ANGSOIL

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Southern African Science Service Centre for Climate Change and Adaptive Land Management
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sustainable management of soil fertility

- *developing products from indigenous plants, in order to assess the nutritional and medicinal properties of food, medicinal and Nutraceutical plants species*
- *produce a soil fertility characterization in the region*

Coordinator

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Countries involved

Angola, Botswana, Namibia & Zambia

Other partners involved

University of Bremen, University of Botswana, University of Zambia

Scope

The AngSoil project will apply the Thitapoho farm model with a focus on developing products from indigenous plants, in order to assess the nutritional and medicinal properties of food, medicinal and Nutraceutical plants species. The process will include an ethnobotanical survey that gathers information from the community on their knowledge of indigenous plants.

The ANGSOIL project will also produce a soil fertility characterization in the region, with the creation of a database with soil attributes and fertility maps with different physical and chemical attributes.

In Botswana, the experimental field sites focus on the Bambara groundnut, which is a climate smart, drought resistant crop. In Zambia, the field sites focus on the cowpea.

Data is collected from the field sites and samples are prepared to for stable isotope analysis. The isotope analysis is important as stable isotope of carbon is used as a proxy for measuring water use efficiency.

Capacity Development

The ANGSOIL project aims to facilitate 2 Master students. It will further provide capacity development to farmers and professionals.

Products and Services

- database with soil attributes and fertility maps
- rhizobia germplasm bank to encourage scientific research and the development of new biofertilizers

University of Botswana · University of Bremen · UJES Universidade José Eduardo dos Santos · The University of Zambia