## Interactions between Natural and Human Systems

**Using System Thinking** 



- Used by geographers to study both natural and human systems
- Used to helps us make better decisions as we work to create safer and healthier environments.
- Can help us to protect natural systems and to use resources so they last into the future.



To conserve natural resources so that they survive for the future generations.



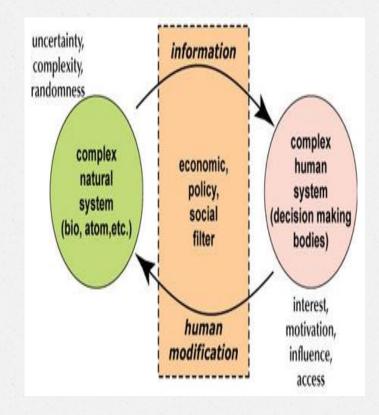
- A complex set of Dynamic systems make up our world.
  - Dynamic---continually changing.
  - May take millions of years for the change(oil formation)
  - May only take a few minutes for the change (car burning gas)
- In what ways can a change in one natural system influence that system? Influence another natural system?



## Synergy:

- The whole system is greater than the sum of it parts
- WATER (2 parts hydrogen/1 part oxygen)
- CAR (engine, tires, brakes)

- People depend on natural systems for survival.
- Human activities have an impact on natural systems.
- Natural systems influence people's activities.





- Humans depend on nature for needs (survival).
- Natural systems influence people's activities.
- Human activities have an impact on natural systems.
- Humans cannot help but change the natural environment as they use resources



- Negative and positive consequences of human actions:
  - Changing the landscape (Clear cutting Forest)
  - Health and sustainability of the environment (pollution)
  - Climate change
  - Global warming

## Question????

- Given a natural disaster such as an earthquake, hurricane, flood or drought.
- Explain the immediate and long term consequences it would have on two nature systems in your area.