

# Cooperative Project in GlobalTip: NamTip - A Namibian Perspective on Desertification Tipping Points in the Face of Climate Change

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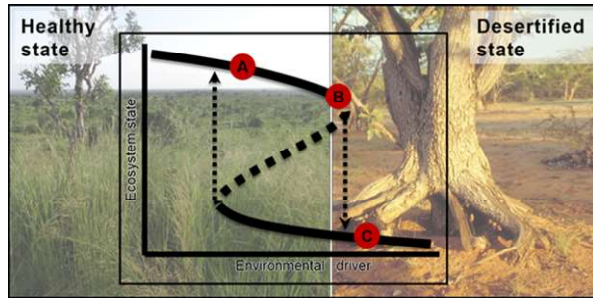
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## What are desertification tipping points (DTP)?



## Why study DTP?

Crossing a DTP has dramatic consequences for dryland ecological systems and direct impacts on people's livelihoods and well-being.

## Why study them in Namibia?

Namibia is the driest country in sub-Saharan Africa, representative for many semi-arid regions in the world that face problems of scarce natural resources, infertile land, extreme climate events such as droughts, population growth and urbanization processes.

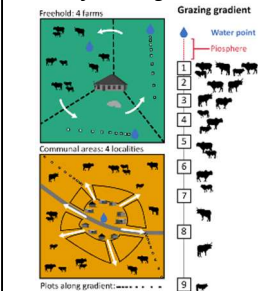
## NamTip's Objectives

**I: Understand social-ecological drivers of desertification tipping points**

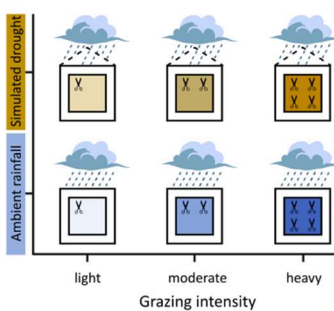
**II: Explore and communicate management options for preventing desertification tipping points and restoring degraded rangelands**

**WP E1: Identify early-warning indicators for desertification tipping points from time series of above-ground net primary production and rainfall.**

**WP E2: Comparative analysis of ecosystems along a desertification gradient**



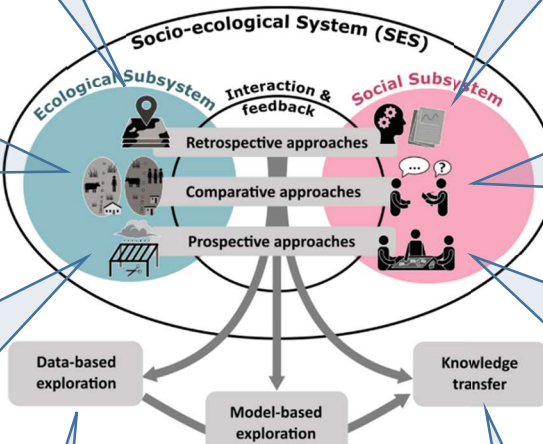
**WP E3: Experimental studies (TipEx')**



**WP 4: Data-based exploration of management options**

- 1) Compile toolbox using field-based warning indicators
- 2) Explore usability of early warning indicators with remote sensing
- 3) Explore proactive management strategies with farmers

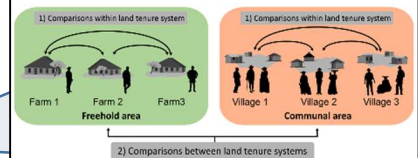
## NamTip's inter- & transdisciplinary study approach



**WP S1: Retrospective analysis of human factors in the face of desertification tipping points: causes and effects**

- 1) Archival work, written records, oral history
- 2) Interviews with farmers, policy-makers and implementers

**WP S2: Comparing desertification tipping points in different land tenure systems**



**WP S3: Scenario development and exploration of decision-making with a 'Serious Game'**

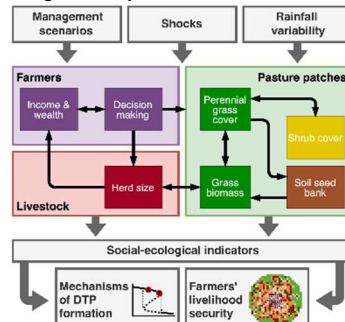


**WP 6: Capacity development and dissemination**

- 1) Supervision and trainings for students
- 2) Trainings for farmers and decision-makers
- 3) Learning opportunities for teachers and school children
- 4) Stakeholder workshops & factsheets



**WP 5: Model-based exploration of management options**



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