



Research needs and visions for innovation and sustainability – why ENSSER is engaged

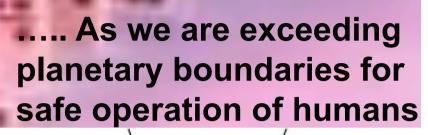
Angelika Hilbeck, CHAIR Swiss Federal Institute of Technology Environmental Sciences, Zurich

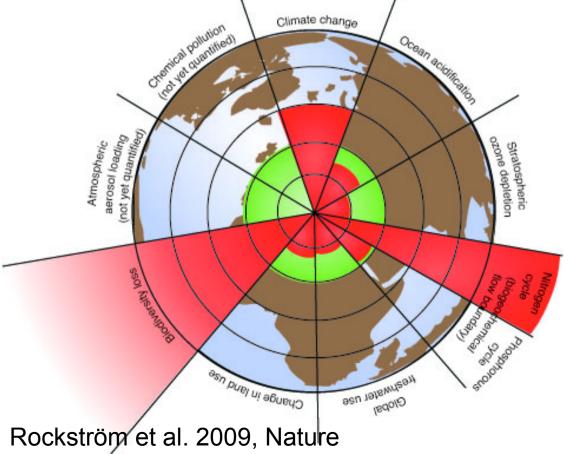


ENSSER Mission

ENSSER:

- advocates the use of science and technology in the public interest. This means benign and peaceful uses of natural processes, scientific discoveries and technological developments.
- promotes critical European and international discourse on new technologies, their impacts and their regulation
- participates in developing alternative options within technology policy, strengthening innovation and long term sustainability, while prioritizing public and environmental safety.
- contributes to shaping models for more democratic and participatory agenda-setting.





...this has triggered the simultaneous degradation of...



Environment Climate Biodiversity Water Soil



Economic / Financial Systems



Food & Health Care Systems

Gobal human society

Industrialized agriculture part of the problem!

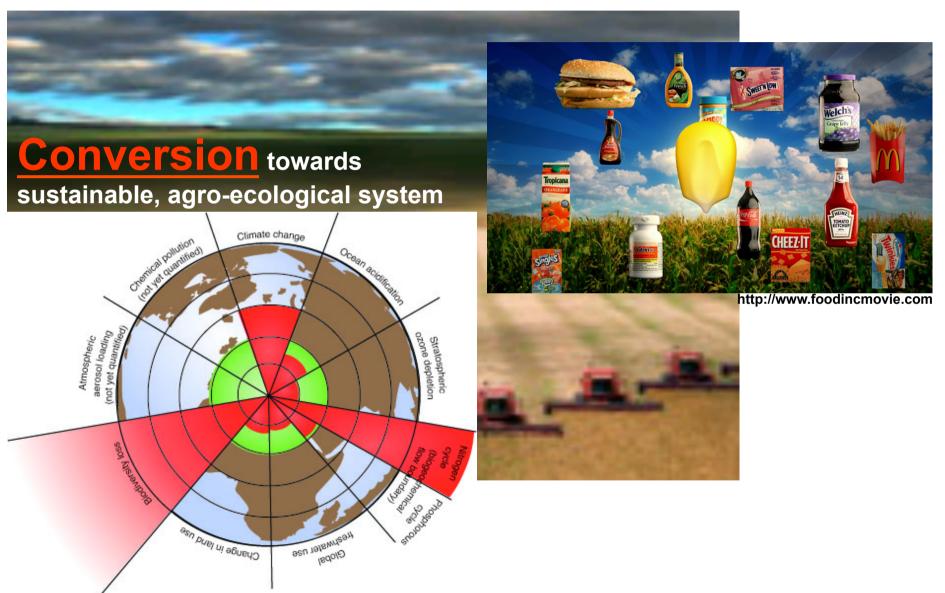


Uniform production system – one model fits all, environmental differences are made to fit the needs of industrial agriculture. High input, high tech unsustainable Extraction/mining – Export – Industrial value chains



ENSSER, Brussels, 26 Jun 2013

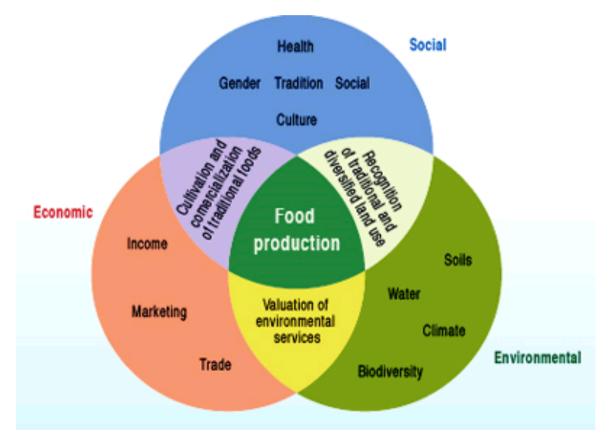
The CHALLENGE before us:

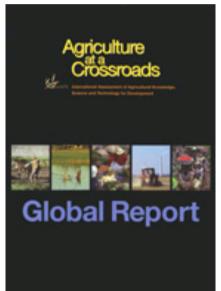




The way forward for AGRICULTURE:

MULTIFUNCTIONALITY OF AGRICULTURE



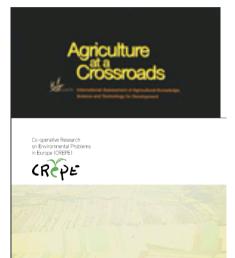




MAKING PARADIGM SHIFT HAPPEN!

A shift will include:

- the internalisation of externalities
- Development of context specific and localized technologies
- decentralized solution options
- diversified farms, food processing
- Short / local supply- and value-chains
- democratic decision-making and participation



Agricultural Innovation: Sustaining What Agriculture? For What European Bio-Economy?

> European Commission – Standing Committee on Agricultural Research (SCAR)

> > The 3rd SCAR Foresight Exercise

Sustainable food consumption and production in a resource-constrained world

February 2011



MAKING PARADIGM SHIFT HAPPEN!

Agroecology offers solutions

Increase, develop and disseminate agro-ecological methods through knowledge, science and technology to reduce environmental problems and increase productivity.

Agriculture becomes part of the solution!



FOUR MAJOR THEMES

Sustainable agroecological models need to be developed AND embedded in an enabling sociopolitical and economic context.

These main themes were identified and will be addressed:

- Transformation knowledge
- European innovation partnerships for agroecology
- Common Agricultural Policies (CAP) in support of Agroecology
- Progressive research agenda setting



THANK YOU!