

PBL Netherlands Environmental Assessment Agency

From accounts to policy

Environmental statistics and accounts in The Netherlands

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Lessons for WAVES Partnership countries

- We need transparency about decisions with regard to environmental statistics and a long term vision.
- Translating statistics into policy is a different task than compiling statistics.
- Different channels exist to connect statistics and policy.
- Environmental accounts often, but not always, yield relevant information for policies.



1. Long term vision on statistics and accounts

1969

- Start of the department of Environmental Statistics
- focus on waste and emissions to air and water

1974

- Pollutant Release and Transfer Register
- Focus on health issues related to water, soil and air

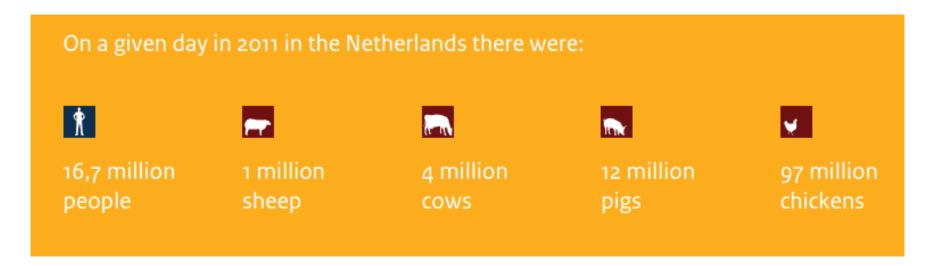
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 Accounts added: e.g. energy, manure, recycling, resource use, air-soil-water quality, noise and odor, nature and environmental costs/levies/sector



1. Environmental statistics: an example

Nutrient surpluses in agriculture.





1. Environmental statistics: an example

Nutrient surpluses in agriculture.

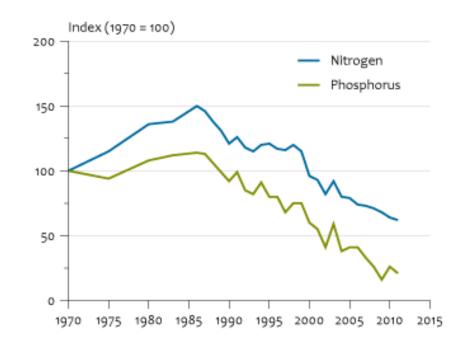
1960s: signs of environmental problems due to nutrient surplus.

1973: Unpublished estimates of the problem.

1982: First statistics on nutrient surpluses published.

1984: First policies to reduce nutrient surplus.

Nutrient surplus in agriculture



Source: CBS.



1. Long term vision on statistics and accounts

1994: NAMEA

Physical supply and use accounts

- Waste accounts
- Air and water emissions accounts
- Energy and water accounts
- Material flows

Subsoil Accounts

Petroleum and natural gas reserves

Monetary environmental accounts

Environmental taxes and charges, sector and costs

1996: Sustainable National Income (SNI)





2. Translating statistics into policy

Good statistics and accounts don't make good policy but good policy needs good statistics and accounts.

Statistics and accounts are better able to inform policy if they are provided with context and interpretation.

The information pyramid Society Images De toekomst is nú Balans van de Leefomgeving Policymakers Integrated policy studies Policymakers and researchers Researchers and competent authorities Researchers



2. Translating statistics into policy

Application in different phases of the policy cycle

Awareness raising and prioritization

Support policy making

Monitoring and evaluation

Other applications

Allocation of environmental costs and benefits

International comparison and obligations

Research



3. Channels to translate statistics into policy

Institutionalization of data collection and use

- CBS Central Commission for Statistics with Ministries and data users.
- Independent, trustworthy agencies work on statutory products the government must comment upon.
- Governmental advisory councils that associate with scientific, social and economic stakeholders



3. Channels to translate statistics into policy

Policy analysis and modelling has become a joint effort!

The institutional set up to realize this is characterized by

Division of tasks

Cooperation between agencies

Cooperation with policy makers

Oppenness and transparency



3. Channels to translate statistics into policy





4. Added value of environmental accounts

Scale of the problem

 Does the scale of the problem fit the accounting framework?

Decision making level

 Are the actual decision makers represented in the accounting framework?

Policy measures

- Are policies location dependent or generic?
- Is the accounting information appropriate for doing policy analyses?



Thank you

.. Dutch environmental

Economy

Domestic product (gross, market pr 2010)

Economy

Domestic product (gross, 2010)

Final consumption expent of 2010)

Investments in fixed asset Population

Employment

Environmentally adjusted

Adjusted national income reserves (net)

Energy

Net domestic energy use Energy intensity Extraction natural gas Mineral reserves gas³⁾ Valuation mineral reserve

> Labour input environmental goods Value added environmental goods (basic prices)

Water

Groundwater abstraction⁴⁾ million m³
Tap water use⁵⁾ million m³
Tap water use intensity litre/euro
Heavy metals to water⁶⁾ 1,000 eq.
Nutrients to water⁶⁾ 1,000 eq.

Materials

Material consumption biomass million kg
Material consumption metals million kg
Solid waste production million kg
Landfilled waste million kg

Greenhouse gas emissions and air pollution

Greenhouse gas emissions
Greenhouse gas emission intensity
CFK emissions (ozone layer depletion)
Acidifying emissions
Fine dust emissions

million CO₂-eq.
CO₂ eq/1,000 euro
thousand CFK12-eq.
billion ac-eq.
million kg

million euros

million euros

million euros

x 1,000 FTE

Policy instruments and economic opportunities

Environmental taxes and fees

Share environmental taxes and fees in total taxes
Environmental costs

Labour input environmental goods and services sector

Value added environmental goods and services sector
(basic prices)

