



## Thematic Strategy on the Sustainable Use of Natural Resources

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#### European Commission DG Environment – G4 Werner Bosmans





#### Natural resources





## RAW MATERIALS Minerals-fuels Biomass



FLOWS Solar Wind Tidal



MEDIA Air Soil Water



What is the Issue ? The Life-cycle

### Growing technosphere

Extraction: 16 tons To physical stock: 10 tons

Disposal: 6 tons

**Sink** 

Source



Threats to ecosystem services !





## **Objectives and Approach**

- 1. <u>Decoupling</u> reducing negative impacts of resource use in a growing economy
- 2. Improving resource efficiency
- 3. Focus on key economic sectors

- Long-term framework (25 years) 5 year revision-cycle
- Knowledge base
- Co-ordinating function to ensure enhanced coherence and efficiency & building on existing policies
- Life cycle thinking







- Include whole life cycle of product: avoid shifting-of-burdens among life cycle phases and countries
- **Consider all impacts** on the environment, human health, and resource availability: avoid shifting-of-burdens among impacts
- **Quantify impacts on absolute basis:** enable direct comparisons of options, also of very different systems that have same functional unit
- $\checkmark$  Identifies opportunities for improvement of goods and services
- ✓ Supports more coherent and science-based policy making
- ✓ Allows flexible implementation and measures by private sector



## **Actions**



- 1. Global dimension: International Panel
- MS involvement for national measures by establishing an High Level Forum
- 3. Voluntary participation of sectors in economic sector initiatives
- 4. Building the knowledge base: Data Centre  $\Rightarrow$  To inform policy-makers
- 5. Development of **indicators**



## Actions



Building the knowledge base

- Data Centre:
  - To bring together available information
  - To monitor and analyse
  - => To inform policy-makers
- Data Centres on natural resources + products + waste
- EUROSTAT with DG ENV, JRC, EEA
- State of play: Terms of Reference setting up
- Link with European Platform on Life Cycle Assessment (LCA): Supporting business and policy making with reference data and recommended methods on LCA for better practice in LCA use and interpretation



# Actions: **Development of indicators**

- **Objectives:** To measure progress, identify priorities and set targets
- By Eurostat, together with JRC and EEA available in 2008
- How to measure "Environmental impact"?
- Related with **TARGETS** 
  - Example in Annex 1 of the Resource Strategy: in EU 15:
    "expect a rate of 3% resource productivity improvements per year for the period 2000-2030"
  - Council conclusions 23 Oct 06: "calls on the COM and MS to set targets for resource-specific impacts and eco-efficiency in order to complement the strategy by the year 2010"



**Objective:** Decoupling







## Link impact – resource efficiency (1)





Wuppertal Inst. & CE Solutions



# *Link impact – resource efficiency*







## *Link impact – resource efficiency (3)*



#### => What is the correct aggregation level for indicators?

E. van der Voet et al. - Leiden Univ., Wuppertal Inst. & CE Solutions

- "At the most detailed level, the level of individual materials, there seems to be no relation whatsoever between the weight of a certain material and its impacts."
- "there appears to be a correlation between the [EMC-DMC relation for countries], which is [..] significant. This probably implies that the composition of material consumption does not differ that much between countries which are to a certain extent comparable in terms of their market structure and have extensive trade flows with each other."
- "DMC is not appropriate as there is no linkage between environmental impacts and the underlying consumption in terms of kilograms. Also if the natural resource strategy is to contain long-term goals [...] one may question whether on such a long time-frame the changes in impacts will still correlate with the kilograms."



## **Existing projects (1)**



- Eipro Environmental Impact/ of PROducts. 70-80 % of impacts from:
  - food & drink
  - housing (buildings & occupancy)
  - (private) transport
- Impro (in progress): environmental IMprovement of PROducts
  - passenger cars
  - meat products
  - housing
- European Platform on Life Cycle Assessment (LCA)
- Green paper on Market Based Instruments to be completed soon

Eurostat	JRC	EEA
indicators and data	life-cycle impacts of	indicators and data
DATA CENTRE	natural resources	



## **Existing projects (2)**



- Potential of the Ecological Footprint (EF) for monitoring environmental impact:
  - Analysis of the EF as an aggregated indicator
  - Analysis how other assessment tools complement EF
    - e.g. HANPP (Human Appropriated Net Primary Productivity) index, and
    - □ SEEA (System of Environmental and Economic Accounts)
  - Elements for improvements of the EF methodology
- Strengthening the Knowledge Base:
  - Overview of significant resource trade flows and their environmental impacts
  - Database for world-wide contacts and inventory on natural resource flows and impacts
  - An expert discussion with stakeholders through workshops



## Actions Sectoral Initiatives



- Voluntary participation of sectors in economic sector initiatives:
  - **EU** Strategy for Growth and Jobs
  - Implementing the Community Lisbon Programme: A policy framework to strengthen EU manufacturing – towards a more integrated approach for industrial policy
- Together with DG ENTR
- Environmental reporting, indicators, targets, measures ...



Actions Subsidiarity



- MS involvement:
  - National measures and programmes
  - National monitoring mechanisms
  - National targets where possible
- Facilitator: High Level Forum / Meeting
  - "waste prevention and resource efficiency in a life-cycle perspective"
- Set up in 2007







#### International Panel on the Sustainable use of Natural Resources

- <u>Objectives</u>:
  - To provide independent advice
  - To contribute to knowledge base
  - To provide capacity building in developing countries
- <u>Members</u> (15-20): Internationally recognised experts
- With <u>UNEP</u> which will host the <u>Secretariat</u> in Paris
- <u>Trust Fund</u>: to enable governments to support the Panel
- <u>Board</u>: decides on work programme
- ☑ Inaugural Panel meeting foreseen for Autumn



## Achievements in the EU



- Significant degree of political buy-in at various levels
- Commitment by Commission AND European Council in renewed Sustainable Development Strategy:
  - "avoid overexploitation of renewable resources, apply the concept of life-cycle thinking, break the link between economic growth and environmental degradation"
  - "build on the EU Strategy on the sustainable use of natural resources"
- Council, in its conclusions of 23 October 2006, "welcomes the Commission's communication"
- European Parliament voted on 23 April 2007 on a resolution supporting the objectives and asking for more actions and targets



## **One Step ahead: SCP**



- Forthcoming EU Sustainable Consumption and Production (SCP) Action Plan:
  - the Resource Strategy serves as conceptual framework
  - the Action Plan focuses on specific, implementable measures.
- Preliminary ideas for the SCP Action Plan (including a better coherence of existing initiatives):
  - Extension of eco-design
  - Green private procurement
  - Market-based instruments
  - Environmental targets (ETAP)
  - Reinforce Eco-label scheme and Eco-Management and Audit Scheme (EMAS)
  - Promoting sustainable consumption



## The way forward



- The Resource Strategy offers a conceptual framework and an overarching objective
- ✤ It offers tools and orientation for other policies e.g. Waste SCP !
- Challenges:
  - ✓ To have full commitment to the decoupling goal and life-cycle thinking
  - $\checkmark$  To integrate this approach into all policies
  - $\checkmark$  To develop concrete measures

## This is not the end of a process but just its beginning We need your contribution to develop the right policy indicators

## Thank you for your attention

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http://europa.eu.int/comm/environment/natres/index.htm