





What is the Hidden Agenda of the World Economic Forum with the Security Nexus?

Prof. Dr. Úrsula Oswald-Spring
CRIM-UNAM, Mexico
uoswald@gmail.com
http://www.afes-press.de/html/download_oswald.html
Abuja, Nigeria, 13-15 of April, 2015

Content

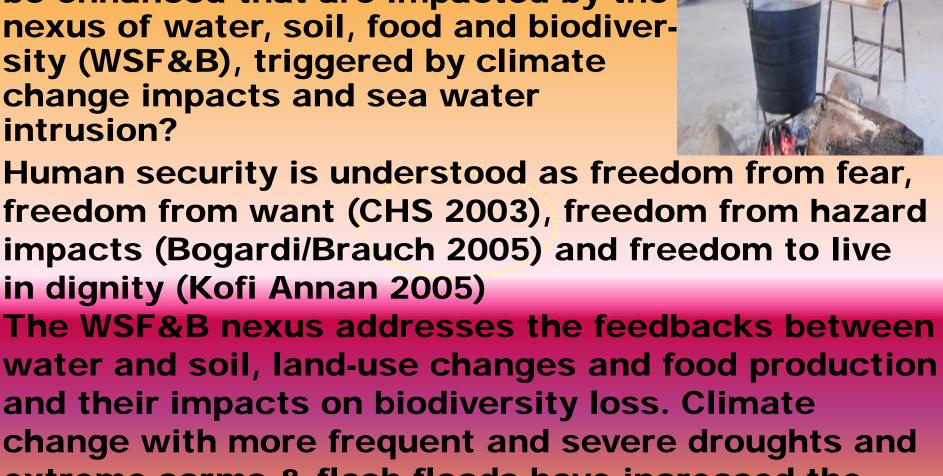
- 1. Research question
- 2. Which are the global and the regional changes?
- 3. New challenges of security: from the Holocene to the Anthropocene
- 4. Water security
- 5. Food security and sovereignty
- 6. Energy security
- 7. How can we confront the challenges?
- 8. A HUGE security: Human, Gender and Environmental Security

WSF&B, Human security

1. Research Question,

in dignity (Kofi Annan 2005)

How could human security of people be enhanced that are impacted by the nexus of water, soil, food and biodiversity (WSF&B), triggered by climate change impacts and sea water intrusion?



The WSF&B nexus addresses the feedbacks between water and soil, land-use changes and food production and their impacts on biodiversity loss. Climate change with more frequent and severe droughts and extreme sorms & flash floods have increased the costs for human lives, livelihoods & for the economy.

2. Which are the global and the regional changes?: From Holocene to Anthropocene

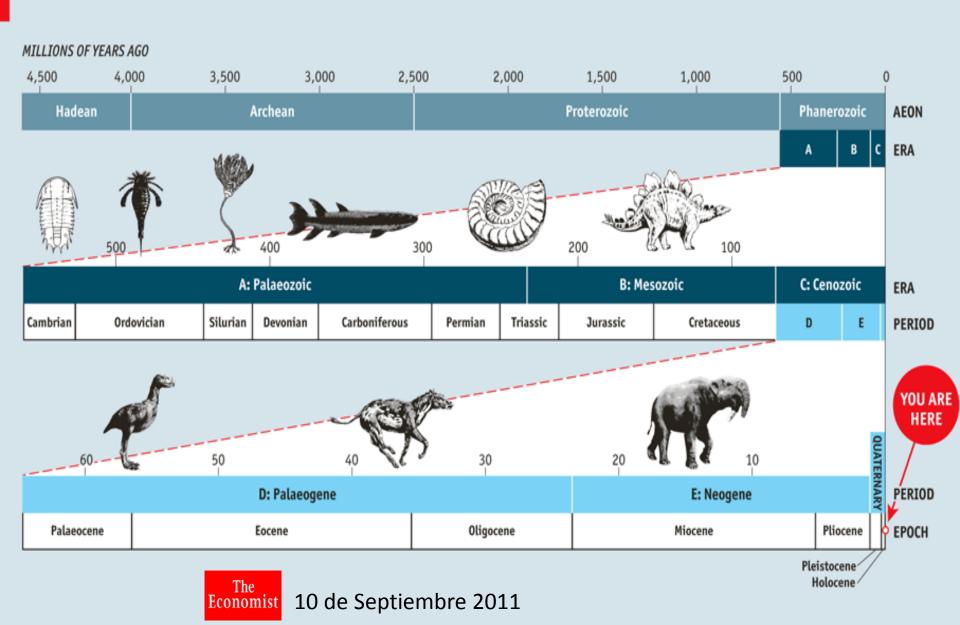
Global environmental change:

- Climate change: transformation of threats from «them» to «us». We are the threat and we are the victims, but regionally different.
- Water: scarcity, degradation & stress
- Soil: degradation, loss of fertility, desertification
- Loss of biodiversity: increase of GHG
- Population growth: 9 billion in 2050
- Urbanization: today over 50% of world population
- Industrial production: pollution and GHG
- Changes in agricultural production and food system

Contextual changes

- 1. 1960: also in Africa most countries are now independent, but occidental control though World Bank, IMF, WTO
- 2. 1989: End of Cold War and changes in worldview
- 3. Unipolar world: USA is superpower with military control, but without a vision for a new world order; China: emerging economic power
- 4. New threats: climate change, terrorism (IPCC)
- 5. Necessity for reconceptualization of security: widening, deepening and sectorialization
- 6. Beck's theory of global Risk Society
- 7. Crutzen's concept of Anthropocene
- 8. Bolivia's concept of "living well"
- 9. From MDG to SDG

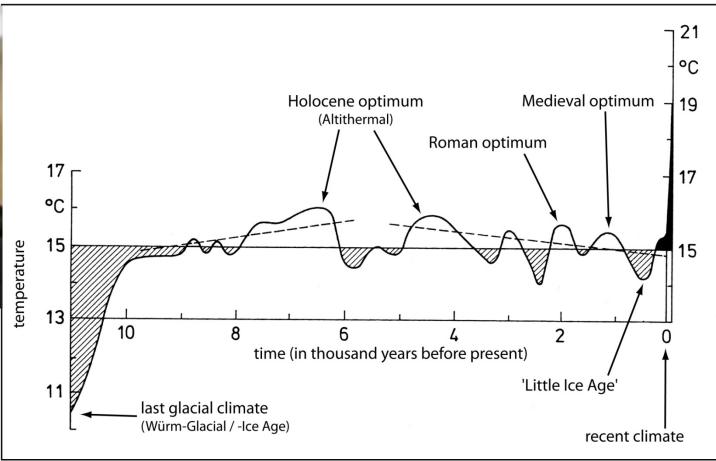
Earth history, Holocene and Anthropocene



From the Holocene (12,000 años a.e.) to the Anthropocene (1950 inicio 1784 AD)



Paul Crutzen,
Nobel Laureate
(1995)

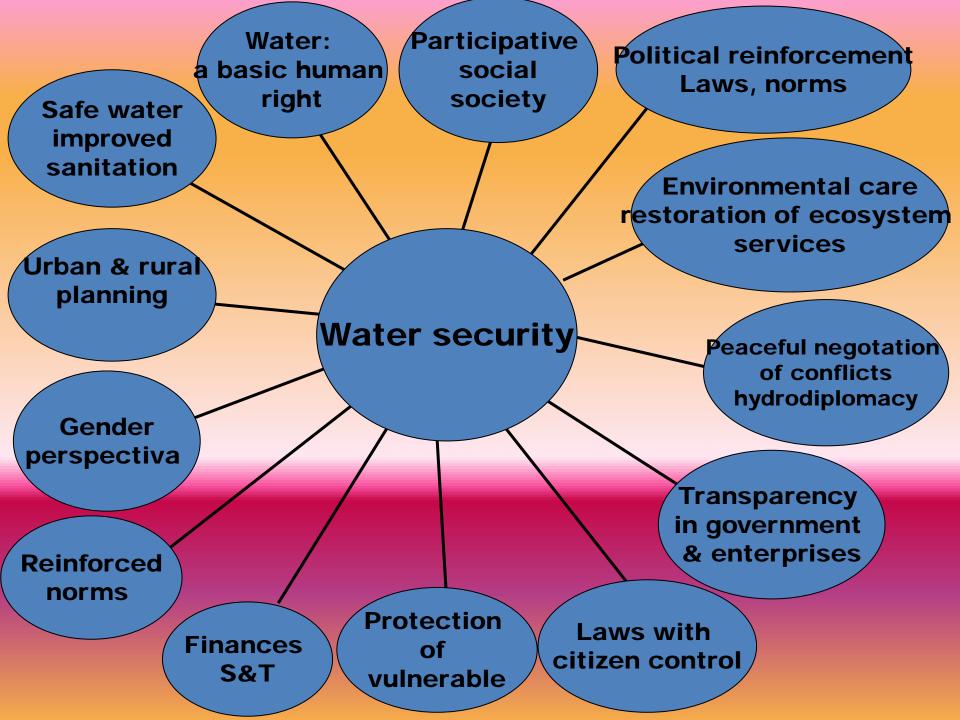


In geology: **Holocene** is an era of world history which started after the big glaciation (10-12,000 years ago). **Anthropocene** starts with the Industrial Revolution (1784, J. Watt and the invention of the steam machine), but especially after 1950, when cheap fossils (oil, gas, carbon) increased the emissions of greenhouse gases.

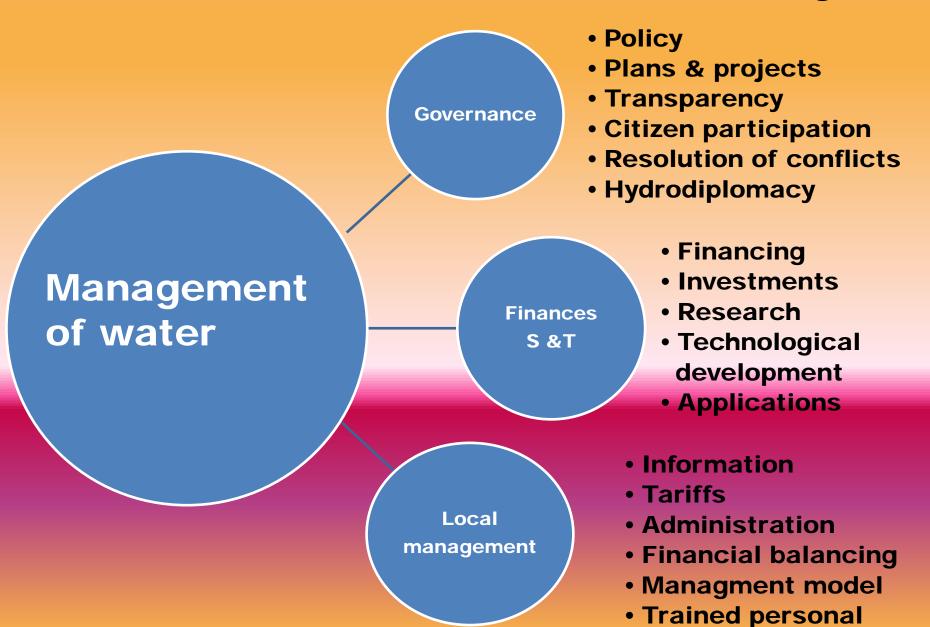


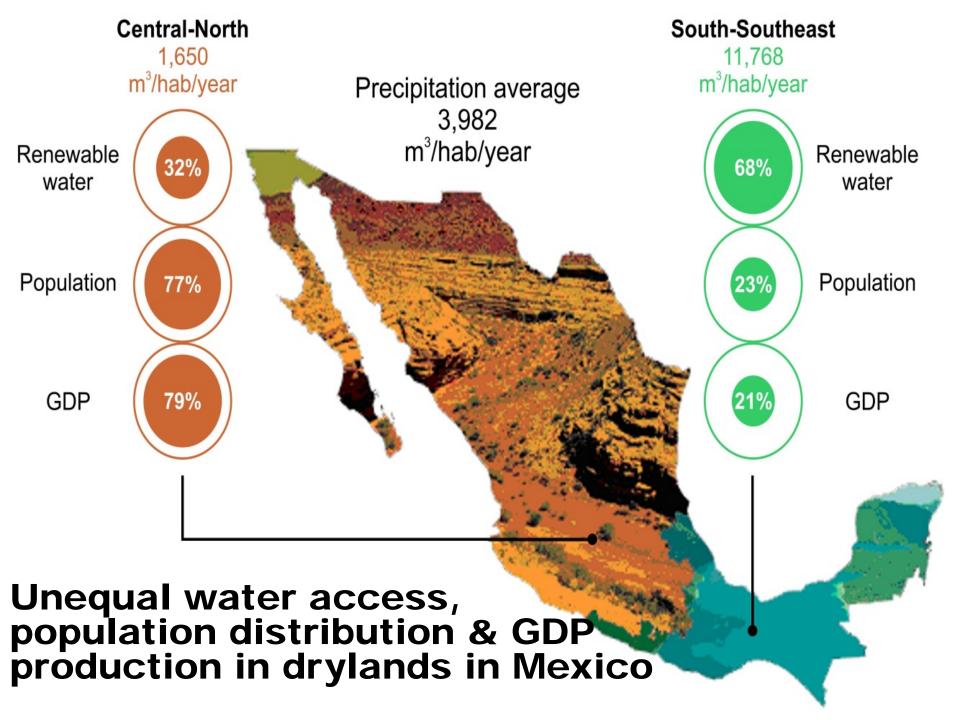
Includes water security

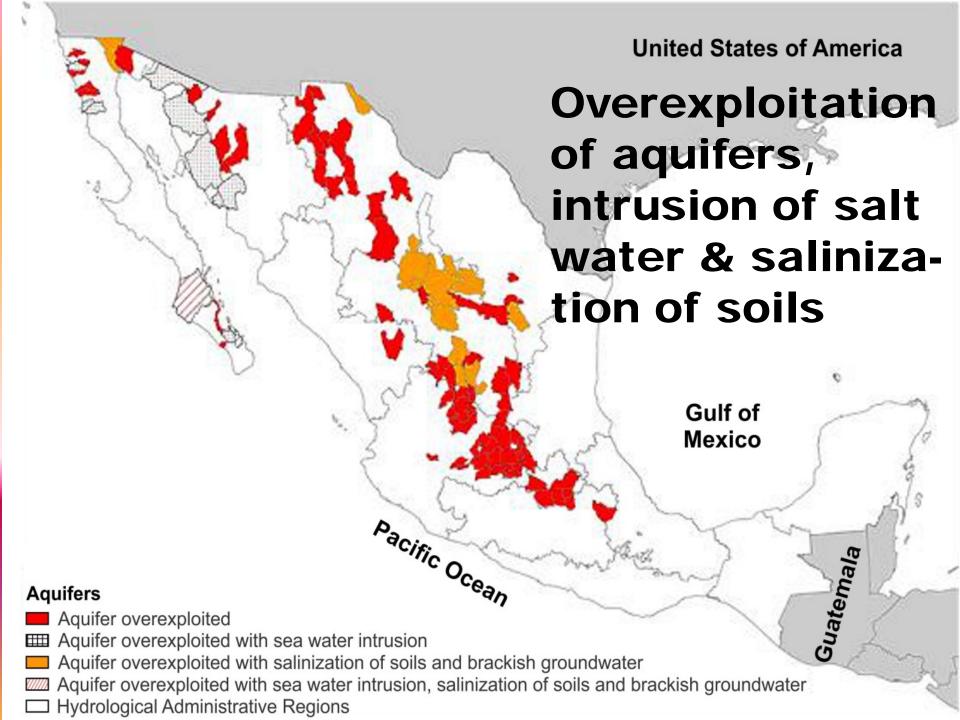
- Water is vital for the life and health of people and ecosystems
- One common goal: to provide water security in the 21st Century (Ministerial Declaration The Hague:
 - This means ensuring that freshwater, coastal and related ecosystems are protected and improved;
 - sustainable development and political stability are promoted;
 - every person has access to enough safe water at an affordable cost to lead a healthy and productive life
 - the vulnerable are protected from the risks of water-related hazard
- Water resources are under threat from pollution, overexploitation, land-use changes, unsustainable use, climate change and other anthropogenic forces.
- Links between threats and poverty: the poor who are hit first and hardest (slum dwellers without basic services).
- One simple conclusion: business as usual is not an option.



Obstacles to water security





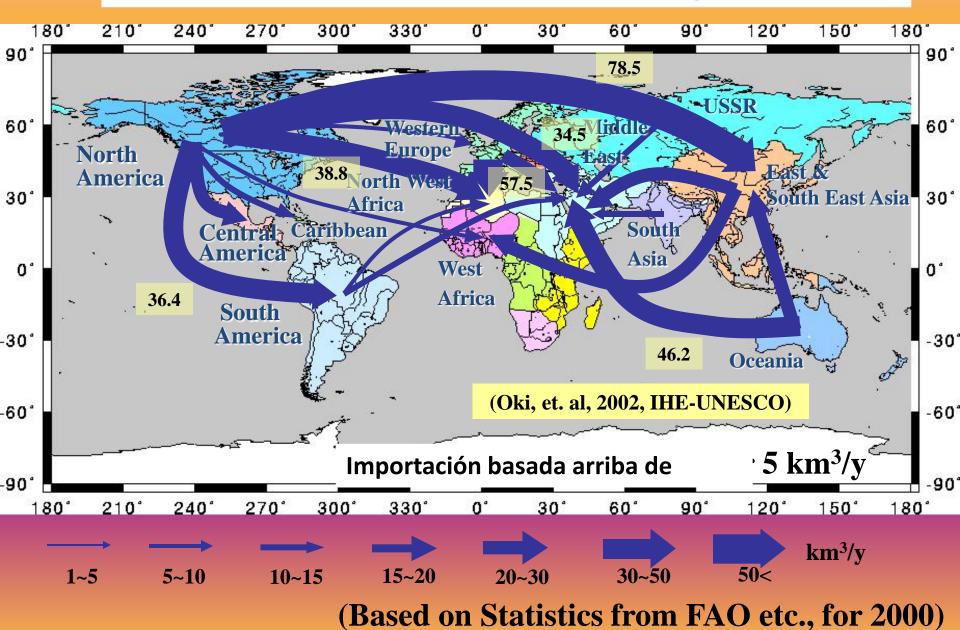




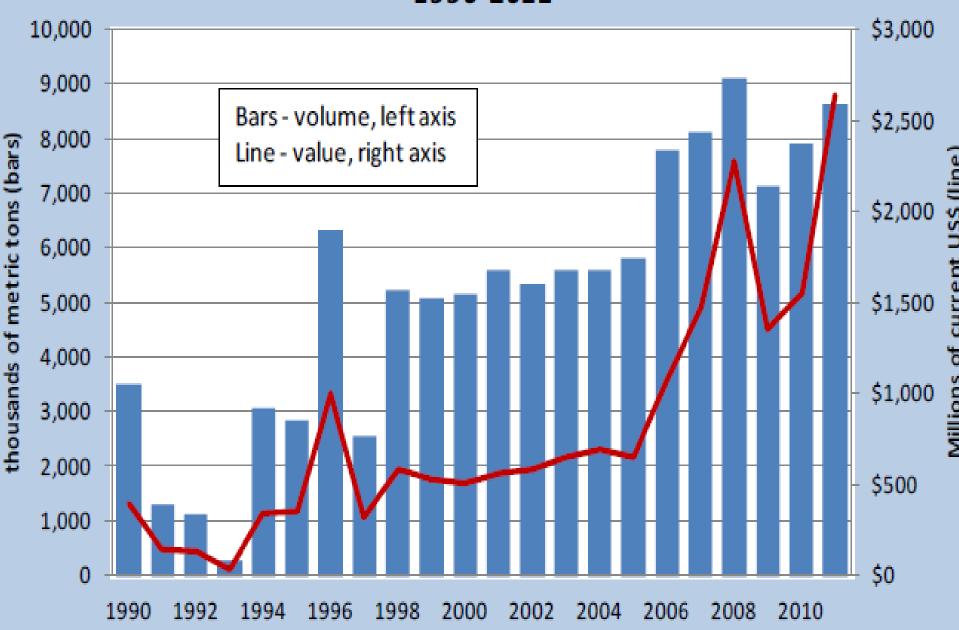
Food security and food sovereignty

- "Food security exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food, which meets their dietary needs and food preferences for an active and healthy life" (FAO, 2008).
- "Food sovereignty is the right of people, communities, and countries to define their own agricultural, pastoral, labour, fishing, food and land policies which are ecologically, socially, economically, and culturally appropriate to their unique circumstances. It includes the right to food and to produce food, which means that all people have the right to safe, nutritious and culturally appropriate food and to food-producing resources and the ability to sustain themselves and their societies" (Via Campesina, 2004).

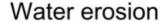
Virtual water (trade) for grains

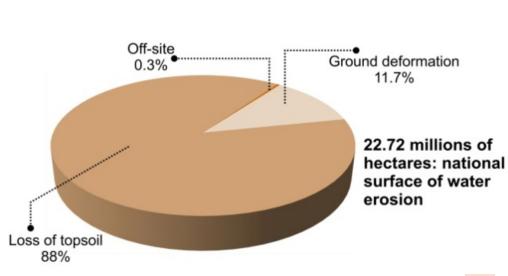


Mexico: Rising Maize Import Volume and Cost 1990-2011

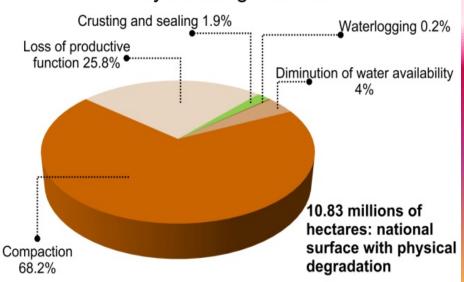


Soil management at risk

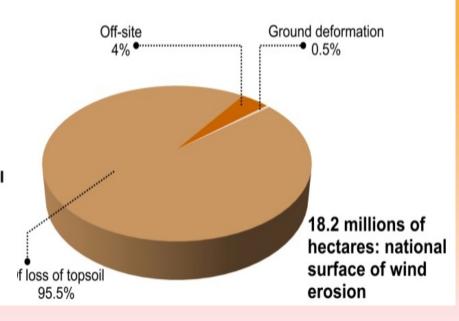




Physical degradation



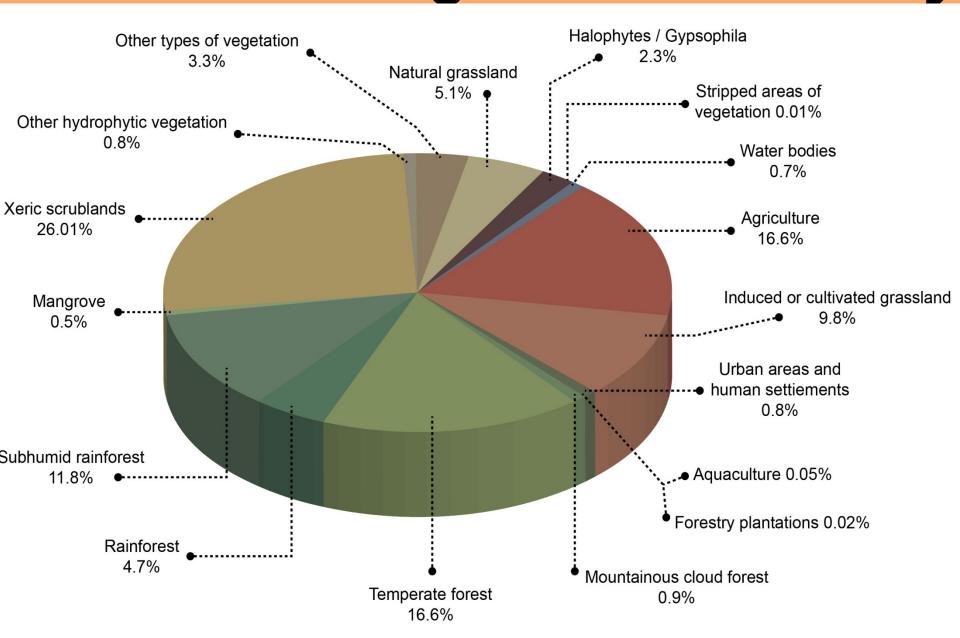
Wind erosion



Chemical degradation



Land use changes & biodiversity



Energy security



Energy Security

Definition of energy security: European Union defines security of energy supply as "ensuring that future essential energy needs are satisfied by means of a sharing of internal energy resources and strategic reserves under acceptable economic conditions and by making use of diversified and stable externally accessible sources". As such, the concept of security of supply includes "physical security, economic security and continuity of supply" (EC, 1995:22)."

Signifies: Satisfies electric demand and its increase;

- Threats to physical integrity of the installations (terrorism, climate change)
- Avoid restrictions of primary energetic offer through policy means;
- Avoid extreme volatility in the energetic market

How to achieve it?: Diversify offer and basket of energetics;

- Increase locally primary offer of energetics (renewables);
- Energy efficiency and reduction by final consumers

Ref. 1. EC (2000) green Paper – Towards a European strategy for the security of energy supply, COM (2000) 769 final, EU, Brussels

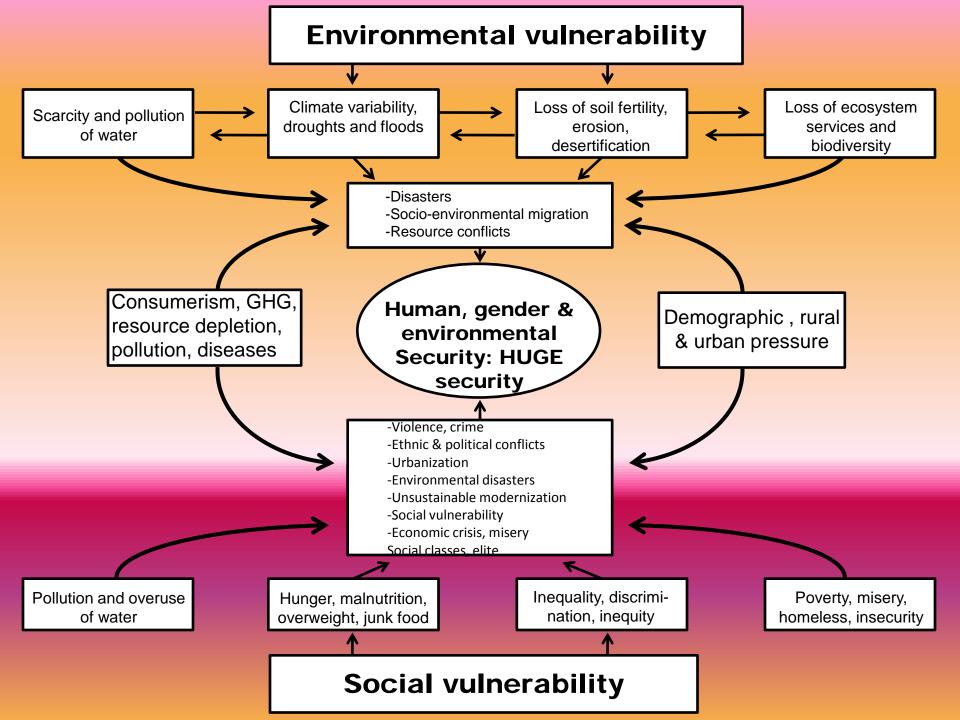
Energy security

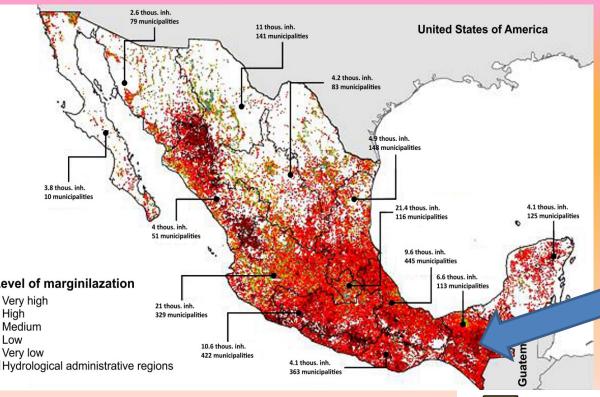
- Energy security was reconceptualised due to climate change and global environmental change. It is related to environmental, economic, societal, human and gender security.
- Energy security: depends on oil prices and certain control
 of OPEC (political security): In 1975 72% of oil imports
 came from OPEC countries; in 2011: 45%.
- Energy security is interdependent: producers and consumers want stable prices: large-time agreements
- Resilience: energetic efficiency: fro factor 2 to 15.
- Geopolitics: China requires important quantities of energy with agreements worldwide. USA and EU are diversifying their energy sources: biofuel, fracking, renewable energies.

World oil business



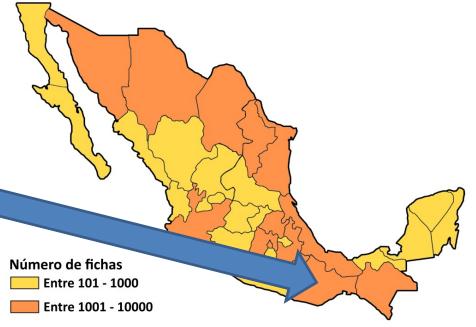






Extreme poverty

Extreme hazards & disasters



Dual vulnerability in Mexico: poor(less than 2 US\$/day) income (right) disasters (left): with more than 500,000US\$ dammages

