



POLLUTION

- Pollution is the introduction of contaminants into the environment.
- It's a global problem
- All living things depend on Earth's supply of air and water.
- Three major types of pollution:
 1. AIR POLLUTION
 2. WATER POLLUTION
 3. LAND POLLUTION

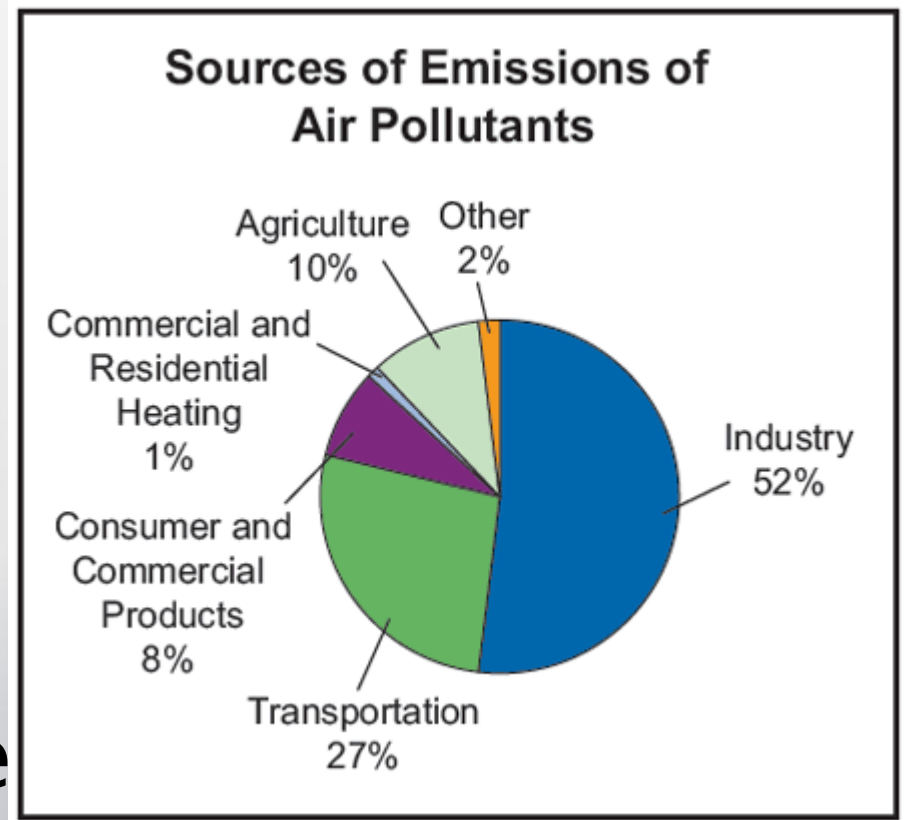
AIR POLLUTION

- It's is the accumulation of hazardous substances into the atmosphere that danger human life and other living matter.



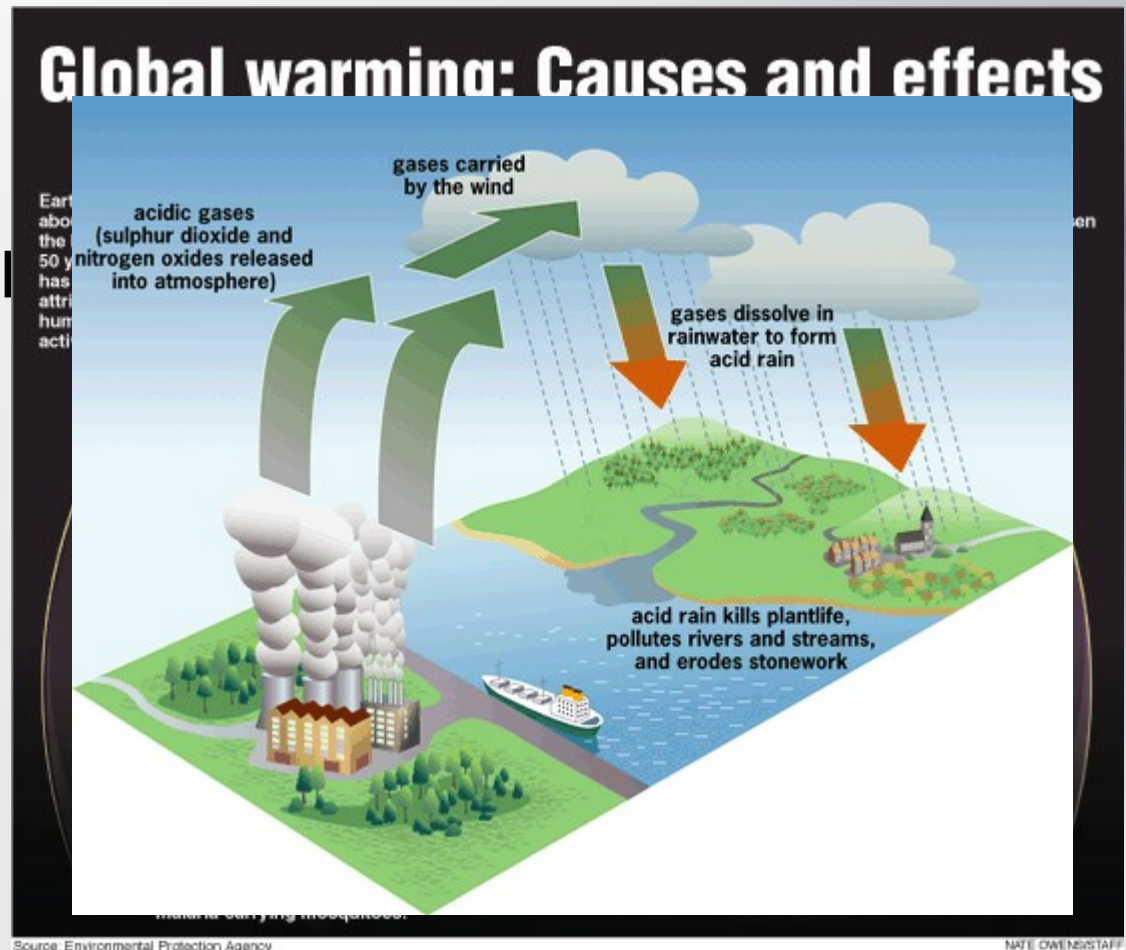
WHAT CAUSES AIR POLLUTION?

- Natural disasters
- Transportation
- Industry
- Greenhouse gase



WHAT ARE THE RESULTS OF AIR POLLUTION?

- Global warming
- Acid rain



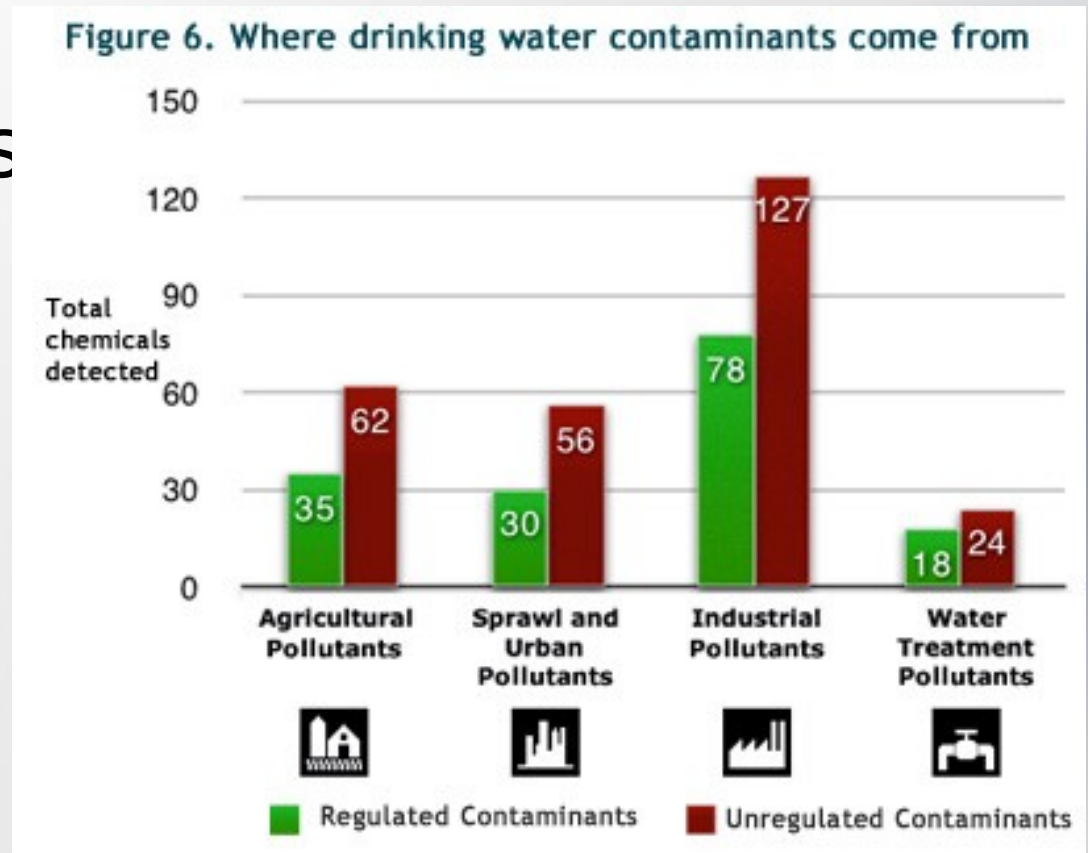
WATER POLLUTION

- It's the introduction of chemical, biological and physical matter into large bodies of water that degrade the quality of life that lives in it and



WHAT CAUSES WATER POLLUTION?

- Chemical pesticides
- Fertilizers
- Garbage



LAND POLLUTION

- It's pollution of the Earth's natural land surface by industrial, commercial, domestic and



WHAT CAUSES LAND POLLUTION?

- Pesticides
- Fertilizers
- Trash



CONSEQUENCES OF AIR, WATER AND LAND POLLUTION ON HUMAN HEALTH

- Short-term effects
- Long-term effects

Health effects of pollution

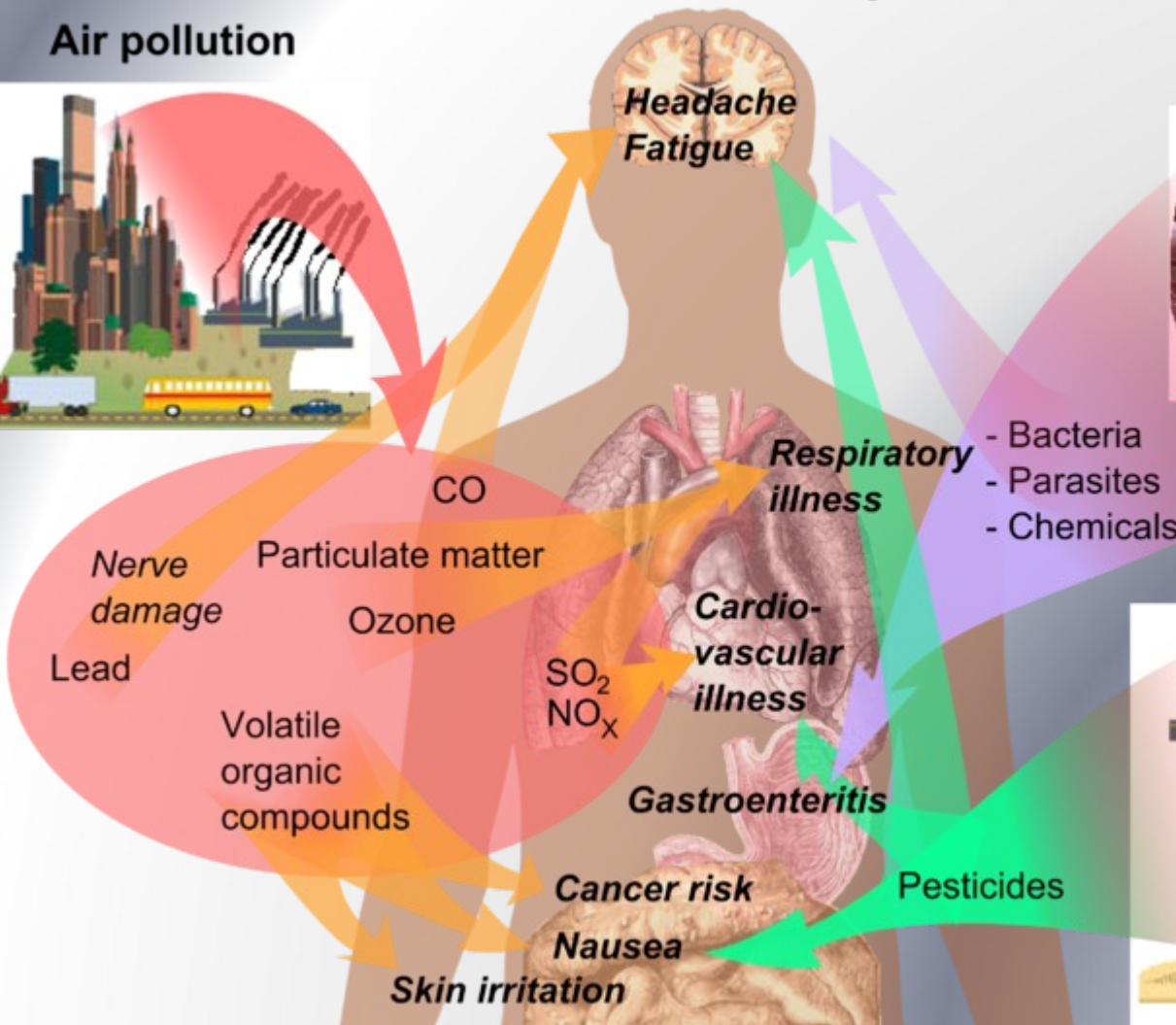
Air pollution



Water pollution



Soil contamination



Headache
Fatigue

Respiratory
illness

Cardio-
vascular
illness

Gastroenteritis

Cancer risk

Nausea

Skin irritation

- Bacteria
- Parasites
- Chemicals

Pesticides

Nerve
damage
Lead

Particulate matter
Ozone

Volatile
organic
compounds

SO₂
NO_x

CO

OTHER TYPES OF POLLUTION

- **SOUND or NOISE POLLUTION** - human, animal, or machine-created environmental noise that disrupts the activity or balance of human or animal life.
- **LIGHT POLLUTION** - is excessive and in most cases unnecessary direct or indirect artificial light that increases



REDUCING POLLUTION

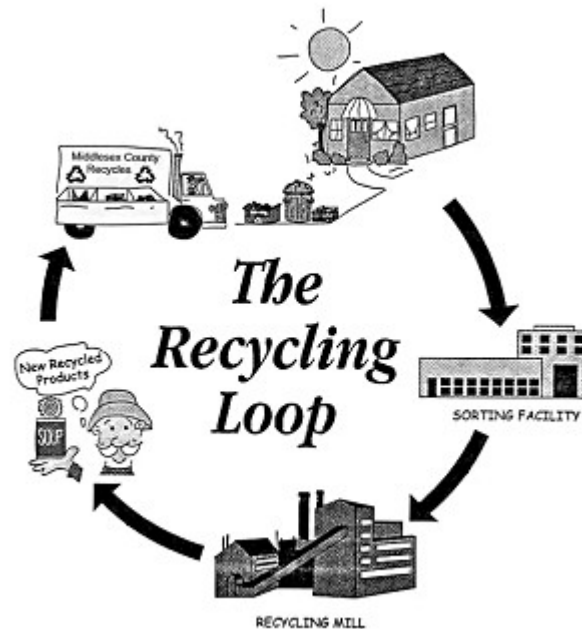
- Reducing pollution requires environmental, political, and economic leadership
- Recycling
- Incineration
- Filtration of the
- Purifying plants



WHAT CAN WE DO TO STOP POLLUTION?



Organic
Good for nature
Good for you



STATISTICS

10 Most Polluted Countries in the World (2011)

1. Mongolia

2. Botswana

3. Pakistan

4. Senegal

5. Saudi Arabia

6. Egypt

7. United Arab Emirates

8. Iran

9. Nigeria

10. Kuwait

10 Most Air-Polluted Cities in the U.S. (2011)

1. Bakersfield, California

2. Fresno, California

3. Riverside/San Bernardino/Ontario, California

4. Fairbanks, Alaska

5. Modesto, California

6. Hilo, Hawaii

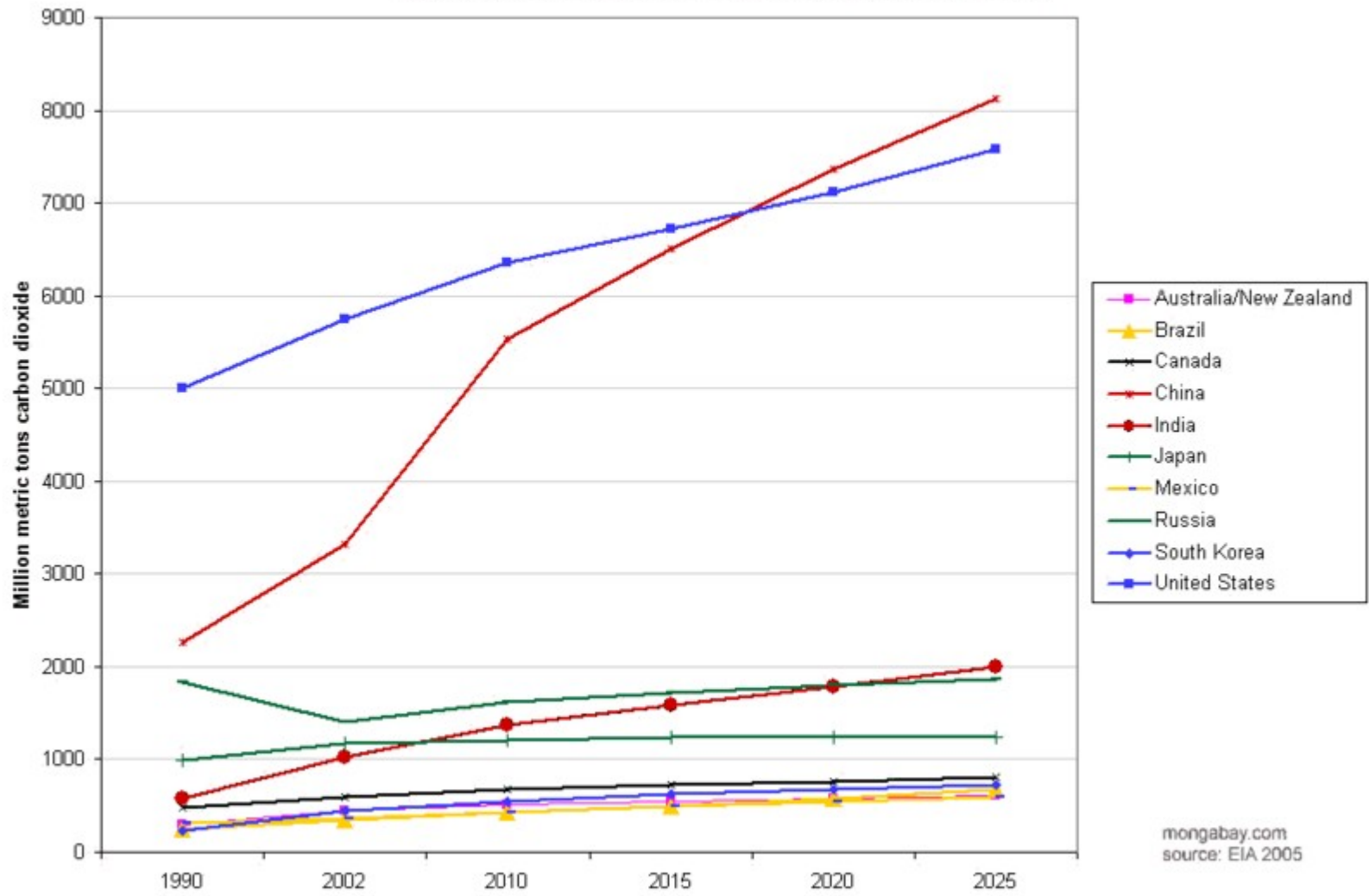
7. Visalia-Porterville, California

8. Hanford-Corcoran, California

9. San Diego, California

10. Pittsburgh, Pennsylvania

World Carbon Dioxide Emissions by Country, 1990-2025



mongabay.com
source: EIA 2005

INTERESTING FACTS ABOUT POLLUTION

- Approximately 1/3 of male fish in British rivers are in the process of changing sex due to pollution. Hormones in human sewage, including those produced by the female contraceptive pill, are thought to be the main cause.
- Fourteen billion pounds of garbage, mostly plastic, is dumped into the ocean every year.
- Over 1 million seabirds are killed by plastic waste per year. Over 100,000 sea mammals and countless fish are killed per year due to pollution.
- Each person in the U.S. produces about 4 pounds (2 kg) of garbage a day.
- Antarctica is the cleanest place on Earth and is protected by strong antipollution laws.

SOURCES

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