

Sustainable Development

Carmen Meiriño

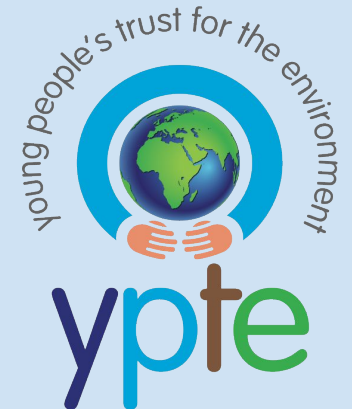




Photo: Steve Snodgrass



Photo by Mary







Photo: Crustmania

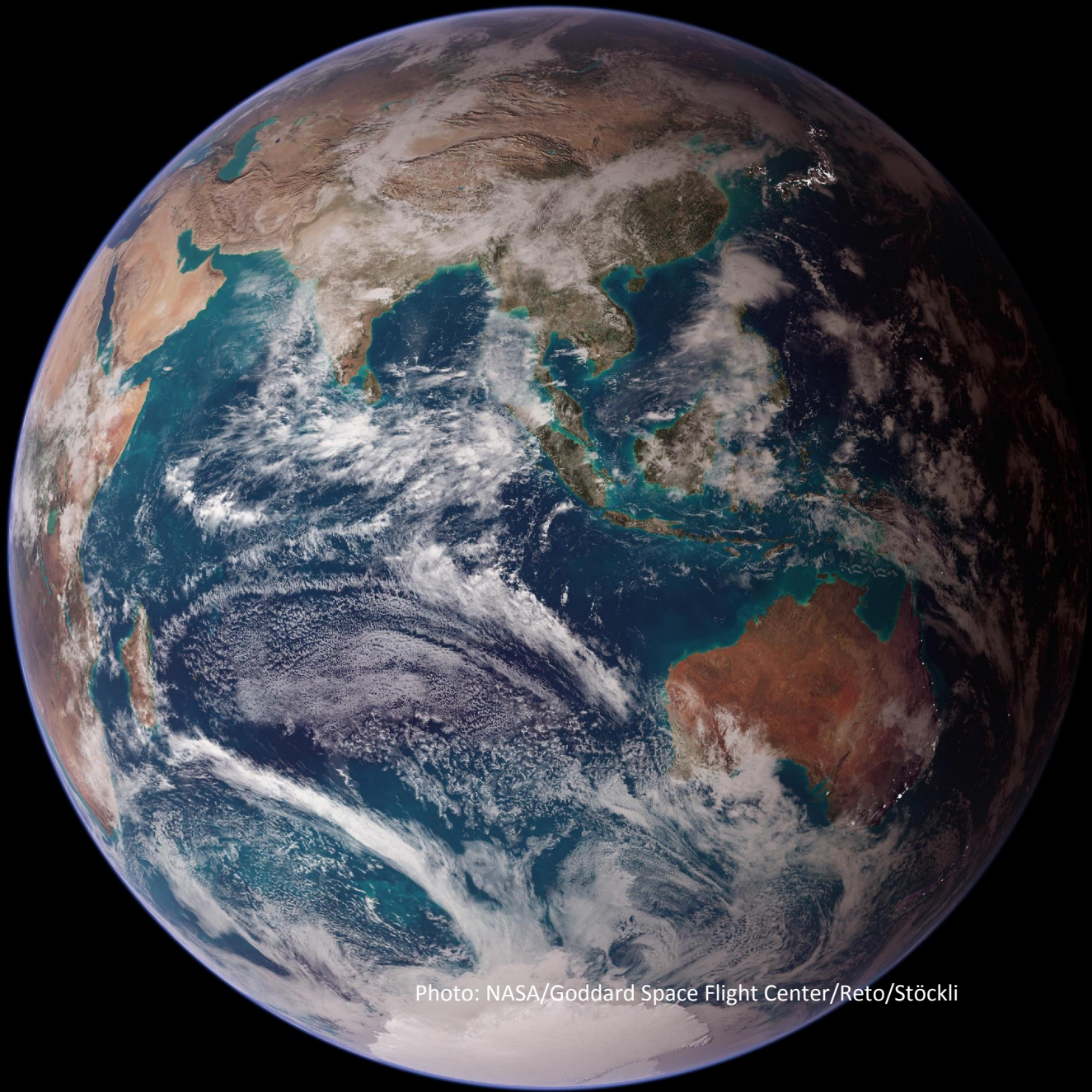


Photo: NASA/Goddard Space Flight Center/Reto/Stöckli

Sustainable Development

Improving our quality of life
without damaging the quality of
life of future generations

**Every day about
60,000 tonnes of
rubbish are
thrown away in
Spain =**

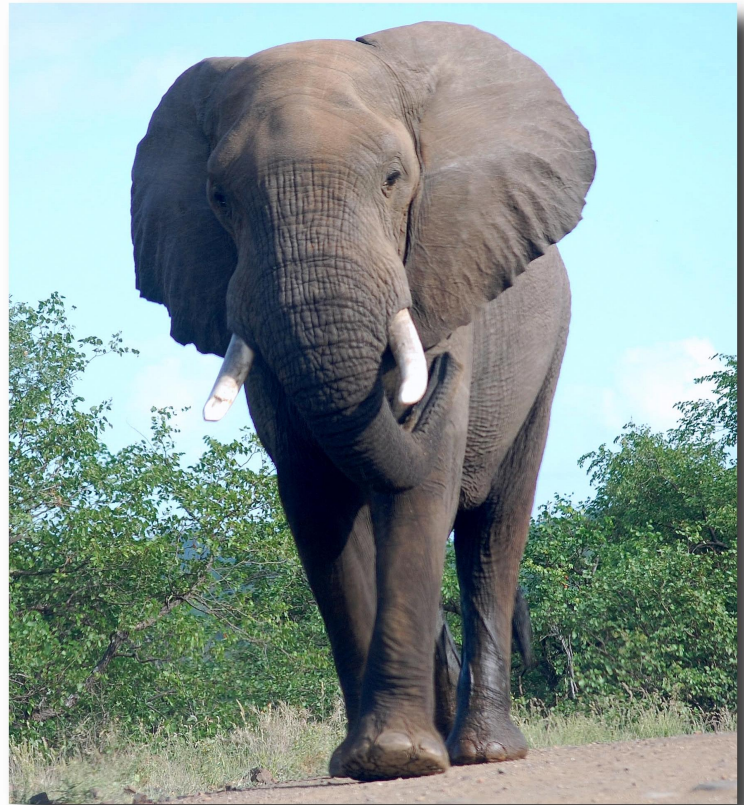


Photo: André van Rooyen

the weight of 20,000 African elephants!



Photo: United Nations



Water Pollution

Photo: Magnus Franklin



Photo: Eutrophication&hypoxia

Battersea Power Station



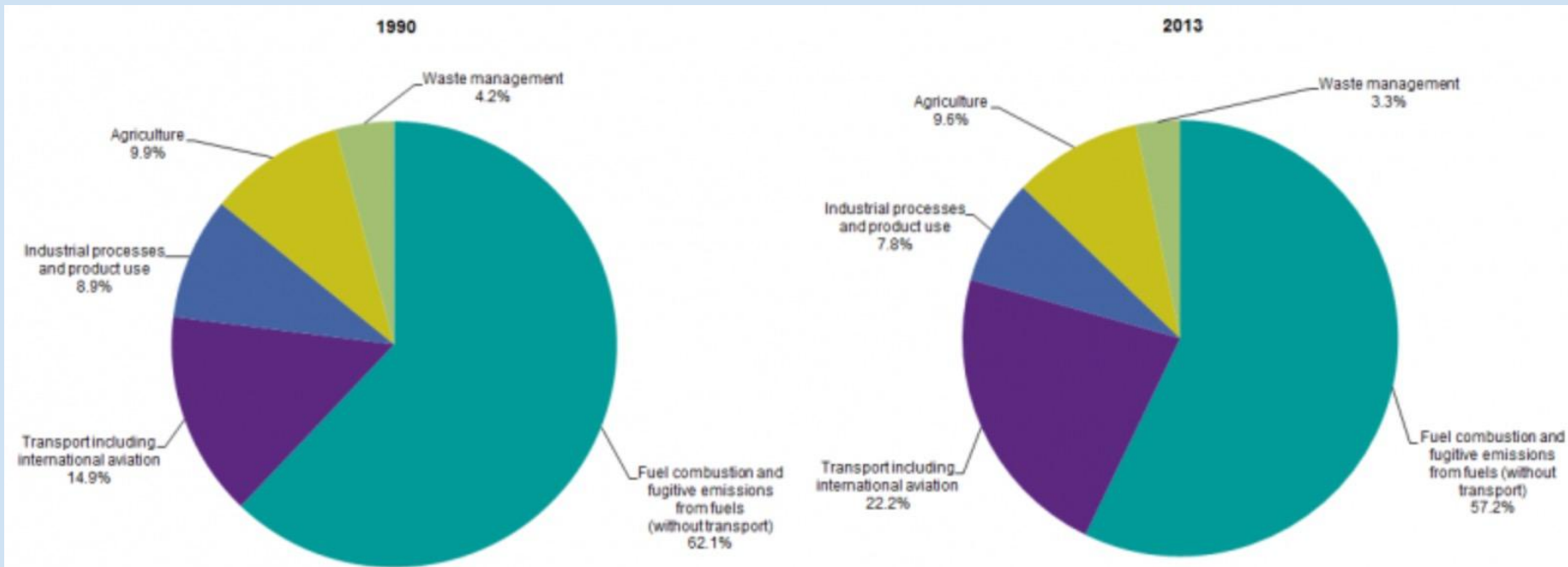
Photo: Loco Steve

Smog over Los Angeles, California



Photo: Ben Amstutz

Greenhouse gas emissions Eu-28



From: [http://ec.europa.eu/eurostat/statistics-explained/index.php/File:Greenhouse_gas_emissions_analysis_by_source_sector_EU-28_1990_and_2013_\(percentage_of_total\)_new.png](http://ec.europa.eu/eurostat/statistics-explained/index.php/File:Greenhouse_gas_emissions_analysis_by_source_sector_EU-28_1990_and_2013_(percentage_of_total)_new.png)

A dead forest, Czech Republic



Photo: Ramon Boersboek

A large, diverse crowd of people is seated on stone steps, filling the frame. The people are of various ages and ethnicities, many wearing sunglasses and casual summer clothing. The scene is bright and sunny, suggesting an outdoor event or festival. The crowd is dense, with people sitting close together, illustrating the concept of population growth.

Population Growth

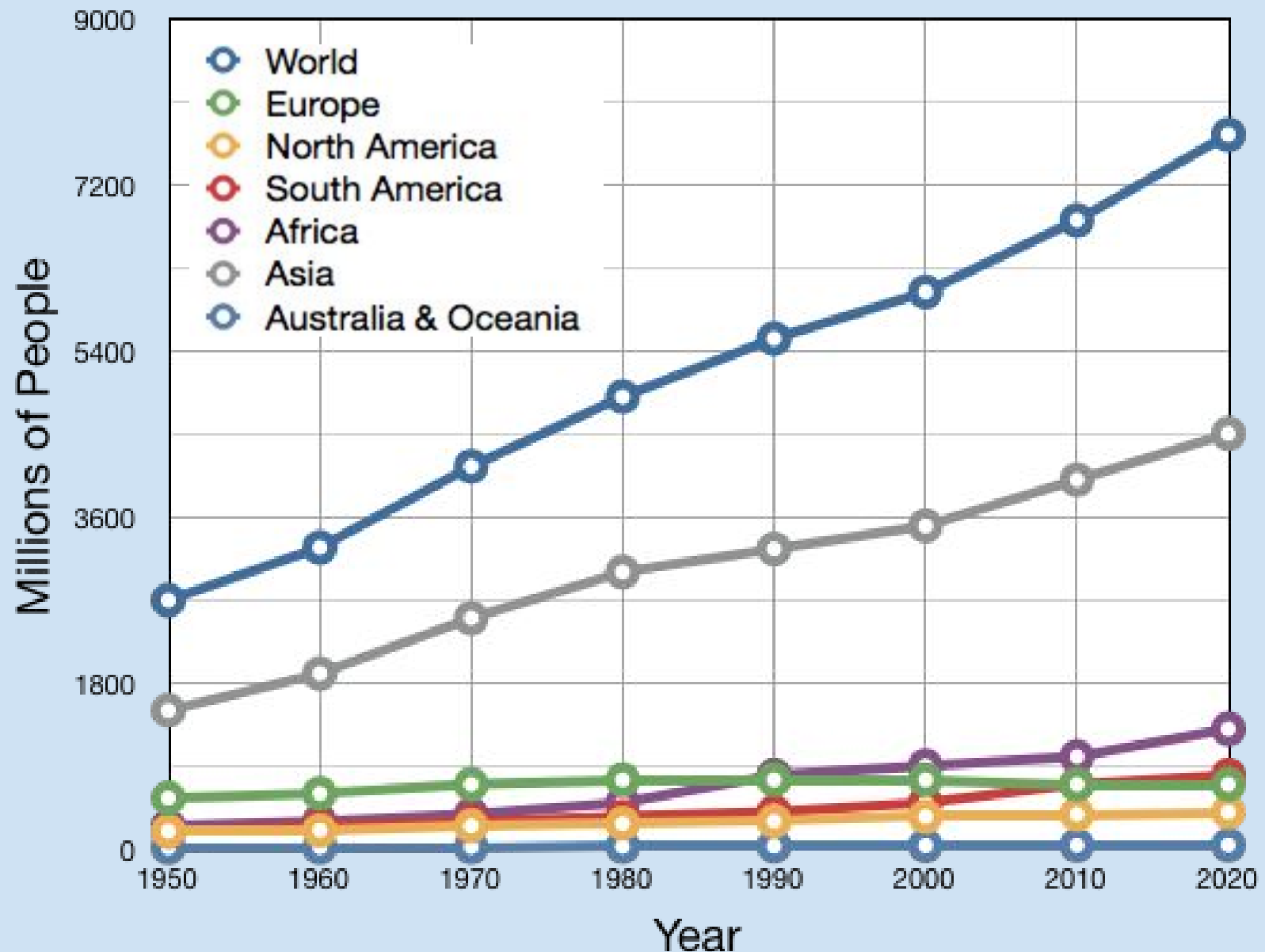
- What is the current world population?

7.2 billion

- What was the world's population in 1950?

2.5 billion

World Population Growth 1950 to 2020



Resources

Since 1950 the richest 1/5 of the population has doubled its consumption of energy, meat, timber, steel and copper per person.



Photo: NASA's Earth Observatory



Photo: Rainforest Action Network

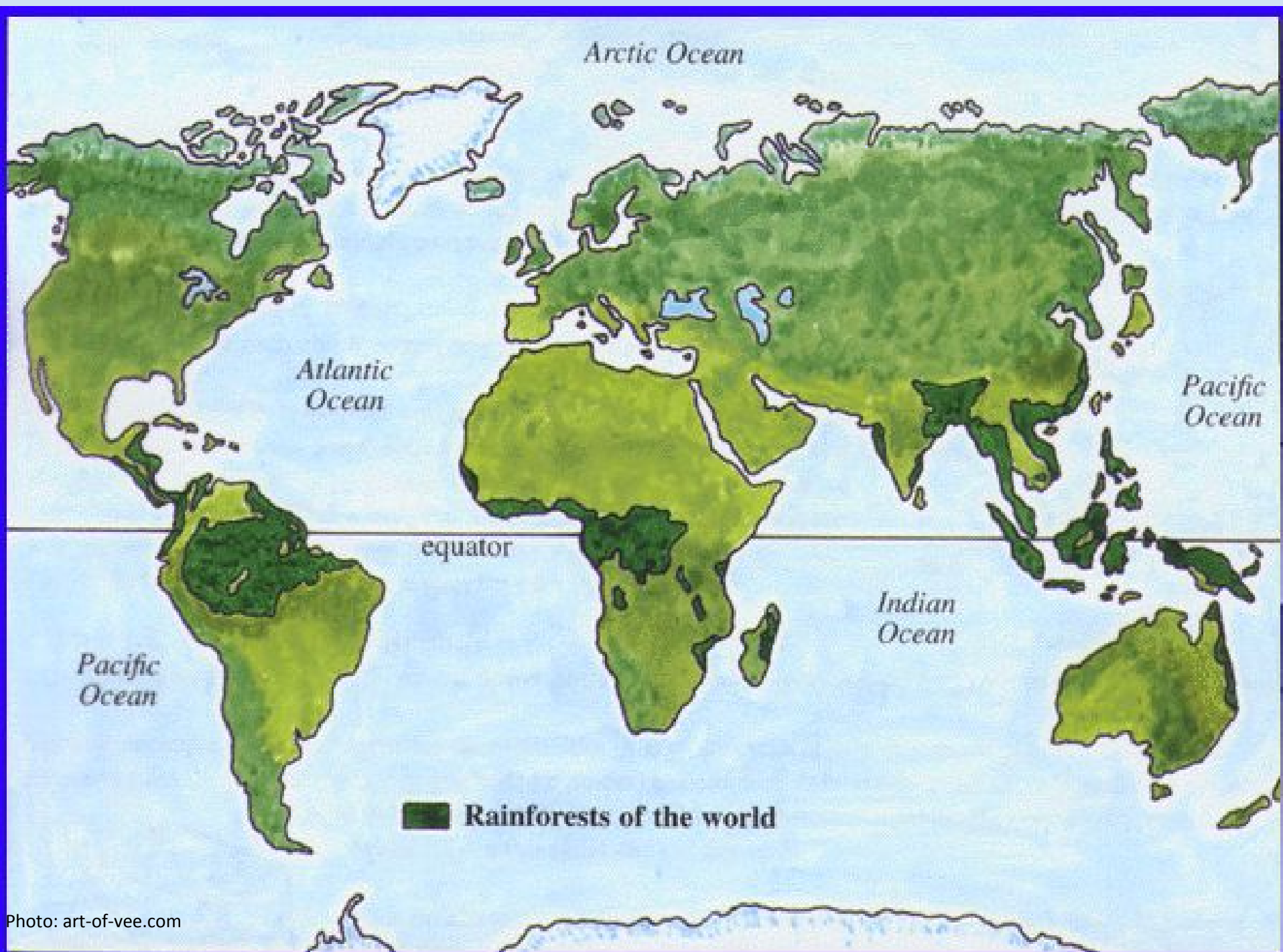


Deforestation:

The clearing of trees,
transforming a forest into
cleared land

Photo: Rainforest Action Network







Over half the world's plant and animal species
live in rainforests.

A close-up photograph of several yellow plastic pill bottles tipped over, spilling a large quantity of various pills and capsules onto a dark surface. The pills include red and white capsules, white oval tablets, red round tablets, yellow round tablets, and blue round tablets. Some of the pill bottle labels are visible, showing text like 'Caution: Federal of this drug to patient for whom', 'Safety', '03/13/09', and 'Rph:'.

$\frac{1}{4}$ of medicines' ingredients were first found in rainforest plants.

Brazil

70% of the deforested area is cattle pasture.

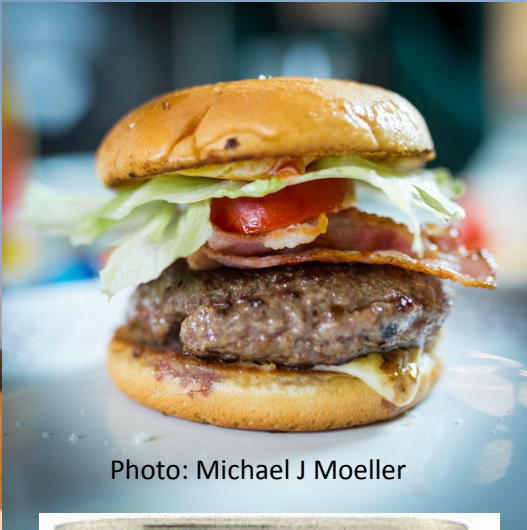


Photo: Michael J Moeller



Photo: Paul Townsend



Photo: Nick Saltmarsh

Palm Oil Plantation



Photo: Dan Taylor



Photo: Roberto Verso



Photo: John Loo



Photo:jo.schz

Photo: Tim Sackton

Orangutan

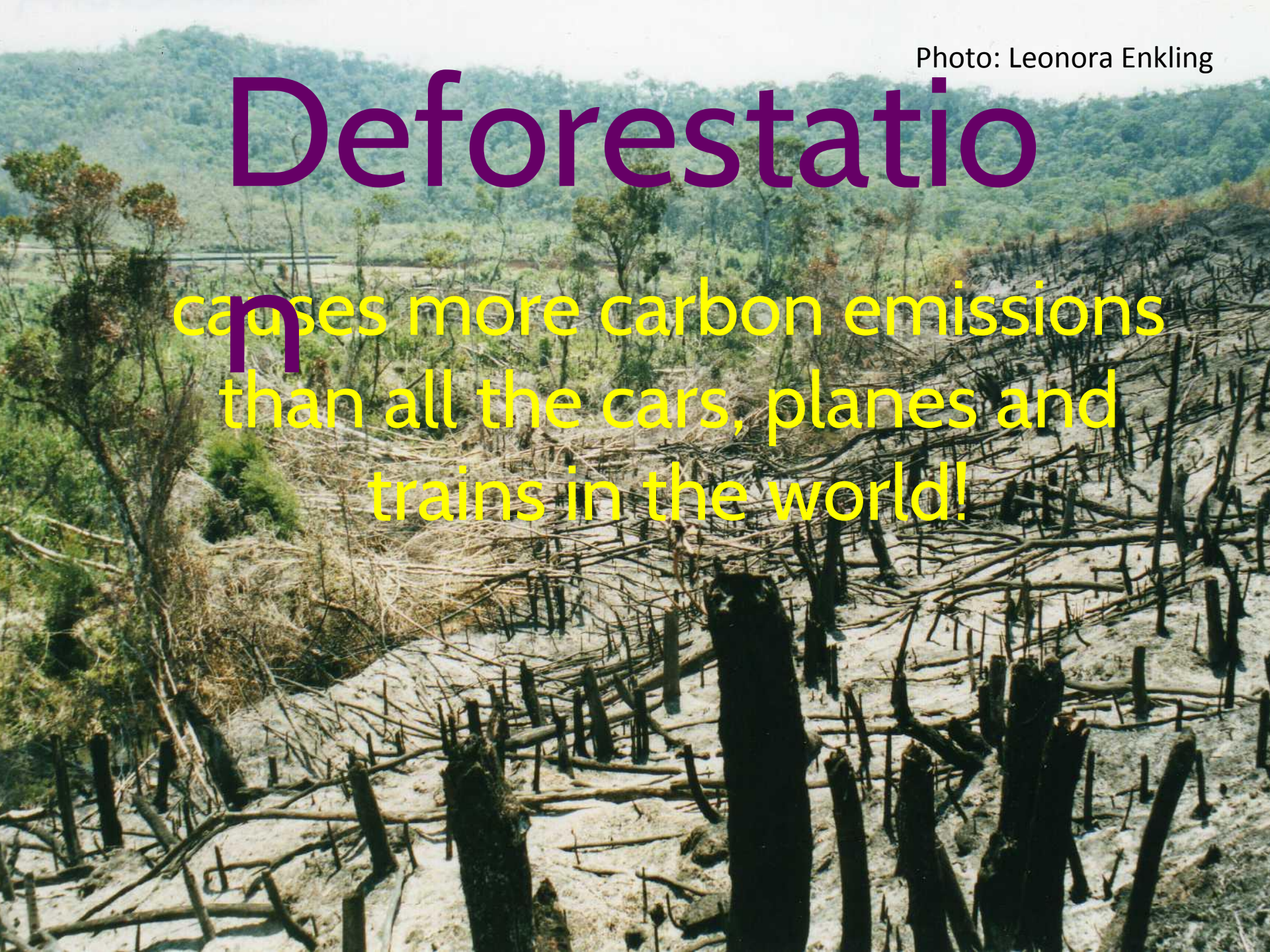


Photo: Seb Ruiz

Photo: Leonora Enkling

Deforestation

causes more carbon emissions
than all the cars, planes and
trains in the world!





‘The Mark of Responsible Forestry’

UN-REDD
PROGRAMME

The United Nations Collaborative Programme
on Reducing Emissions from Deforestation and
Forest Degradation in Developing Countries



UN-REDD

Growth

‘Reducing emissions from deforestation and degradation’

www.un-redd.org



Photo: Steven Depolo

30 - 40
litres

6 - 10 litres



Photo: Brian Herzog

World Water Use 1900 to 2020

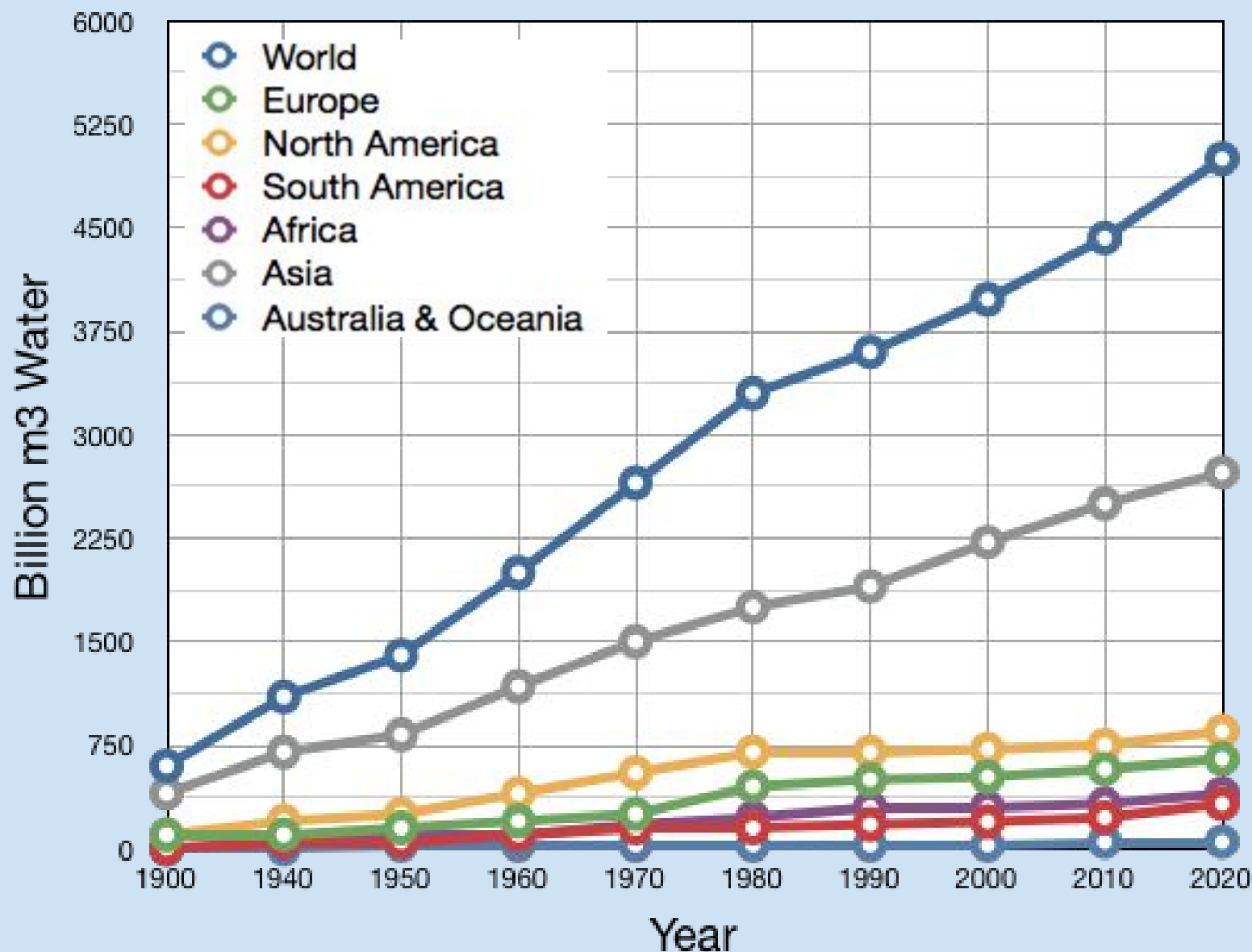




Photo: Pieter Vanhaecke



Photo: Fred Dawson



Photo: Liz West



Photo: Sean Wallis

Photo: Luis Vásquez

Photo: Wayne Marshall



Photo: Sandy Austin



Hurricane Katrina, New Orleans, 2005



Photo: News Muse

Hurricane Katrina, 2005



Cyclone Pam, Vanuatu, March 2015



European Commission DG ECHO

Somerset Levels, November 2012 Chaos on the A361



Photo: Mark Robinson

This polar bear managed to get on one of the
last ice floes floating in the Arctic Sea



Photo: Gerard Van der Leun



Photo: Riccardo Francesconi



Carbon Dioxide

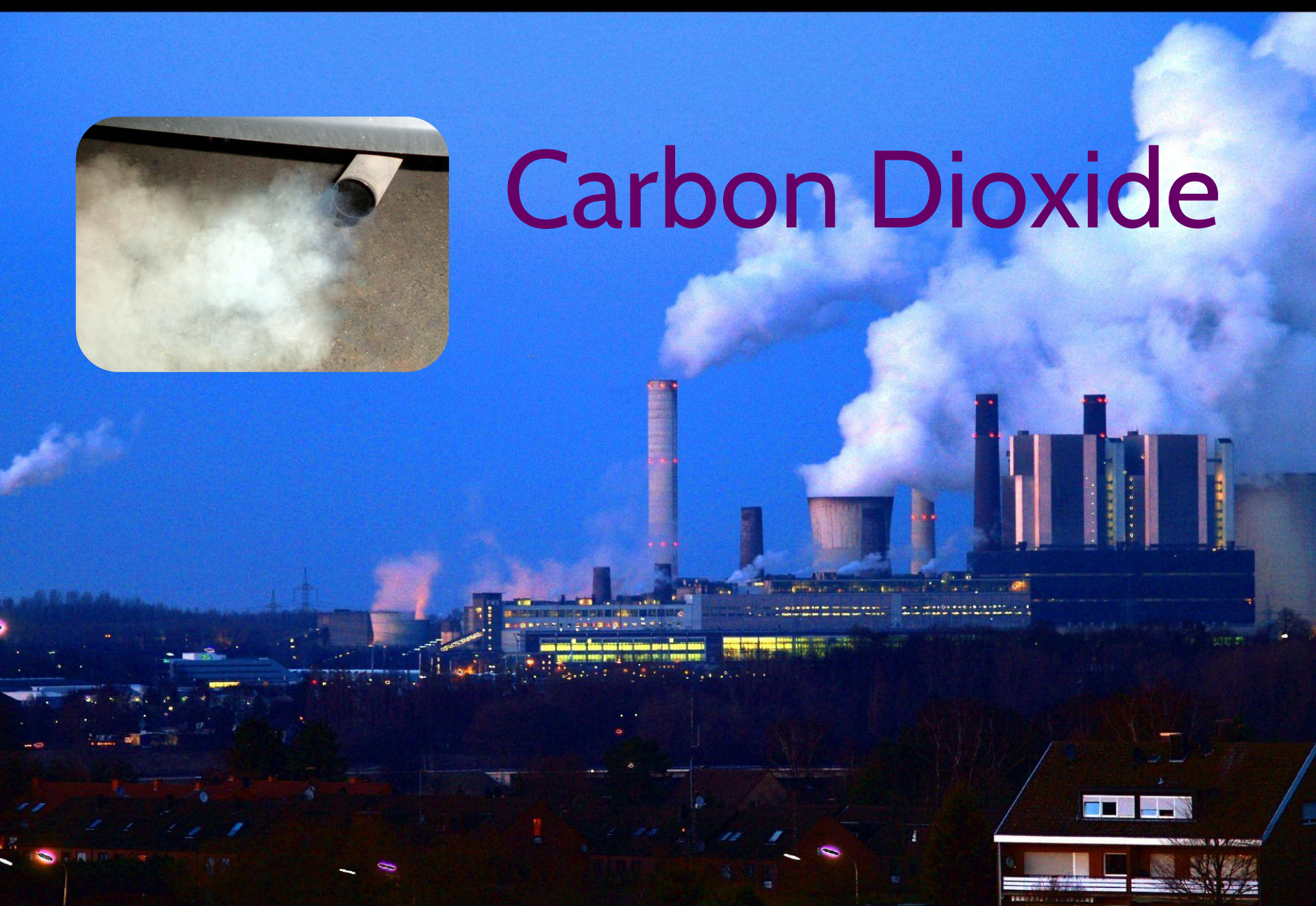


Photo: Oliver Wald

Fossil

Fuels

Coal



Photo: Jeffrey Beall



Coal

Photo: futureatlas.com



Photo: Ilya

Gas

Petrol & Diesel (Oil)

Photo: Tom Blackwell

World Energy Use 1980 to 2020

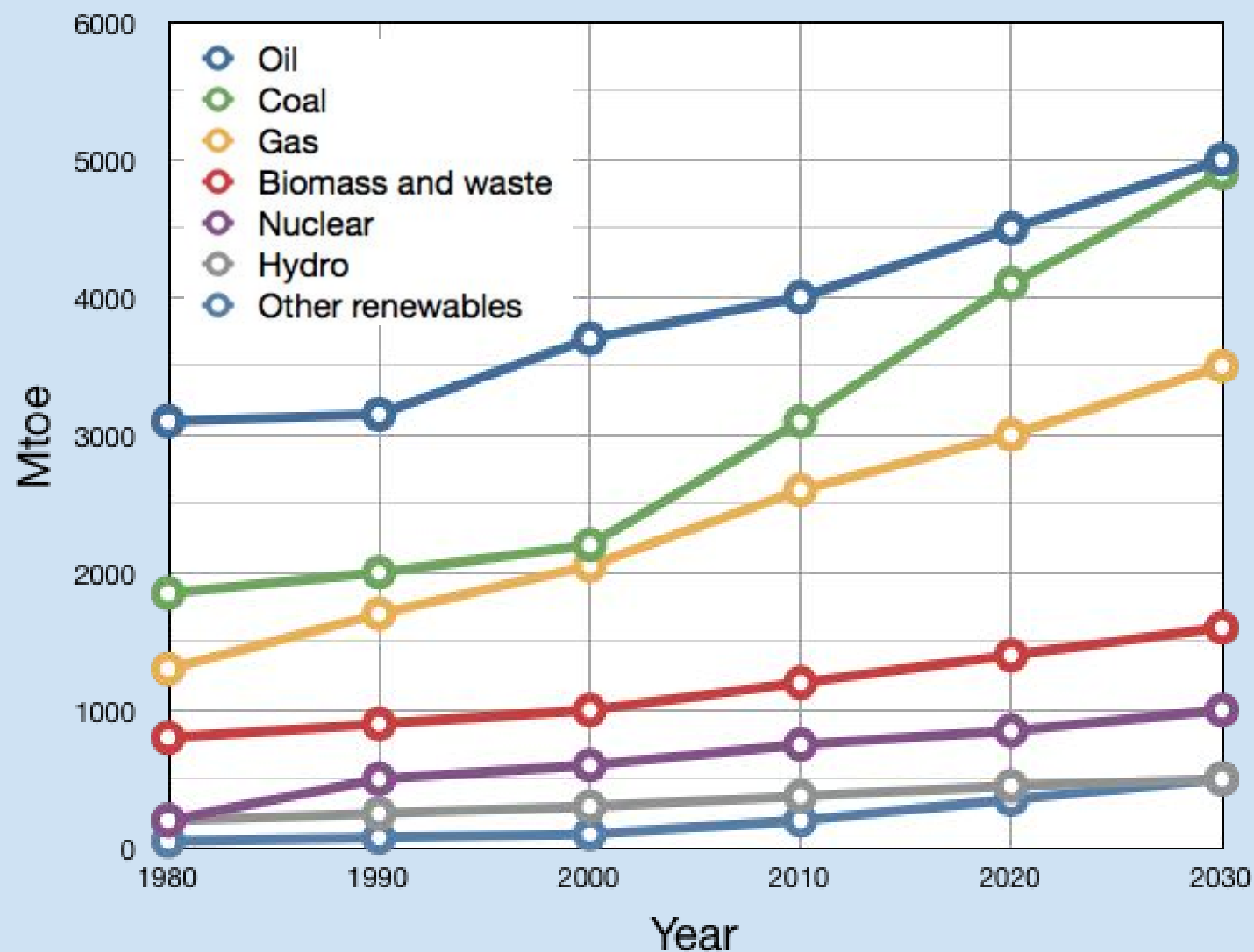




Photo: Roberto Rizzato

[Click here for greenhouse effect video](#)

Arctic sea ice 2012

Average minimum Arctic sea ice 1979 to 2010

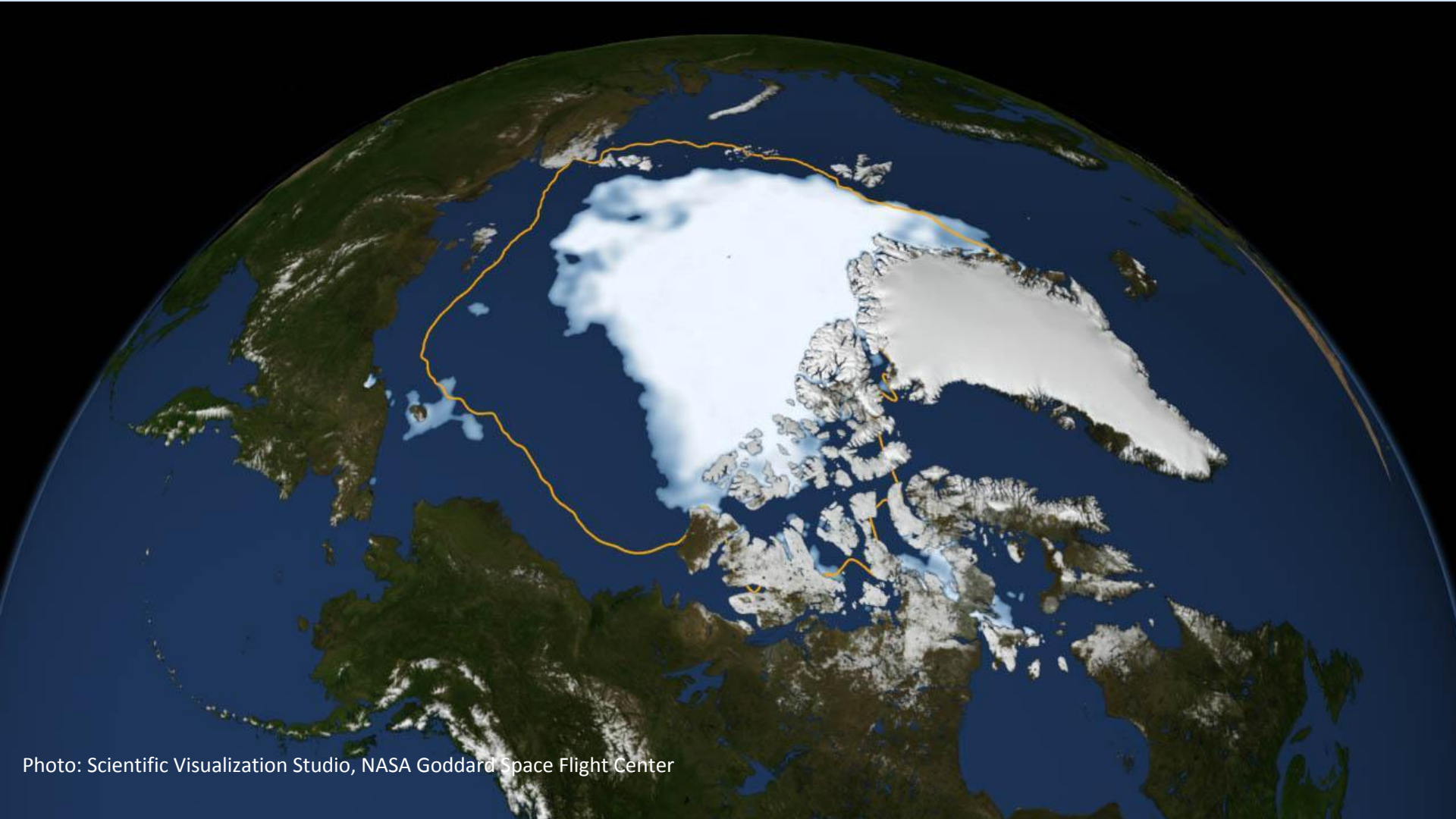


Photo: Scientific Visualization Studio, NASA Goddard Space Flight Center



Photo: Martha de Jong-Lantink

Climate Change



Photo: Smudge 9000

Wind power

**1 wind turbine =
electricity for
1,000 homes.**



Photo: reynormedia

Solar power

Photovoltaic Cells



Photo: Elliott Brown



Photo: Robert Pittman

Concentrated solar power



Photo: Green MPs

Hydro-electric dam

**70% of the Earth's surface
is covered in water**