

Sustainable Development

- Protect the environment and meet human needs
- Must consider the social, environmental, and economic aspects of development
- 10 principles of development

Ecological principles

1. Dependence – need environment to survive
2. Biophysical limits – ability of environment to replenish
3. Living within limits – carrying capacity
4. Interdependence – consequences to our actions in the environment

Social/ethical principles

5. Intergenerational equity – obligation to future generations
6. Intragenerational equity – obligation to others living
7. Ecological justice – actions should not endanger others

Political principles

- 8. Participation – must help
- 9. Cooperation – everyone must help, cross international borders
- 10. Addressing the root causes – start before it happens

Ten principles

- Are they valid?
- Which ones are the most important?
- Which ones are already being addressed?
 - Dependence
 - Biophysical limits
 - Living within limits
 - Interdependence
 - Intergenerational equity
 - Intragenerational equity
 - Ecological justice
 - Participation
 - Cooperation
 - Addressing root causes

Sustainability of human settlements

- Are human settlements sustainable?
- Read section 2.4 – Premise is that human settlements are not sustainable.
 - Do you buy the argument?

Matrix showing the systems and principles of sustainability

SYSTEMS	PRINCIPLES OF SUSTAINABLE DEVELOPMENT				
	Conservation (efficiency and frugality)	Recycling and composting	Renewable resource use (especially energy)	Habitat protection, restoration, and sustainable management	Growth management (controlling growth patterns and stabilizing growth)
Transportation (surface, air-, and water-based systems)	<ul style="list-style-type: none"> • Buy fuel-efficient car • Carpool 				
Housing and other buildings (i.e. construction systems)		<ul style="list-style-type: none"> • Build home using recycled materials • Build a compost bin 			<ul style="list-style-type: none"> • Build compact cities • Create urban growth boundaries
Agriculture, food processing, and distribution (i.e. food production system)			<ul style="list-style-type: none"> • Use biodiesel in farm machinery • Install wind generators for electricity 		
Business (commercial and industrial)				<ul style="list-style-type: none"> • Match employee gifts to conservation groups • Protect native vegetation during land development 	
