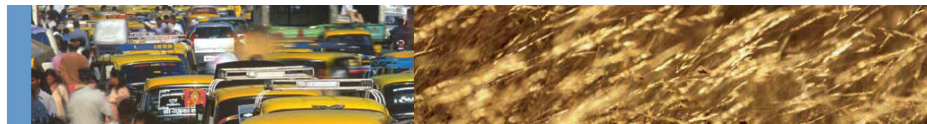




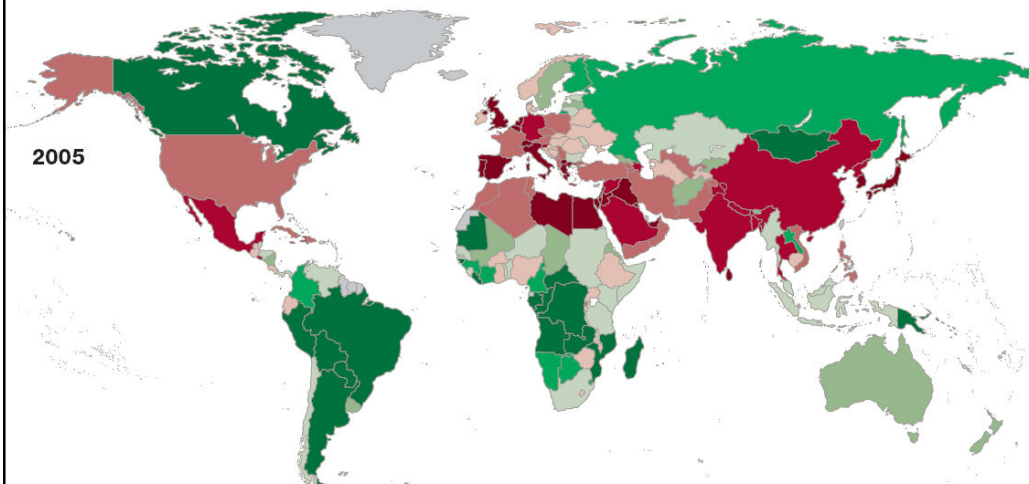
SUCCESSING WITH “*PEAK EVERYTHING*” AROUND THE CORNER

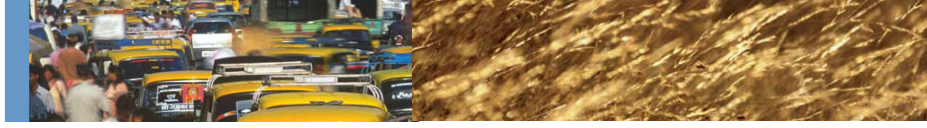
Mathis Wackernagel, PhD

6th Annual Sustainable Biodiesel Summit, Feb 1, 2009

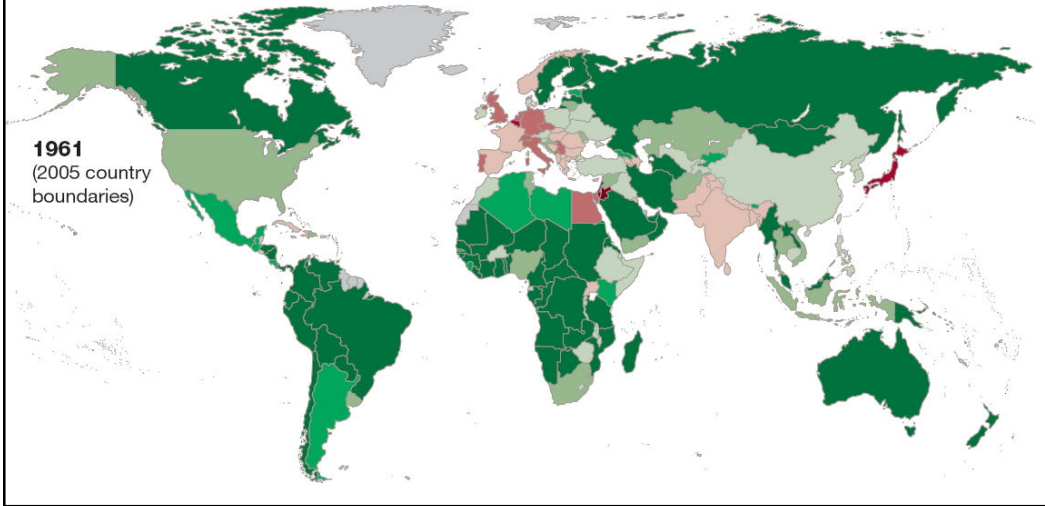


Ecological Creditors and Ecological Debtors



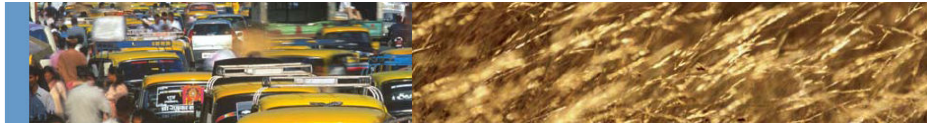
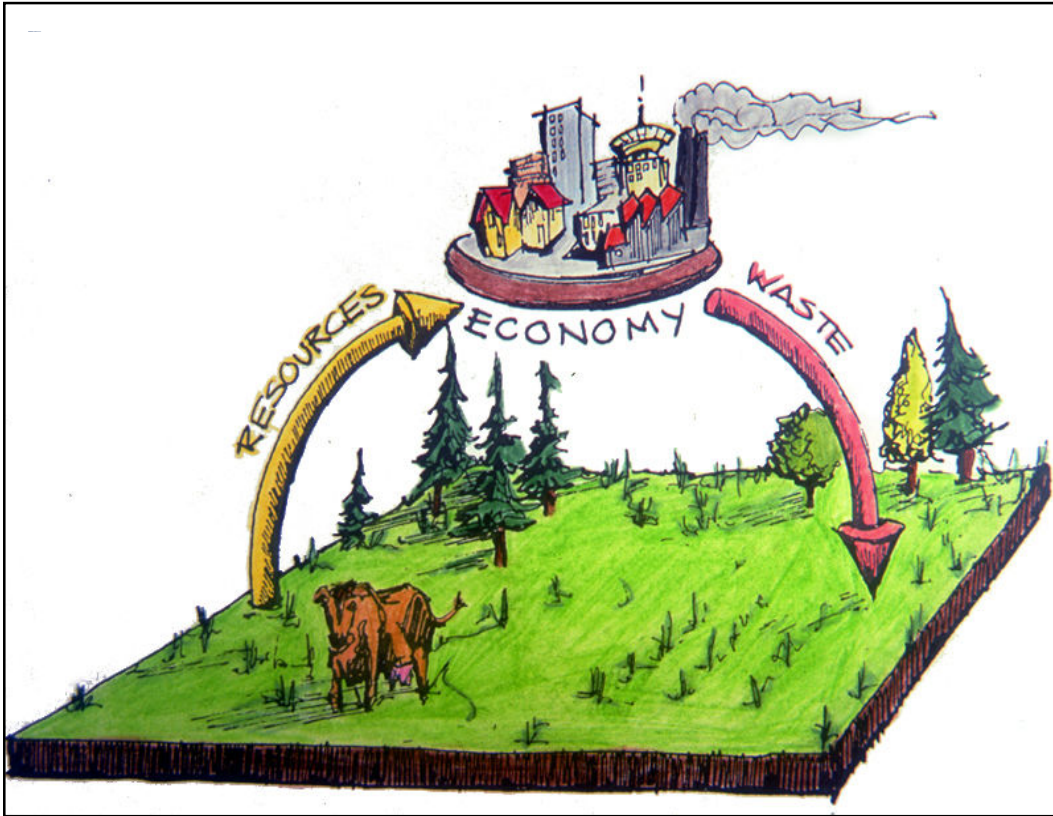


Ecological Creditors and Ecological Debtors

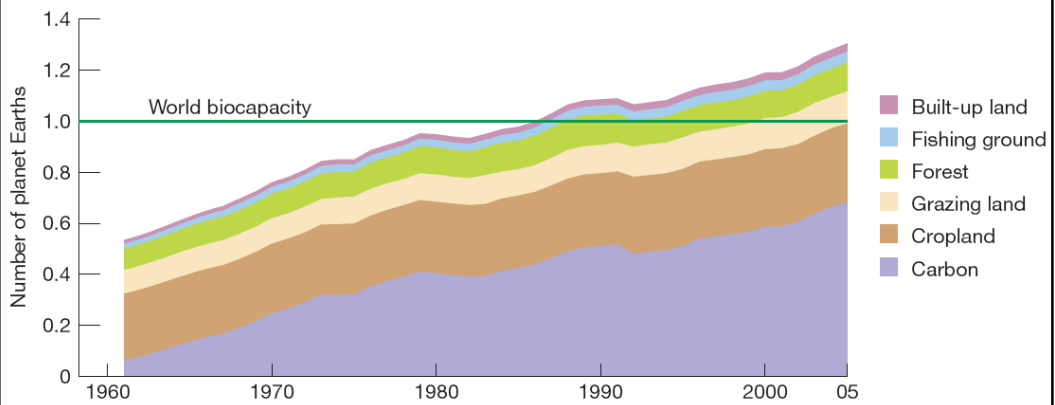


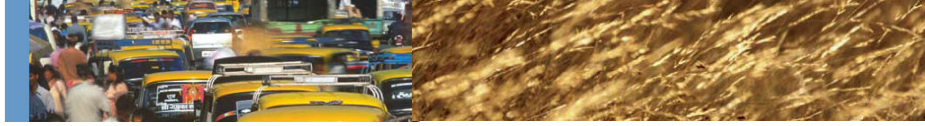
The Ecological Footprint



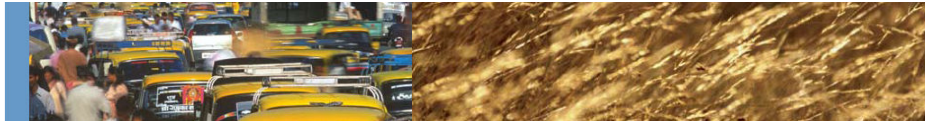
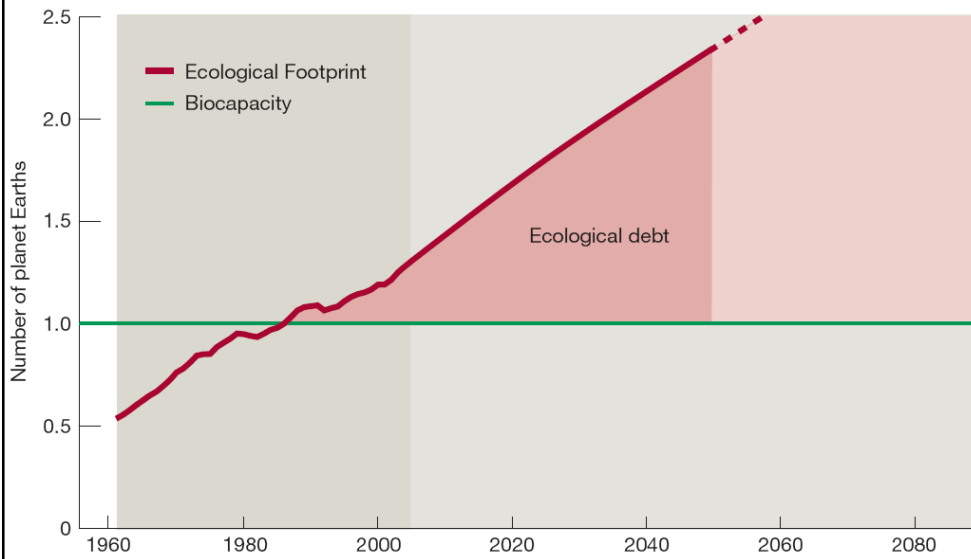


Humanity's Ecological Footprint (1961 – 2005)



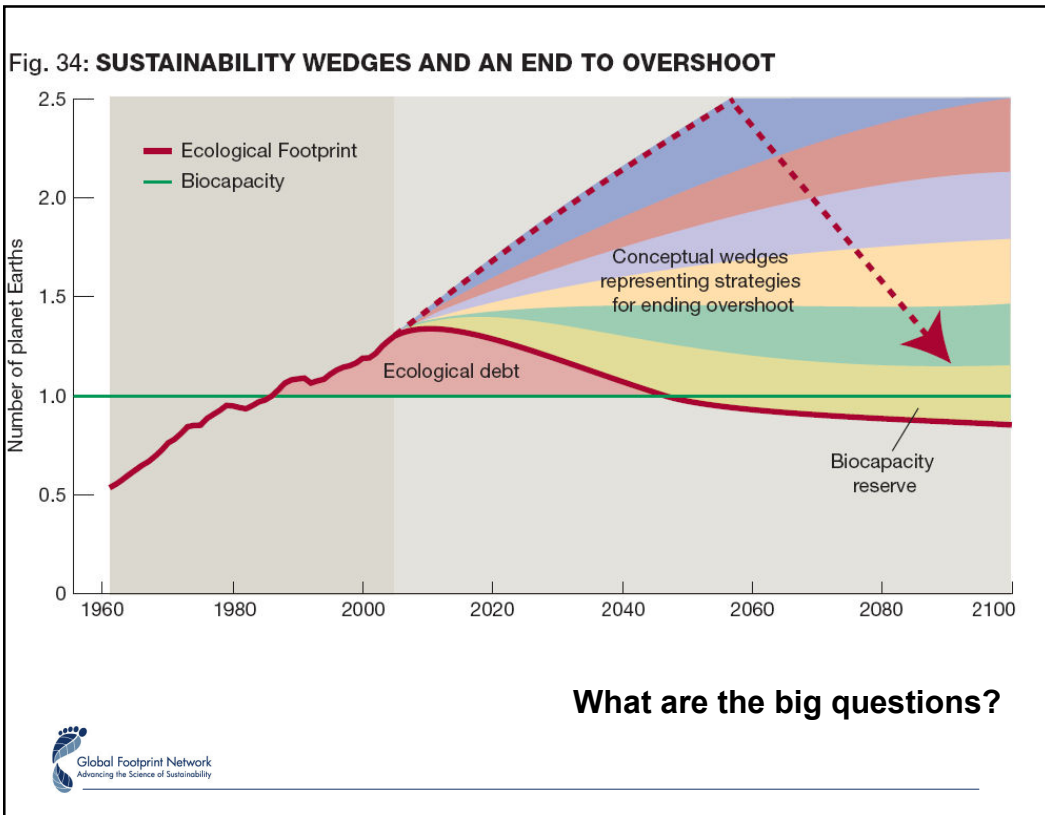
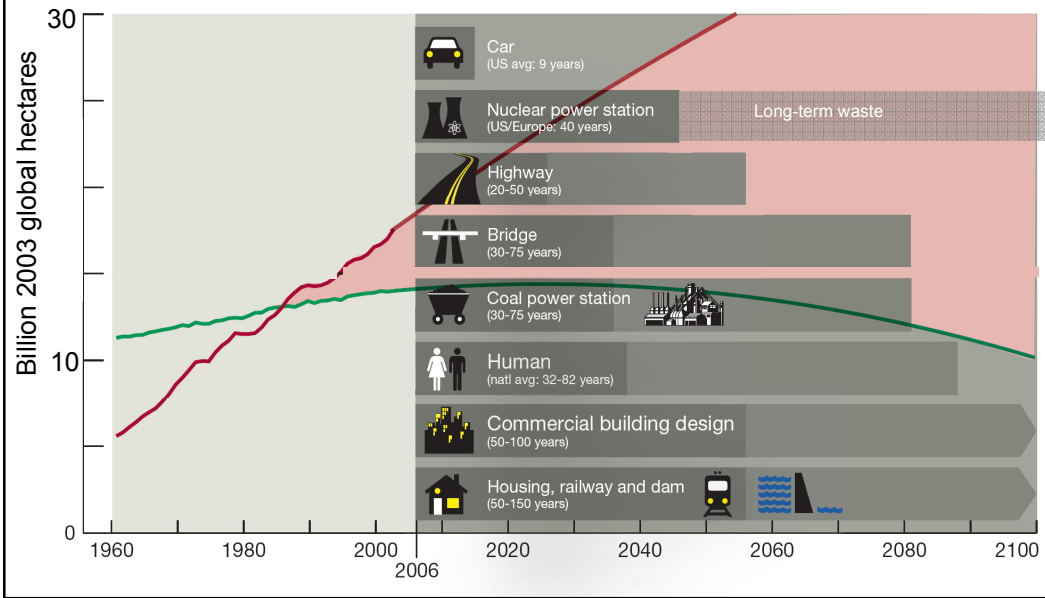
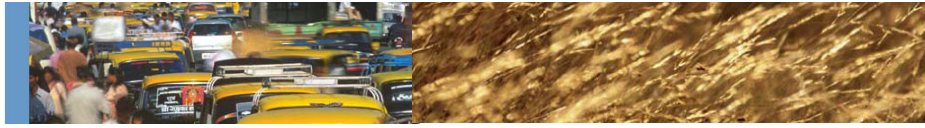


UN's Most Moderate Scenario and Ecological Debt

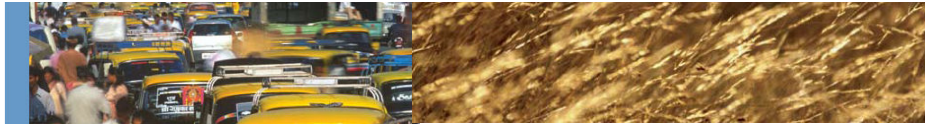


EVALUATION APPROACHES FOR BIODIESEL

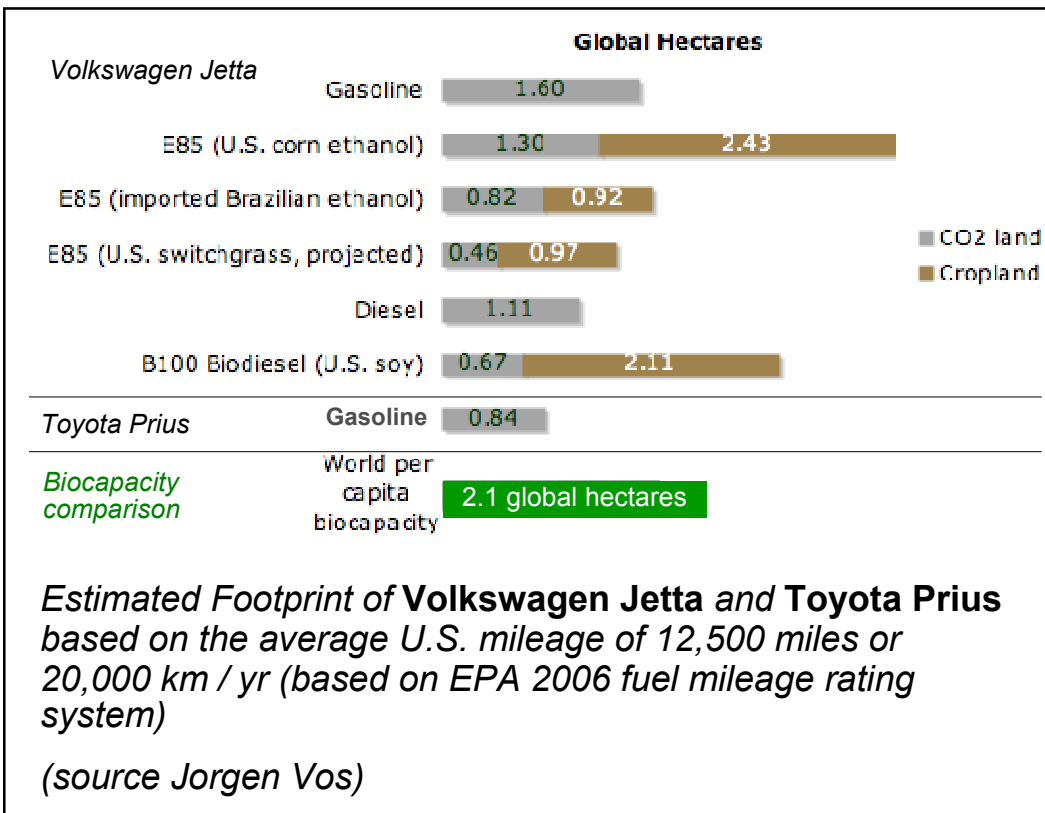
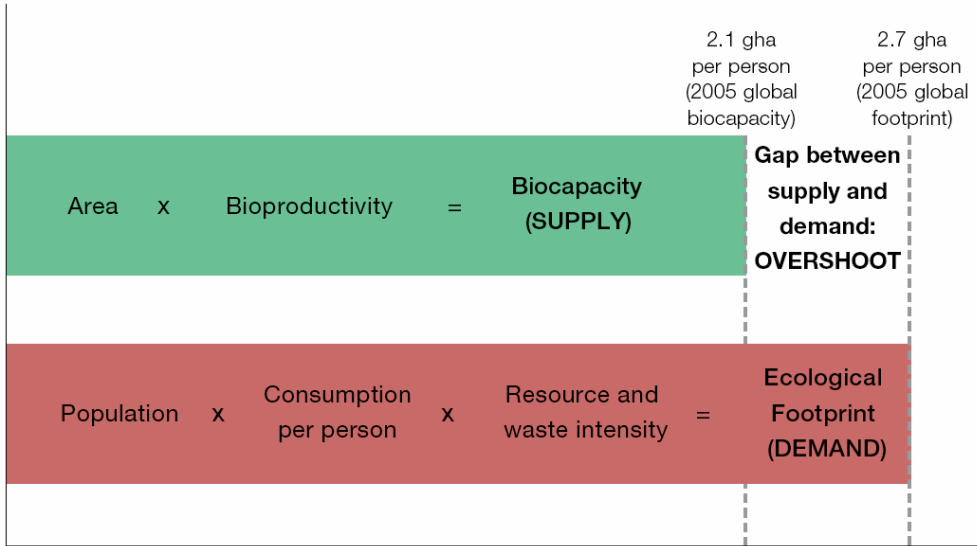
1. Standard compliance (human health, organic labels etc.)
2. EROI
3. Relative biocapacity performance among energy options
4. SD ROI
5. Scale: Current demand and supply potential
6. Scenarios – input supply, demands



What are the big questions?



Footprint and Biocapacity Factors that Determine Overshoot



Why UAE?

Building lasting wealth!



THE BOTTOMLINE

In a severely resource constrained world (“peak everything”), your ecological deficit will erode your competitiveness.

It is a matter of core strategy, not “Sunday school”.

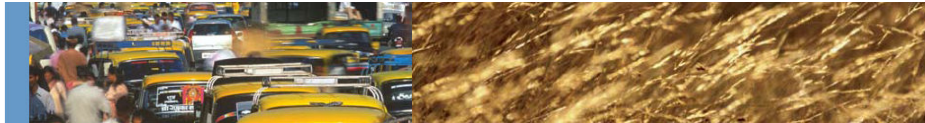
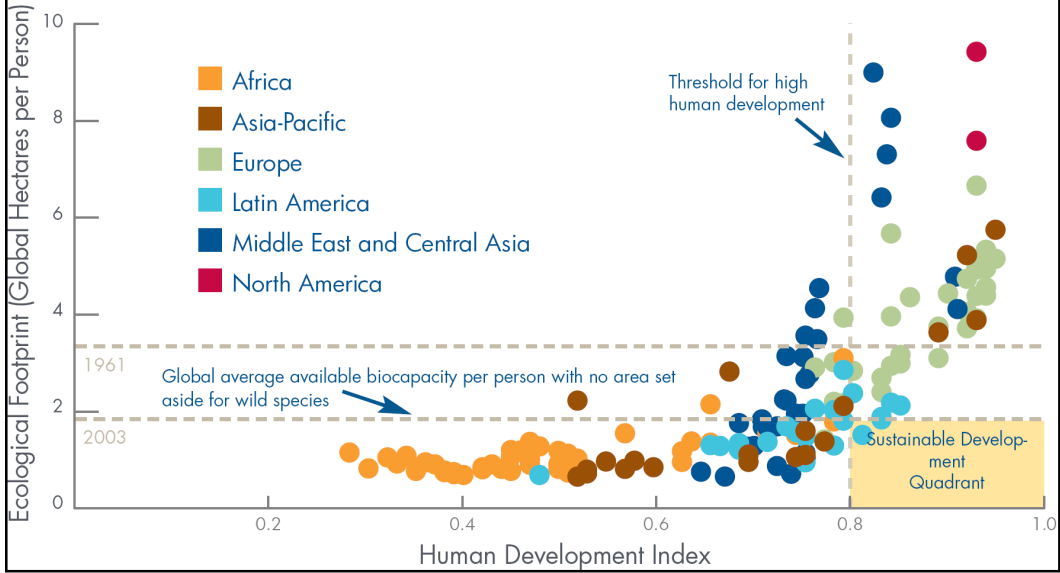


Winning together

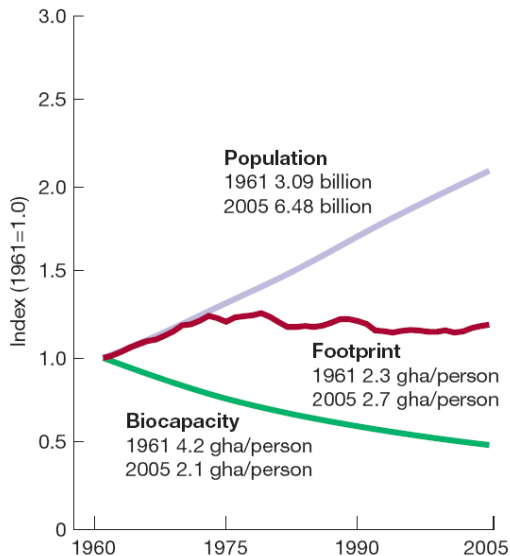


SUSTAINABLE DEVELOPMENT: WHERE ARE WE TODAY?

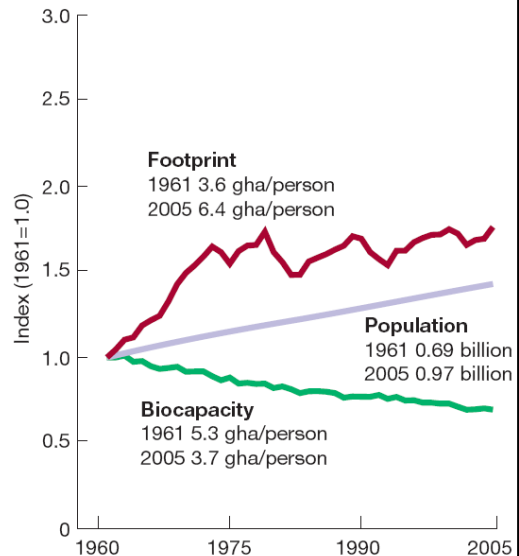
Human Development Index and Ecological Footprint of Nations (2003)

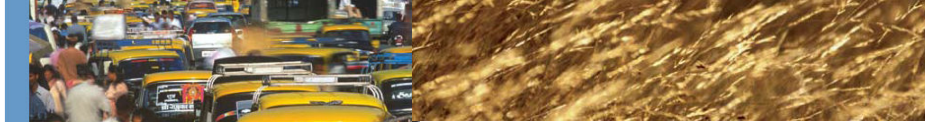


World

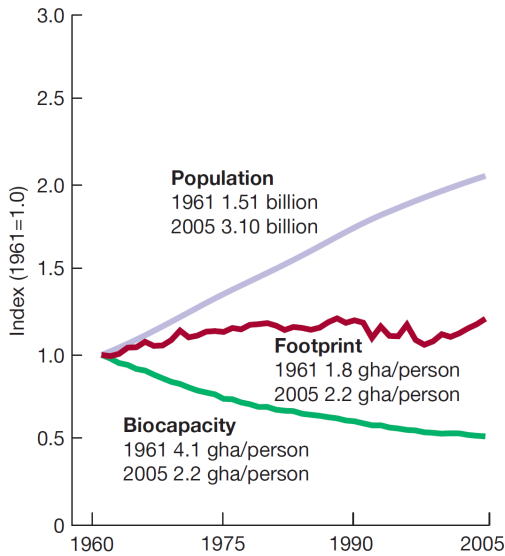


High-income countries

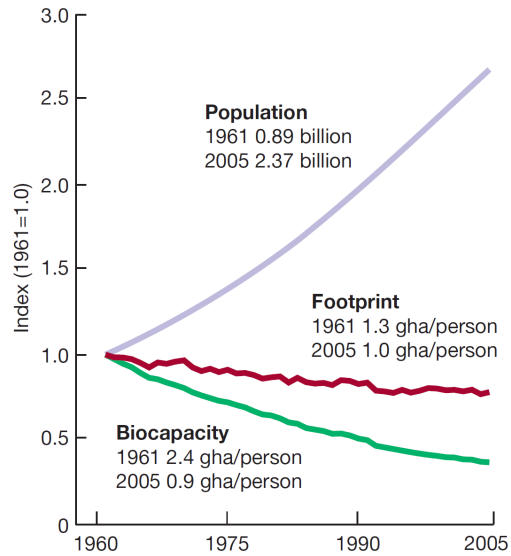




Middle-income countries

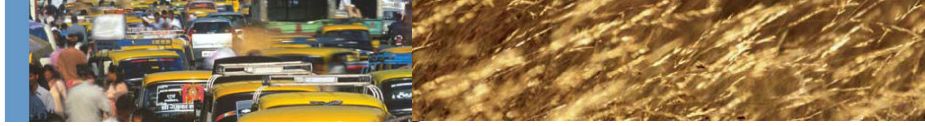


Low-income countries



Why “Ecological Footprint Thinking”?

- **explains to decision-makers the challenges** posed by an increasingly complex, ecologically-constrained world
- more easily **communicates the benefits** of aggressive sustainability initiatives
- **identifies risks and opportunities**



EVALUATION APPROACHES FOR BIODIESEL

1. Standard compliance (human health, organic labels etc.)
2. EROI
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5. Current demand and supply potential
6. Scenarios – input supply, demands



Global Footprint Network
Advancing the Science of Sustainability



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