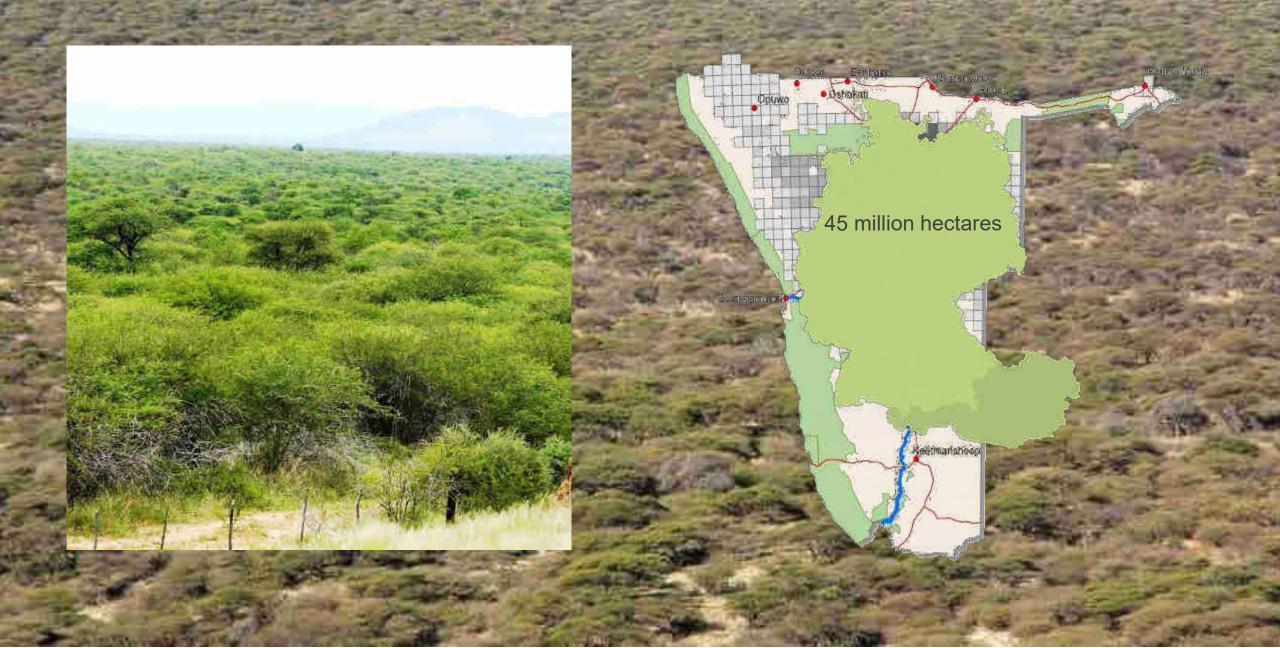




Jan Theis & Stefan Glaser, Technical Advisors

Bush Control and Biomass Utiliziation (BCBU) & Farming for Resilience (F4R)

# Bush Encroachment in Namibia – 45 million hectares of savana affected







# **Background** - Definition – Use – Production - Relevance

#### **Terra Preta**

- generally poor soils in the Amazon Basin
- pre-Colombian societies enhanced the soil with biochar
- precondition for sedentarism and population growth
- evidence of ancient biochar use also in Africa



THE BRAZILIAN REPORT (2017)





GLASER et al. (2001): The Terra Preta' phenomenon: a model for sustainable agriculture in the humid tropics.

# Background - **Definition** – Use – Production - Relevance

"Biochar is a carbonous and **porous** material obtained by thermochemical conversion (pyrolysis, gasification) of biomass waste."

DEMIRBAS et al. (2004): Effects of Temperature and Particle Size on Bio-Char Yield From Pyrolysis of Agricultural Residues

#### Biochar is...

### 1. adsorptive

 gases, liquids, solids adhere (temporarily) to its surface

### 2. absorptive

 liquids get absorbed like a sponge



