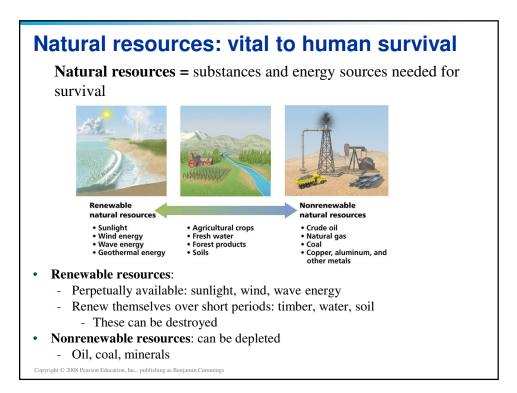


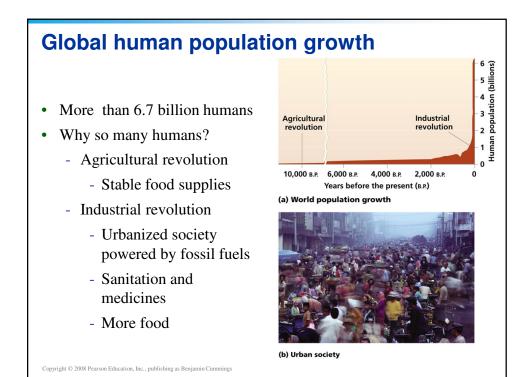


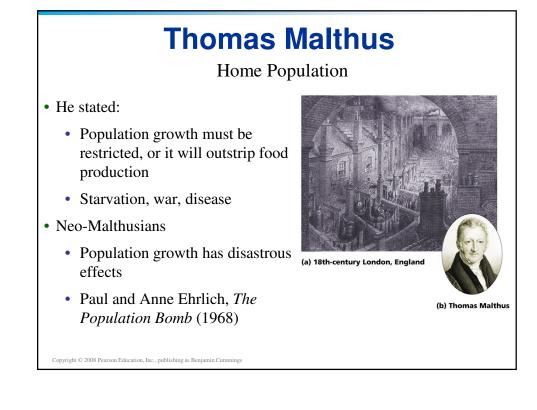
### Humans and the world around us

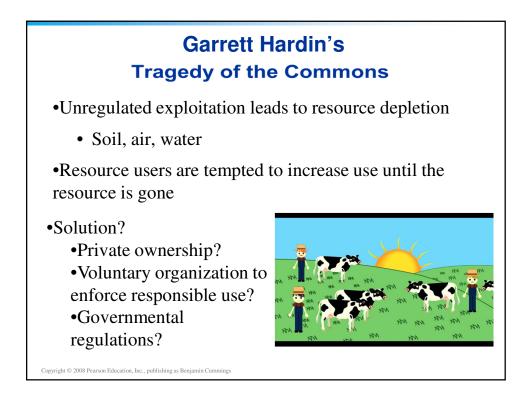
- Humans change the environment, often in ways not fully understood
- We depend completely on the environment for survival
  - Increased wealth, health, mobility, leisure time
  - But, natural systems have been degraded
    - i.e., pollution, erosion and species extinction
  - Environmental changes threaten long-term health and survival
- Environmental science is the study of:
  - How the natural world works
  - How the environment affects humans and vice versa

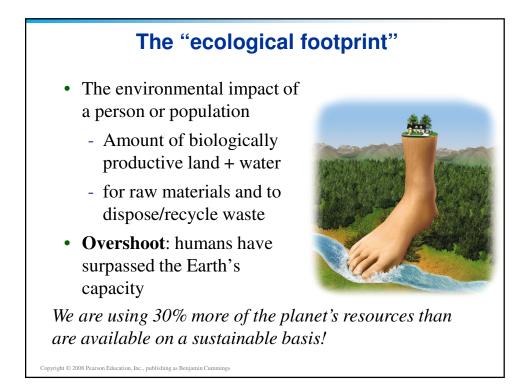
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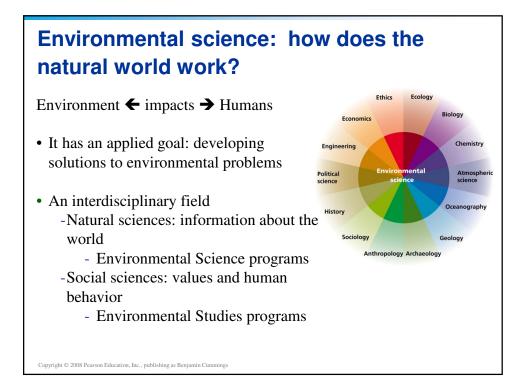
### **Environmental science**

... can help us avoid mistakes made by past civilizations.



The lesson of Easter Island: people annihilated their culture by destroying their environment. Can we act more wisely to conserve our resources?

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### What is an "environmental problem"?

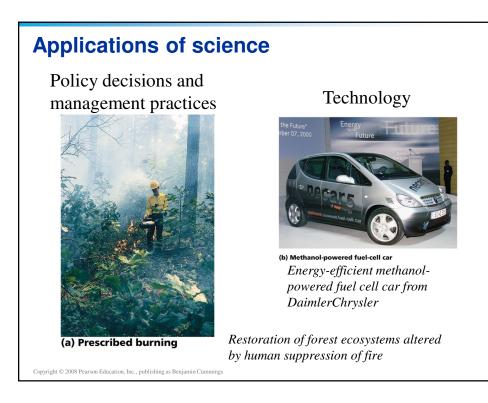
- The perception of what constitutes a problem varies between individuals and societies
- Ex.: DDT, a pesticide
  - In developing countries: welcome because it kills malaria-carrying mosquitoes
  - In developed countries: not welcome, due to health risks

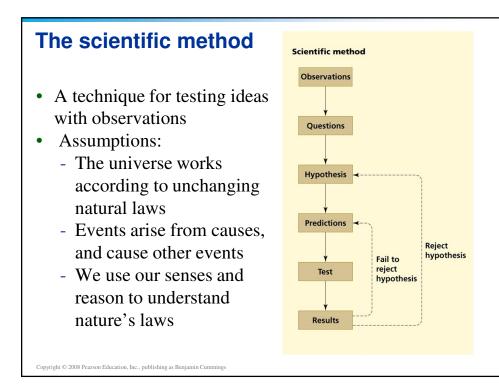


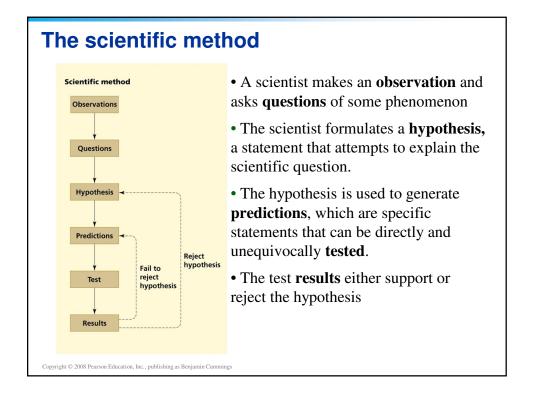
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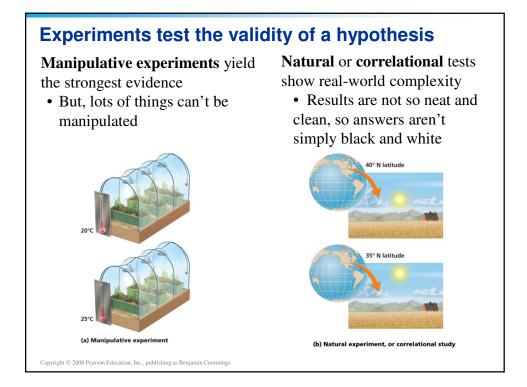
# <section-header> Environmental science is not environmentalism Environmental science The pursuit of knowledge about the natural world Scientists try to remain objective Environmentalism A social movement dedicated to protecting the natural world





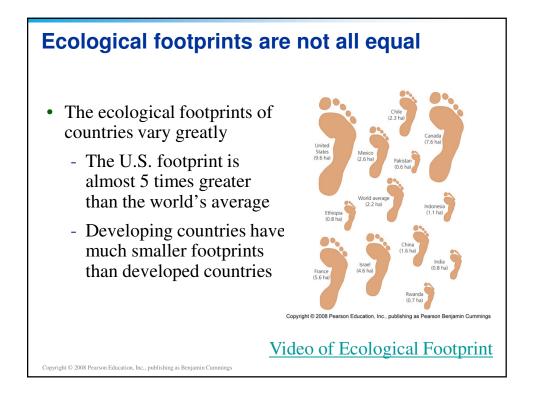


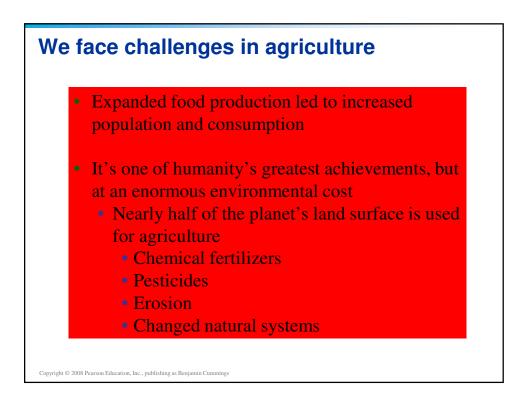
The Scientific Method	
1.	Define the Problem
2.	Research the Topic
3.	Make Observations
4.	Form Hypothesis
5.	Experiment
6.	Analyze Data
7.	Draw Conclusions



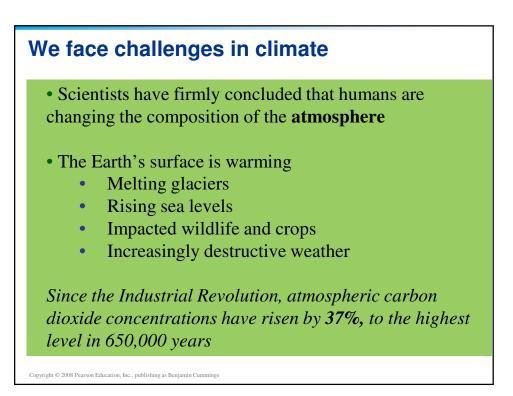
## **Population & consumption**

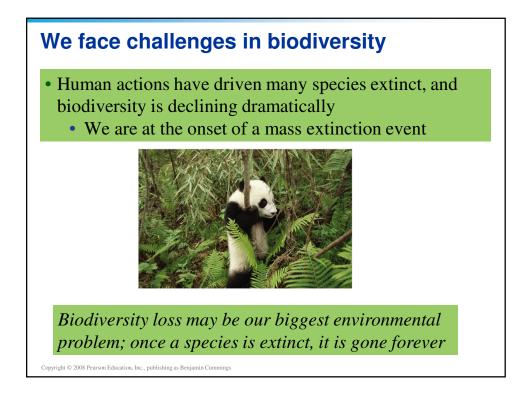
- Human population growth exacerbates all environmental problems
  - *The growth rate has slowed, but we still add more than 200,000 people to the planet each day*
- Our consumption of resources has risen even faster than our population growth.
  - Life has become more pleasant for us so far
  - However, rising consumption amplifies the demands we make on our environment.

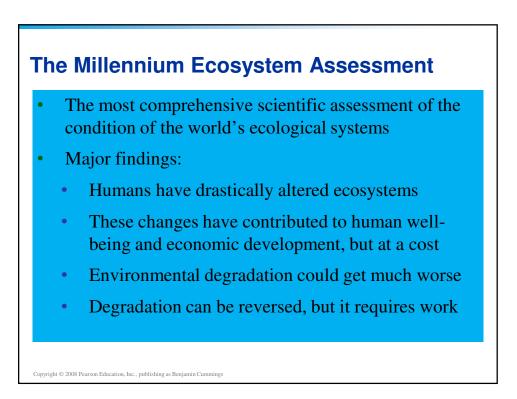


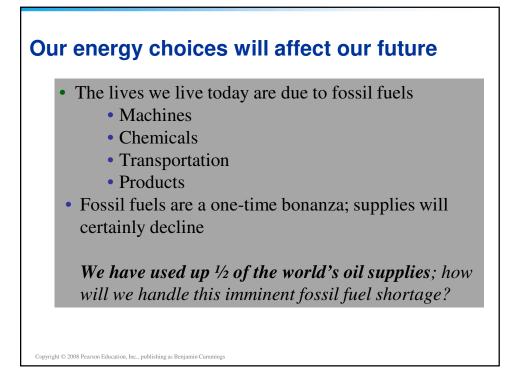




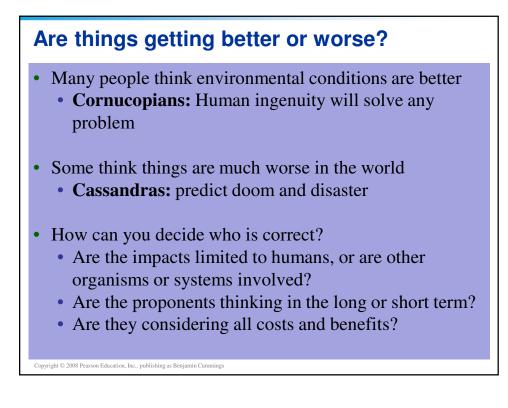


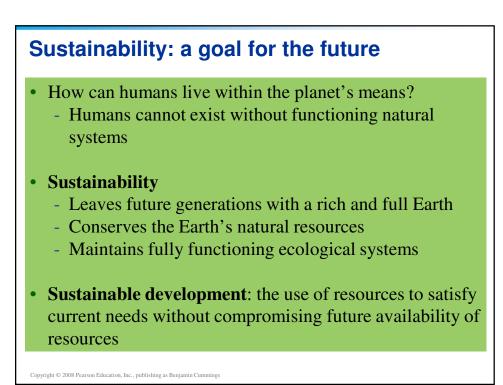


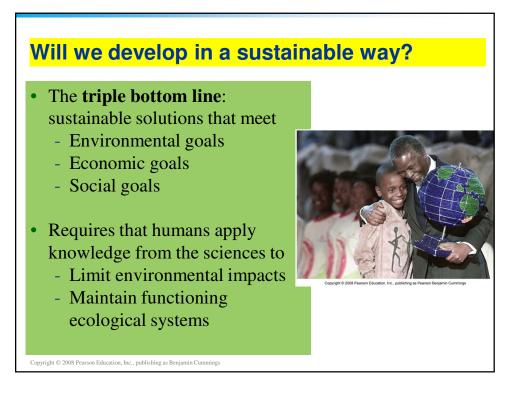














- Environmental science helps us understand our relationship with the environment and informs our attempts to solve and prevent problems.
- Identifying a problem is the first step in solving it
- Solving environmental problems can move us towards health, longevity, peace and prosperity
  - Environmental science can help us find balanced solutions to environmental problems

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