



*Can we use above and belowground ecosystem services for promoting sustainable production of food, biofuels and biodiversity in agriculture?*

Biodiversity in agricultural landscapes is pivotal for delivering food, fiber and biofuels and carbon storage. However, the demand for goods is greater than the amount of land available, as production of biofuels competes with areas for food production and nature. This intensified land use reduces biodiversity and the resulting ecosystem services. This symposium will show a number of studies that have quantified ecosystem services and valued the services in order to influence decision of agricultural policies in Europe. Economic and ecological modelling are combined to value ecosystem services and to predict how different agricultural policies and governance regimes will affect future land use and ecosystem services, under different scenarios about the future. The ecosystem services include several supportive and regulating services, above and below ground. The talks also embrace services as biodiversity for conservation purposes where management of agriculture is integrated with conservation on a landscape scale.

Tuesday 2 October 2012, 09:15-10:35

1) Land use transitions from a combined above ground-below ground perspective and consequences for restoring biodiversity, ecosystem functions and services.

Wim van der Putten  
Netherlands Institute of Ecology, The Netherlands

2) Multifunctional agricultural landscapes - how to handle trade-offs between ecosystem services.  
Henrik Smith - Lund University, Sweden

3) Scale dependent biological control: global, regional and within field spatial interactions between natural enemies and cereal aphids.  
Klaus Birkhofer Lund University, Sweden

4) Soil ecology meets scenarios - estimating belowground effects of land use change on ecosystem service provision.  
Stefan Hotes Justus-Liebig-University, Germany

Tuesday 2 October 2012, 11:00-12:30

5) Soil biodiversity in agroecosystems and sustainable management practices.

Katarina Hedlund University of Lund,

6) A model for biodiversity in mosaic landscapes - ecology meets economics.  
Ola Olsson Lund University, Sweden

7) Promoting multiple soil ecosystem services in agriculture: the optimal policy response.  
Lia Hemerik Biometris, Wageningen University, The Netherlands

8) Soil ecosystem services and farmers' economy: is our future natural capital at risk?  
Mark Brady Swedish University of Agricultural Sciences

*Posters* Tuesday 2 October 2012: Posters 301-400 - 3:30-5:30

Alwyn Williams, - Centre for Environmental & Climate Research, Lund University, Sweden

Soil ecosystem services in conventional and organic arable fields along a gradient of landscape complexity in southern Sweden

Ciro Gardi - European Commission, DG JRC Ispra Italy

Soil carbon stock and plant biodiversity of northern Italian irrigated permanent grasslands