

Global Warming

What is global warming?

What can we do?

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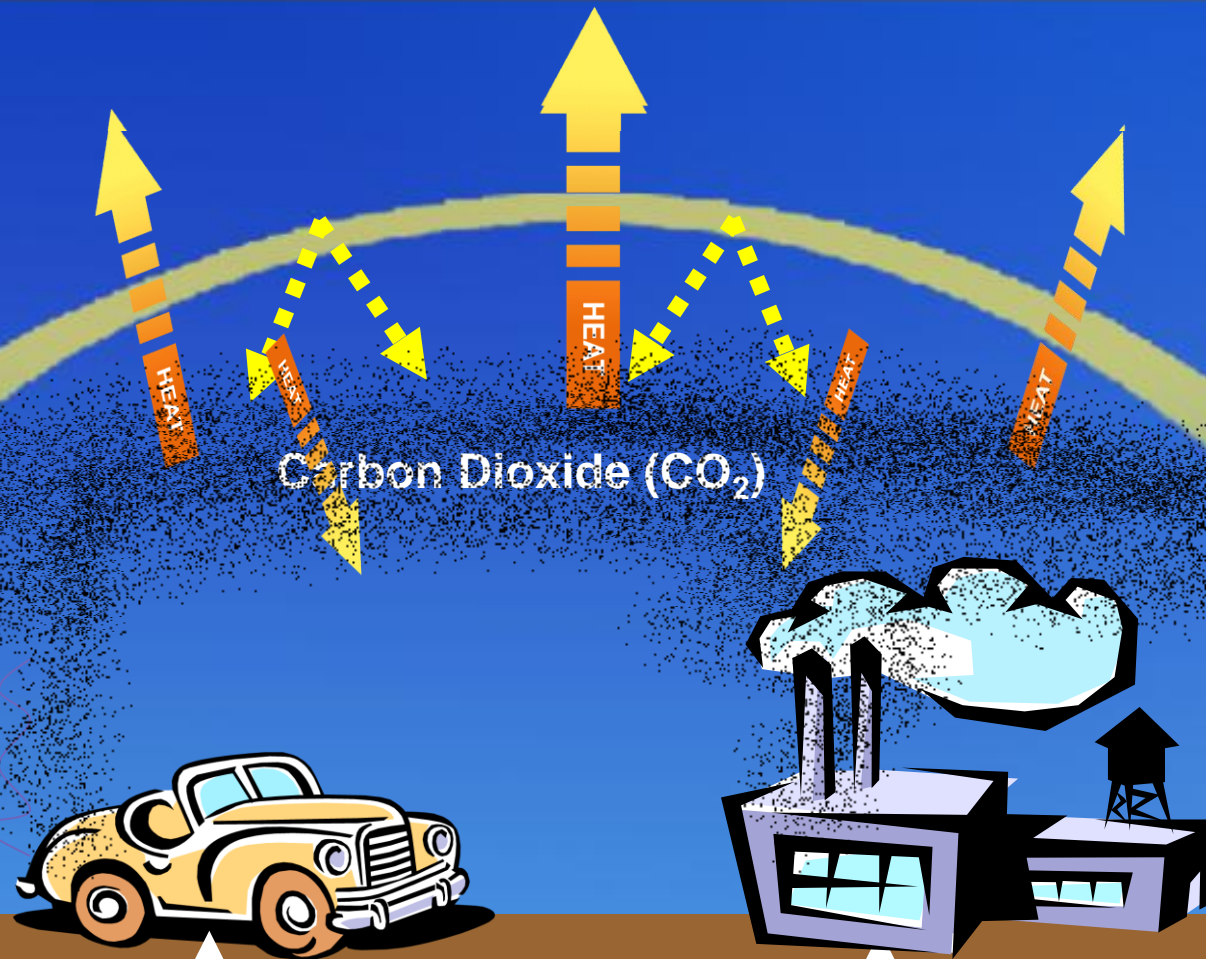
Gorontalo State University

Source materials : Gleason; Karecki,; Reif, (MIT)

What is global warming?



How Global Warming Works



Fossil fuels (coal, oil, natural gas)

Example of the Greenhouse Effect

The Sun's energy passes through the car's windshield.

This energy (heat) is trapped inside the car and cannot pass back through the windshield, causing the inside of the car to warm up.



What's the difference between “global warming” and “climate change”?



Difference

GLOBAL WARMING

is the increase of the Earth's average surface temperature due to a build-up of greenhouse gases in the atmosphere.



CLIMATE CHANGE

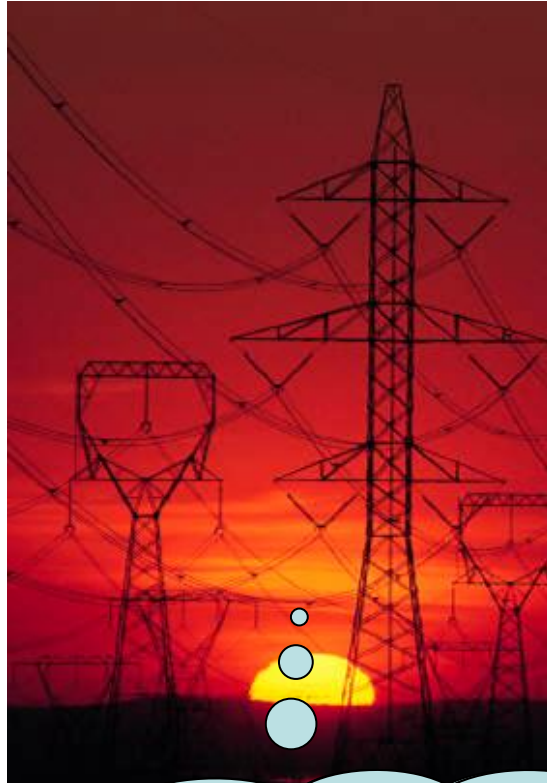
is a broader term that refers to long-term changes in climate, including average temperature and precipitation.



Why is global warming happening?

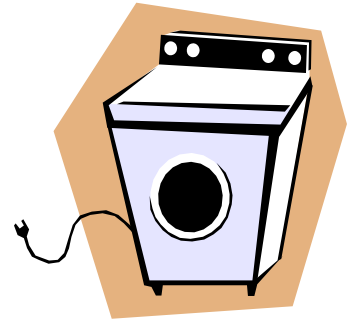
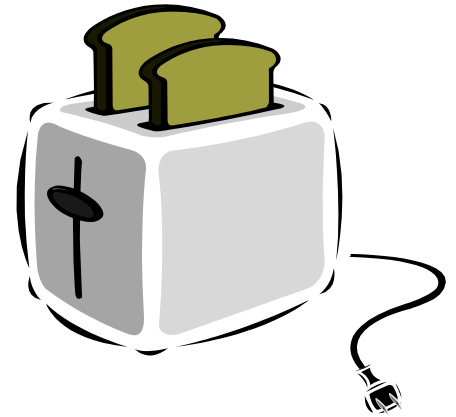
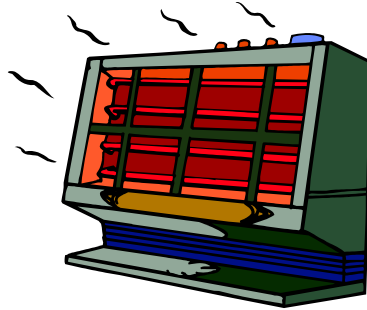


Burning of Fossil Fuels



**Pollution from coal,
natural gas, and oil**

We all use energy all day!



Effects of Global Warming

Rising Sea Level



Increased Temperature



Habitat Damage and Species Affected



Changes in Water Supply



Portage Glacier

- Alaska



1914



2004

Colorado River

- Arizona



June 2002



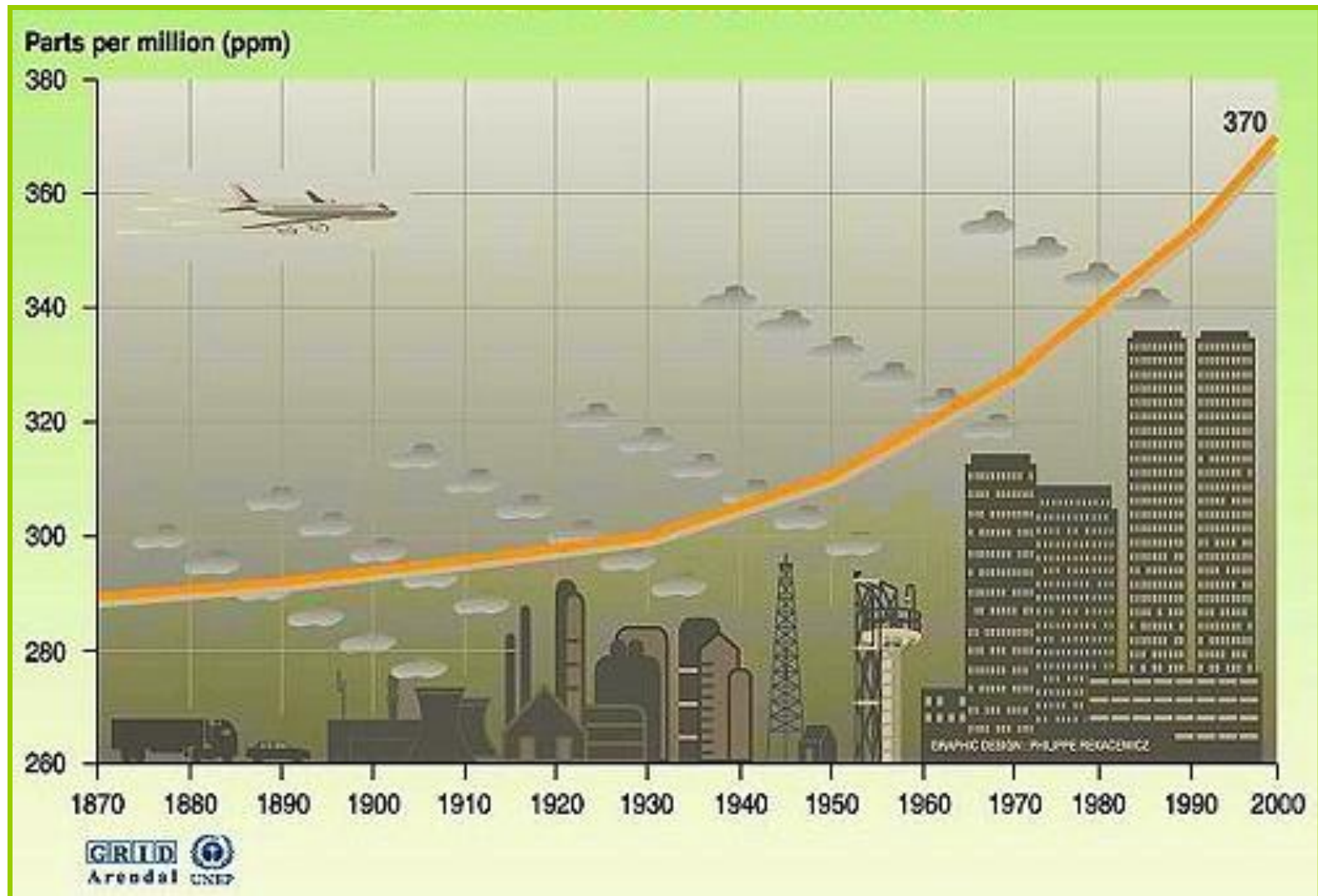
Dec 2003

When did global warming start?



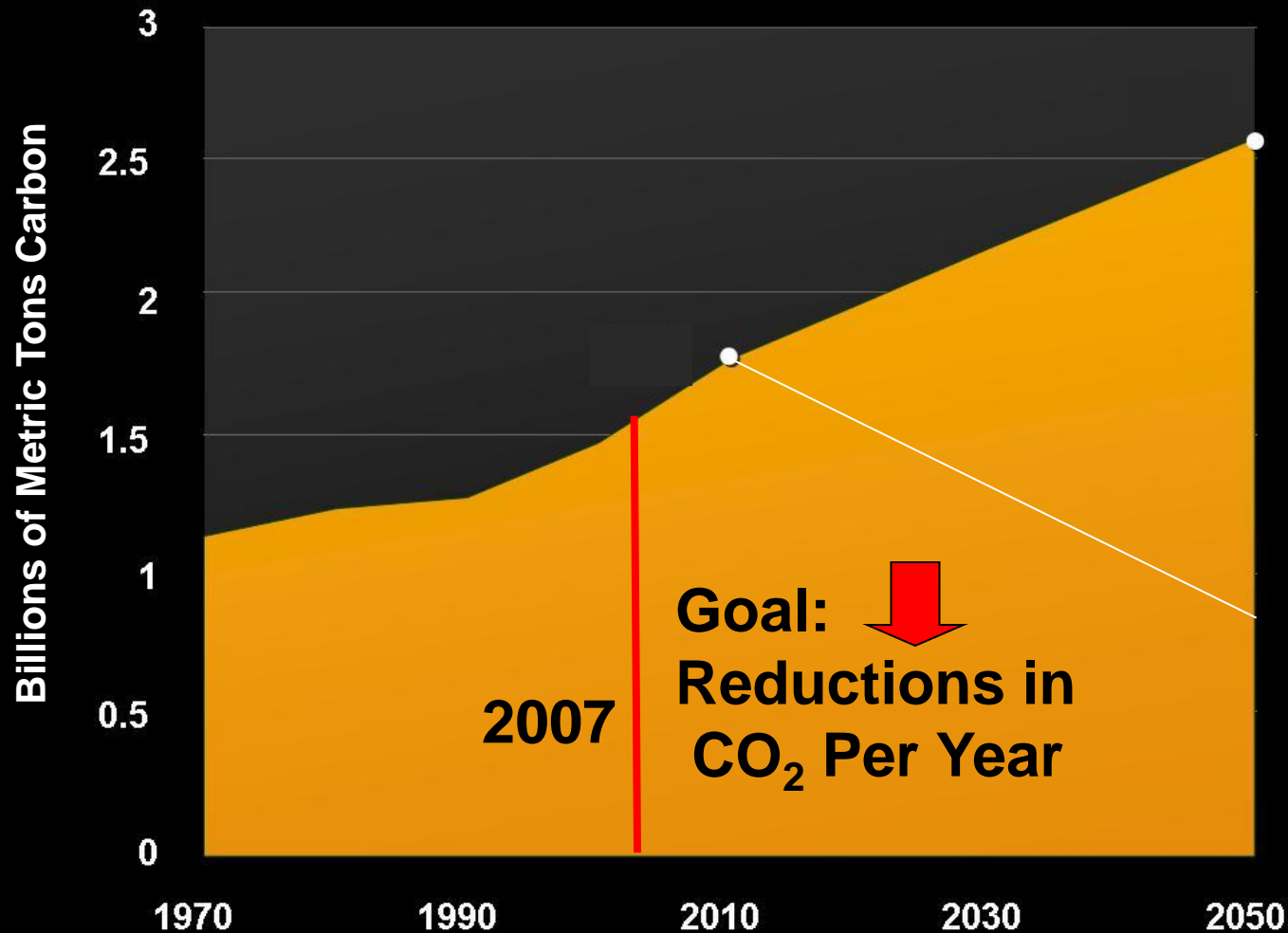
For MIPA day. December 10, 2010

Global Atmospheric Concentration of CO₂

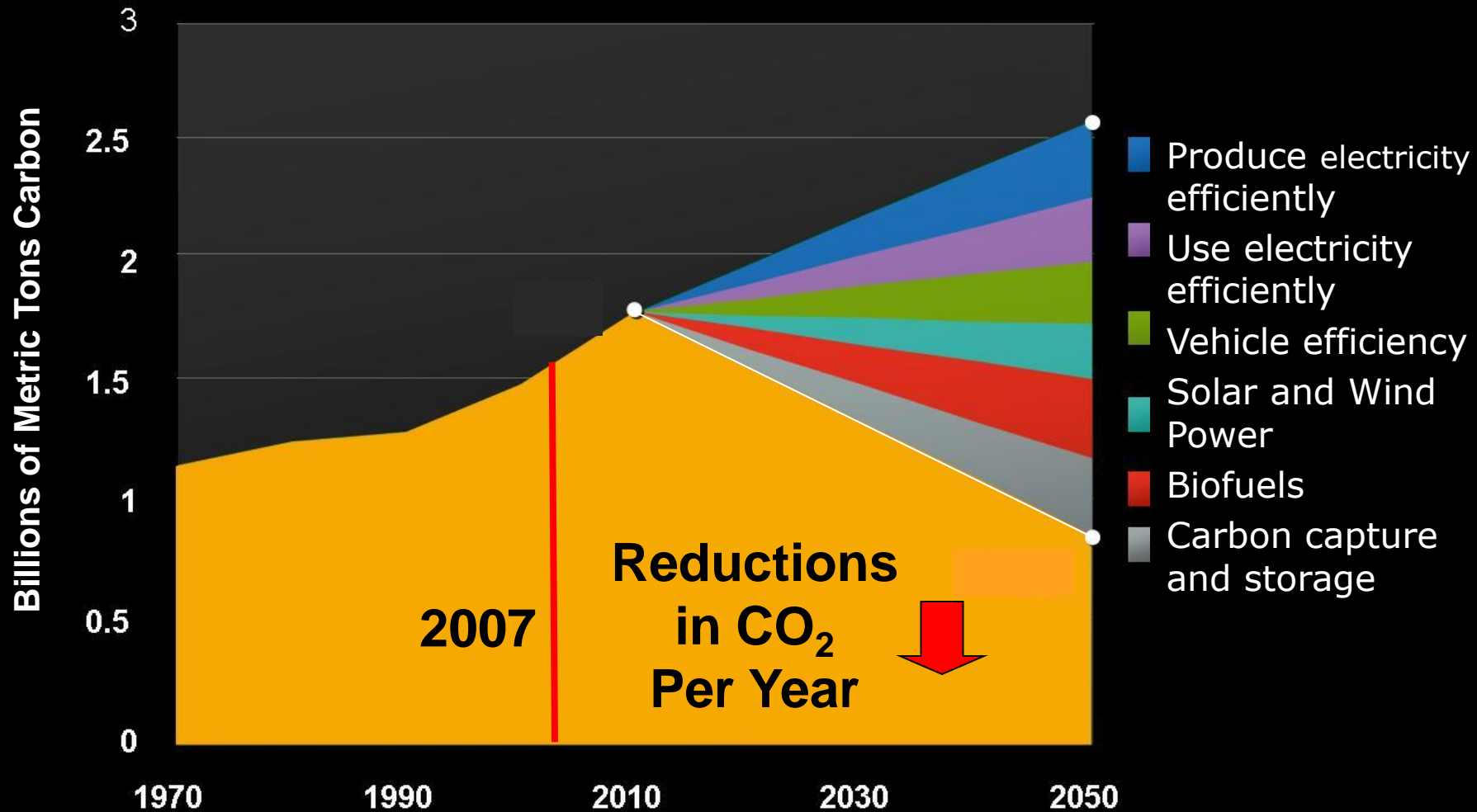


U.S. Emissions

Business as Usual



Our Goal



What's being done now to reduce our emissions?



Wind Power



Solar Power



Fuel-Efficiency

What can you do to help solve the problem?



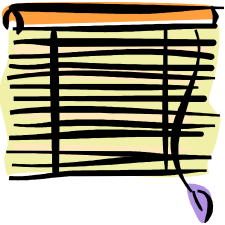
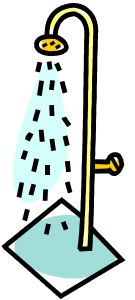
For MIPA day. December 10, 2010

Simple Things To Do (1)



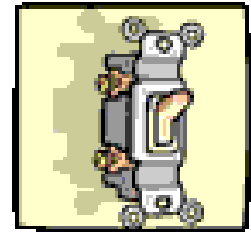
Turn off your computer or the TV when you're not using it.

Take shorter showers. Heating water uses energy.



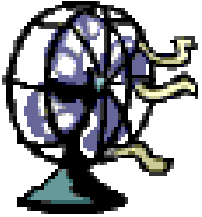
Keep rooms cool by closing the blinds, shades, or curtains.

Turn off the lights when you leave a room.



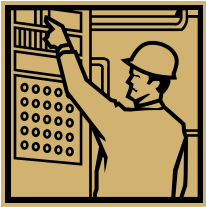
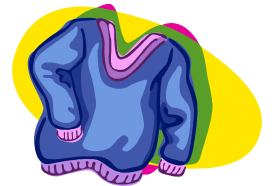
Use compact fluorescent bulbs.

Simple Things To Do (2)



Dress lightly when it's hot instead of turning up the air conditioning. Or use a fan.

Dress warmly when it's cold instead of turning up the heat.



Offer to help your parents keep the air filters on your AC and furnace clean.

Walk short distances instead of asking for a ride in the car.



Plant a tree.



Recycle.



THANK YOU