



Ausgabe 29 Wintersemester 2022/23



Nachrichten Großes Interesse bei der 5. Nacht des Wissens Forschung Unbezahl(t)bar: Frauen in der Landwirtschaft

Fakultät

Scientists meet stakeholders to discuss climate-related challenges in South Africa

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The South African Limpopo Landscapes rural development goals and their trade-offs Network (SALLnet) final project meeting was held in Tzaneen (Limpopo Province, South Africa) on 20-21 June 2022. The overarching research question of SALLnet's interdisciplinary research project is: "How can the resilience of the multi-functional landscapes in southern Africa be enhanced under the conditions of climate change and increased resource limitations?". Six German and four South African partner institutions have been cooperating in SALLnet since 2018, under the BMBF-funded SPACES II program. The network has been coordinated by the University of Göttingen - Division of Tropical Plant Production and Agricultural Systems Modelling, and involved researchers from a wide range of disciplines as well as stakeholders at different decision levels. Focusing on the Limpopo region selected because of its diverse land-use, biodiversity and high spatiotemporal climatic variability - we have been developing and testing new approaches and methods and carried out dedicated experiments and surveys for developing more sustainable landuse options at landscape level. Focus was on the interactions between the connected land-use types: arable lands, rangelands and tree orchards. Among our main objectives, one is to develop and apply integrative tools and modelling platforms to explore and discuss alternative land-use scenarios and associated management options in view of

jointly with local stakeholders. This would, in turn, inform the discussion and debate on how to best enhance the resilience of the multi-functional landscapes to climate variability and change in the region.

Main focus of the meeting was on confirming and extending preliminary research findings. To this end, scientific project highlights were presented and promising management recommendations from distinct landuse case studies were discussed. Main objectives of the meetings were to exchange with research colleagues from different disciplines and synthesize the results on topics of high societal relevance. Additional objectives were to plan further collaborative activities for achieving the project goals and to identify future research needs. Key to transformation pathways is tech-

nological change - with associated management and policy changes - and analysis of goal achievements and trade-offs with stakeholders for alternative future "pathways" (i.e. environmental and socio-economic). Therefore, we organized a Stakeholder Day to present our work to key stakeholders, engage them and ask for their feedback in terms of the applicability of the projects' results and their relevance for developing meaningful management and recommendations in support of policy design. This was done in a "hybrid" format: most of the invited stakeholders (about 35

people) joined physically in Tzaneen, while some more participated in virtual form - allowing the participation of a heterogenous group of stakeholders, ranging from the political sphere to academics and researchers. members of national and international organizations, extension officers and farmers. Four main discussion topics were identified for the exchange with stakeholders: (1) effects of mixed crop-livestock management in smallholder farming systems, (2) interactions between smallholder livestock keeping and rangeland management, (3) sustainable management of macadamia orchards, and (4) effects of technology change on farm household income and policy implications

Some key messages that emerged from the discussions with the stakeholders were:

- Improved technologies and management options for mixed crop-livestock farming include a later return of livestock to rangeland and the storage of crop residues to enhance rangeland growth and reduce feed gaps.
- In terms of rangeland management under drought, the duration of the latter is responsible for strongly decreases in rangeland productivity and the loss of perennial grass species. Small grazing exclosures dispersed over the rangeland may ensure seed production of palatable grass species.



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- For a more sustainable management

innovative technologies, particularly irrigation, is economically viable for all small-scale farm types in Limpopo. Information about these technologies through extension services and access to credit to fund these technologies are the most important enablers. Yet, this information needs to be complemented by robust quantitative estimates and projections of future availability of water resources in the region.

Overall, the meeting was considered successful by all participants. The exchange between researchers and stakeholders proved to be stimulating and enriching for both sides. What emerged from the discussions is that further research on identified topics is needed and that findings need to be communicated in more targeted formats to the relevant stakeholder groups and policy makers (e.g. through policy briefs and lists of management recommendations)



Fakultät für Agrarwissenschaften





In Keynotes und Diskussionen boten pas-

sionierte Wissenschaftler*innen der Uni-

versität Göttingen und der liveSciences3

Partneruniversitäten Einblicke auf den Wan-

del von Landschaften, von Moorlandschaf-

ten in Norddeutschland über Agroforstsys-

teme in Costa Rica bis hin zu den letzten Urwäldern Europas in Bosnien-Herze-

gowina. In interaktiven Diskussionen zu

aktuellen Landnutzungskonflikten lernten

die Studierenden in internationalen Teams

Gruppendynamiken zu reflektieren. Wäh-

rend Tages-Exkursionen in das Umland von

Göttingen und der Arbeit an einem selbst

ausgewählten Projekt, waren die Teilneh-

menden eingeladen, gemeinsam mit Stu-

dierenden anderer Fachrichtungen (Agrar,

Biologie und Forst), über die verschiede-

nen Aspekte und Bestandteile von Kultur-

Der Perspektivenwechsel und das interdis-

ziplinäre forschungsorientierte Arbeiten in

internationalen Teams war ein besonde-

res Anliegen der fakultätsübergreifenden

Veranstaltung: ebenso wie die Verknüpfung von wissenschaftlichen Arbeiten mit

der Stärkung von digitalen Kompetenzen.

Durch das gemeinsame Engagement von

Wissenschaftler*innen und Proiektmit-

arbeiter*innen konnten während des Sum-

mer Campus zudem zahlreiche Ideen für

(Forschungs-)Projekte entwickelt und das

Netzwerk nachhaltig belebt und gestärkt

Methodisch begleitet wurde der Summer

Campus von Expert*innen der Universität

Göttingen, die Workshops zum Thema Vi-

werden

und Naturlandschaften zu diskutieren.

tauschen

THIS HIS YEAR

Vom 15.–26. August 2022 fanden sich in deoproduktion gaben. Am Ende der zwei Göttingen 30 Studierende der lebenswis-Wochen konnten die Studierenden tolle senschaftlichen Fakultäten aus sieben ver-Videos präsentieren, die ihren Lernprozess und die Erfahrungen in den jeweiligen Proschiedenen Ländern zusammen, um sich im Rahmen des liveSciences3 Summer iekten dokumentieren. Campus für zwei Wochen über das Management von Kulturlandschaften auszu-

Neugierig geworden? Unter diesem Link finden Sie die finalen Resultate der Videoproiekte: www.uni-goettingen.de/liveSciences3+SummerCampus2022

The liveSciences³ Summer Campus from a student perspective

In the mid of August an adventure of young people sharing same interests from seven countries was taking place in University Göttingen. As a group of biology, forestry and agricultural students, how do we shape future landscape in a more sustainable way? How can we work together to seek local solutions for global challenges? We brought our ideas to university's new facility in SUB Digital Creative Space, there we were

able to confidently present our perspectives into the group with digital support. Starting casually with a cup of coffee and snacks, the first week was all about learning with fun! Not only did we have the opportunities to have international communications and exchange ideas freely with experts in their field, but also went outside to explore humanmade forest in southern Solling with professional assistance.

After the week of lectures and theories, we have widened our sights. As for the cow group, we were eager to know what is the current ecological farming system in Germany. We concentrated our concerns in three main areas - profitability of farm-