Complex Human-Nature interaction in a resource constrained World

*Systems Analysis of problems associated to resource use, resource scarcity and resource efficiency*

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**When:** Friday 21 November 2014 at 12.15-13.00

**Where:** CEC Lunch room 3rd floor Ekologihuset, Sölvegatan 37

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This talk builds on a talk that Deniz held recently at the World Resources Forum in Peru. Below is the abstract to the talk. Very Welcome!

This paper provides a systemic analysis of complex dynamic issues associated with resource use, scarcity and efficiency by applying systems thinking with respect to sustainability criteria. Casual loop diagramming methodology is adopted to create a conceptual model to better understand the interconnected patterns, cause effect relations and feedbacks between the three dynamic complex systems that constitute the world we live in – namely, the biophysical world system (with all natural resources that it encompasses i.e. water, air, land and soil, as well as abiotic and biotic raw materials), the human system (from individual, to group to society) and the human built support system (covering all physical, legislative and institutional infrastructures: e.g. ranging from economy to government, to technology to agriculture etc.).

**The conceptual model provides a holistic view and it is essential in identifying and assessing:**

1. **the main driving forces behind environmental degradation and resource scarcity problems;**
2. **associated existing and potential future alternative solutions** (ranging from cleaner technology and pollution prevention practices, to sustainable consumption and production policies, to decoupling of economic growth from environmental degradation, all of which aim at resource efficiency by means of technology-ICT, innovation, regulations, legislations, taxes etc.) to these problems.

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If you have any questions related to the seminar – please contact Carin Nilsson at CEC carin.nilsson@cec.lu.se