Sustainable Production, Consumption and Eco-Efficiency

Presentation at the Panel on Sustainable Consumption and Production SCP

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What is SCP?

Essentially sustainable development, but another way to slice the cake with focus on producers and consumers.

Governments are involved as producers, consumers and regulators

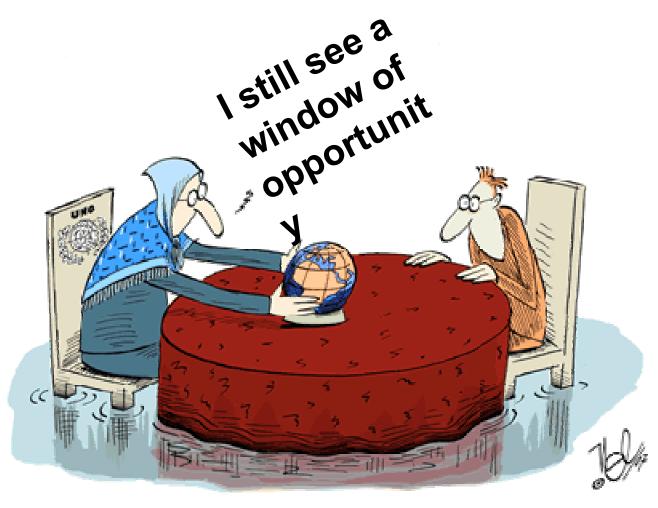
Consequently

Objectives do exist: MDGs, Cancun, Nagoya,...

SCP specific goals have to be derived from them

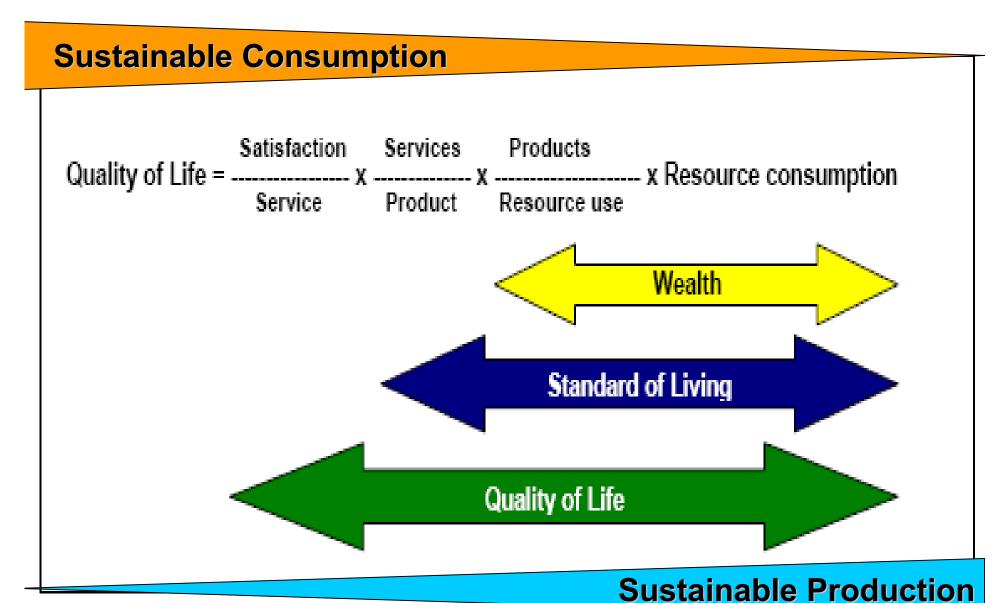
Objectives already exist

Deriving corres-ponding goals is urgent



Climate trend projection

Factors contributing to the quality of life



Source: J.H.Spangenberg

Sustainable Production & Consumption

<u>Consumer satisfaction</u> <u></u> Resources activated

Consumer satisfaction X Services consumed X Services consumed Services generated

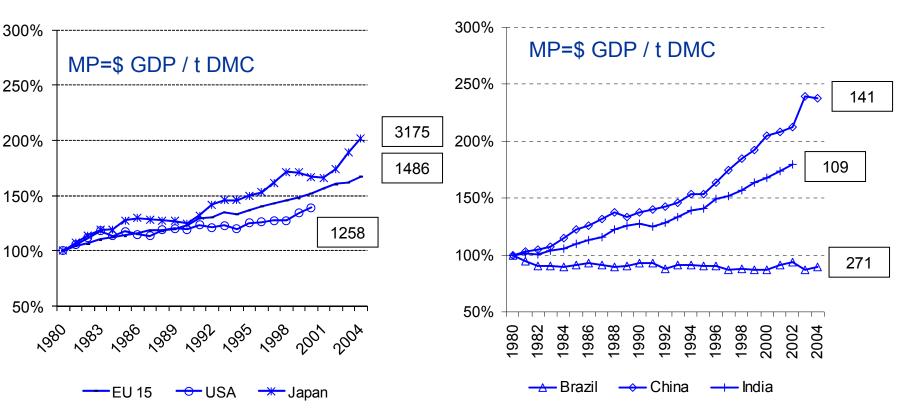
Services generated X Physical input Physical input Resources activated

Satisfaction efficiency x supply efficiency x production efficiency x provision efficiency

Sustainable Production: increasing material productivity 1980-2005

Industrial countries

Developing countries



Source: M. Fischer-Kowalski, social ecology, Vienna

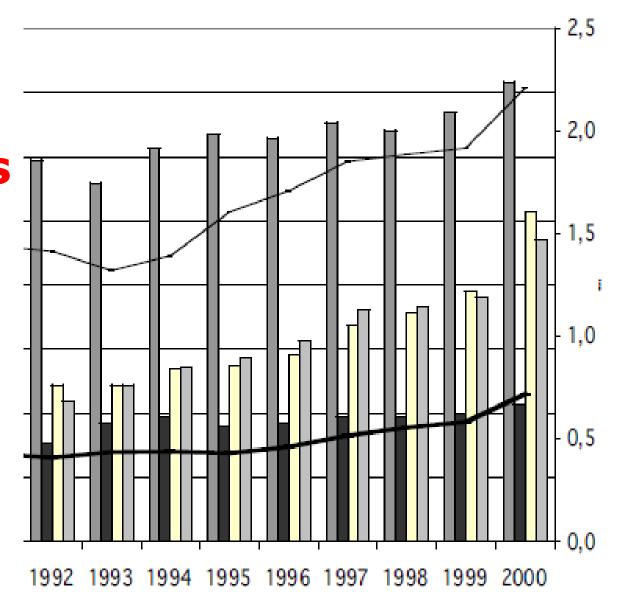
More sustainable production, less sustainable

consumption:

EU Trade balance trends

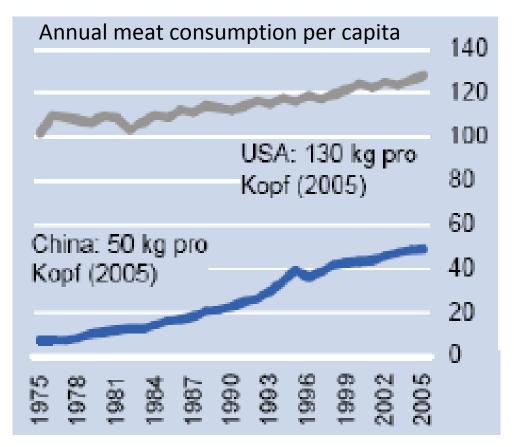
Physical imports (grey) and exports (black) in million t, lines and columns.

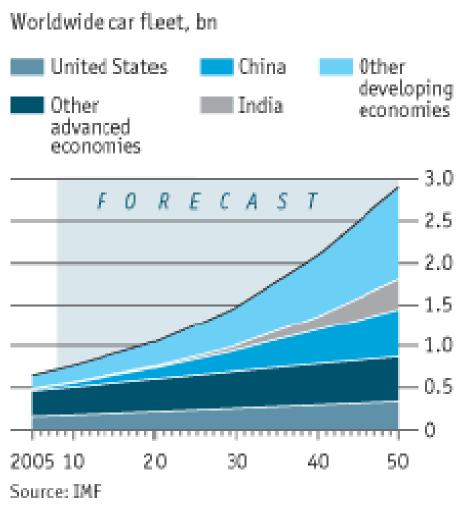
Monetary imports (white) and exports (grey) in billion €/ECU, columns



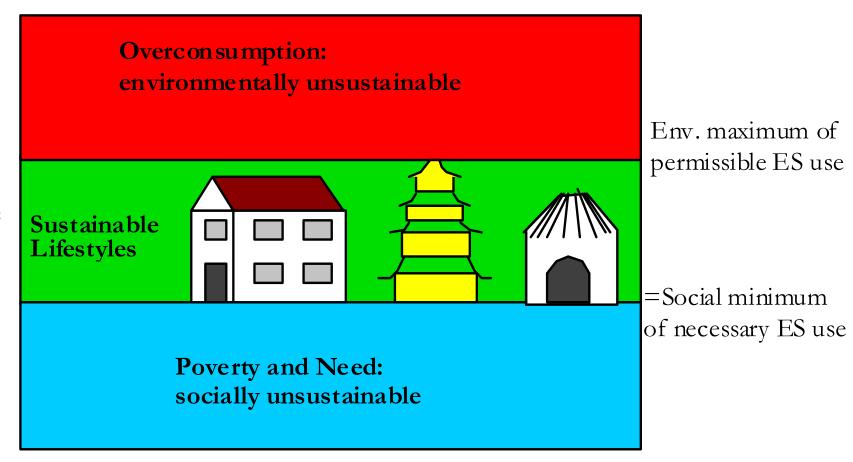
Consumption is the key driver, globally

(not population)



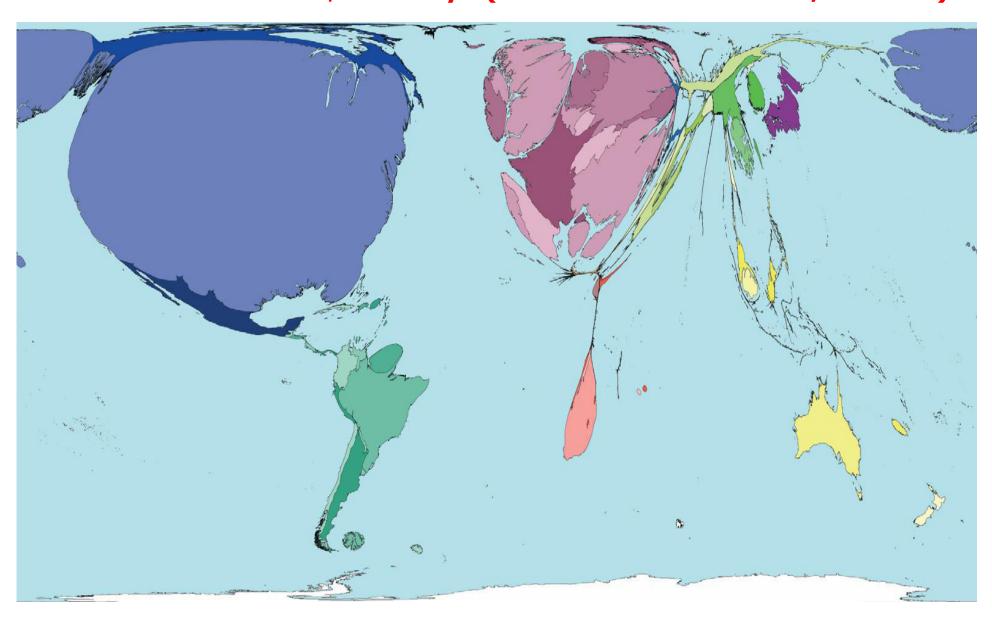


Linea de dignidad: There is a lower threshold for consumption to be sustainable



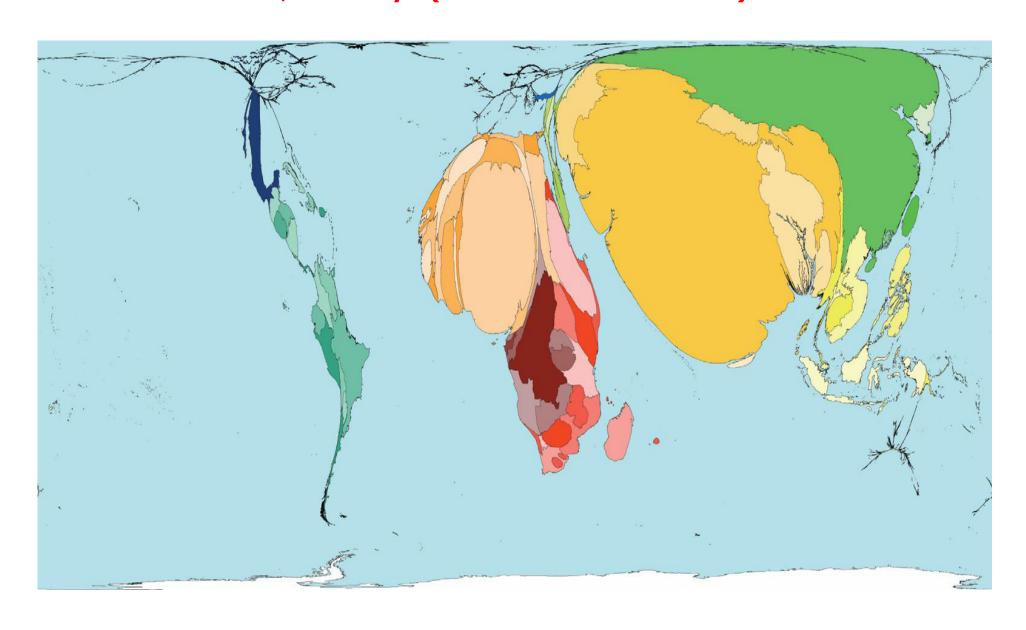
Available ES/cap

Inhabitants with a per capita income above 200 US \$ a day (total: 53 million, 2002)



Inhabitants with a per capita income

below 1 US \$ a day (total: 3.5 billion)



Env. Sustainable Consumption

Consumer satisfaction X Services consumed Services consumed Services generated

Services generated X Physical input = Physical input Resources activated

Satisfaction efficiency x supply efficiency x production efficiency x provision efficiency

Three Conditions of Change

Personal affordability:

Knowledge and motivation, the individual willingness to change

Social affordability:

Acceptance, even better desirability of changed consumption patterns in the eyes of relevant peer groups

Economic affordability:

Access to suitable alternatives, without disproportional excess effort (price, transaction cost)

Sustainable Consumption:

Three priority fields for action

Consumption	Influence of	Env			
clusters	private households	relevance			
Clothing	X				
Education/ training		X			
Food	X	X			
Health care		X			
Construction/hous	ing X	X			
Hygiene	X				
Cleaning	X				
Recreation	X				
Social life		X			
Transport	X	X			
Blue: household priorities. Black: public priorities.					
Grey: no priorities					

Three Kinds of Tools

available:

legal §, economic €, informational i

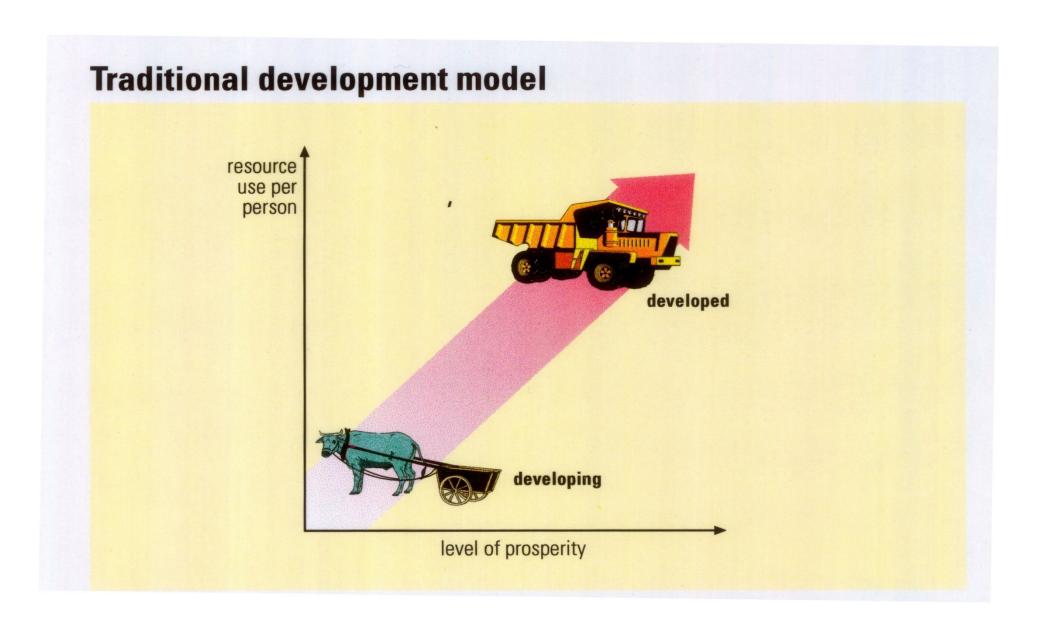
suitable:

Tool Affordability	Ø	€	i
Personal	0	+	+
Social	0	(+)	(+)
Economic	+	+	0

used: i, i (labelling), €, i, i, €, i, i, i, ...

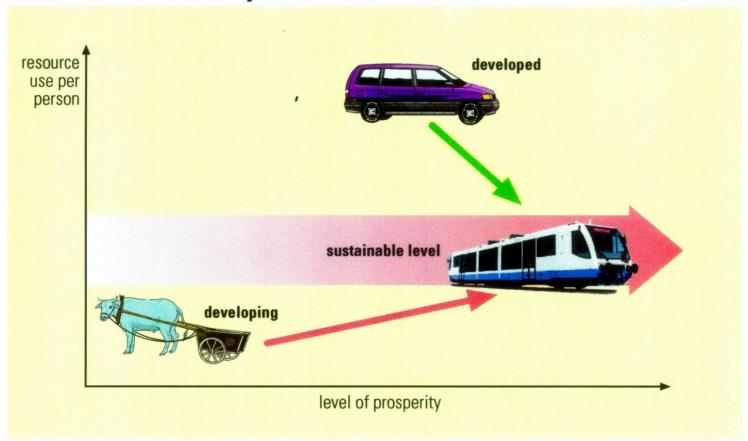
i & I have proven effective but take 10 years for what § achieves in 10 months

Changing the Model 1



Changing the Model 2

Sustainable development model



Exploiting the whole tool box

- Maximum effectiveness combines §, € and i
- Experiment, try new approaches like feed-in tariffs in Germany, top runner rules in Japan, procurement and investment in Luxemburg, green stimulus in South Korea and PR China
- Establish a clearing house for identifying best practice
- Establish an information exchange mechanism including a science-policy interface

Address sustainable consumption

- Provide information where missing, (often capabilities, not information is lacking); avoid information overkill, support stakeholder networks (horizontal, not top-down)
- Make sure better products are available and affordable (transaction cost and price, product guaranty regulation, takeback rules,...)
- Support social change/group behaviour, promote sustainable consumption as status, provide leadership by example (highest rank =

Stigmatise unsustainable consumption

Today, too may people
Use money they don't have
To buy things they don't need
To impress people they don't like.

We can do better than that.

Thank you for your attention!

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