



# The German Resource Efficiency Programme Progress

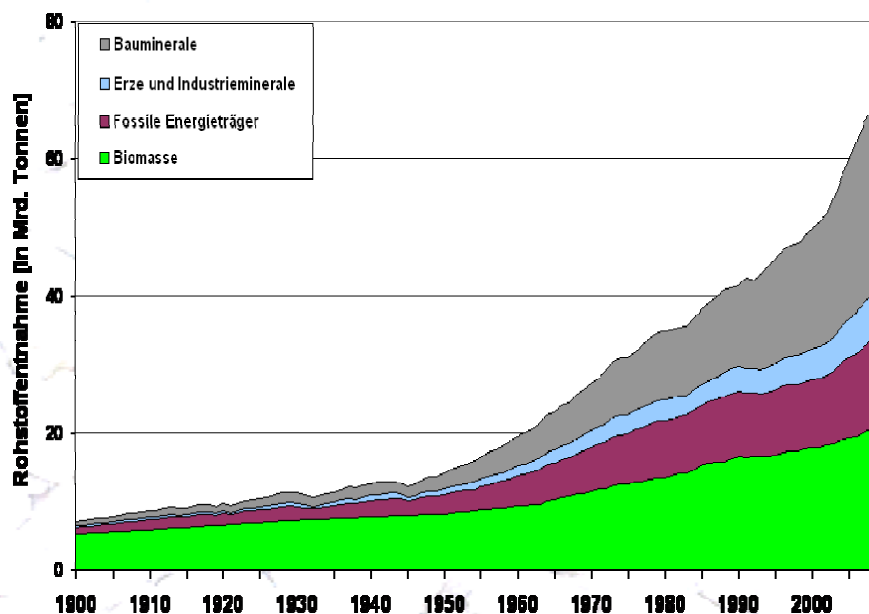
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Division WA III 1:  
National and Fundamental  
Aspects of Resource Efficiency

August 22nd 2013, Berlin



## Global raw materials use



### Resource use:

- Steep rise: +50% in last 30 years
- Impacts on the environment

### Drivers:

- Population growth
- Growth in prosperity

### 2050: ?

- 9,2 billion people
- Resource Use: ?



## Resource Efficiency

### **More efficient use of raw materials will**

- lower costs
- decrease dependency on imports
- decrease vulnerability to rising and volatile prices
- result in higher competitiveness
- secure jobs

### **and:**

- decrease adverse effects on the environment
- secure our natural capital for future generations



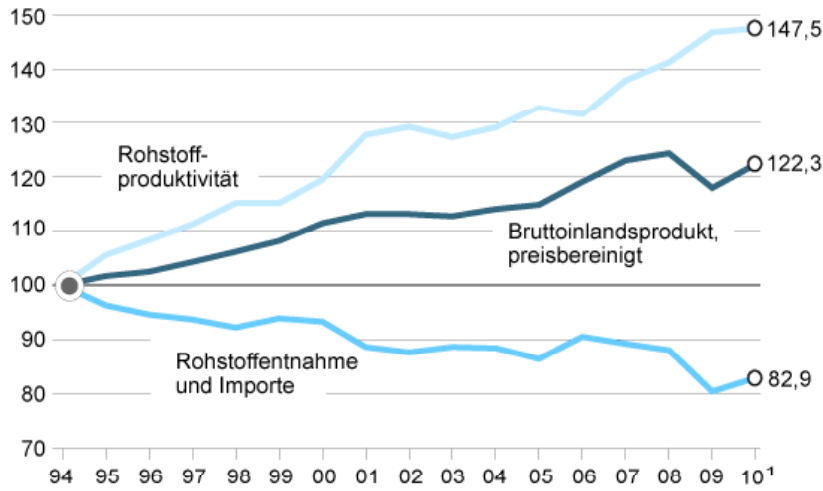
## Actions by the German Federal Government

- **National Strategy for Sustainable Development, 17.4.2002**
  - **Double raw materials productivity by 2020 against 1994**
  - Germany as a pioneer with quantitative target
- **German Raw Materials Strategy, 20.10.2010**
  - **Target:** safe, secure and sustainable raw materials supply
  - **measures, e.g.:** bilateral raw materials partnerships, setting-up of the German Raw Materials Agency DERA, preparation of a German Resource Efficiency Programme
- **German Resource Efficiency Programm (ProgRes), 29.02.2012**

# Where do we stand?

## Rohstoffproduktivität und Wirtschaftswachstum

1994 = 100



<sup>1</sup> Vorläufige Ergebnisse.

© Statistisches Bundesamt, Wiesbaden 2011

Indicator:  
**GDP/DMI**

Target:  
1994-2020  
+100%

Status:  
1994-2010  
+ 47.5 %

# ProgRes

### ➤ Goals:

- **Decouple** economic growth from resource use
- **Reduce** environmental impacts of resource use
- **Improve** the sustainability and competitiveness of the German industry

### ➤ Impacts along the whole value chain

- raw materials supply
- production and product design
- consumption
- closed cycle management





# ProgRes - Structure

## Guiding Principles

1 For Environment & Economy

2 Global Responsibility

3 Innovation: Low Resource Economy

4 Transition: Qualitative Growth

## Fields of Action / Approaches

Sustainable Raw Materials Supply	Resource Efficient Production	Resource Efficient Consumption	Closed Cycle Management	Overarching Instruments
Raw Materials Strategy	Efficiency Advice	Awareness Raising	Product Responsibility	Instruments for market penetration
Use of Renewable Materials as Feedstock	Production & Manufacturing Processes	Trade & Consumer Decisions	Optimizing Recycling	Optimizing Instruments
	EMAS	Certification Schemes	Prevention of Illegal Exports	Research
	Product Design	Public Procurement		Legal Framework
	Standardisation			Technology & Knowledge Transfer
				EU / International

## Examples/Material Flows

- Mass Metals
- Rare Strategic Metals
- Construction & Living
- Photovoltaics, Electric mobility
- Green IT

- Phosphorus
- Indium
- Gold
- Plastics waste

## Annex: Stakeholders

Departments, Länder, Associations, Institutions



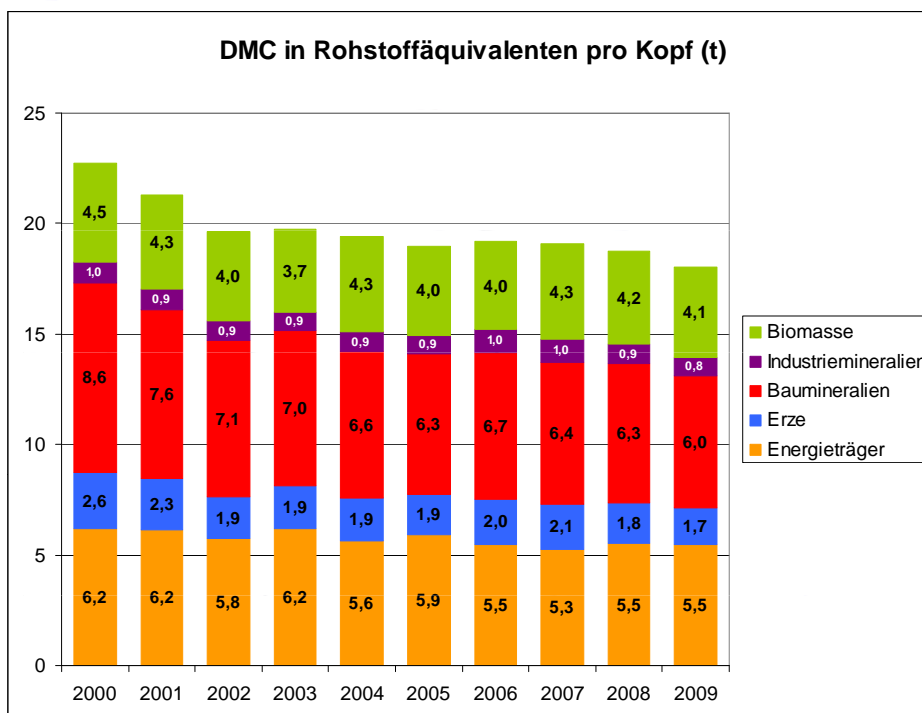
# Decreasing raw materials use

**The raw materials use decreases**

(11,1% since 2000!)

→ **Germany proofs:**

The decrease of the raw material use and economic success go side by side



# Instruments: advice

## VDI Zentrum Ressourcen Effizienz und Klimaschutz

Was ist RE?

IM BAU

Lebenszyklus Bau

Energetische Sanierung

Effizienz in der Dämmung

RE des Tragwerks

RC-Beton

Effiziente Aufzugstechnik

Praxis: Passivhaus

Pilotprojekte

Themenspiegel Bau

Quellen und Nachweise

### Systematisierung mit Prozessketten

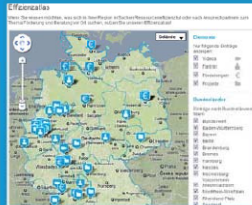


### Ressourcenchecks

### Innovationsradar

### Datenbank

### Effizienzatlas



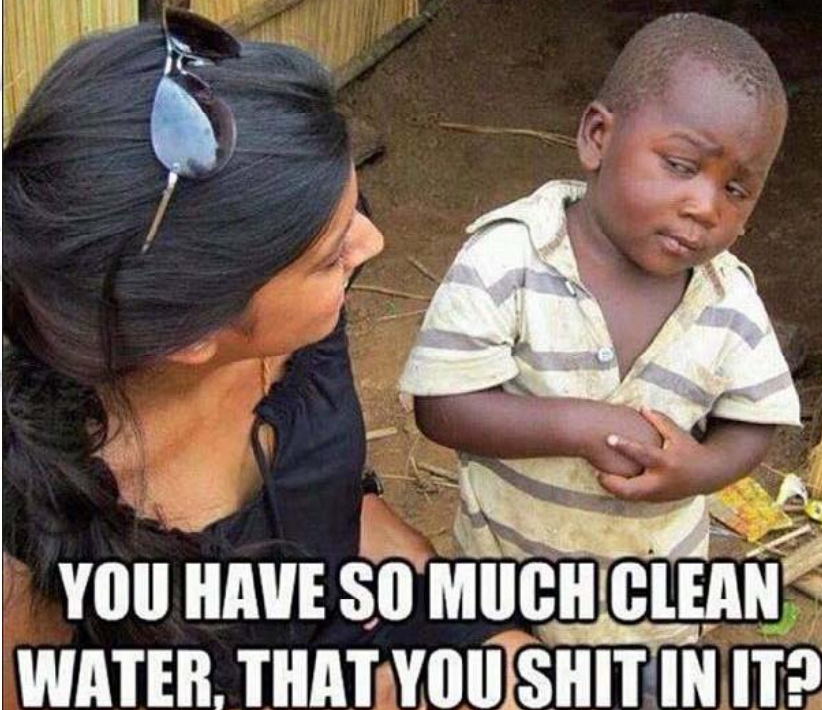
### Filmprojekte

### Qualifizierung & Veranstaltungen

### VDI-Handbuch Ressourceneffizienz

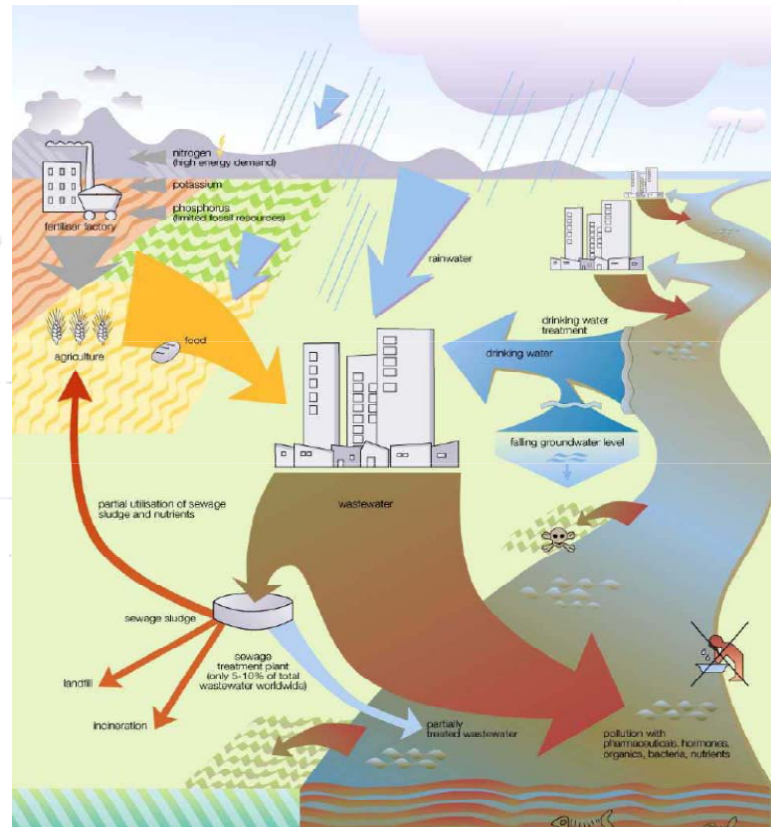
# Sustainable Water Management

SO YOU'RE TELLING ME



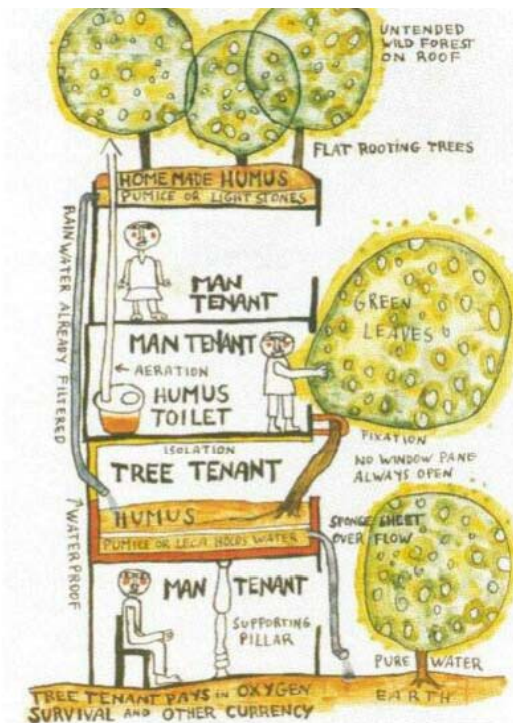
YOU HAVE SO MUCH CLEAN WATER, THAT YOU SHIT IN IT?

# Sustainable?



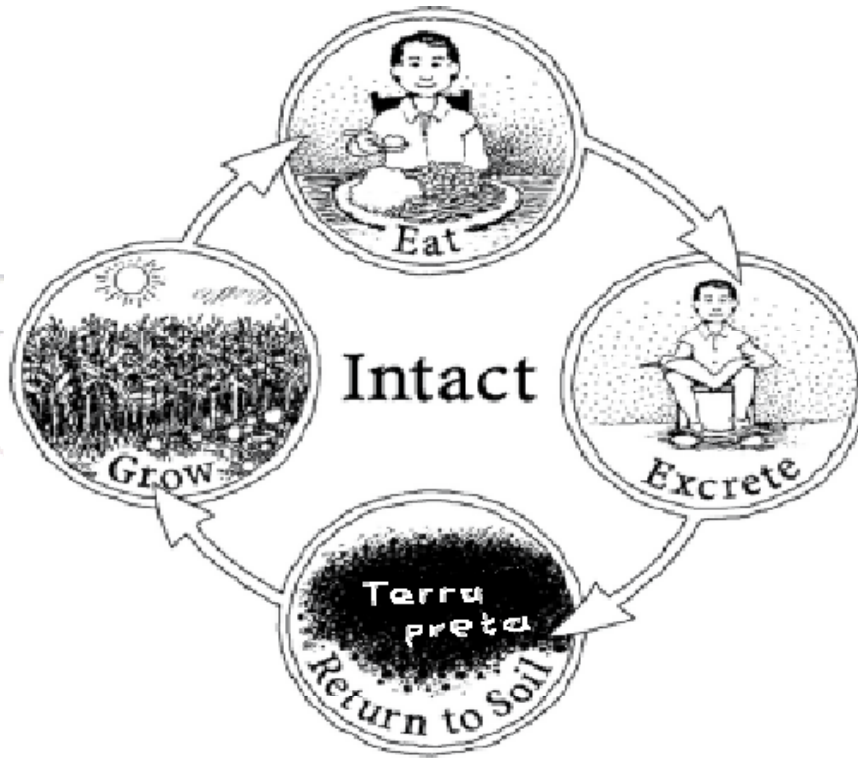
# Vision

## Zero Emission Urban Innovation





# Terra Preta Sanitation = holistic system design



Janez Potocnik

European Commissioner for the Environment

***Resource efficiency*** is the ***next revolution*** that the planet needs and the world can pull off. And yes, it is a common sense revolution. So, let's use that common sense to ***embark on this revolution now***



**Thank you very much for your attention!**

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