## SESSION DESCRIPTION

## ID C3

## Title of session:

The governance of ecosystem services: Methods to understand, inform development, and support successful implementation

## Hosts:

|  | Title | Name | Organisation | E-mail |
|---|---|---|---|---|
| Host: | Dr. | Claudia Sattler | Leibniz Center for Agricultural Landscape Research (ZALF) | claudia.sattler@zalf.de |
| Host: | Dr. | Claas Meyer | Leibniz Center for Agricultural Landscape Research (ZALF) | claas.meyer@zalf.de |
| Host: | Dr. | Lasse Loft | Leibniz Center for Agricultural Landscape Research (ZALF) | lasse.loft@zalf.de |
| Others involved: | Dr. | Carsten Mann | Zentrum Technik und Gesellschaft (ZTG), Technische Universität Berlin | carsten.mann@tu-berlin.de |

## Abstract:

This session aims to explore different methodical approaches in research on governance of ecosystem services and biodiversity protection as well as to better understand the different methods' merits but also possible drawbacks. We also intend to discuss the methods' suitable fields of application in analyzing existing governance approaches, informing the meaningful design and development of governance approaches, and facilitating their successful implementation, monitoring and evaluation.

As ecosystem services governance is a complex issue it involves different governance types and concepts including hybrid forms of governance, a multitude of actors and networks interacting vertically and horizontally, with different interests at play at the multiple scales and levels of interaction. It also features different value systems that inform judgments about ecosystem services provisioning and biodiversity conservation. Thus, research on the governance of ecosystem services builds on many different methodical approaches, targeting one or several of the above mentioned aspects.

Therefore, in this session, we would like participants to present and demonstrate a broad variety of different methods that are used to investigate and understand certain aspects of ecosystem services governance. Contributions that provide in-depth insights in the application of different methods either in single case studies or draw more general conclusions from method comparisons are invited to participate. Besides examples of well-known and often applied methods, we would like to especially focus on the application of new and innovative methodical approaches, quantitative and qualitative, such as methods for mapping and analyzing governance networks (e.g. Net-Map-Tool), methods for qualitative comparative analysis of governance models (e.g. crisp set, multi-value or fuzzy-set QCA), methods for investigating the subjectivity of judgments and norms that drive decisions in governance (e.g. Q-methodology), methods that explore the effects of psychological, social, cognitive, and emotional influence on decisions (e.g. games and experiments rooted in Behavioral Economics), or methods that foster participation in the development of governance

approaches (e.g. participatory and mediated modeling approaches, citizen science, participatory GIS), just to name a few.

Contributions for the session should give particular emphasis on the methods' fields of applications and their strengths and weaknesses, pointing out their opportunities for advancing research on the governance of ecosystem services.

Overall, contributions are invited for:

- In-depth presentation of single methods in research on the governance of ecosystem services
- Comparison of different methods in research on the governance of ecosystem services
- Showing current efforts in the development of new methods in research on the governance of ecosystem services

Additional note: This session links to the continued debate on governance and policy for sustainable ecosystem service provision and biodiversity protection that was started at the 2013 ESP conference in Bali (session title: "Design and assessment of policy instruments for ecosystem services provision and biodiversity – Challenges of sustainable development") and which continued with an interim workshop on "Governance of Ecosystem Services" in March 2014 in Frankfurt, and further special sessions at the 2014 ESP conference in Costa Rica (session title: "Governance of ecosystem services – challenges for sustainable development") and the 2015 ESP conference in South Africa (session title: "Governance of Ecosystem Services: Multiple actors at multiple levels of hybrid governance approaches – Who is in and why?"

This session is an integral part of the activities conducted under the ESP Thematic Working Group no. 12 (TWG 12) on "Governance and Institutional Aspects".

## Proposed Format (duration, methods, (technical) requirements):

We aim at 2 time slots of 90 minutes with overall eight 15 min. presentations (sums up to 120 min) plus a 15 min. introduction at the beginning of time slot 1 and a 45 min. final discussion with all participants at the end of time slot 2 (180 min. in total).

## Goals and objectives of the session:

- Explore different methodical approaches in research on governance of ecosystem services and biodiversity conservation;
- Understand the different methods' merits and possible drawbacks;
- Discuss the methods' suitable fields of application in analyzing existing governance approaches, informing the meaningful design and development of governance approaches, or facilitating their successful implementation and monitoring.

## Planned output:

Based on the presentations and the final discussion we plan to offer participants to contribute papers to a special issue in the Ecosystem Services Journal (Elsevier), focusing on the presented state of the art of applied methods in ecosystem services governance.

## Voluntary contributions accepted: YES

## Session program

**Date of session:** Thursday, September 22, 2016
**Time of session:** 09:00 am – 12:30 pm

Session moderator: Lasse Loft

## Speakers

| Time | First name | Name | Organization | Title of presentation |
|------|-----------|------|--------------|----------------------|
| 09:00 | Claudia | Sattler | Leibniz Center for Agricultural Landscape Research (ZALF) | Welcome and short introduction to the session |
| 09:15 | Claas | Meyer | Leibniz Center for Agricultural Landscape Research (ZALF) | Qualitative Comparative Analysis of ecosystem services governance approaches: Implications from research on governmental payment programs in Germany and China |
| 09:30 | Stephanie | Domptail | University of Giessen | Conflicts diagnosis for the identification of ESS trade-offs and related social and governance aspects in the Okavango River basin |
| 09:45 | Lisa P. | Sousa | University of Aveiro | Spatial patterns of ecosystem services to support strategic planning: Experiences from Ria de Aveiro case study |
| 10:00 | Stefania | Tonin | University Iuav of Venice | Identifying governance strategies that effectively support marine ecosystem services |
| 10:15 | Elena | Gissi | University Iuav of Venice | Learning on Ecosystem services co-production in decision making from role playing game simulations. Comparative analysis from South East Europe |
| 10:30 | | | | Coffee break |

| Time | First name | Name | Organization | Title of presentation |
|------|-----------|------|--------------|----------------------|
| 11:00 | Sien | Kok | Deltares | A value case methodology for supporting co-investment in nature based climate adaptation in a city centre area |
| 11:15 | Radu | Vadineanu | National Centre for Sustainable Development (NCSD) | Measuring ecosystem services: guidelines and methods |
| 11:30 | Gert | van Hecken | University of Antwerp | Changing farmers' land uses through financial incentives? An agrarian systems approach to understanding development pathways at the Nicaraguan agricultural frontier |
| 11:45 | Jens | Rommel | Leibniz Center for Agricultural Landscape Research (ZALF) | Social preferences in a dynamic agro-ecosystem: An empirically grounded agent-based model |
| 12:00 | Claudia | Sattler | Leibniz Center for Agricultural Landscape Research (ZALF) | Employing the Net-Map tool to analyze collaborative governance: two case studies from the Spreewald region, Germany |
| 12:15 | Claas | Meyer | Leibniz Center for Agricultural Landscape Research (ZALF) | Wrapping up + Session summary |
| 12:30 | | | | Lunch break |