



The Earth' s population is around 6.6 billion and is estimated to surpass 8.9 billion by 2050 according to a UN report published in 2004.

How does this affect our planet?

There is increasing strain placed on the Earth's resources as our numbers go up.

However, population growth is not the main cause of the environmental problems we face today!

What do the following expressions tell you about our society?

Retail therapy

Shop till you drop

Consumption

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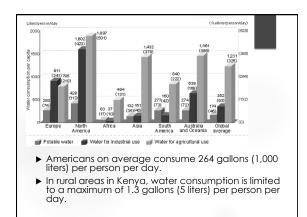
produce and consume more has steadily grown.

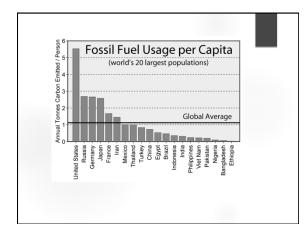
resources lies at the root of many of our global environmental problems.

Since the Industrial Revolution, our al

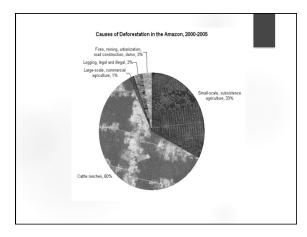
•Current consumption patterns stress limited natural resources, contribute to global warming, and create wasteful and even toxic byproducts that affect the quality of life and the health of communities around the world.

•Add global population growth to the mix, and it becomes increasingly clear how the health of the ecosystems we depend on for survival are being compromised.





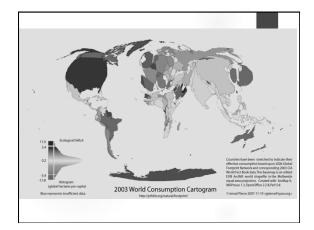






Distribution of Wealth

- An important dimension of the problem of consumption are the extremes of wealth and poverty, the fact that some consume too much while others do not have enough.
- It is estimated that the richest 20% of the world population consumes 80% of the world's resources.



Solutions?

- Reducing excessive consumption does not necessarily have to mean a reduction in the standard of living.
- Recent studies show that the Western lifestyle could be maintained with much greater efficiency in resource use.



Ecological Footprint

An ecological footprint is the area required to provide the goods and services consumed by individuals, communities or organizations.

Your homework: Calculate your own ecological footprint. http://www.myfootprint.org/







The Global Village



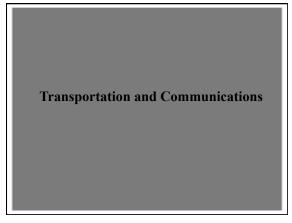
"Humanity stands at a defining moment in history. We are confronted with a perpetuation of disparities between and within nations, a worsening of poverty, hunger, ill health and illiteracy, and the continuing deterioration of the ecosystems on which we depend for our well-being. However integration of environment and development concerns and greater attention to them will lead to the fulfillment of basic needs, improved living standards for all, better protected and managed ecosystems and a safer, more prosperous future. No nation can achieve this on its own; but together we can - in a global partnership for sustainable development." Report of the United Nations Conference on Environment and

Report of the United Nations Conference on Environment and Development, Rio de Janeiro, 3-14 June, 1992.

The Global Village

- A Canadian professor of C o m m u n i c a t i o n s, Marshall McLuhan noted that the world seemed to be getting smaller all the time.
- His phrase "the global village" describes the situation aptly.





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The Global Village -Transportation

- Transportation on land, sea and air have been revolutionized during the last century or two.
- ► In the 19th century the railway transformed British North America and helped to create a new country.
- Traveling overland across Canada went from being a virtual impossibility to a relatively comfortable trip of less than a week.



The Global Village -Transportation II

- Modern aircraft shorten the journey even more.
- It now takes as little as 9 hours to fly from London, England to Vancouver, BC.
- ► Future generations of SCRAMJET aircraft may reduce this time to under 1 hour.



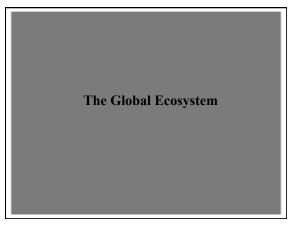


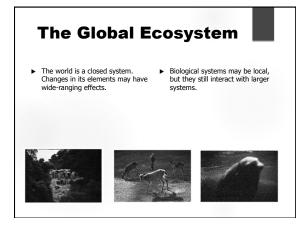


The Global Village -**Communications II**

► In the developing world, cell phone and satellite communications may enable countries to avoid the problems and expense of maintaining land-line links.









The Global Ecosystem

► In recent years much concern has been voiced over the loss of rain forest in temperate & tropical climates.

Rainforests are sometimes referred to





The Global Ecosystem IV

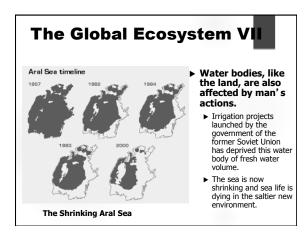
- Since 1970 the world's wooded area per 1,000 population has been reduced from 11.4 square kilometers to less than 7.3.
- From 1990 to 2000, the rate of loss of forest cover was .2% per year – 9, 391,000 hectares in total.





Former farmland in South Australia

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The Global Ecosystem VIII

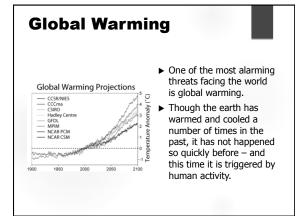
- The United Nations reported in 1998 that 20 countries already suffer from water stress - with less than 1,000 cubic meters of water per capita available.
- It also reports that the 1950 total of 17,000 cubic meters per capita has been reduced to merely 7,000 today.
- As population increases, our ability to sustain life is being reduced. The UN suggests that 2/3 of the world's population will face moderate to severe stress in 2025.

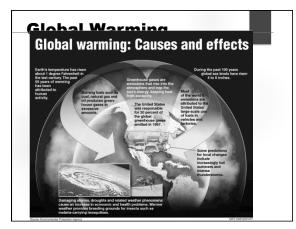


The Global Ecosystem IX

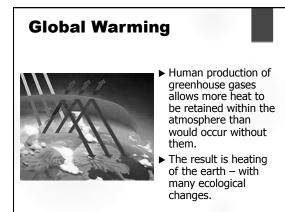
Local incidents may now have regional, or even global implications, as the Chernobyl nuclear accident of 1986 showed. Radiation fallout contaminated wide areas of Europe.









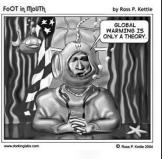




Global Warming Image: Straig straight of the straight of the

Global Warming

- Were it not fore the poor world economy, this would be a top story in the news.
- President Bush largely ignored the issue.
 Obama sees it as important, but cannot get enough political support to deal with it.
- Others, including most scientists, believe action must be taken now – to avert a global catastrophe.



Copenhagen Conference



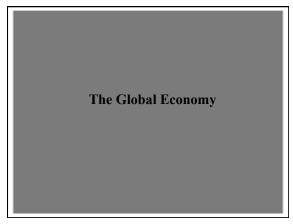
Copenhagen in December 2009, there were high hopes for progress in dealing with climate change, a treaty to replace and improve upon the 1997 Kyoto Protocol. •Coming during a major world economic downturn, it resulted in disaster. •In particular, there was a falling out between the US

and China.

Copenhagen Conference

- C of greenhouse gasses, wants special treatment as a developing nation – something accepted at earlier talks.
- The US wants China treated like a developed nation. In addition, Obama is unable to get Congress to even consider cuts to US emissions as Republicans, especially of the "Tea Party" sort – don't even accept the premise of climate change.









The Global Economy III

- Nonetheless, business is not without risks.
- ► The lure of better profits elsewhere can cause investors to pull their money out.
- Money can leave quickly, resulting in devastation in local economies.





The Global Economy V

- In 2008 the world economy experienced the most serious crisis since 1929.
- Years of governments deregulating and not enforcing regulations resulted in some the creation of new kinds of investments, called derivatives.
- These are investment certificates based on packaged securities, like ownership of mortgage debt. In an ideal world the risk is analyzed by mathematical models and derivatives serve as insurance policies.
- ► The problem lay in banks selling off their risk, so they lost any reason to be careful in their lending.
- Buyers of securities did not really know how much shaky debt they were buying. When the US real estate market headed downward a banking crisis followed.

The Global Economy VI

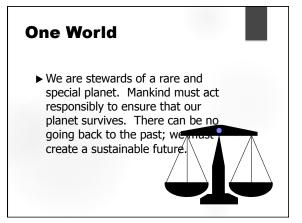
- Banks stopped lending and the world economy was on the verge of collapse.
- National governments bailed out the banking system and spent massively to keep business and employment afloat.



The Global Economy

VII

- Taxpayers were left to bail out big banks, big investors, and large corporations.
- Governments now faced huge debt problems. They, quite rightly, spent money borrowed from the future to prevent a new Great Depression today.
- When to stop spending and how soon the money should be paid off are questions facing all governments today.
- Governments that seek to eliminate the debt quickly cut services to do so and hit the poor and middle class hardest. There is huge resistance to increasing taxes.
- It seems we have privatized profit and socialized risk for major corporations and investors.
- Worse still, focus on economic problems get in the way of dealing with other pressing problems.





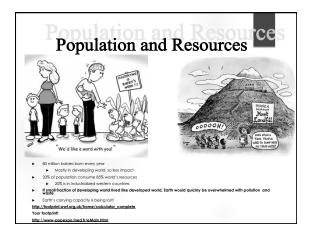
Unit Environment.

Intro: http://www.unep.org/gc/gc23/UNEPLAST.html David Suzuki-Test Tube Clip: http://testtube.nfb.ca/#/testtube

Story of stuff: http://storyofstuff.org/movies/story-of-stuff/ http://breathingearth.net/

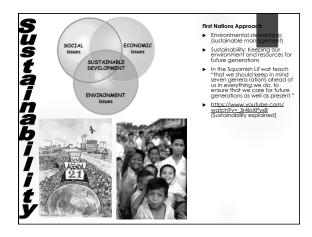
Why care about the environment?

- "a great change in our stewardship (care of) the earth and the life on it is required, if the vast human misery is to be our avoided"
- More storms, droughts, destruction of natural resources (economic-)greater
- Up north a war could be fought!
- Some countries including US, Russia, Denmark, and Norway see the potential for economic wealth from oil and natural gas Arctic seabed and shipping lar free Northwest Passage

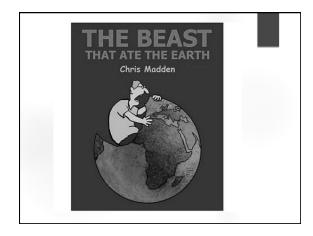


Feeding a growing population

- 1500 litres of water produce 1 kg of wheat, while 500 litres for 1 kg of potatoes
- More MEAT more DAIRY-1000 litres of water to make 1 litre of milk, and nearly 16000 for 1 kg of beef.
- Added to this are the costs deforestation to create grc energy use to ship food, ar resources.

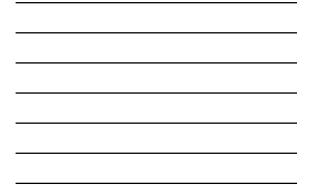


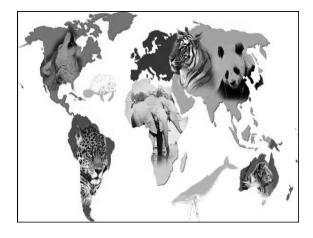






SPECIES EXTINCTION	CAUSES (CHEMICALS)	GLOBAL EFFECTS	HUMAN HEALTH EFFECTS	AREA OF FOCUS	POSSIBLE SOLUTIONS	
A species becomes estinct when the last existing member dies.	Species become extinct due to taking animals for profit, over huming and verthar vertical overhar vertical destruction of habitat, climate	Loss of biodiversity, can cause climate can and can polytion. We lose an important part of the food chain/web, other species are effected.	The food chain will be effected, and humans are diffected, and humans are for the top of the food chain. There increase of pasts or an outbreak of diseases, loss of medical cures. There are the diseases, loss of genesil top of the the top of top of the top of the top of top	 Climate change could wipe out 20% of the worlds list dispectes to the could be change is also affecting polar bear due to warmer lemperatures melting polar beas find it harder to hunt for seals while starvation. 	Sector bagging sector bagging monochain bagging	
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	Minister			WA1 TAG		
W	RESH ATER RTAGE	CAUSES (CHEMICALS)	GLOBAL EFFECTS	HUMAN HEALTH EFFECTS	AREA OF FOCUS	POSSIBLE SOULTIONS
water water, distribu unequ 78% of water ice ca glacie the ret	however ution is al and that is stuck in ps and	The shortage of fresh water is due to many things like global warming, global warming, and the short water weather patterns changing or problems of the patterns changing or problems of the patterns changing or problems of the patterns changing or problems of the patterns changing or patterns changing o	The freshwater shartage can lead to an Aquifer drawdown ar overdrafting, by pumping for more groundwater the entire system of water can be ruined. Aquifers: Undergound water supplies	9.55 million people die each year from water diseates. One in nine people don't have access to freshwater. De dins from water are greater than any deaths caused from diseate, war, etc.	Becoming a world issue. More felt in water poor countries. Lake Frie is the shallowest of the Great Lakes. by 1960s and 1970s it become very polluted. In 1969. Cuyahoga eds e.	Legistions- Clean Water Act Current technology can equal water management. Such as micro- dams, more efficient rainwater backsmad/ nore efficient rainwater paynikker systems and high efficiency / low flow toilets

