Lecture 2- Environment, Resources, and Society

- 1. The Global Picture
- 2. What is Canada's Impact?
- 3. Who is responsible for the Environment in Canada?

Key Concepts

- Impact of Population Growth
- · Impact of Consumption
- Ecofootprint: what it is, trends
- Biocapacity and relation to Ecofootprint
- Canada's footprint and impact
- Jurisdication over the environment in Canada, and trends

Key concepts are useful to study for the final exam; emphasis will be on key concepts

Clicker Question: How does Canada rank compared to other countries in terms of its ecological foot print

Answer: 3rd highest

1. The Global Picture Extinctions and critically endangered species in numbers Click on the circles to see more information Extinct species in critically endangered species in numbers Click on the circles to see more information Extinct species in critically endangered species in numbers Extinct species in critically endangered species in numbers South Annual State of the circle of th

Text			

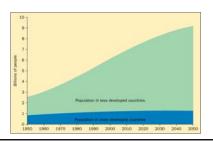






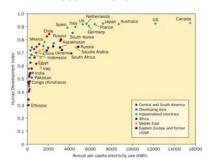
The Impact of Population Growth

• Less developed countries predicted to grow by 33% between 2005 and 2050



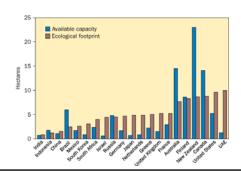
The Impact of Consumption

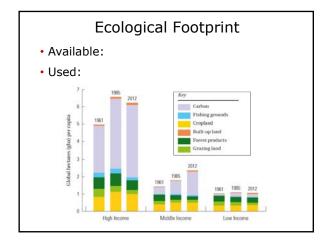
 Global energy consumption increased 12-fold between 1850 and 1970

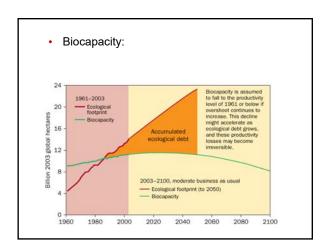


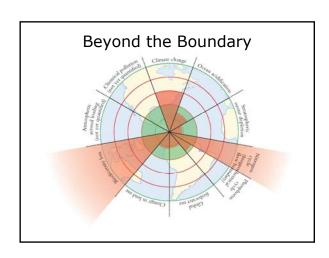
Ecological Footprint (by Country)

• Measures:



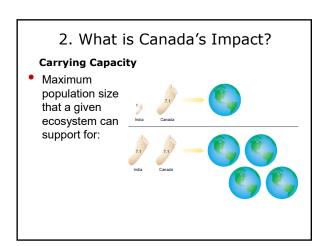




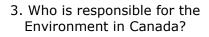








Richest Canadians: largest ecological footprint CHART 1 Total Ecological Footprint by Income Deciles (CHARCAP) Canadian Centre for Policy Alternatives, 2008



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Lack of Progress towards Sustainable Development in Canada

 1997; Commissioner for Environment and Sustainability noted aspects where improvement was necessary:

1.

- 2.
- 3. Inadequate performance review
- <u>2016</u>; Commissioner's report indicated very little progress:

Plan for Hamilton's Randle Reef cleanup: Put coal tar 'in a big steel box'



Conclusion

- Due to human activity, our global support ecosystems are changing at fast rates
- 2. Accompanied by an increase of our global ecological footprint, the world's biocapacity is diminishing
- 3. In Canada, the responsibility of developing our country more sustainably is shared between a patchwork of governments with little to show for it so far

Things to Consider

- 1. Canadians have one of the highest per capita ecological footprints on earth.
- Is it acceptable or should we take steps to reduce it?
- 2. In your opinion, what are the top five environmental challenges today? What are the main causes of these problems?
- How do you rank their importance relative to other major issues (e.g. political – race for nuclear weapons; e.g. economy – debates over NAFTA)

- 1. For next Lecture: material covered in Chapters 2 and 3
- 2. Podcasts: Ecosystems and Biodiversity Units 1 to 5