

Economy-Wide Modeling of Rangeland-Related Ecosystem Services in Jordan

Project Team



Sawsan Abdul-Jalil

PhD student

sawsan.abdul-jalil@hu-berlin.de



Dr. Jonas Luckmann

Advisor and supervisor



Prof. Dr. Harald Grethe

Supervisor

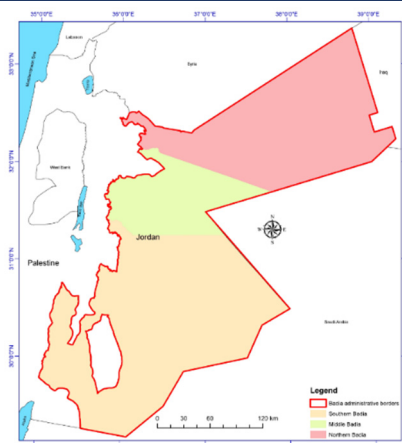
The rangelands in Jordan provide several environmental, economic, and cultural values on a local and national level, also known as ecosystem services.

Most Jordanian rangelands are located in the arid and semi-arid rangelands, also known as the Badia region, which has experienced substantial degradation in recent years due to several natural and social factors such as climate change and population and overgrazing.

In this project, our objective is to develop a comprehensive framework for rangeland management by considering the **links between ecological and socioeconomic systems**.



*Grazing in the Jordanian rangelands.
Source: SAGE center*



*The Badi region. Source:
<http://www.badiarp.gov.jo/en/node/111>*

To examine these links, we develop a Computable General Equilibrium (CGE) model, which is a computational representation of the economy that depicts economic transactions between producers, households, and the government.

The model will be enhanced by including ecosystem services and then used to simulate and analyze different shocks and policy options affecting rangelands.

