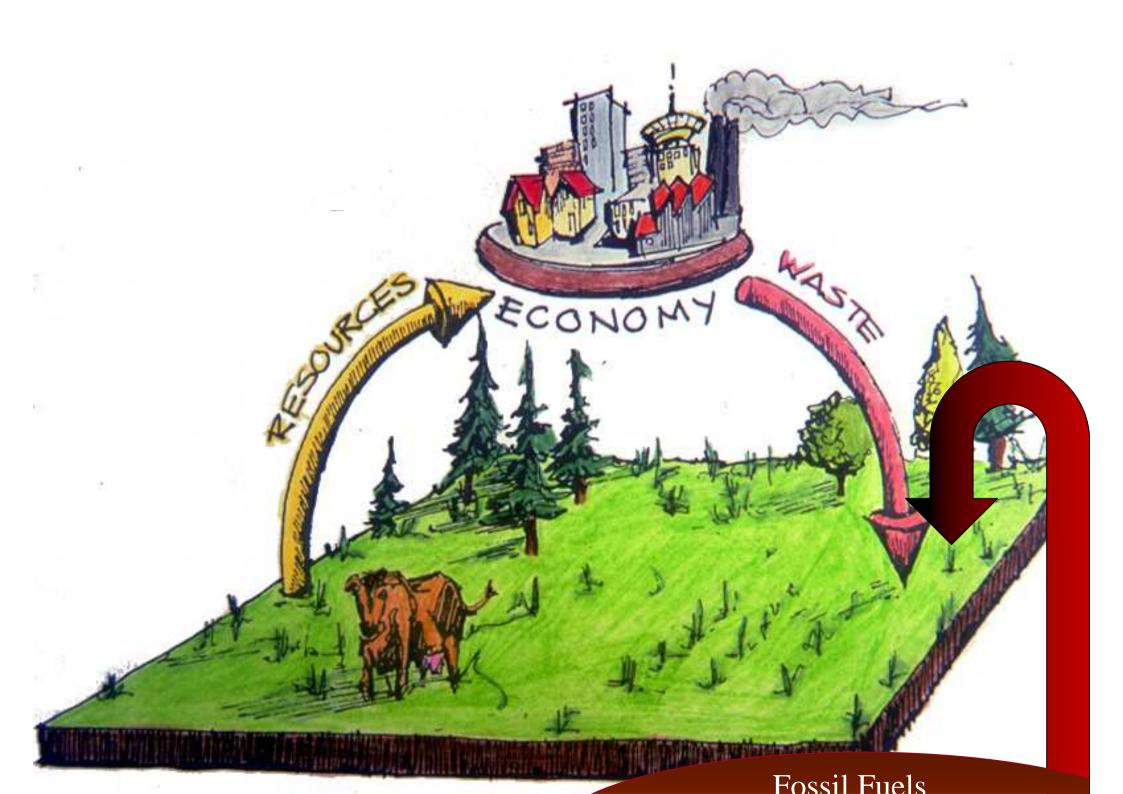
We seek collaborations with Hungary and its agencies to establish Footprint sideby-side with GDP



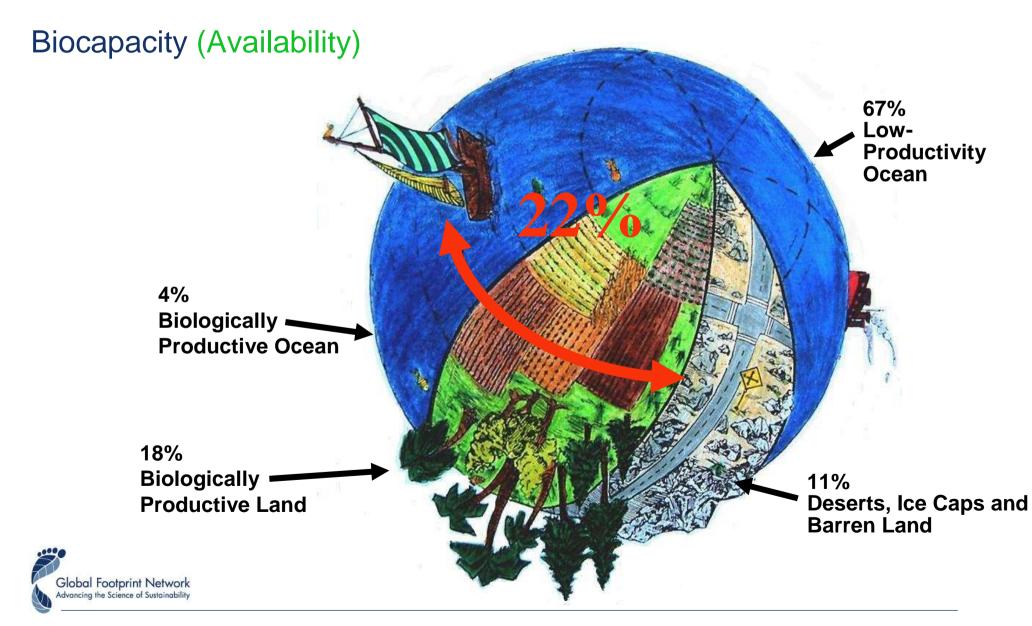






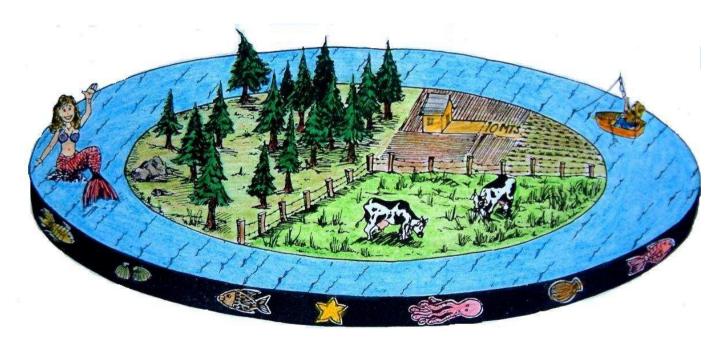








Biocapacity available per person (Availability)

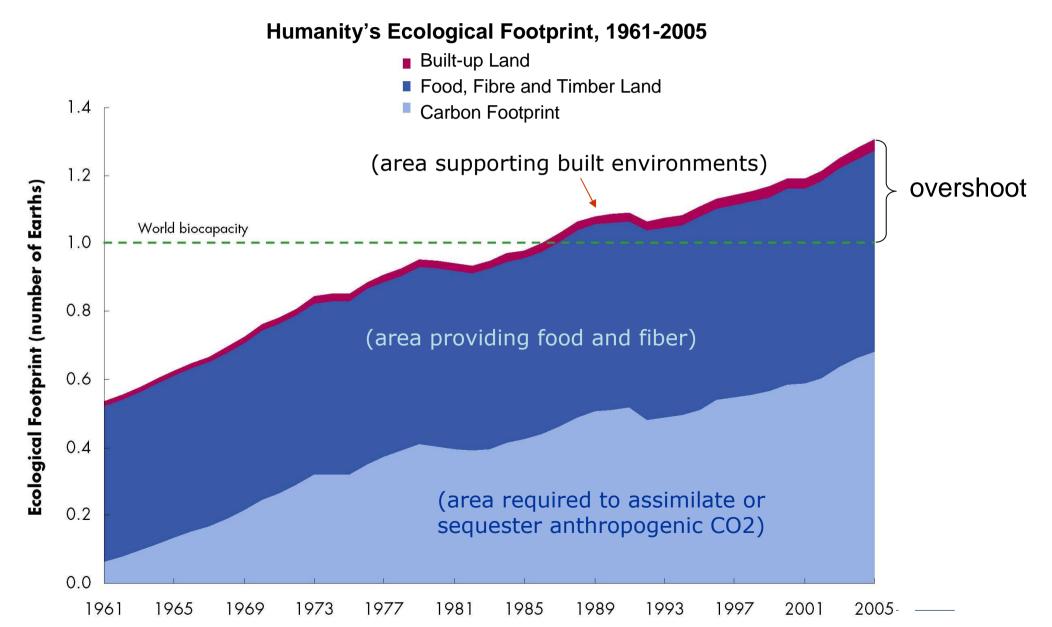


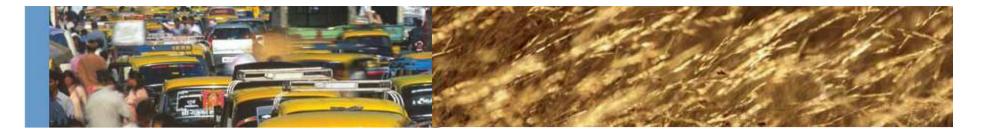
Global average availability of bioproductive Land + Sea = 2.1 global hectares/person (*in 2005*)



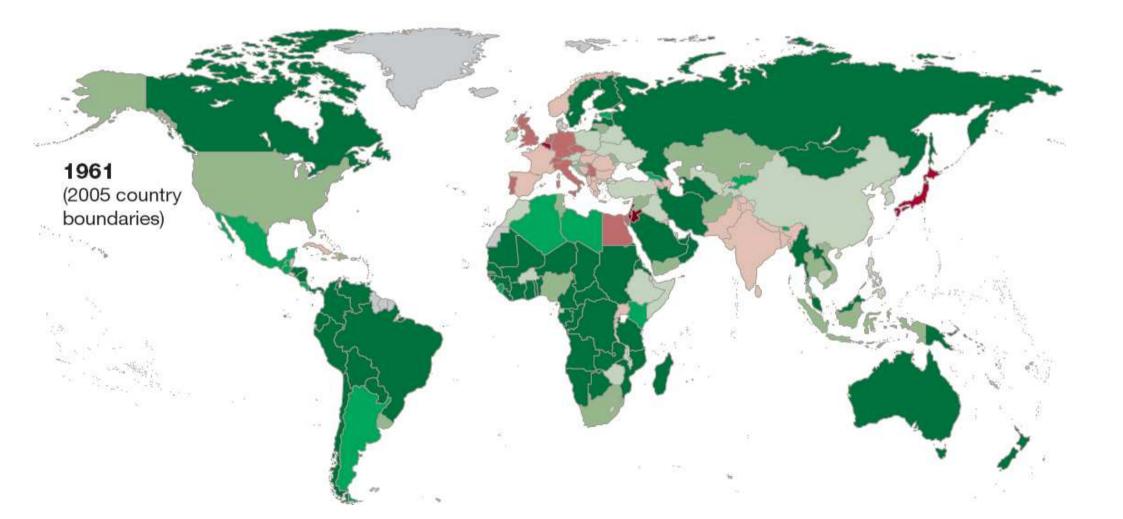


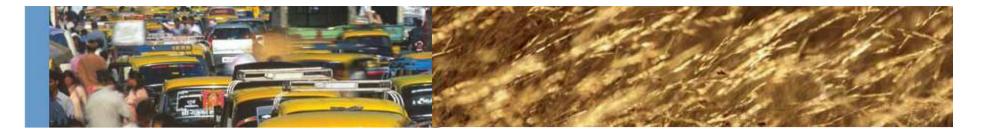




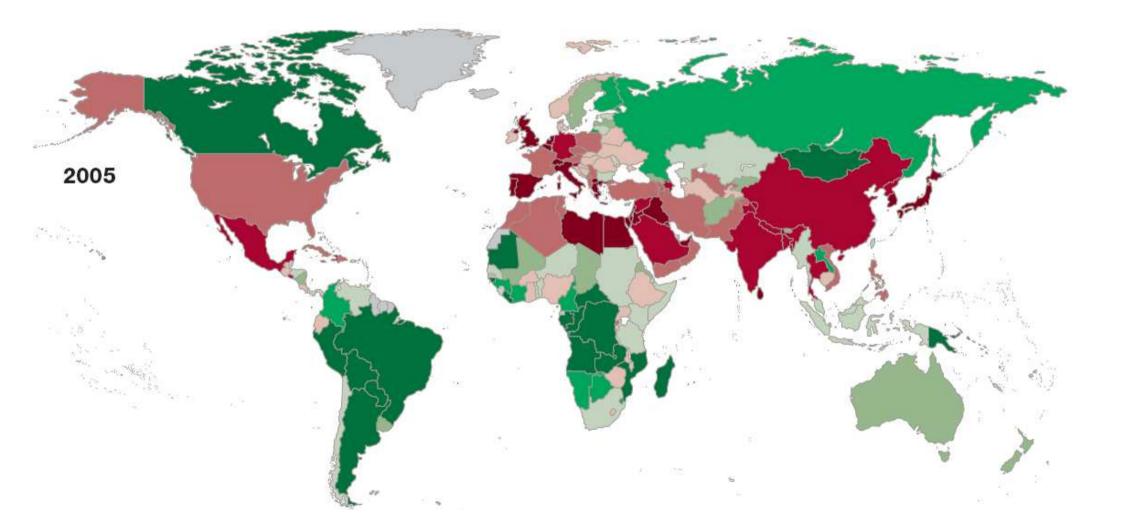


## **Ecological Creditors and Ecological Debtors**





## **Ecological Creditors and Ecological Debtors**



CALCULATION METHODOLOGY FOR THE NATIONAL FOOTPRINT ACCOUNTS, 2008 EDITON Version 1.0

TORER 2008

# www.footprintnetwork.org/atlas

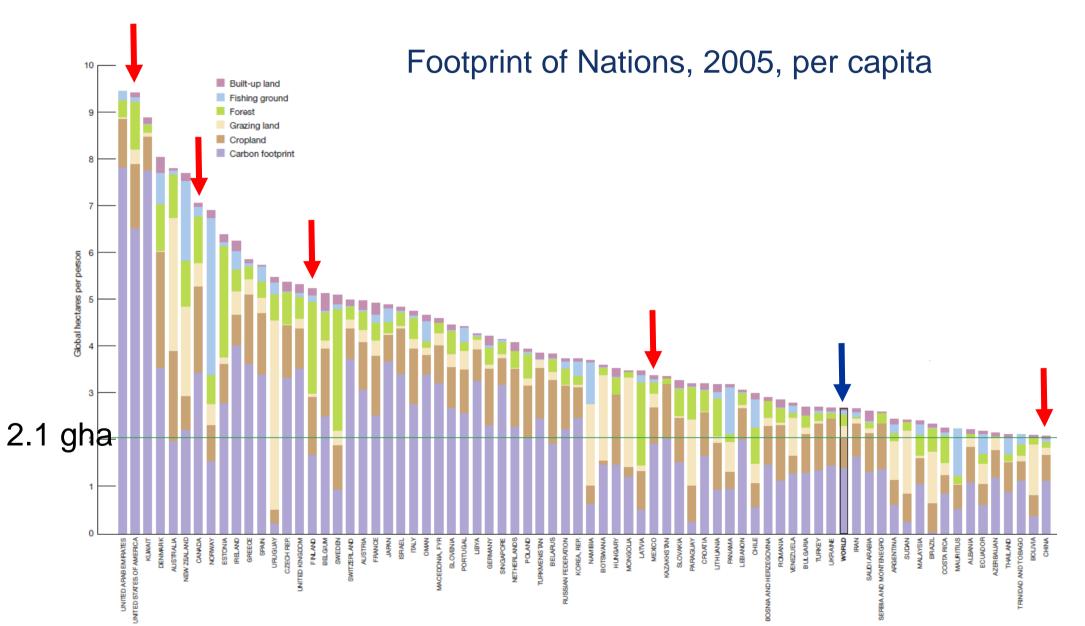
Global Footprint Netwo

THE ECOLOGICAL FOOTPRINT ATLAS 2008

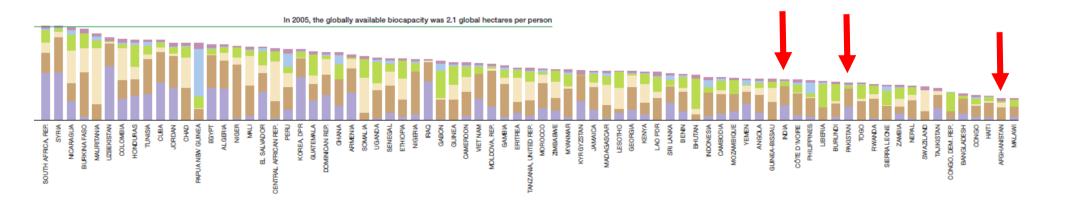


GUIDEBOOK TO THE NATIONAL FOOTPRINT ACCOUNTS 2008







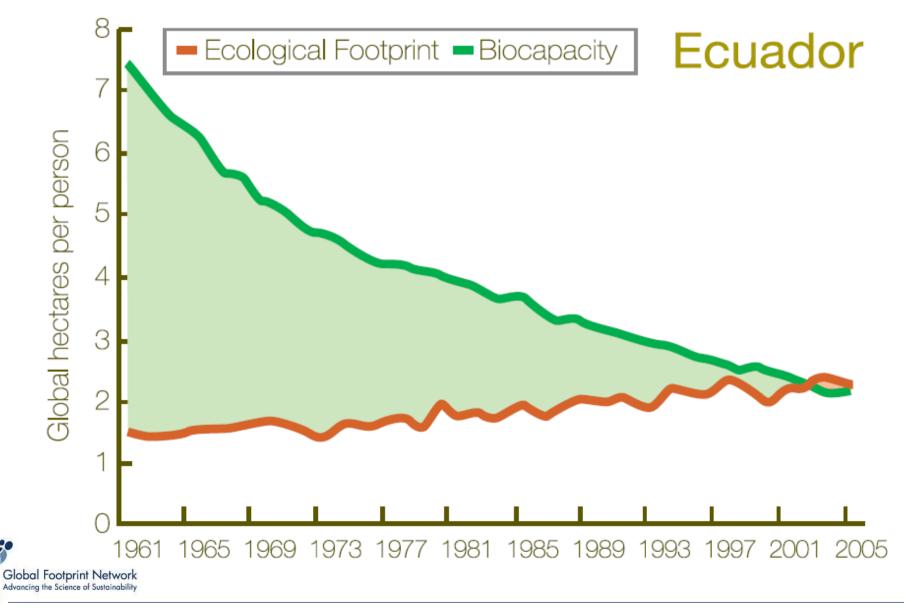


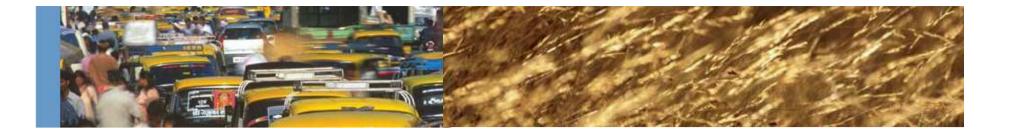


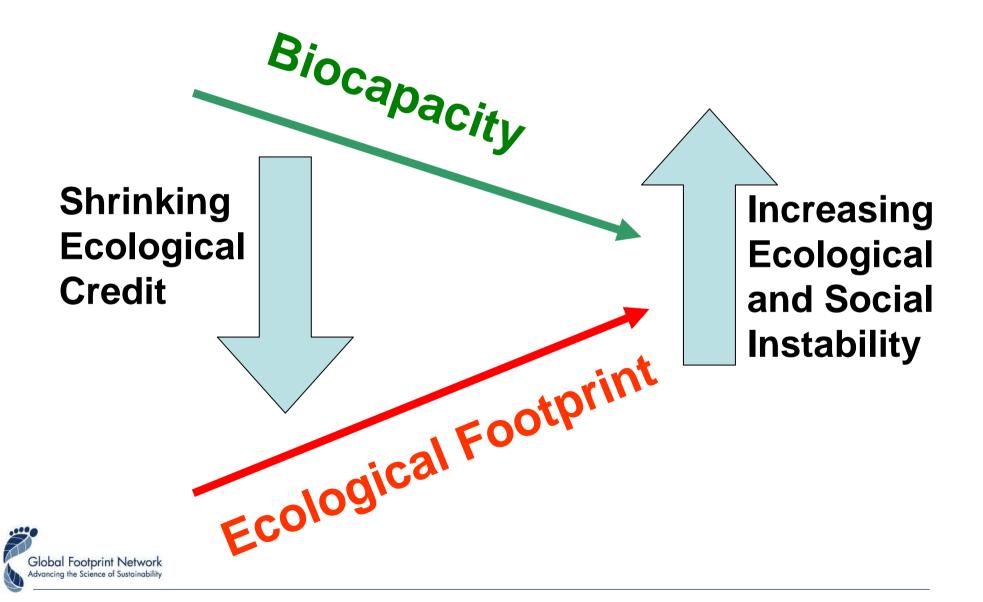
Data for 2005	Ecological Footprint	Biocapacity
	[global ha /cap]	[global ha/cap]
Brazil	2.4	7.3
China	2.1	0.9
Egypt	1.7	0.4
Italy	4.8	1.2
Japan	4.9	0.6
Russia	3.7	8.1
Mexico	3.4	1.7
US	9.4	5.0
WORLD	2.7	2.1





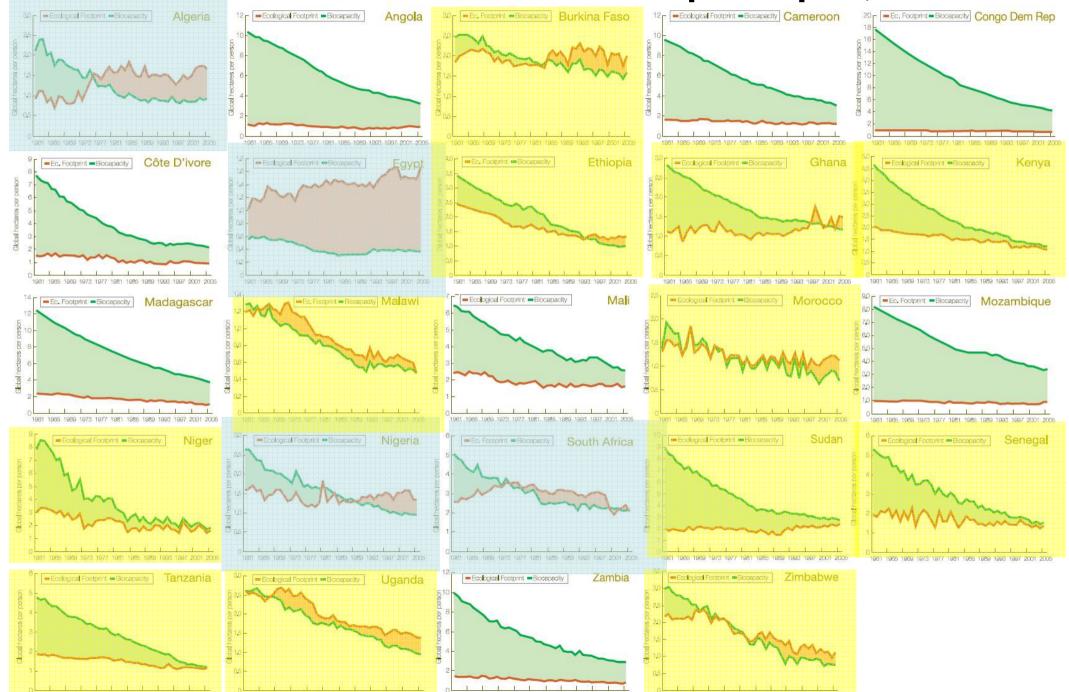


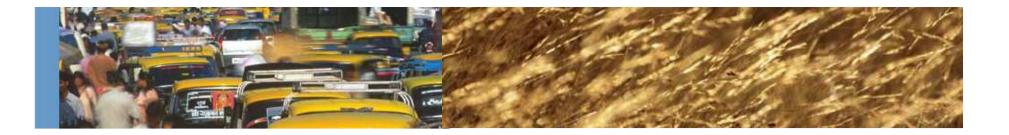




## **Ecological Creditors and Ecological Debtors in Africa**

#### Fig. Nº13 Ecological Footprint & Biocapacity per capita 1961-2005. Africa per capita, 1961-2005





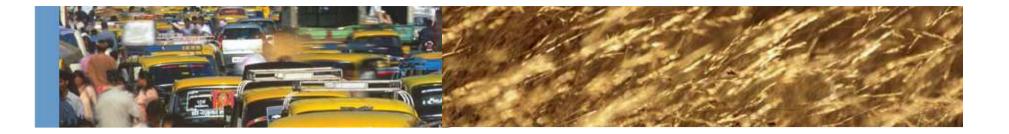
## What do these graphs show?

All 24 countries are loosing biocapacity per capita rapidly

4 have assets to afford import and fossil fuel burning

12 countries' development is limited by their (declining) biocapacity – leading to SEVERE conflicts





# **PIONEER COUNTRIES SO FAR**

Switzerland Japan United Arab Emirates Belgium Ecuador Luxembourg Finland EU





# Why

# UAE?



## **Tools for Change**

Footprint shows:

- Time trends (broken up by drivers and components)
- Split up by activities
- "What if" to assess impact on turning around trends





# Vision (phase I, II, & III)

Phase I – VALIDATE - Start with a boring report verifying the validity of the basic numbers (are numbers good enough?). Both Biocapacity and Footprint trends

Phase II – INTERPRET - Based on this report, run engagement workshops with broad constituencies – finance ministries, economics professors, environmental scientists to capture wide range of opinions (inside the tent). Ask questions

Phase III – APPLY – Tools for decision-making



# How will **OVErshoot** play out?

How can we Operate without knowing how much nature We have, and how much We USE?

# Are we better off with no estimates than with imperfect estimates?

# What **COUNTRIES** should we bet on?

Where is the Self-interest for nations in this new era?

# What Strategies also turn the global economy into a positive-sum game?

What actions will succeed if **Copenhagen** fails?

Which innovations are needed to reverse global overshoot?

# Who are the WinnerS of the 21<sup>st</sup> century?

We may not have all the **ANSWERS**, but we're asking pertinent **QUESTIONS** 



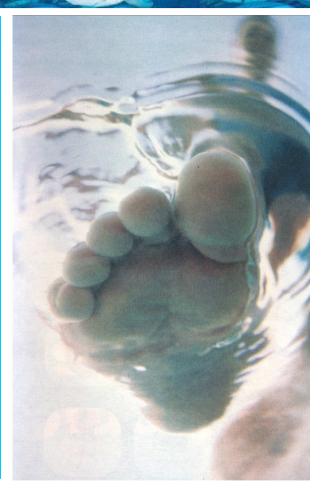


# Get ready for "peak everything."

For cities, states and nations, the benefit of acting is overwhelming.

# Will Hungary be a leader or laggard?

mathis@footprintnetwork.org

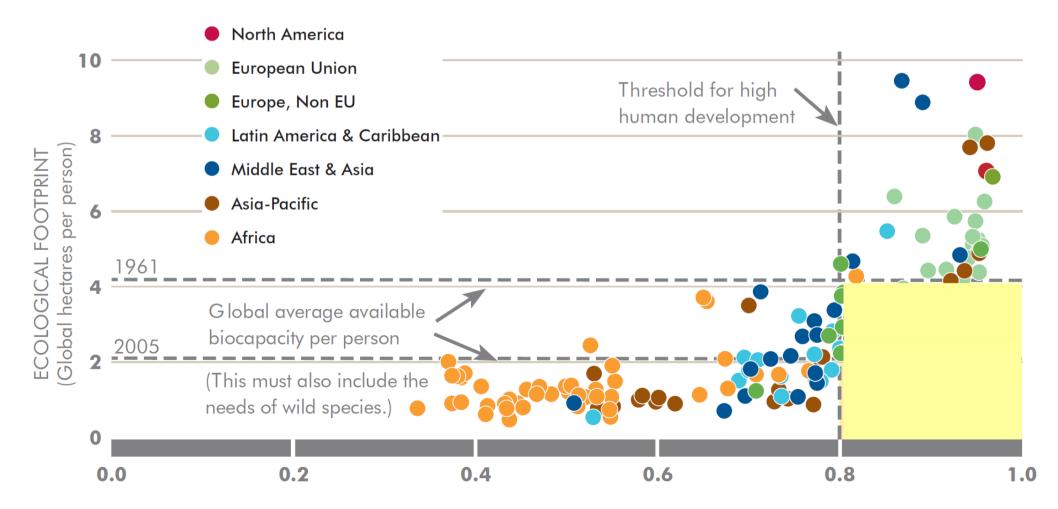


# Winning together





#### How close to global sustainability are we today?



HUMAN DEVELOPMENT INDEX



#### Why now and not before?

#### From 'empty world' to 'full world'

