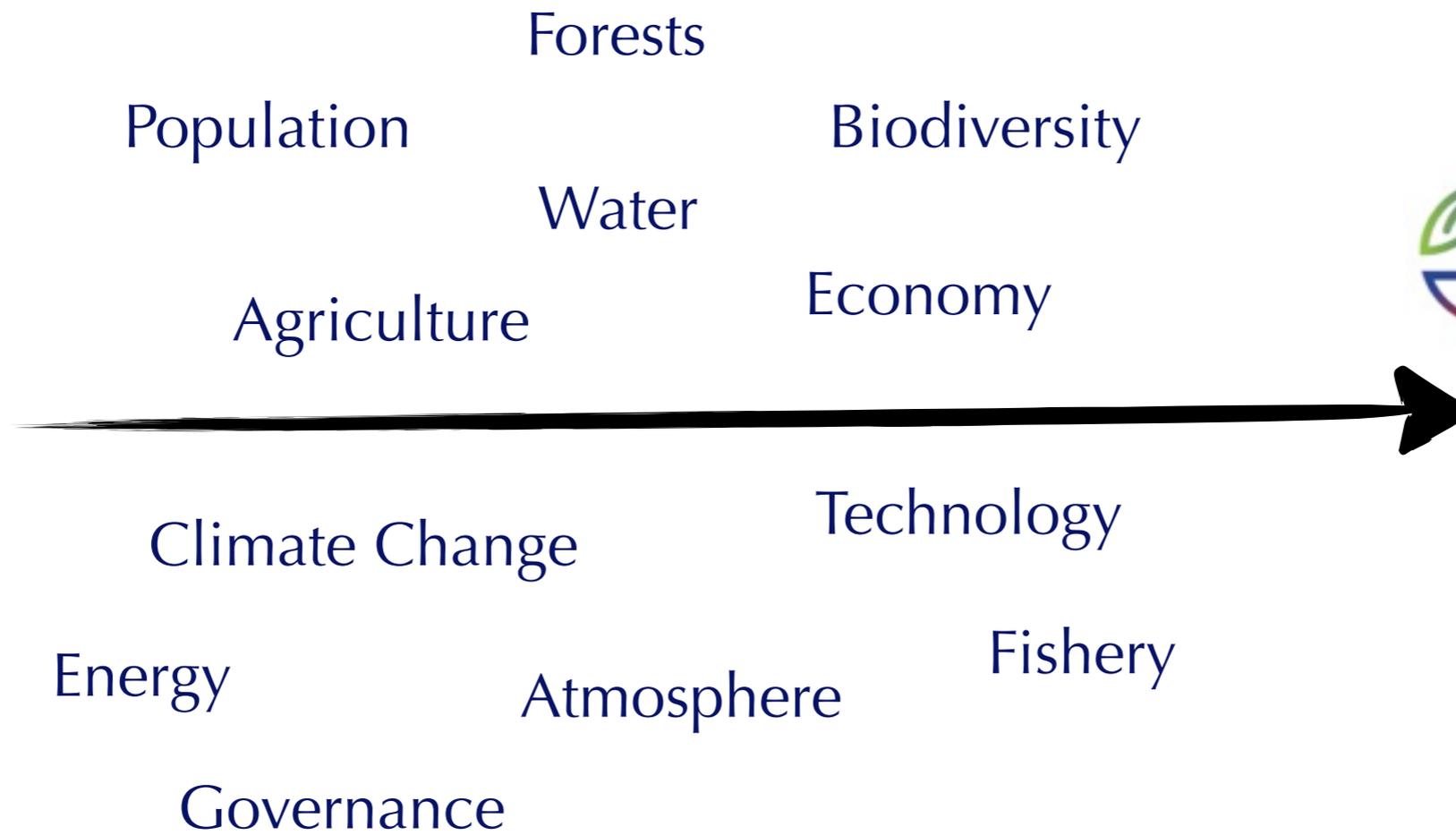


What has happened since the Earth Summit 1992?



1992



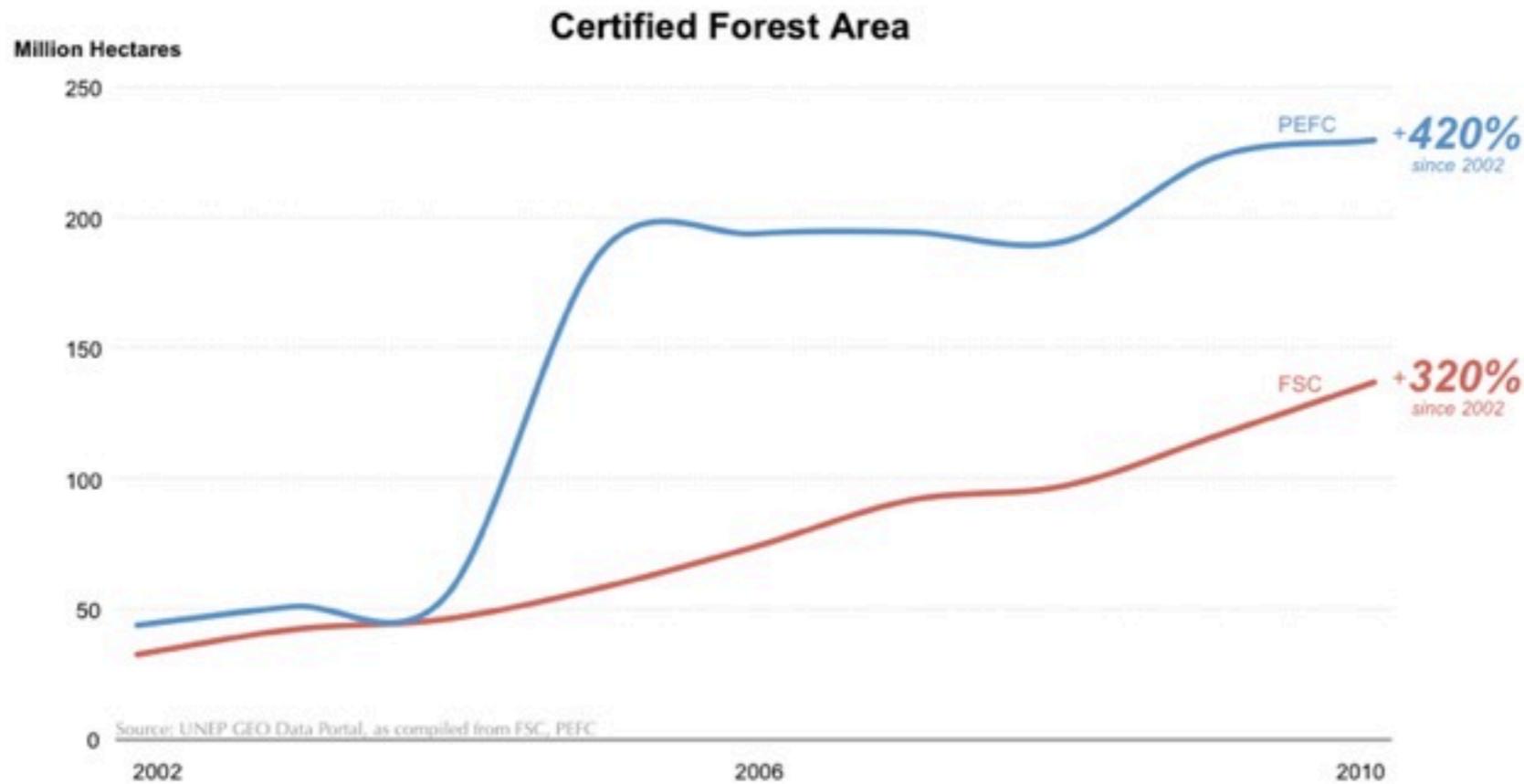
RIO+20
United Nations Conference
on Sustainable Development

2012



100 data sets
global averages
developing/developed regions
covering 20 years

Only about 10% of global forests are under certified sustainable management



The Forest Stewardship Council (FSC) and the Programme for the Endorsement of Forest Certification (PEFC), the two largest forest certification bodies worldwide with slightly different approaches to management and certification, certify socially and environmentally responsible forestry. An impressive annual 20% growth rate of labeled forests indicates that both producers and consumers are actively influencing timber production. Nevertheless, in 2010 still only about 10% of the total forest extent was managed under FSC and PEFC practices.

used by
2010

The average annual mean atmospheric temperature shows yearly variations, used for example by tropical Niño-La Niña cycles. Viewed over a longer time period, one can nonetheless observe a slow, but steady increase with occasional dips. The annual mean temperature, displayed, is calculated by these leading climate research centres, reducing slightly different values — a general upward trend however the same for all of them, with an increase of about 0.2°C per decade (amen and others 2006). "Most of the observed increase in global average temperature since the mid-19th century is very likely due to the observed increase in anthropogenic greenhouse gas concentrations" (CC 2007b).

This map shows how much warmer temperatures during the decade 2000-2009 were compared to average temperatures recorded between 1951 and 1980 (a common reference period for climate studies). "The most extreme warming, shown in red, is in the Arctic. Very few areas saw cooler than average temperatures, even in blue" (Vizland 2010). The 2000 decade was the warmest on record since 1880; it was warmer than the previous record decade 1990-1999.

creating a
impact



20 to around 255 million tonnes (1 million tonnes had already been around 130%, or 15% annually. The 2005, whereas consumption in 2000 (UNEP 2011c).

agricultural films and disposable particularly notorious in recent threatens the lives of many marine



Rich in oil but lacking abundant renewables based on groundwater from non-renewable in agricultural output (Royal Embassy of Saudi Arabia) appeared in the world Saudi 1.5\$ 500 per tonne, several times the cost plans to phase out wheat production by 20



- The first publication of its kind highlighting major global trends during the last 20 years using time series data in about 100 pages using simple easy to understand graphics.
- The world has significantly changed due to rapid globalization fueled by unforeseen breakthroughs in Information and Communication technologies.
- Since Rio many developments took place which were not foreseen in 1992.



New Multilateral Environmental Agreements and Conventions

Awareness of climate change

The Green Economy

Carbon Trading and other Environmental Market Tools

Markets for organic products and eco-labeling

Genetically Modified Organisms

Recycling

Commercialization of biofuels, solar and wind energy

Chemicals management

Nano materials



- The first publication of its kind highlighting major global trends during the last 20 years using time series data in about 100 pages using simple easy to understand graphics.
- The world has significantly changed due to rapid globalization fueled by unforeseen breakthroughs in Information and Communication technologies.
- Since Rio many developments took place which were not foreseen in 1992.
- Our knowledge about the state of environment is relatively poor to promote 'evidence based policies' due to lack of adequate monitoring capabilities at the national level.

Overall Situation



*Since 1992, the human population has grown
by 1 450 000 000 people*



*GDP per capita has climbed by 39% globally
(33% for developed, 80% for developing region)*

*Internet users skyrocketed by 29 000% since 1992
(and mobile phone subscribers by 23 000%)*



Good News

The Montreal Protocol: "Perhaps the single most successful international agreement"

-93%

*of Ozone Depleting Substances
since 1992*





*Investment in sustainable energy
has skyrocketed in recent years*

+540%
since 2004



Renewable energy sources (including biomass) currently account for 13% of global energy supply

Land area used for organic farming is growing at an annual rate of nearly 13%

+240%
since 1999



*The private sector is increasingly adopting
environmental management standards*

+1500%

since 1999



Bad News

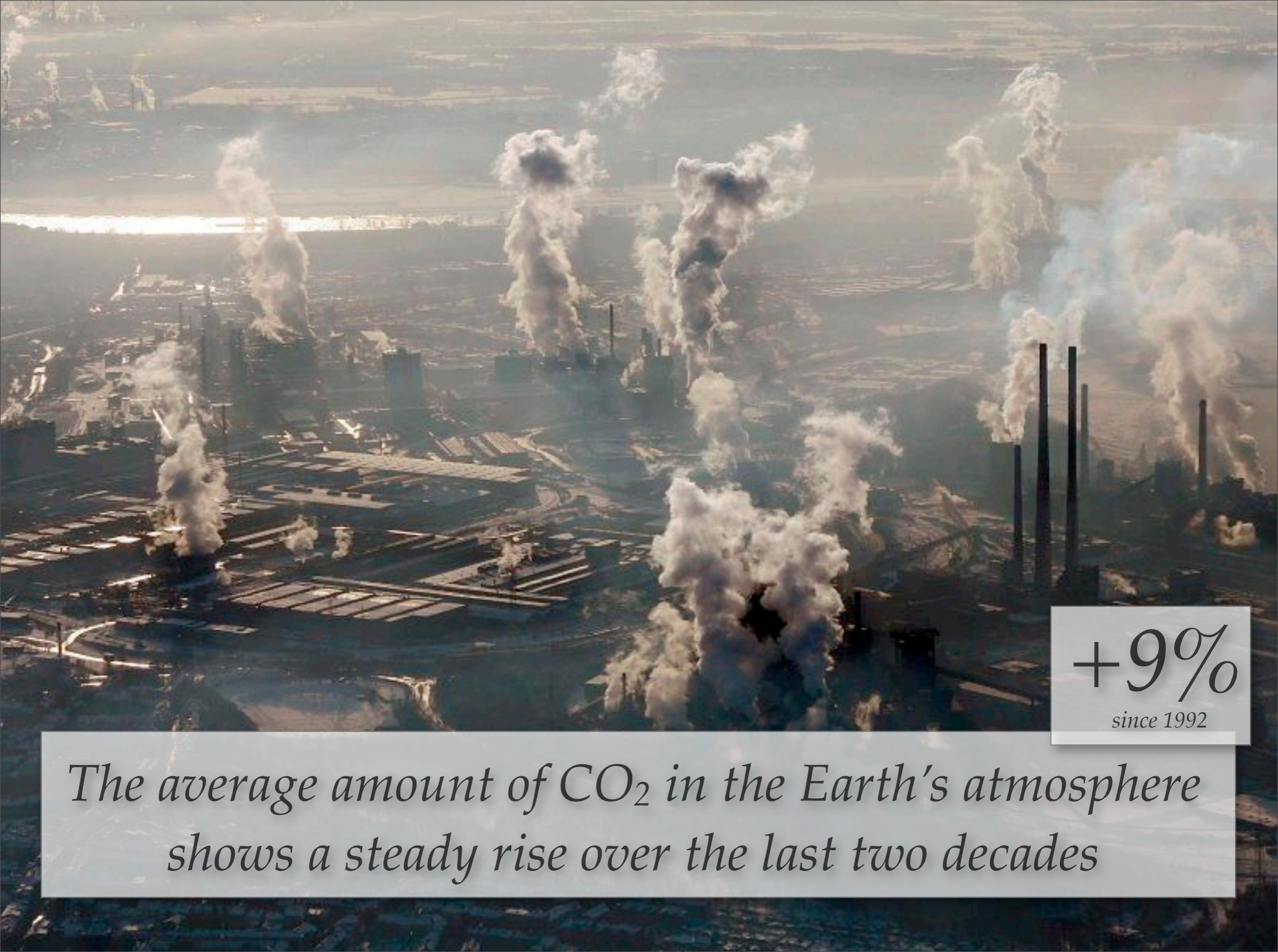


+36%
since 1992

*Global CO₂ emissions continue to rise,
with 80% emitted by only 19 countries*

*The average global citizen consumes 43 kg of meat per year,
equalling 18-25%
of all GHG emissions*





+9%
since 1992

The average amount of CO₂ in the Earth's atmosphere shows a steady rise over the last two decades

*The annual minimum extent of Arctic
sea ice continues its steady decline*

-35%
since 1992



*Forest area decreases by 13 million ha every year,
an area as large as Greece or Bangladesh*





Only about 10% of global forests are under certified sustainable management, but with steep increases

+400%

since 1992 (estimation)

Drinking water coverage increased to 87%, but the world is far from meeting the sanitation target of 75%



Each year 52 vertebrate species move one Red List category closer to extinction



Plastics decompose very slowly, creating a major long-term environmental impact

+130%
since 1992





Targets and Goals in Environment

- Hardly any quantitative targets in environment
- MDGs 7 indicators are good for monitoring progress
- Nothing like UNDP HDI: outcome based index in environment
- Target setting seems to work, i.e. ODS, 13% Protected Areas
- Scientifically reliable time series data on land degradation, water quality and quantity, groundwater, ecosystem goods and services, chemicals and waste and many more are major missing gaps



Thank you for your attention