

environmental conditions Who/what have the potential to help solve the environmental problems? Individuals

Industry Governments Should it be the responsibility

of individuals to actively identify and minimize their environmental impacts?

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Stuart asks: If all three participate (Individuals, Industry, Governments) will this be enough to solve the environmental impacts? Or, must there be more fundamental, structural

change. If the latter, what might this look like?

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Stuart states that we must be clear on the causes of the problem in order to identify solutions.

What would you guess Stuart believes are the two primary <u>causes</u> of environmental problems (EPs)?

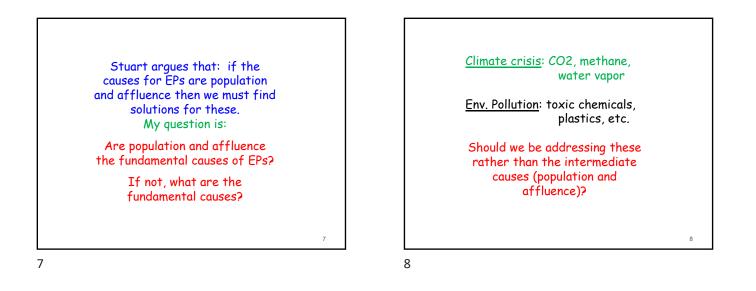
(hint: what factors were included in Hannigan's formula)

Stuart includes: population and affluence

What can environmental sociologists do to help?

- <u>Collect data and measure the</u> <u>impacts</u> these groups are currently having and compare this to what climatologist and other scientists report is needed to solve the problem.
- 2. Analyzing data to <u>determine</u> <u>which solutions being tried</u> <u>appear to be most promising</u>. And, what new untried ideas appear promising

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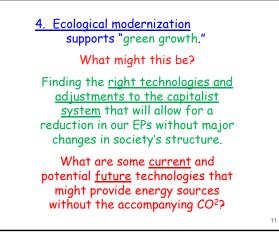


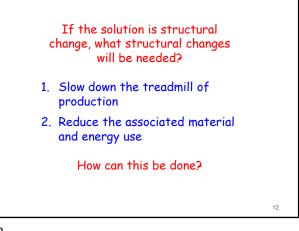
If we believe <u>population</u> and <u>affluence</u> must be addressed, as Stuart suggests, then we must find solutions for these.

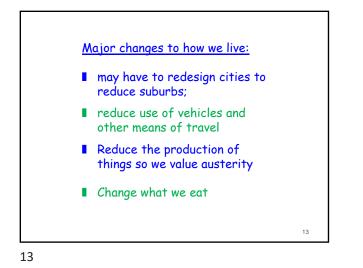
What would be some tactics for solving these causes of EPs?

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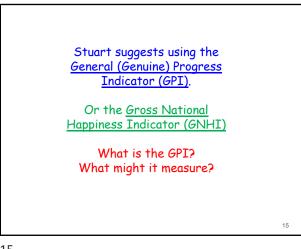




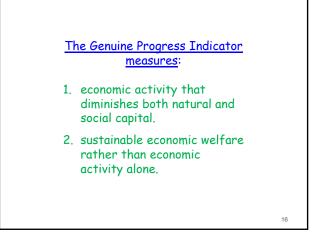




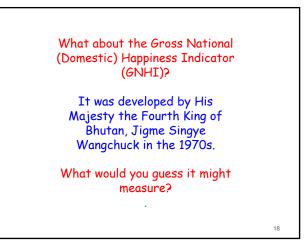


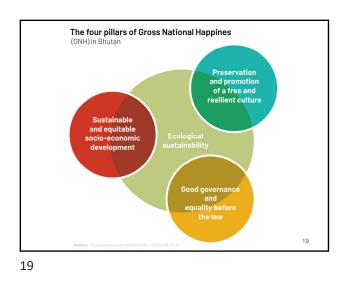


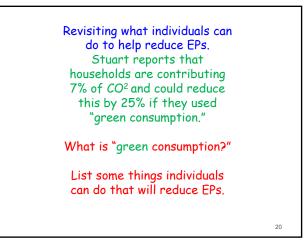




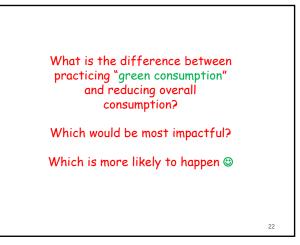


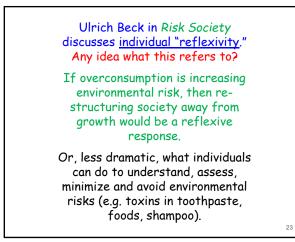




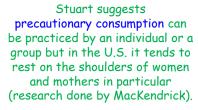












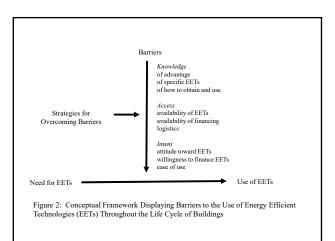
Do you agree?

What about precautionary consumption by governments. What can they do to reduce the use of toxins?

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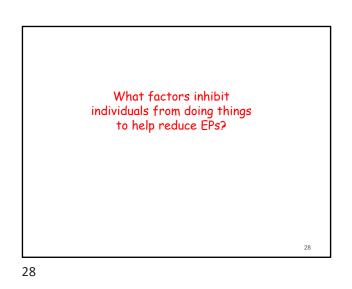
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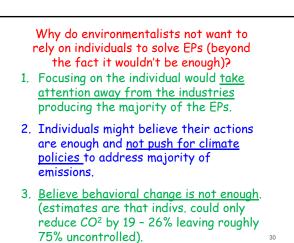
According to the U.S. Food and Drug Administration, <u>not all products undergo</u> <u>premarket approval</u> – that is, a review of safety, quality, and effectiveness by FDA experts prior to approval of a product being sold to consumers. Thus, the FDA's enforcement efforts focus on products after they are already for sale, questioning their "precautionary" approach. 27



In Europe the governments practice a strict precautionary consumption approach by testing new products before they go on the market. In the U.S. The Food and Drug Administration (FDA) is responsible for protecting the public health by assuring the safety of biological products, food supply, etc. However, Stuart reports that products are often allowed to be sold until they are found to be dangerous.

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Ecological modernization is another name Current Technologies for the view that society can reduce our 1. Wind energy EPs through the use of science. 2. Solar energy technology, markets, and policy reforms 3. Nuclear energy (rather than major structure change) 4. Geothermal It explicitly proposes that we can support 5. Hydrogen economic growth while successfully Future Technologies addressing our EPs. 1. Reflecting solar energy back into What are some existing technologies that space are helping to reduce climate change 2. Sucking CO2 out of the (name at least 5)? atmosphere What are some possible future 3. Discovering new clean energy technologies (think out-of-the-box ideas)? 31 sources/solutions 32 31 32

<u>Green growth</u> is similar to the term <u>"ecological modernization</u>" but provides a slightly different way of looking at the same belief. It proposes that economic growth and environmental impacts can be <u>"de-coupled</u>" so that growth may continue without EPs. A "greening" of the system where

A greening" of the system where growth continues but pollution does not.

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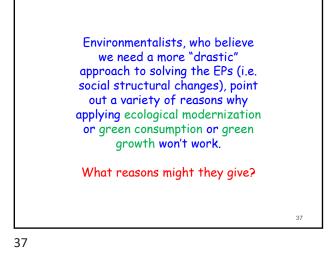
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How is <u>ecological modernization</u> different from a reflective response (also called <u>reflective</u> <u>modernization</u>)?



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- The theory may be appealing to many. However, if it does not hold true, it will have drawn attention and resources away from other less appealing but perhaps more likely solutions.
- Some research suggests that <u>renewable energy sources will</u> <u>not be enough</u> to solve the EPs, e.g., we can't produce enough windmills/solar panels.

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- Some research suggests that improved energy efficiency can reduce oil based use for a specific product but simultaneously it <u>encourages more consumption and</u> <u>subsequent use of energy</u>
- EM relies on technological <u>optimism</u> or faith in the ability of technology to solve EPs
- 5. There is <u>no clear evidence</u> that it is possible to "de-couple" economic growth from carbon emissions.

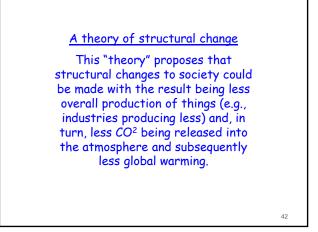
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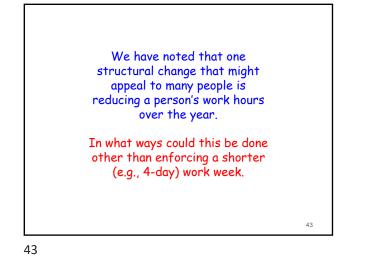
6. Those who benefit from the current social structure will encourage "green growth" and <u>use the EM theory to dispel</u> the need for major structural changes.
7. By the time society recognizes the absolute need to reduce global warming, the environment will be terribly harmed.

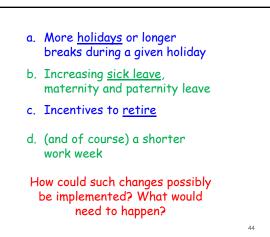
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So far, we have been focusing on a variety of ways that some environmentalists believe we should address our EPs WITHOUT making "drastic" change. Those who believe more drastic change is needed have presented a "theory of structural change." What would you guess this proposes?

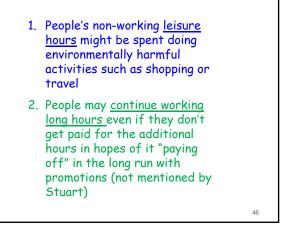




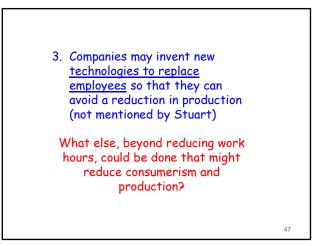


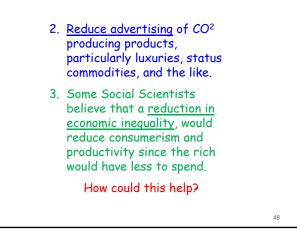
 The <u>federal government</u> could step in and require a reduced work week with no reduction in pay or benefits (perhaps somewhat similar to the required minimum wage).
 <u>Labor unions</u> teaming with those in the <u>environmental movement</u> could demand the change
 But, would a reduction in work hours actually result in lower pollution? How might it not?

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Why wouldn't the now wealthier people consume more with their additional money? Stuart implies the answer is, in part, because there would be more focus on people's well-being and de-emphasis on capitalism that would reduce the current norm of consumption.

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pollutants (Maybe brainstorm a bit)?

Can you think of any other ways

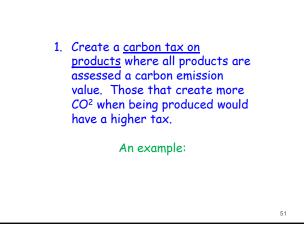
or policies (beyond or in addition to structural change) that could

be enacted by government's to

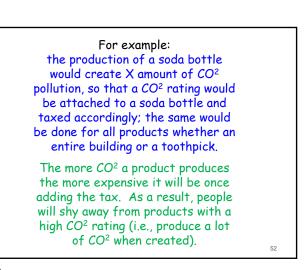
reduce CO² production or

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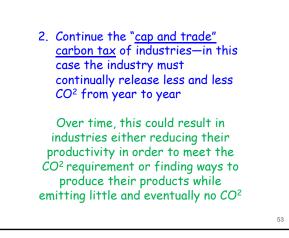
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 <u>Subsidize alternative</u> energy sources so people will use them instead of carbon based energy
 Give products <u>a "recycle" score</u> (higher score = high % of product

recyclable) and then tax products

based on this score, lower score = higher tax.
5. Create a tax on restaurants and grocery stores that sell beef and chicken. The more sold the higher

the tax.

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