







Look at the data. Life expectancy across the globe has shot up over the course of the last two centuries. People are better fed, better clothed, and better housed today than ever before. Inflation-adjusted prices for virtually all resources – renewable and nonrenewable – are going down, which points to growing abundance, not growing scarcity. Global forests have, on balance, expanded over the past 50 years. Air and water pollution in the most industrialized nations of the world is a mere shadow of what it was decades ago. Even Third World countries have found that, once per capita income reaches a certain point, economic growth coincides with a cleaner environment. And if current trends in productivity, population growth, and consumption continue, we'll be able to return a chunk of land the size of the Amazonian Basin back to nature by 2070. The human footprint on the environment is indeed becoming lighter and softer. -- Jerry Taylor, Cato Institute

Massachusetts Institute of Technology Engineering Systems Division Department of Materials Science & Engineering ESD.123/3.560: Industrial Ecology - Systems Perspectives Randolph Kirchain Introduction: Slide 5

Externality Control / Environmental Protection • Earth is an open system. - Waste and pollution can pose a problem - Waste and pollution are economic externalities. - Environmental problems are failures in the economic system. Sustainability is not a concern - Future can be protected by interventions in the market. Policy strategy - Technological optimism Pollution reduction and control through laws and regulations. Massachusetts Institute of Technology ESD.123/3.560: Industrial Ecology - Systems Perspectives Engineering Systems Division Department of Materials Science & Engineering Randolph Kirchain Introduction: Slide 6

















Figure by MIT OCW.

Reference: Thompson, M., Cultural Theory and integrated assessment. Enviro Model Assesst, 2(3): p. 139-150, 1997.