

Global Environmental Challenges

- Do we have any Environmental Challenges?
- Are Environmental issues only local? Why or why not?
- Do humans impact the environment? How?
- How can we contribute to a better planet?
- How many Environmental Challenges can you think of?

Water Pollution in Indonesia



Air Pollution in Beijing



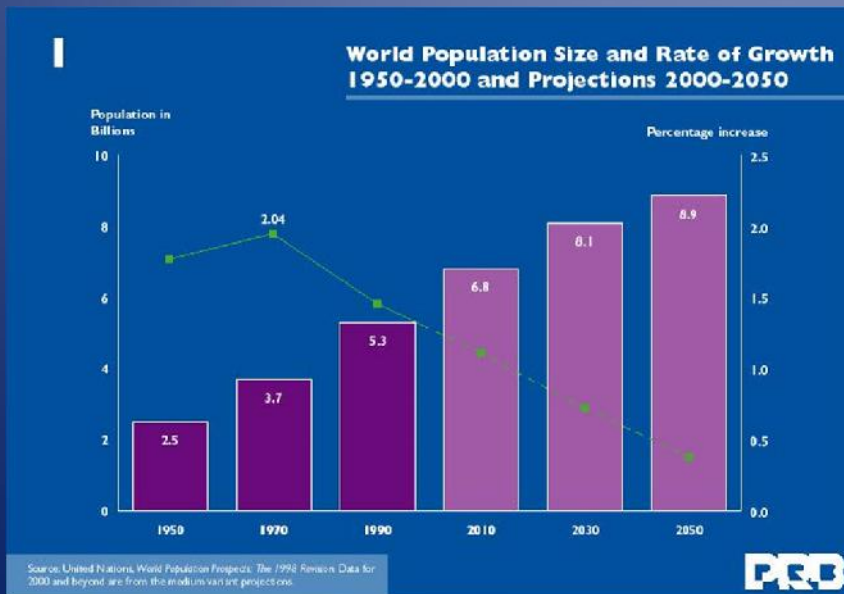
Toxic Pollution in Malaysia



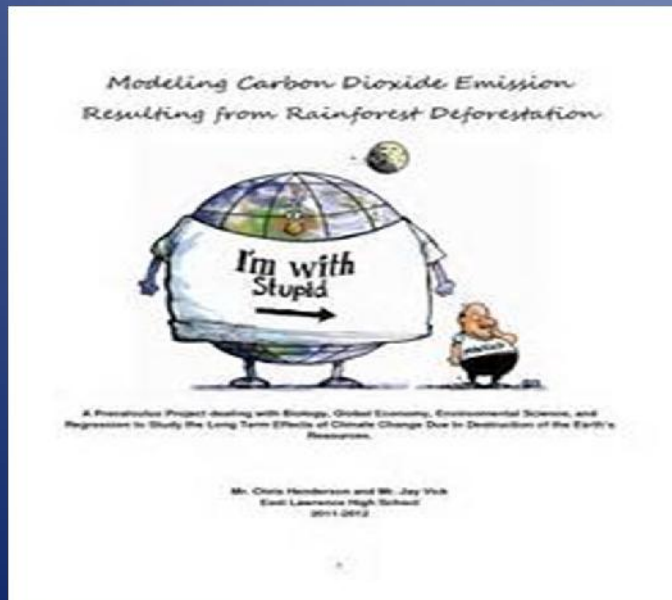
Nuclear Pollution in Japan



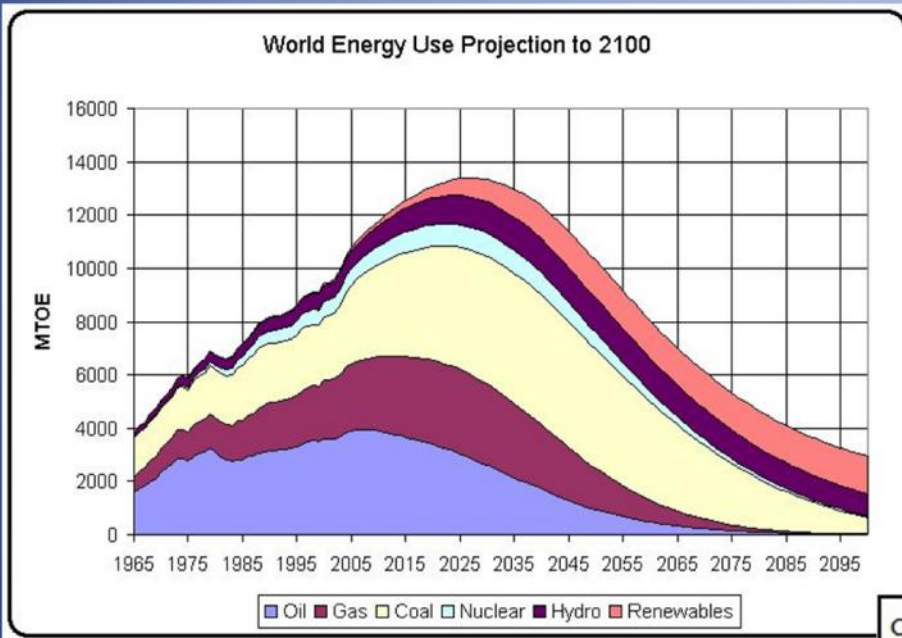
Overpopulation









Deforestation



Worldwide use of energy



Comparing the Environmental Impacts of Power Generation

	Biomass 	Coal 	Nuclear 	Natural Gas 	Solar 	Wind 
Planning and Cost Risk	Moderate	High	High	Moderate	Low	Low
Climate Change Impact	Moderate	High	Low	High	Low	Low
Air Pollution Impact	Moderate	High	Low	Moderate	Low	Low
Land Impact	Moderate	High	High	Moderate	Moderate	Moderate
Water Impact	Moderate	High	High	High	Low	Low
Other Impacts (Noise / Visual Impacts)	Moderate	Moderate	High	Moderate	Low	Moderate

Urbanization

The Global Environmental Impact of Buildings



20%
OF ALL WATER
CONSUMPTION



25-40%
OF ALL ENERGY USE



30-40%
OF GREENHOUSE
GAS EMISSIONS



30-40%
OF SOLID WASTE
GENERATION

EXCLUSIVE



DOG CHASES MOUNTAIN LION
LOS ALTOS HILLS

NBC
BAY AREA

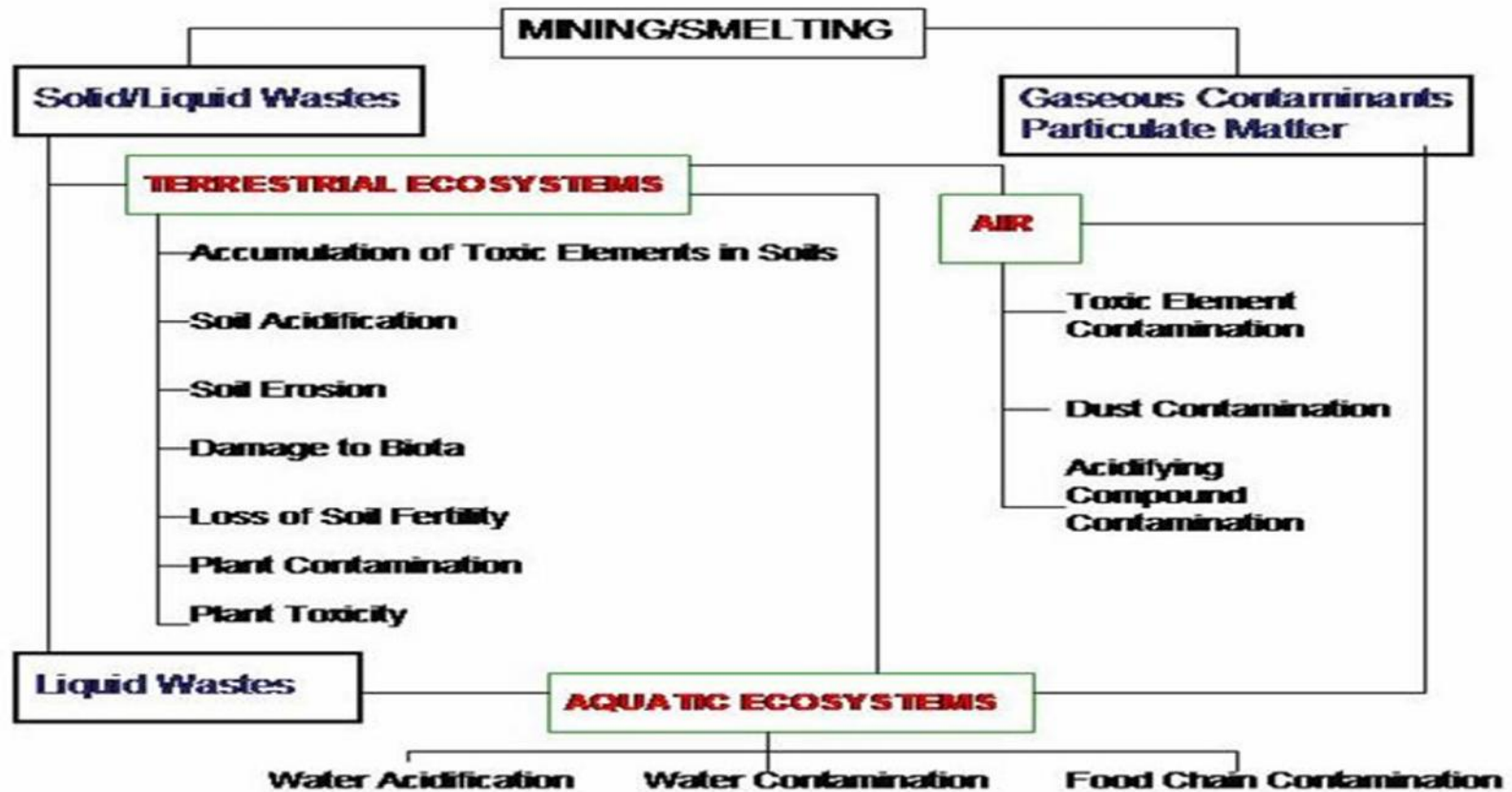
Species Degradation



High Waste Society



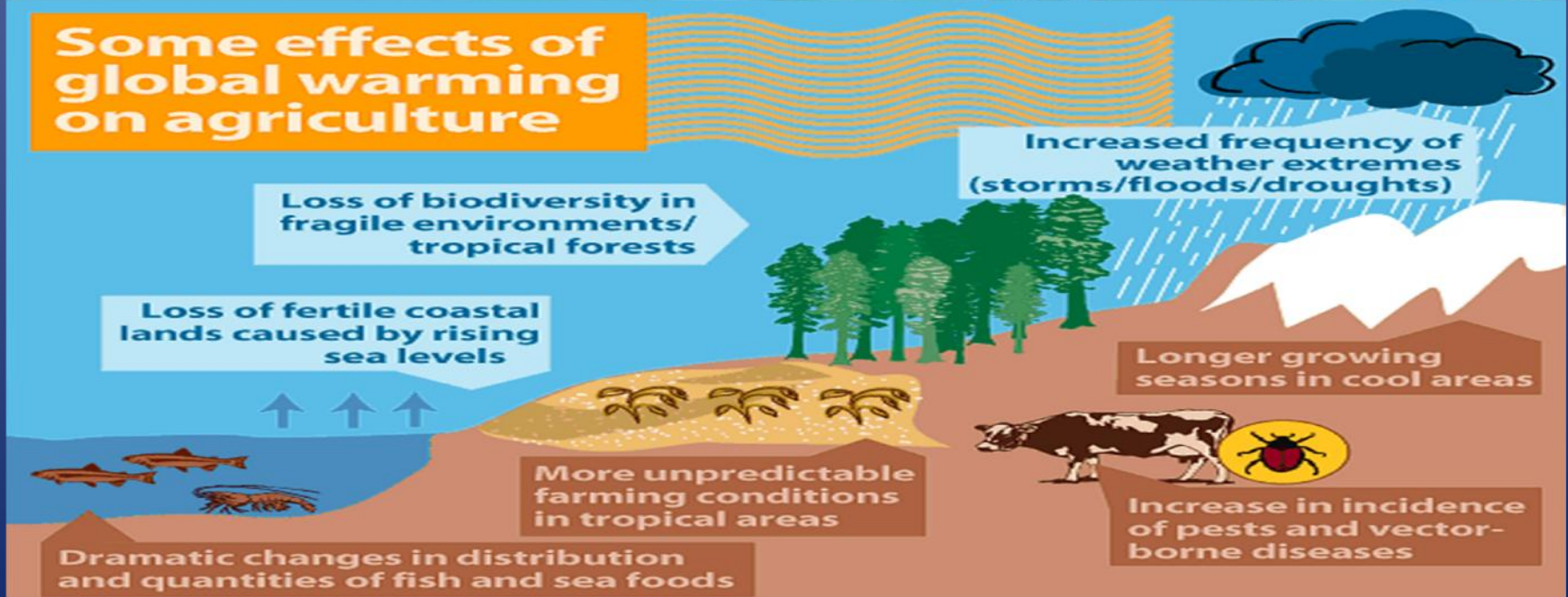
Mining for Minerals



Global Climate Change



Some effects of global warming on agriculture



Long-term fluctuations in weather patterns could have extreme impacts on agricultural production, slashing crop yields and forcing farmers to adopt new agricultural practices in response to altered conditions.

What is the Common
Denominator in each of the
Environmental Challenges we
examined?

HUMANS



Can we make a difference?

- Practice the 5 R's
 - Refuse- Do I really need to buy a new product?
 - Reduce- Can I get by with less?
 - Reuse- Can I repurpose something I already own?
 - Recycle- Can I dispose of my waste more efficiently and use less new resources?
 - Rethink- Can I make PERSONAL day-to-day decisions that are kinder to the environment?

What is the impact of environmental issues on living things?

- WASSEEM

Water

Air

Soil

Species

Ecosystem

Energy

Minerals