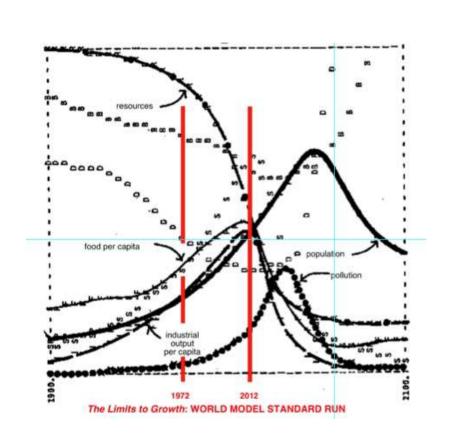
# Strategies for Personal and Organizational Success in a World that has Limits to Growth

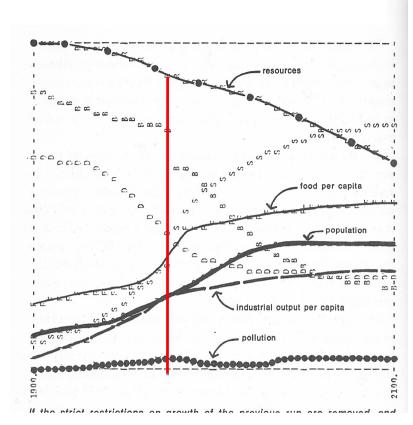
Dennis Meadows
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### **Exercise about habits**

#### Main Ideas for this Session

- In 1972 there were two future paths for global society - overshoot and sustainable development.
- Sustainable Development requires the strategy of adaptation
- Our efforts to adapt have changed into strategies that fail.
- Thus we are still following the overshoot path.
- We must change our focus in three ways.
- Quit only talking and start taking action





World3: Overshoot Path

World3: Sustainable Development Path

Two possible futures from our 1972 study

#### **Brundtland Commission Definition**

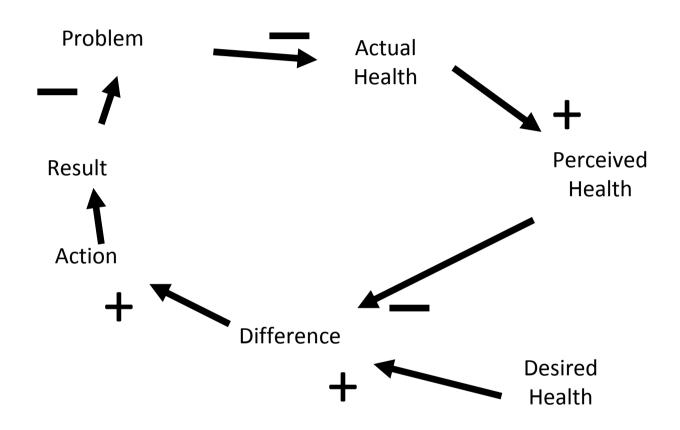
Sustainable Development is: development that meets the needs of the present without compromising the ability of future generations to meet their own needs

*Our Common Future,* Report of the World Commission on Environment And Development, United Nations, 11 December 1987

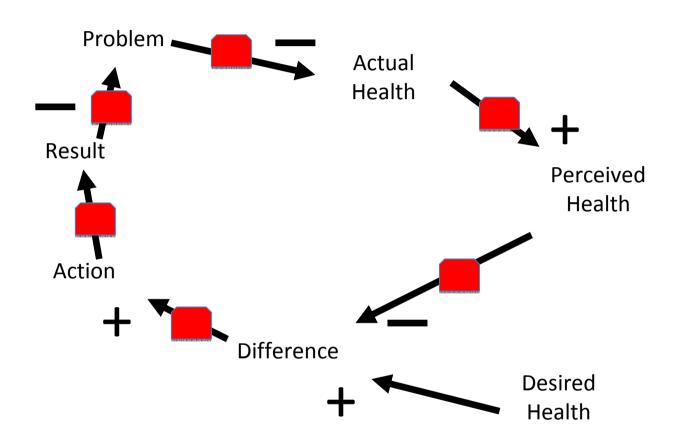
# The common assumptions about sustainable development

- The rich can keep what they have (preferably get even more)
- while the poor rise to the standards of the rich
- this will be achieved simply by adapting our current system (markets and politics)
- by developing new technologies that 'decouple' GDP growth in the use of energy and materials.

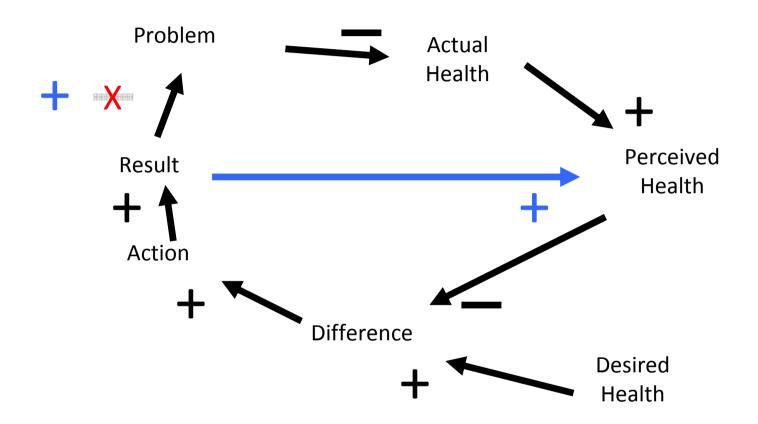
# Adaptation



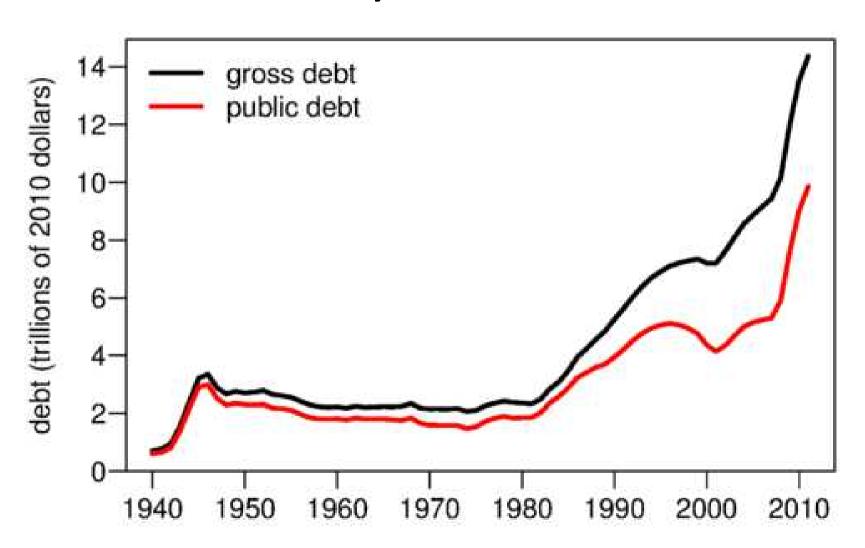
### **Delays in Adaptation**



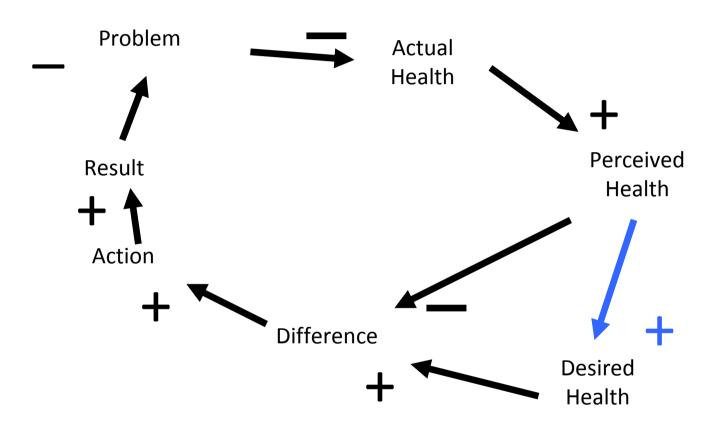
#### Addiction



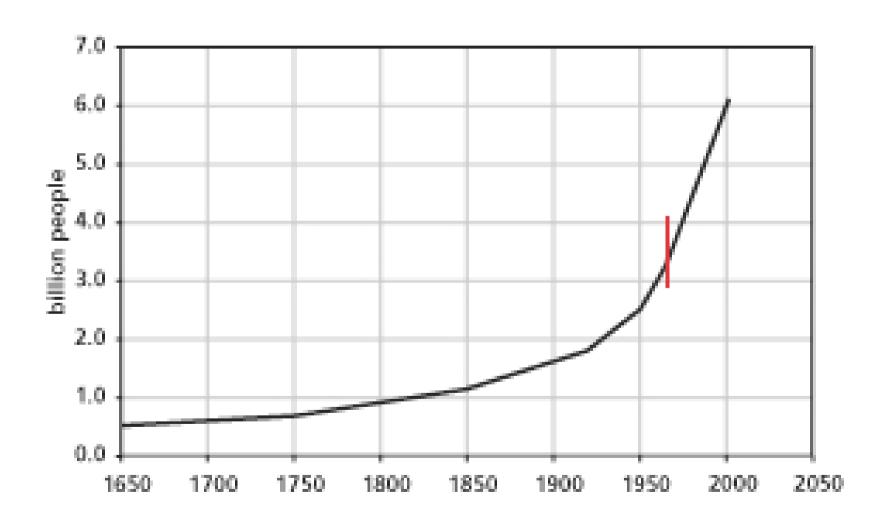
### History of US Debt



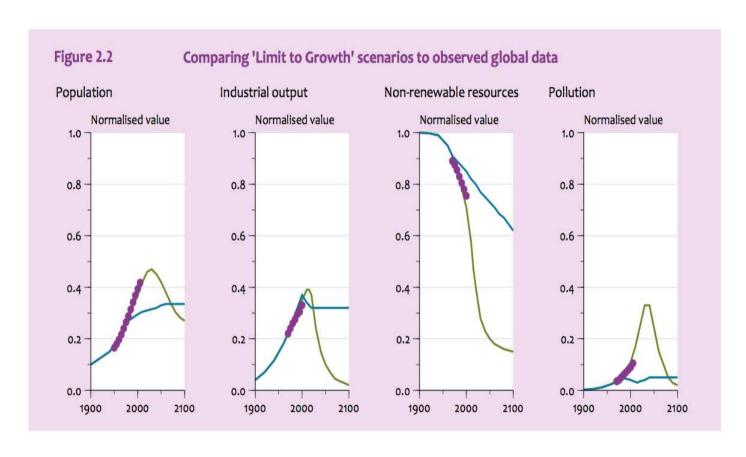
## Acceptance



# **World Population**



# Global society is following the overshoot scenario

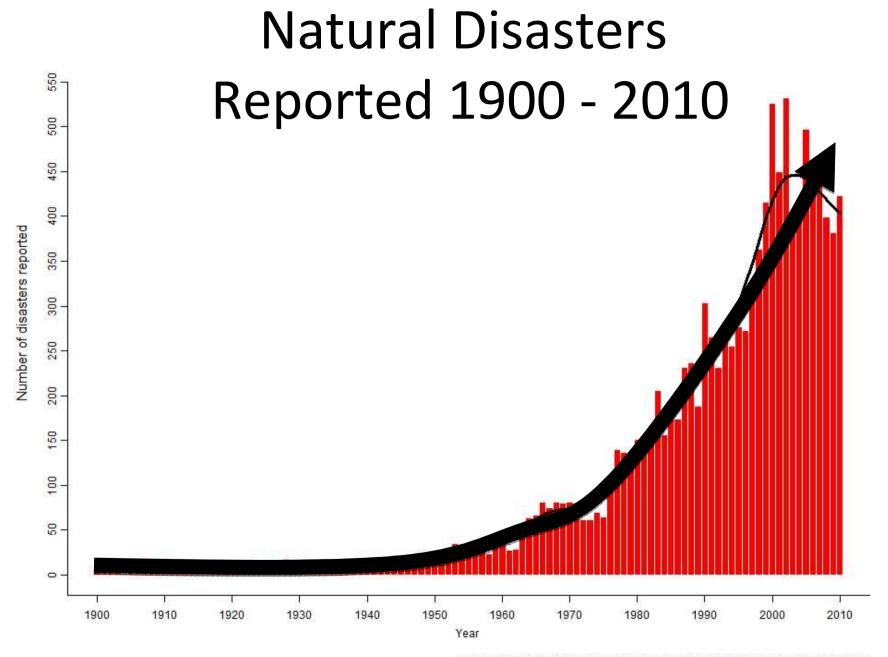


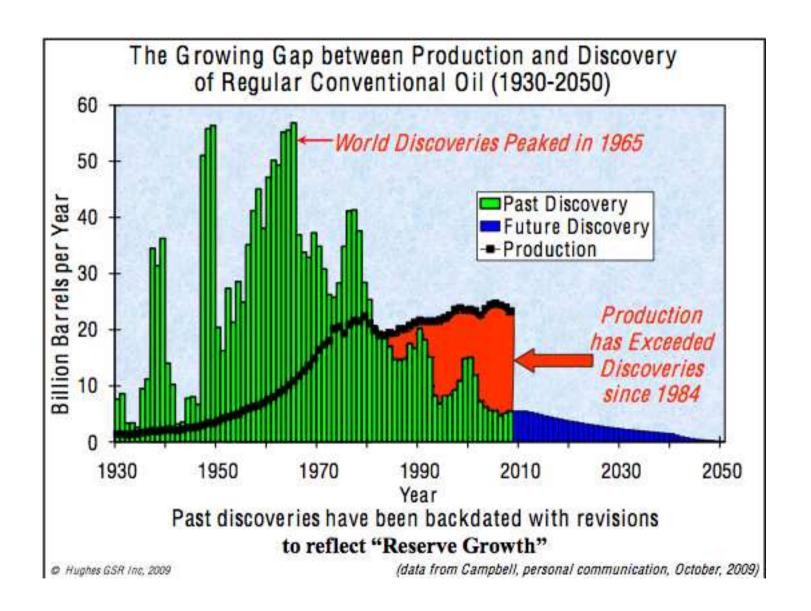
Overshoot Path —

Sustainable Dev. Path ——

Historical Data







#### **Exercise on Secret Code**

# Meadows Definition of Sustainable Development

Sustainable Development is: development that prepares the present system to deal with shocks and chaos in ways that minimally compromise the ability of future generations to meet their own needs

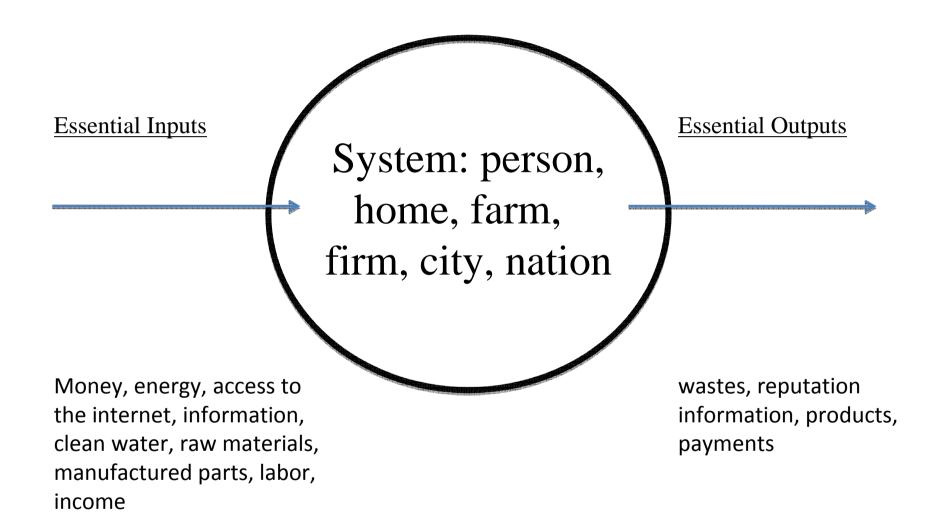
# Increase Resilience Even if you Have to Reduce Efficiency

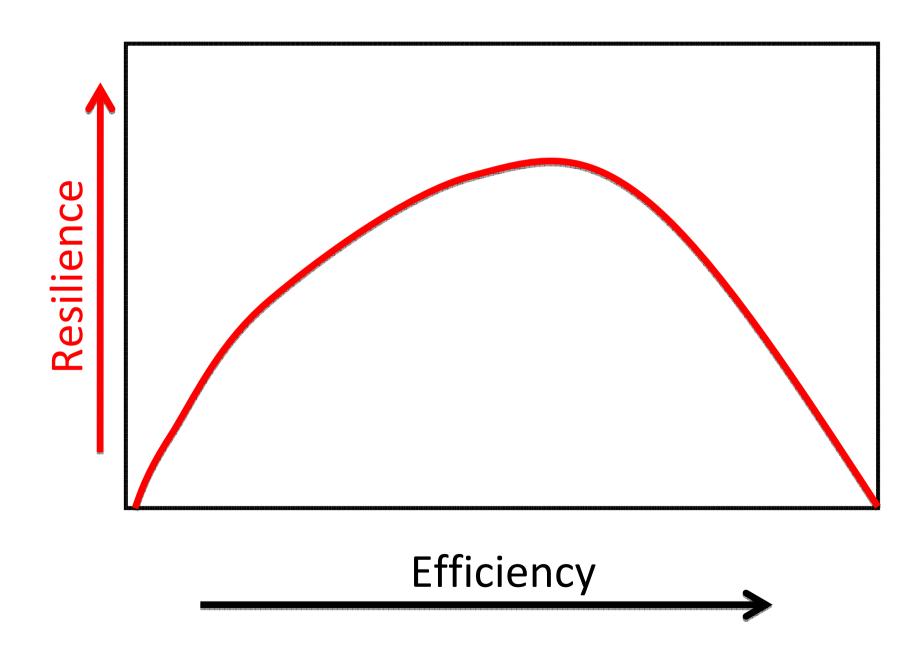
Resilience is the ability to continue providing essential functions after receiving a shock:

- food, transport, health care, warmth,
- profit, market share, employment, reputation, dedication

Efficiency is the amount of output you get from a unit of input:

 - km/liter, € output/hour of labor, hours of warmth/BTU of energy used, kg of food/kilo of fertilizer

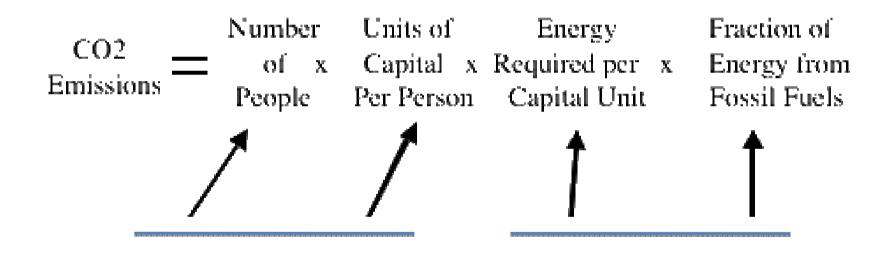




#### Focus on Universal Problems

- Global problems affect everyone (climate change, spread of nuclear weapons, epidemics, etc.).
   Solving them requires everyone to agree and act.
   Costs here and now give benefits there and later.
- Universal problems affect everyone (city air pollution, soil erosion, flooding, etc.). Solving them requires only a small group to agree and act. Costs here and now give benefits here and soon.

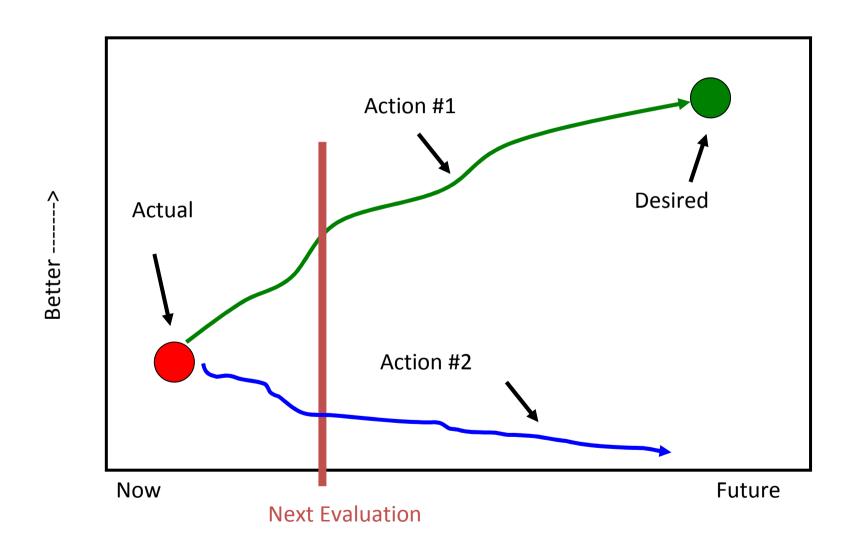
### Forget Simple Solutions



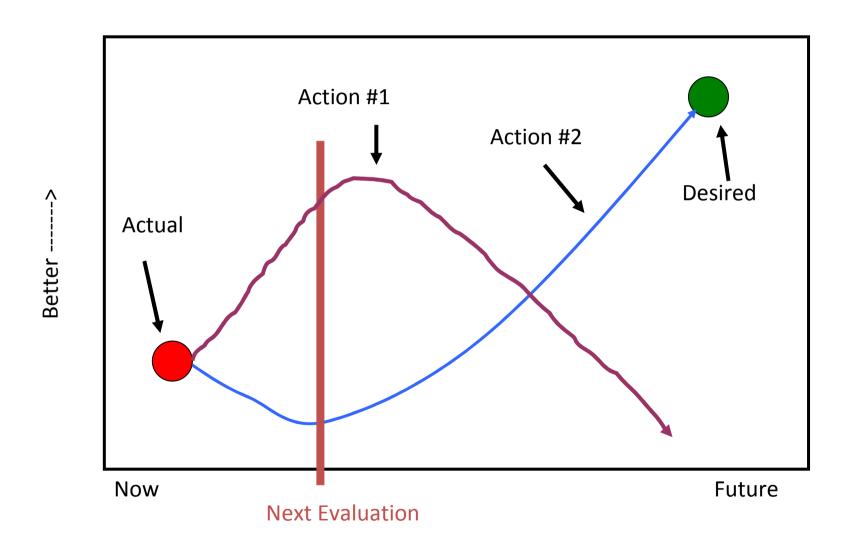
Social & Cultural Factors Technical Factors

#### Look Far Ahead in Time

# **Easy Problems**



#### **Hard Problems**



#### Personal Strategies

- Remember that everyone makes mistakes in predicting the future.
- Accept that you cannot solve the whole problem.
- Your moral obligation is to do your share.
- Reduce your boundaries of action until you can see the results of your actions.
- Create personal space away from global problems.
- Design resilience into your life style.
- Value your friends.

#### **University Strategies**

- Remember that some of the data we teach is wrong now and much will become obsolete soon.
- The goal of teaching is not to give information but to teach skills.
  - Interaction with real world problems,
- Teach about paradigms
- Students' ethics are an appropriate and important topic for classrooms.
- Expand the boundaries of professional responsibility.
- Teach about resilience: measuring, increasing
- Recognize that lifelong friendships are one of the most important products of university life

#### **Exercise about Action**