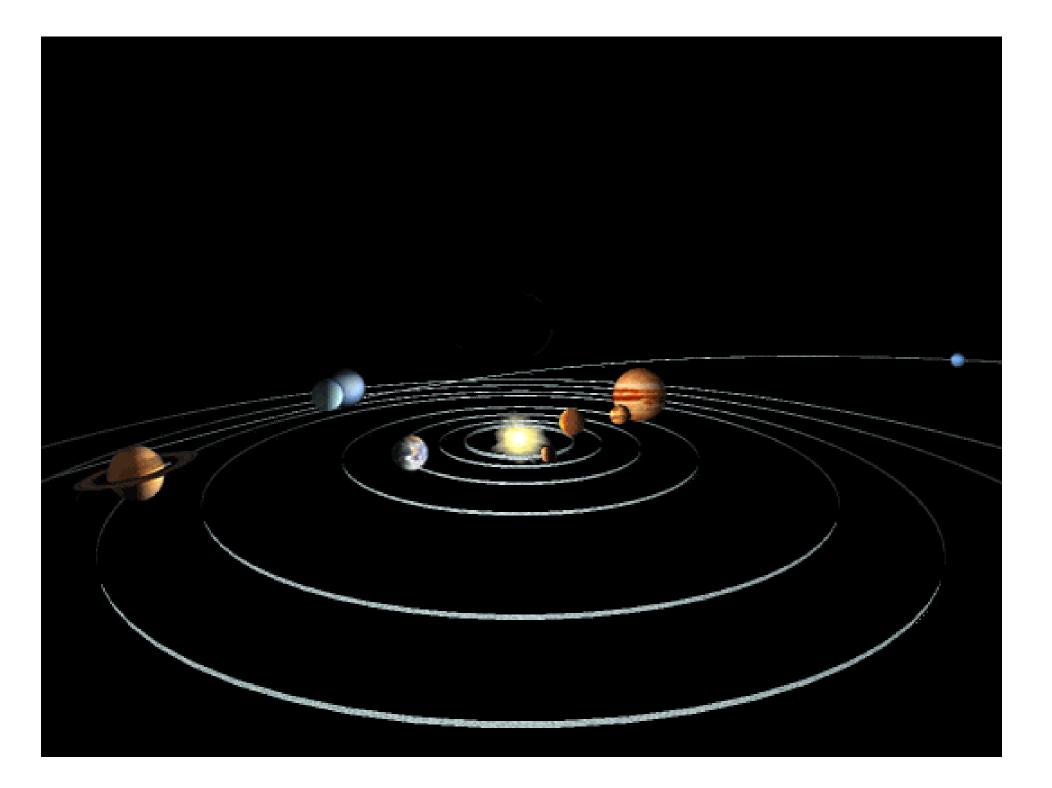


I. The Power of the Sun

The origin of all life on earth, including human civilization



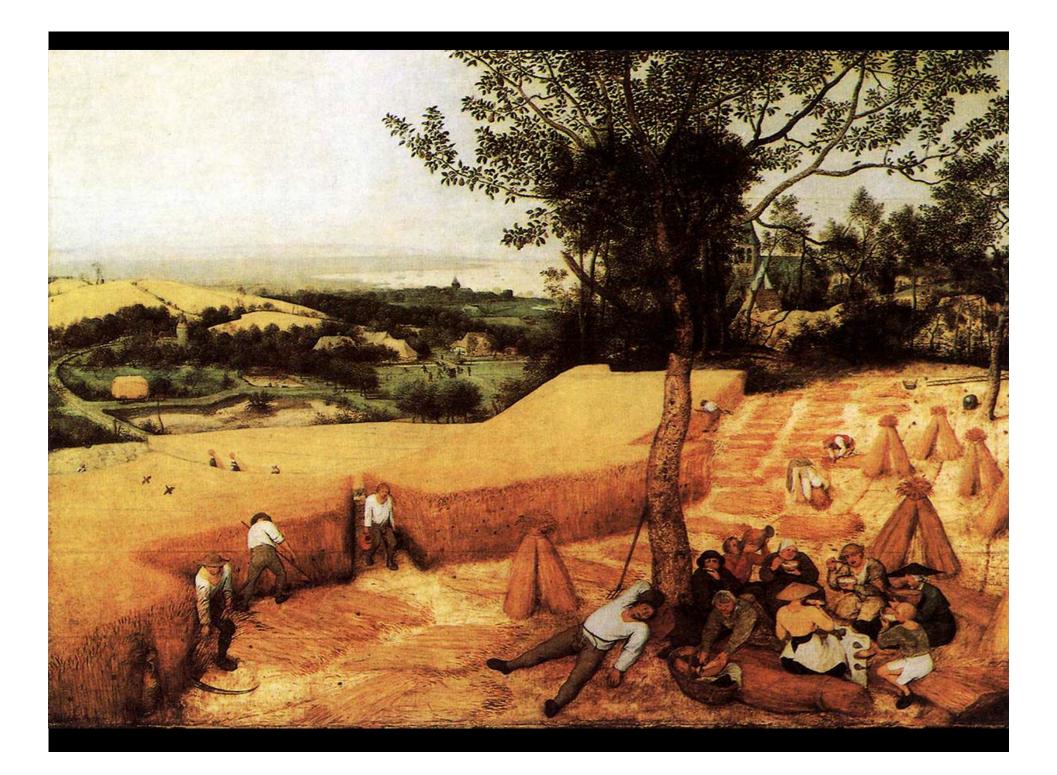






Once upon a time...

Man was a part of nature

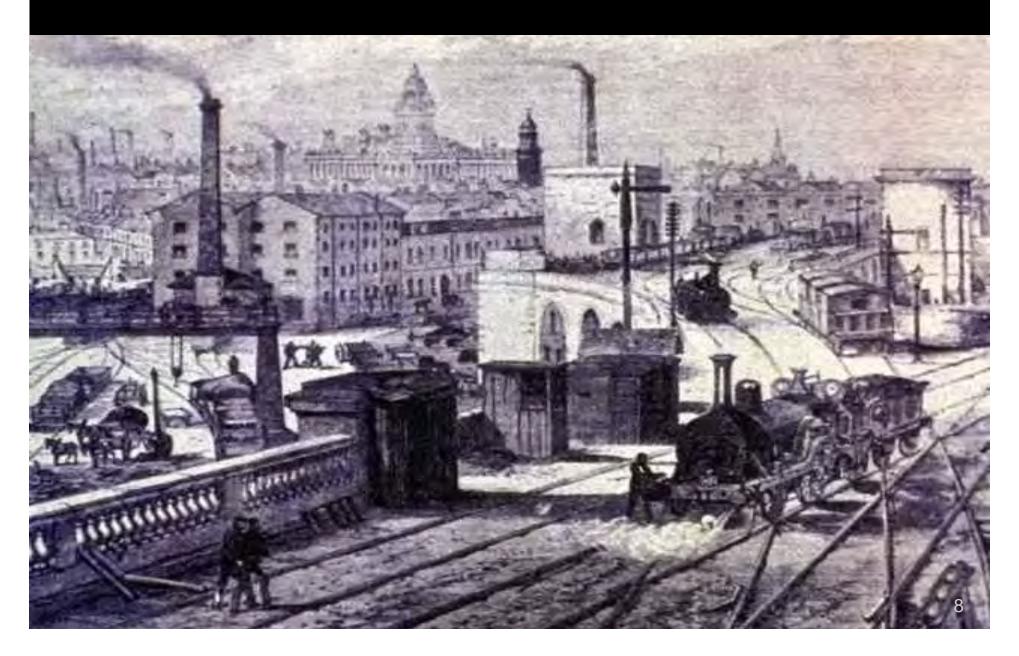


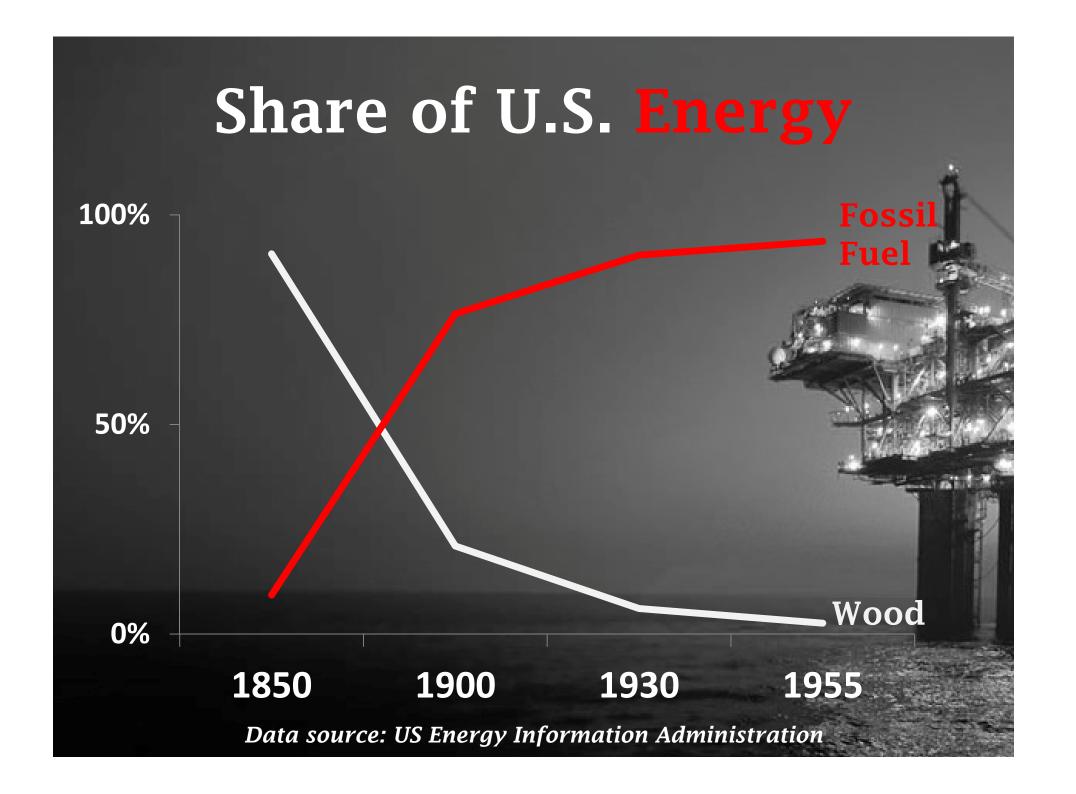
II. The Great Divergence

Away from Sunshine, Away from Nature



The Industrial Revolution





Industrialized Food



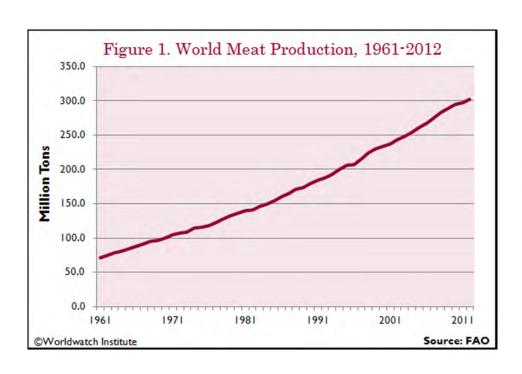
III. From Unlimited to Limited Earth

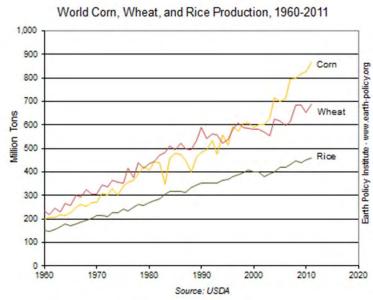
a. Exploding production & consumption





Exploding Grain & Meat Production



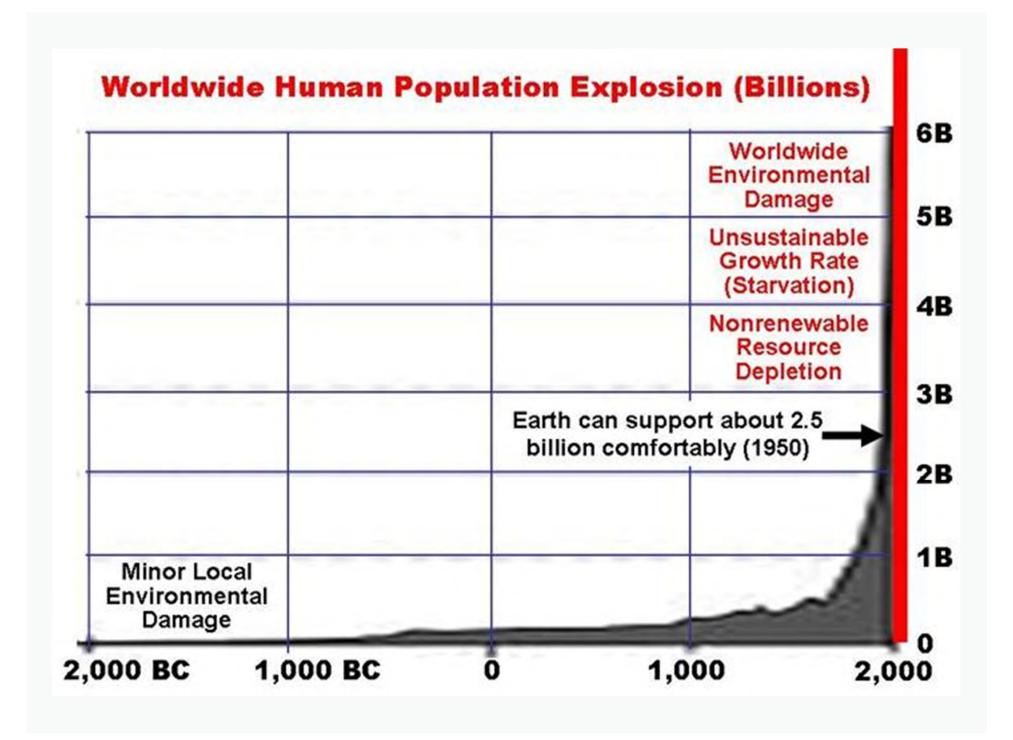




III. From Unlimited to Limited Earth

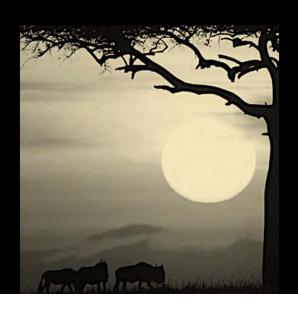
- a. Exploding production & consumption
- b. Exploding human population





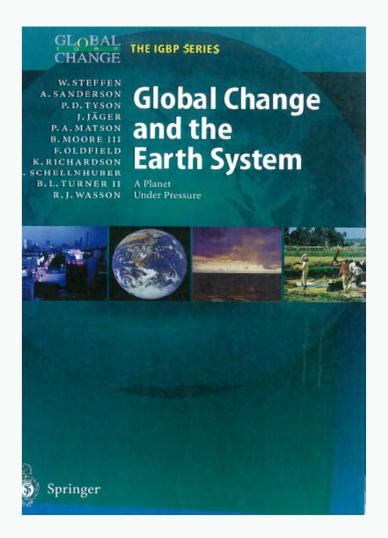
III. From Unlimited to Limited Earth

- a. Exploding production & consumption
- b. Exploding human population
- c. Exploding human footprint



Atmosphere: CO_e Concentration Atmosphere: Atmosphere: CH, Concentration N₂O Concentration D 280 1000 Atmosphere: Northern Hemisphere Average Surface Temperature Climate: Great Floods Dzone Depletion Coastal Zone: Coastal Zone: Ocean Ecosystems Structure Blogeochemistry Nitrogen (10¹³ moles Terrestrial Ecosystems: Loss of Tropical Rain Forest and Woodland Terrestrial Ecosystems: Amount of Domesticated Land obal Biodiversity of 1700 value 25 % of Total Land 15

Spectacular Growth of Human Impacts on the Planet



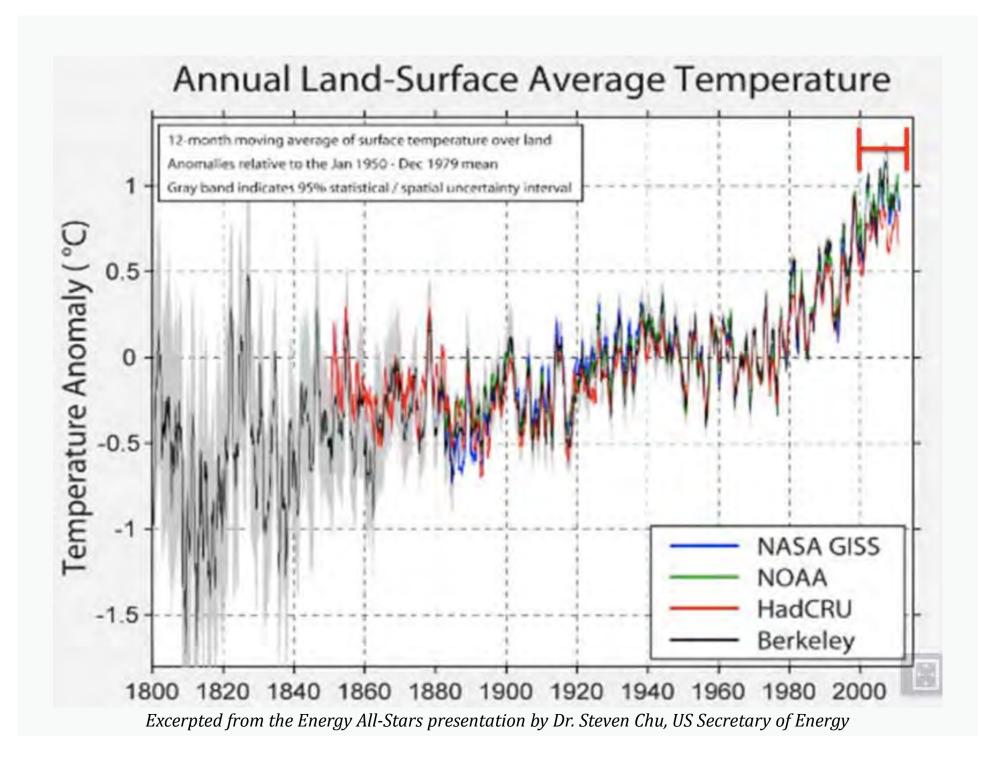
Right now the world consumes 5



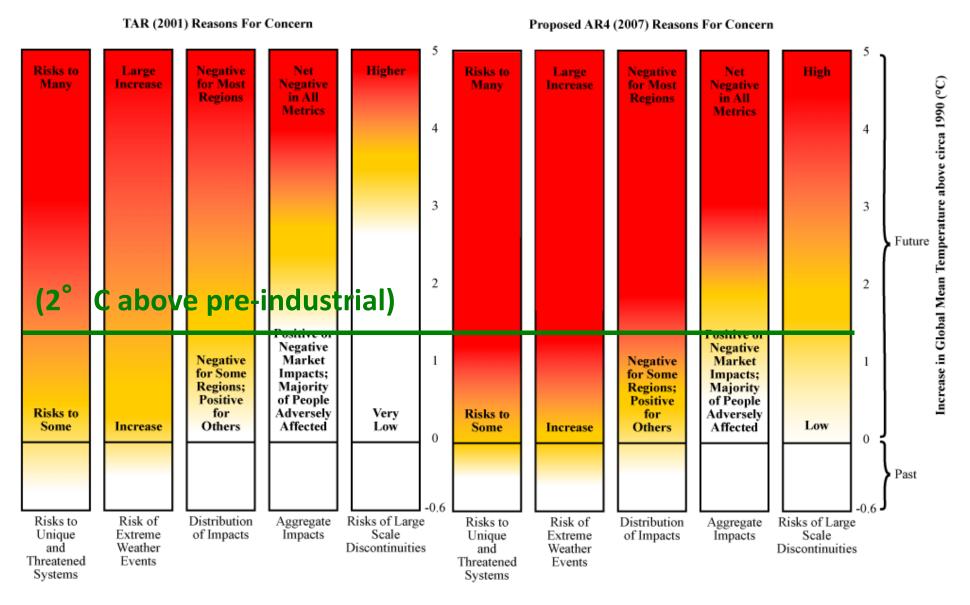
IV. A Crisis of Human Survival

a. Rising temperature, changing climate & extreme weather

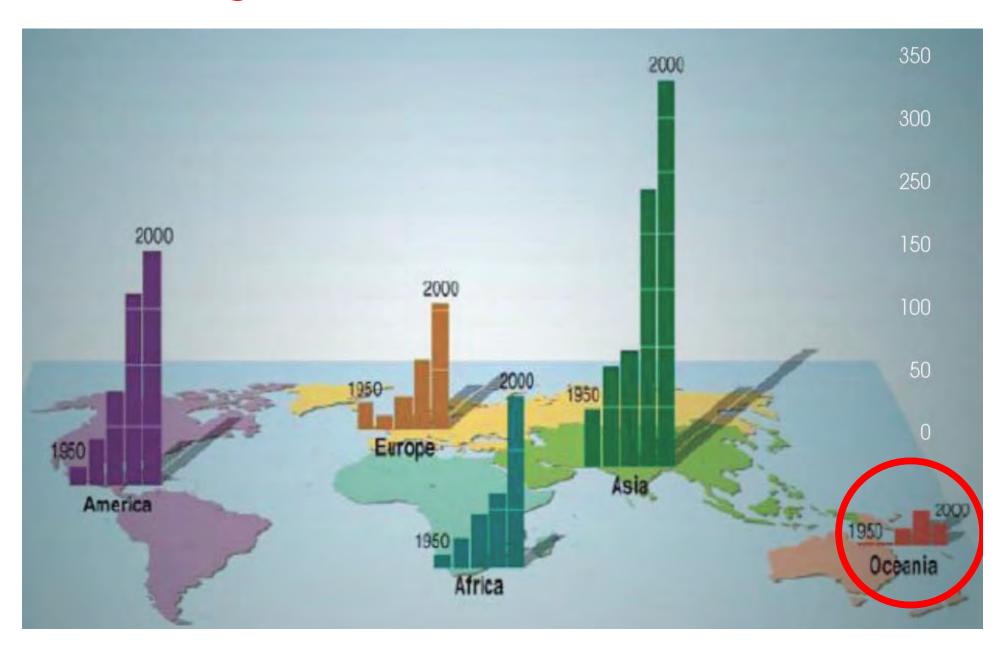




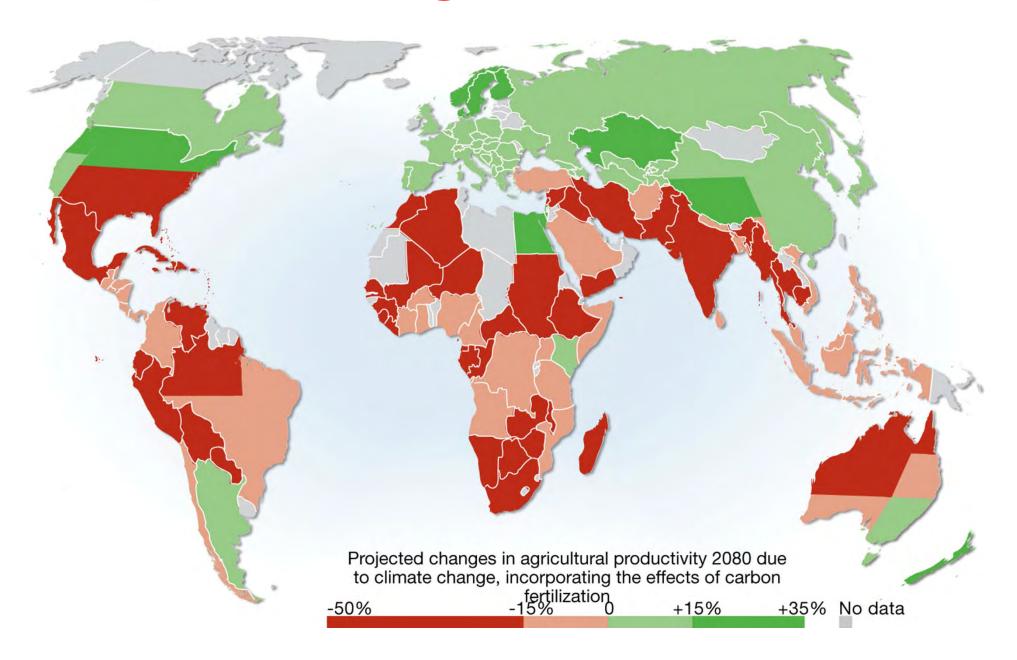
Updated Reasons for Concern



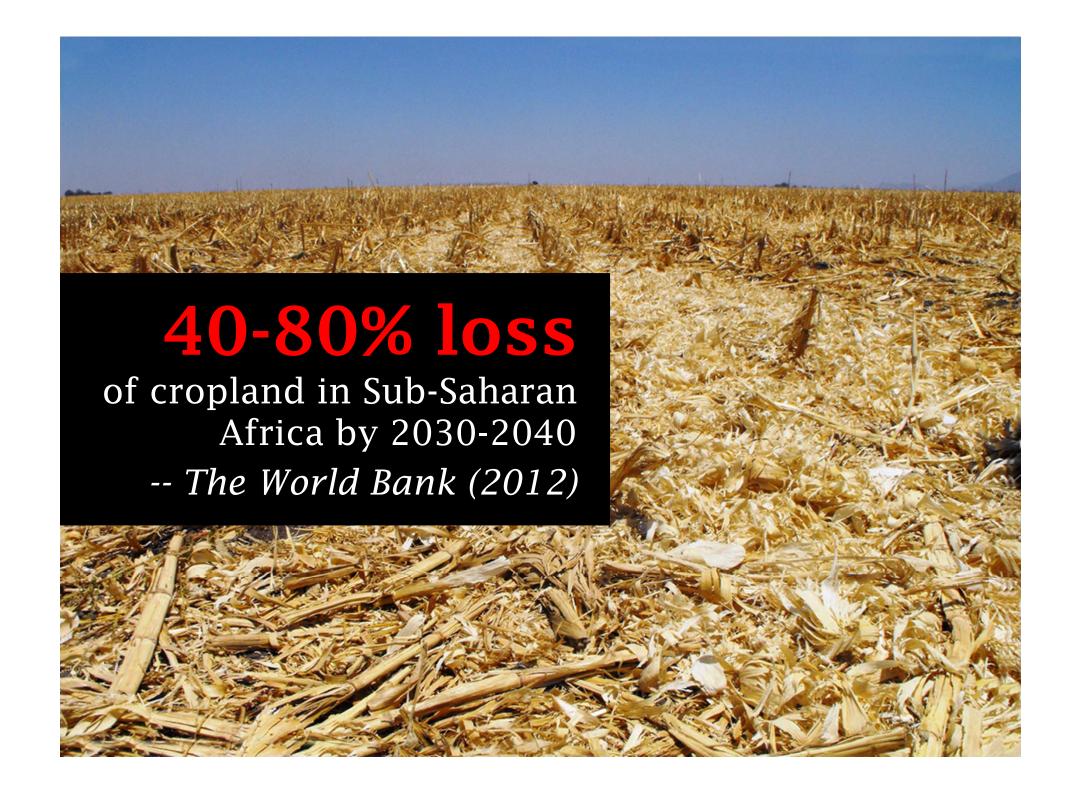
Major Floods Per Decade



Impact on Agriculture (UNEP)





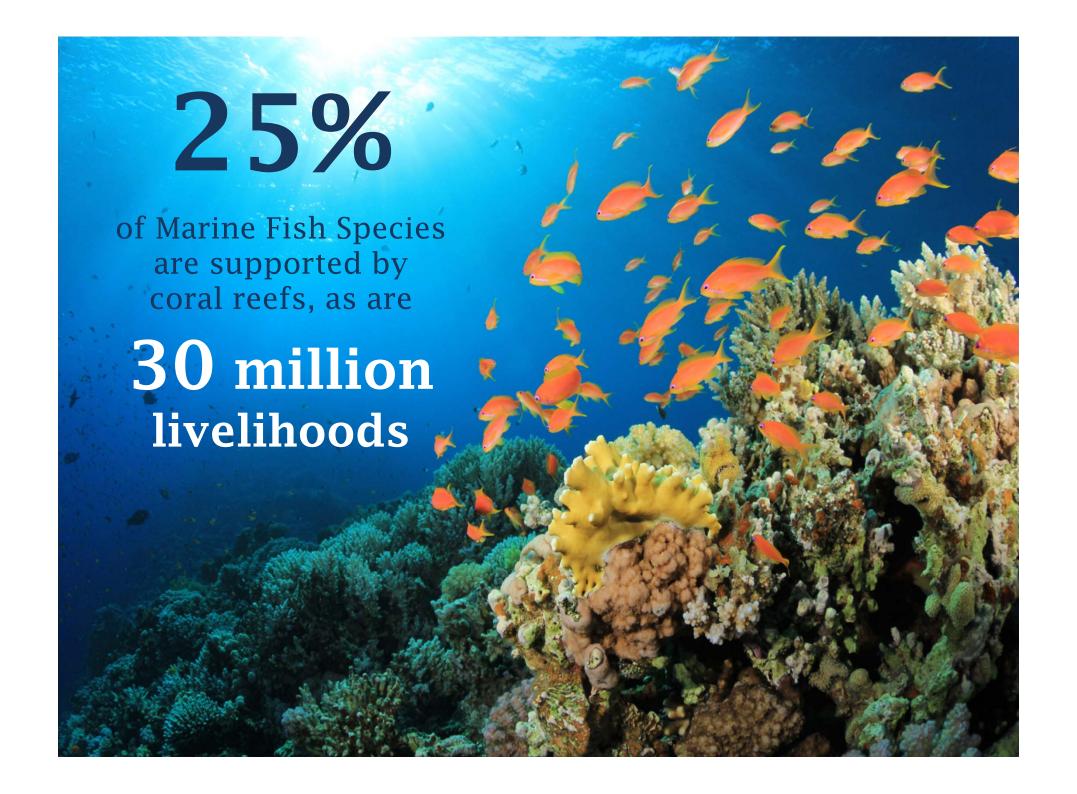


IV. A Crisis of Human Survival

- a. Rising temperature, changing climate & extreme weather
- b. Disappearing biodiversity, fading ecosystems







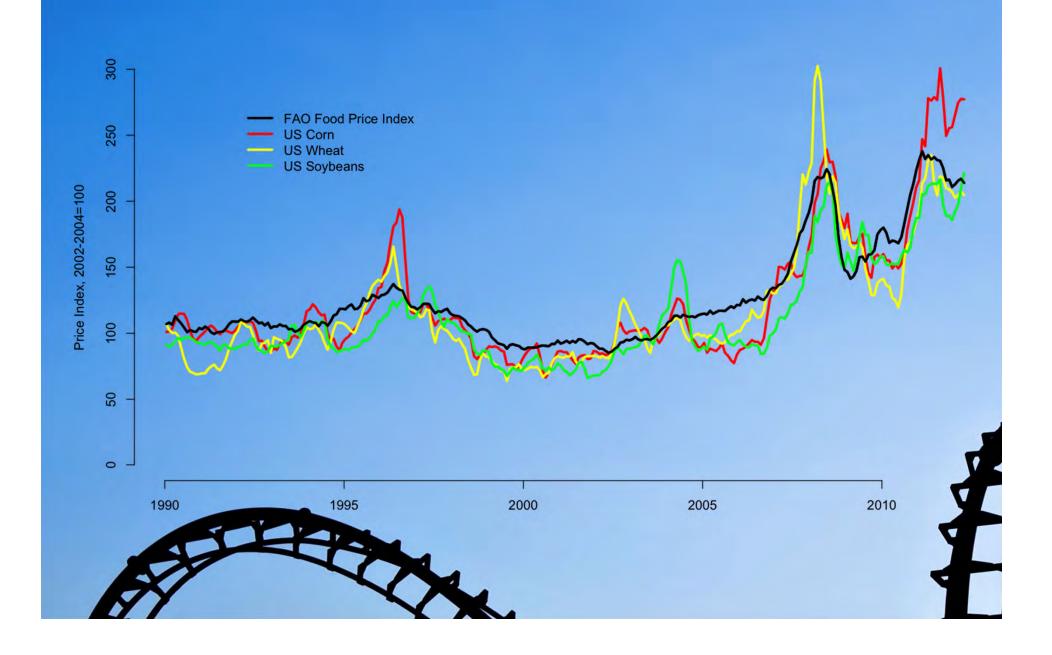
IV. A Crisis of Human Survival

- a. Rising temperature, changing climate & extreme weather
- b. Disappearing biodiversity, fading ecosystems
- c. Starving world, raging crises



Rising Demand +
Falling Supply =
Pressure Cooker
For Major Crises

Rollercoaster Food Prices





9.6 billion by 2050? 70% more food needed?

V. Pathways to Global Sustainability

a. Global Reponses to Global Problems





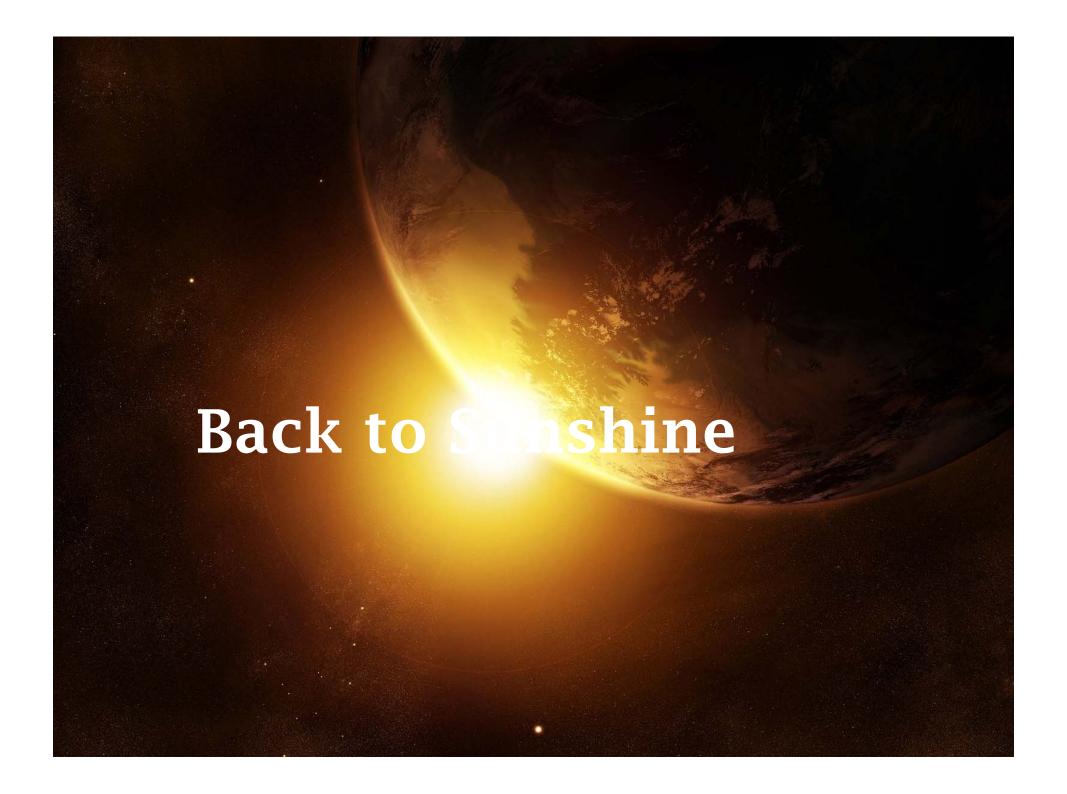
Can "Global Problems" be effectively solved by "nation"-based systems and approaches?

- a. Global Responses to Global Problems
- b. Back to nature, back to sunshine





Agriculture in accordance with the principles of nature





- a. Global Responses to Global Problems
- b. Back to nature, back to sunshine
- c. Live better...
 for less

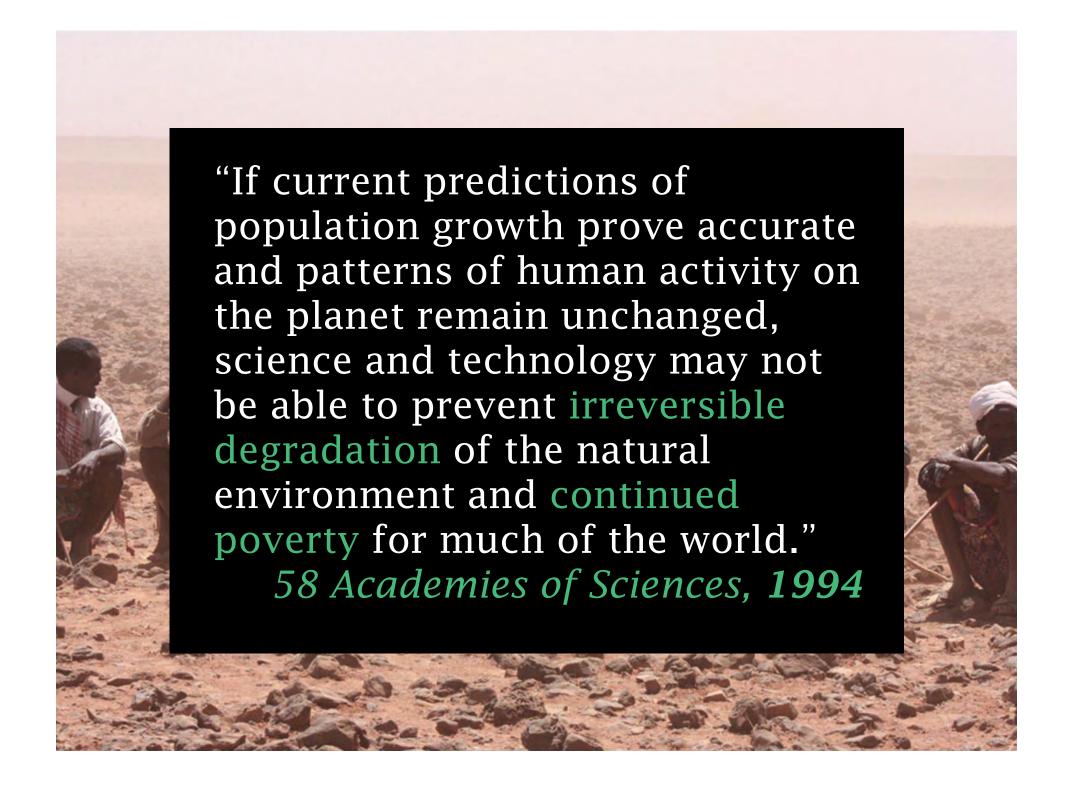




- a. Global Responses to Global Problems
- b. Back to nature, back to sunshine
- c. Live better... for less
- d. Control population explosion









- a. Global Responses to Global Problems
- b. Back to nature, back to sunshine
- c. Live better... for less
- d. Control population
- e. Greater Equality





One week's food: Western Family



One week's food: African Family

VI. The International Council for Science (ICSU)

Strengthening International Science for the Benefit of Society



International Council for Science (ICSU)

- Founded in 1931
- The largest, oldest global organization of science
- 120 National Members representing 140 countries
- 31 Scientific Unions
- Secretariat in Paris, Regional Offices in Africa, Asia, and Latin America & Caribbean



ICSU's Mission

To Strengthen International Science for the Benefit of Society



The Alliance











United Nations Educational, Scientific and Cultural Organization











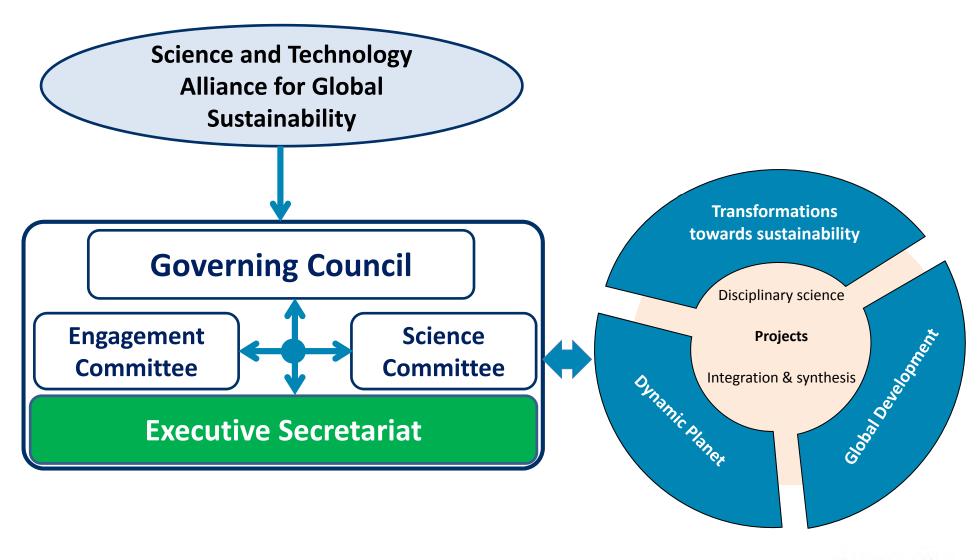
WMO (observer)

futurerth

Future Earth's Objective

To provide the knowledge required for societies in the world to face risks posed by global environmental change and to seize opportunities in a transition to global sustainability

Governance



futurerth

