

Challenges for Global University Education Systems in the Context of Global Climate Change Risks

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Challenge One

Changes and the RATE of
CHANGE

Climate is Changing ...

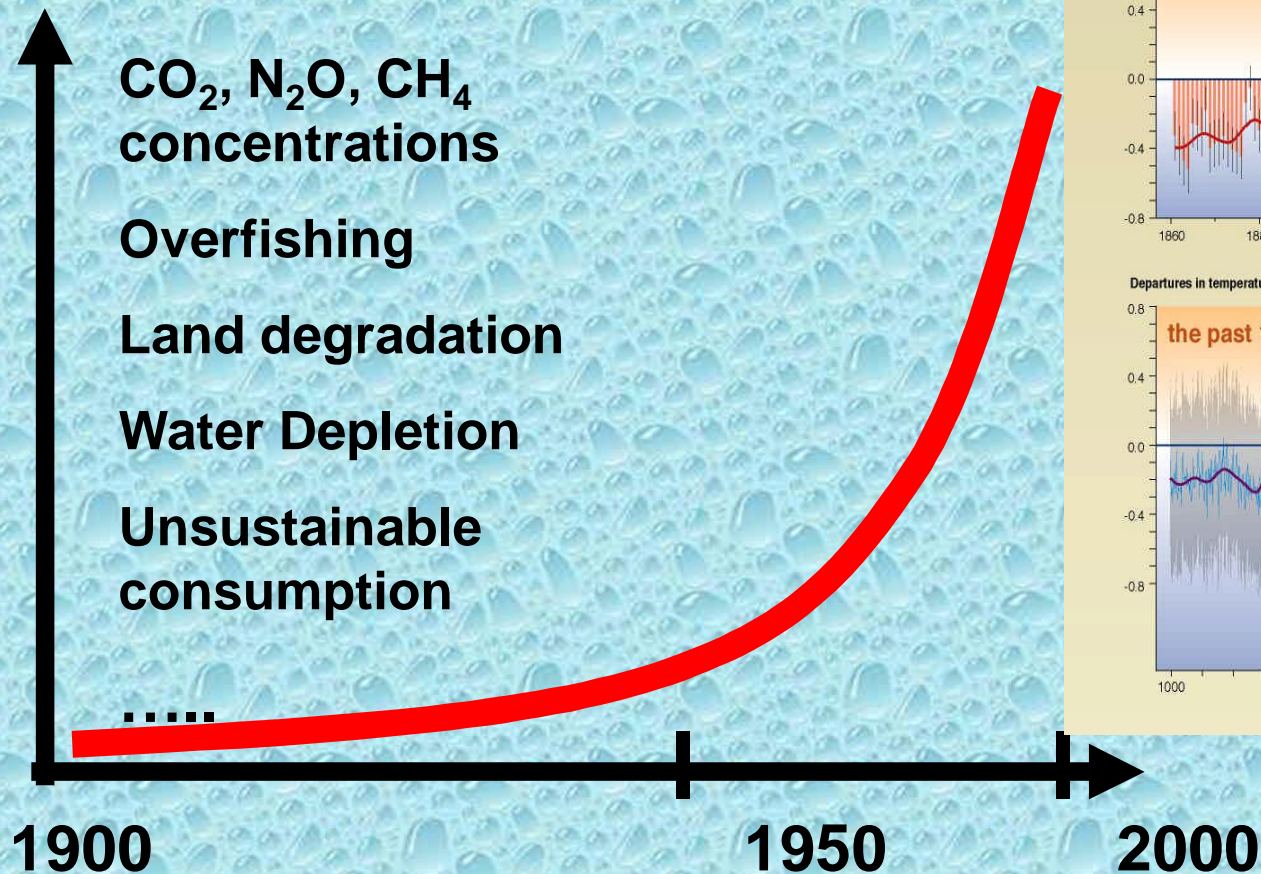
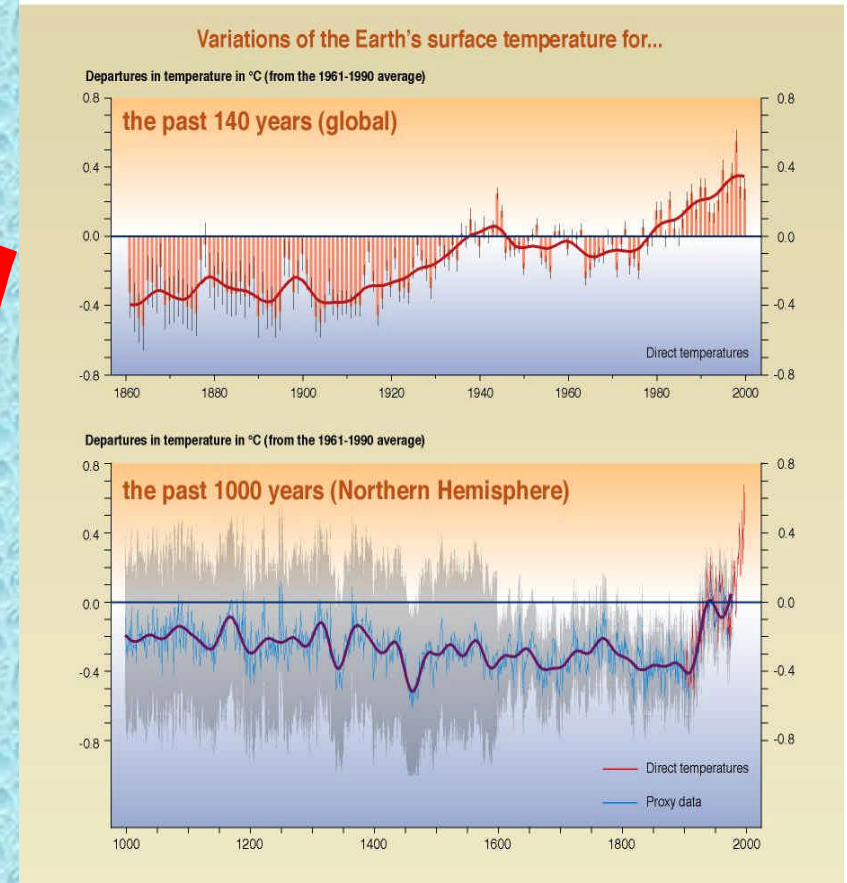


FIGURE 2.3



And Society is Changing TOO ...and Faster

Shanghai Harbor

1988



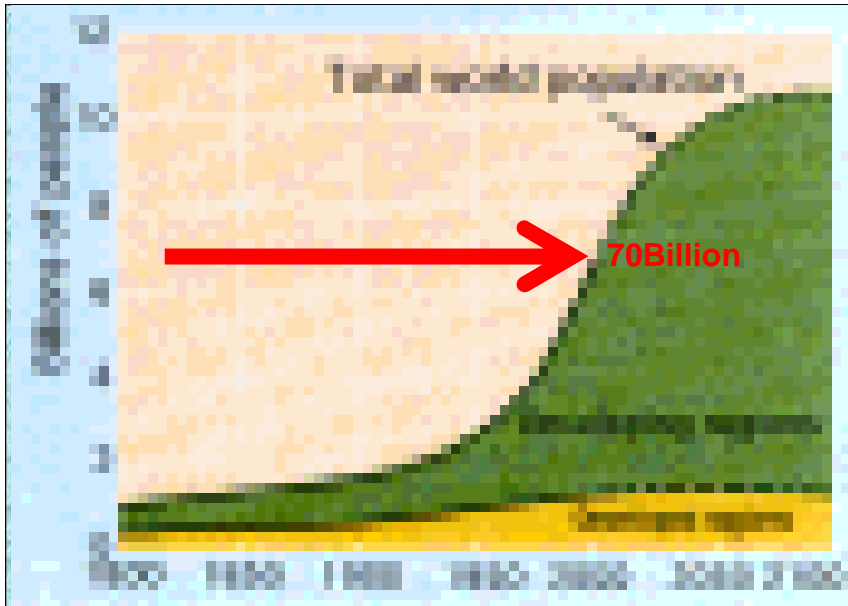
2004



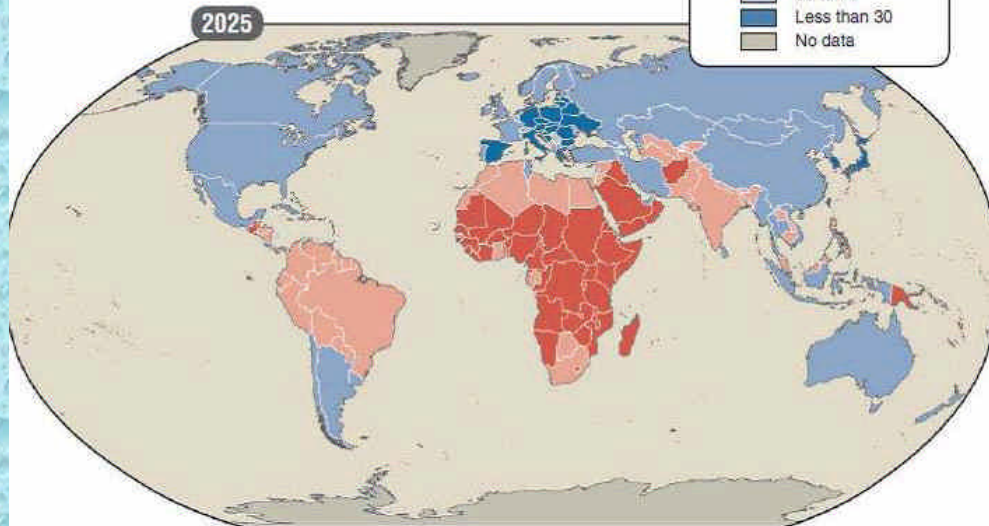
2011

Demographic Change

Inside a country and among different continents



Percentage of Population Younger Than 30 yrs Old





•Global Internet Network

A visualization of the global internet network, showing a dense web of connections between various nodes, primarily concentrated in North America and Europe, with some connections extending to other parts of the world.

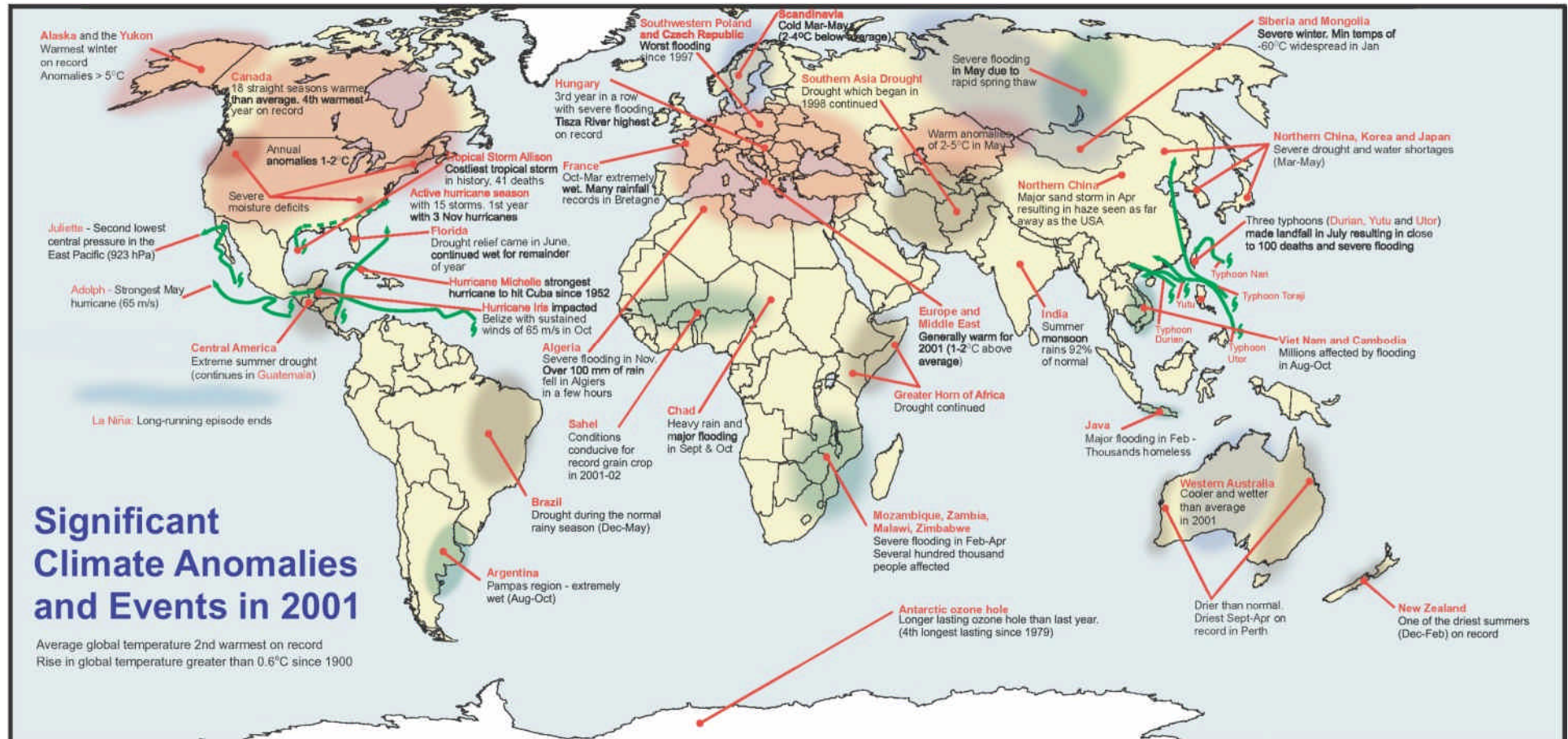
Connectivity Change

THE GLOBAL TRANSPORTATION SYSTEM



Extremes occur often on globe in any given year

Graph 2



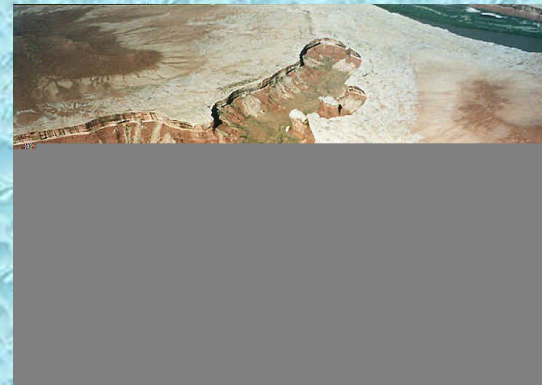
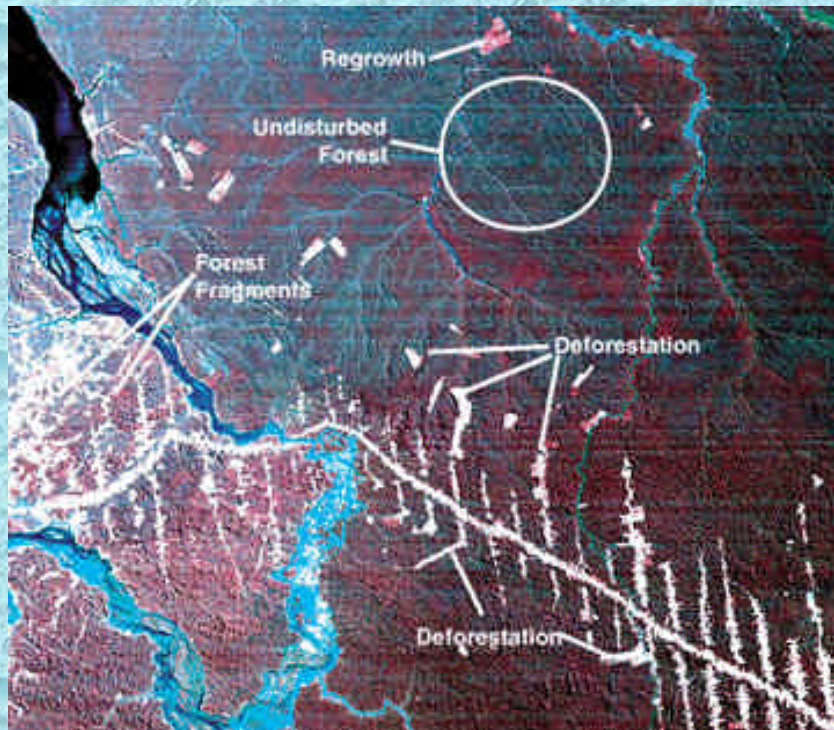
Climate change → More extremes, more frequency, more intensity, new locations



Challenge Two

A Common Language for Climate

Problem Climates or Problem Societies? **OR BOTH?**





Challenge Three

South-South Cooperation

Obstacles in South-South Cooperation

- Languages
- Cultures (lacking of understanding)
- Religions
- Politics
- Economics (competition for resources and money)
- Sciences and Technology (weak)

Climate Affairs Program

—a potential common language

- **Climate science**
- **Climate impacts**
 - On ecosystems
 - On societies
- **Climate policy & law**
- **Climate politics**
- **Climate economics**
- **Climate ethics & equity**



Conclusions

- High risk potential due to changes and the rate of changes in both climate systems and society.
- Lacking of common language is one of the major obstacles for international climate change negotiation
- South-South Cooperation is a must and urgent issue for global education system

Three points

- Societal needs:
 - Risk and connectivity increasing in natural and social-ecological system
- Academic needs
 - A common language(need multi-disciplinary
- South-South Cooperation
 - Developing countries sharing knowledge cooperation, more important than north-south (competition, developing route)