
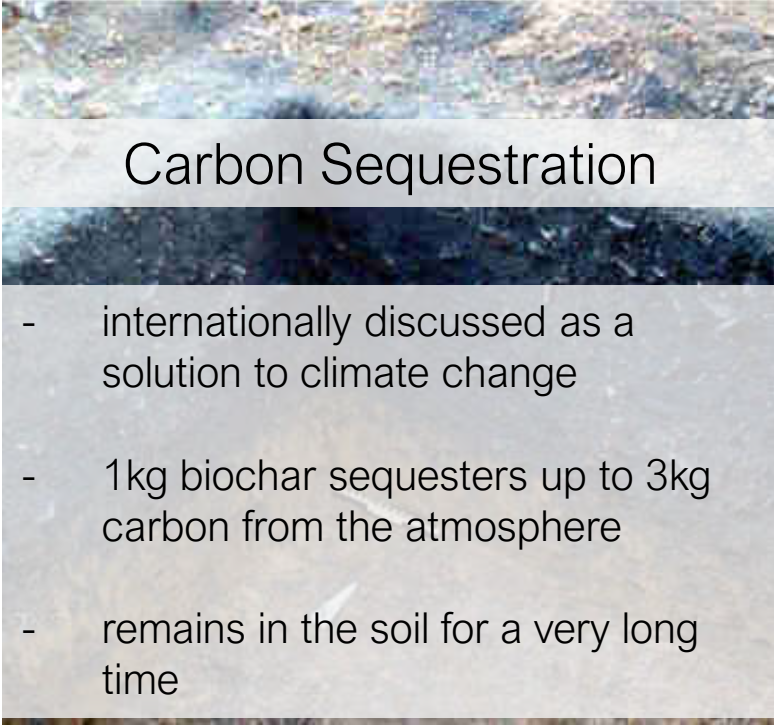


## Background - Definition - Use - Production - Relevance



### Soil Enhancement

- improves water holding capacity
- improves nutrient holding capacity
- resistance against extreme weather phenomena
- increases yield



### Carbon Sequestration

- internationally discussed as a solution to climate change
- 1kg biochar sequesters up to 3kg carbon from the atmosphere
- remains in the soil for a very long time



### Animal Health

- adsorbs pathogens from the stomach
- reduction of methane emissions
- increases growth rates
- improves overall health

# Background - Definition – Use – Production - Relevance

Harvesting



Pyrolysis



Quenching



Crushing



# Background - Definition – Use – Production - Relevance

## Conditions in Namibia

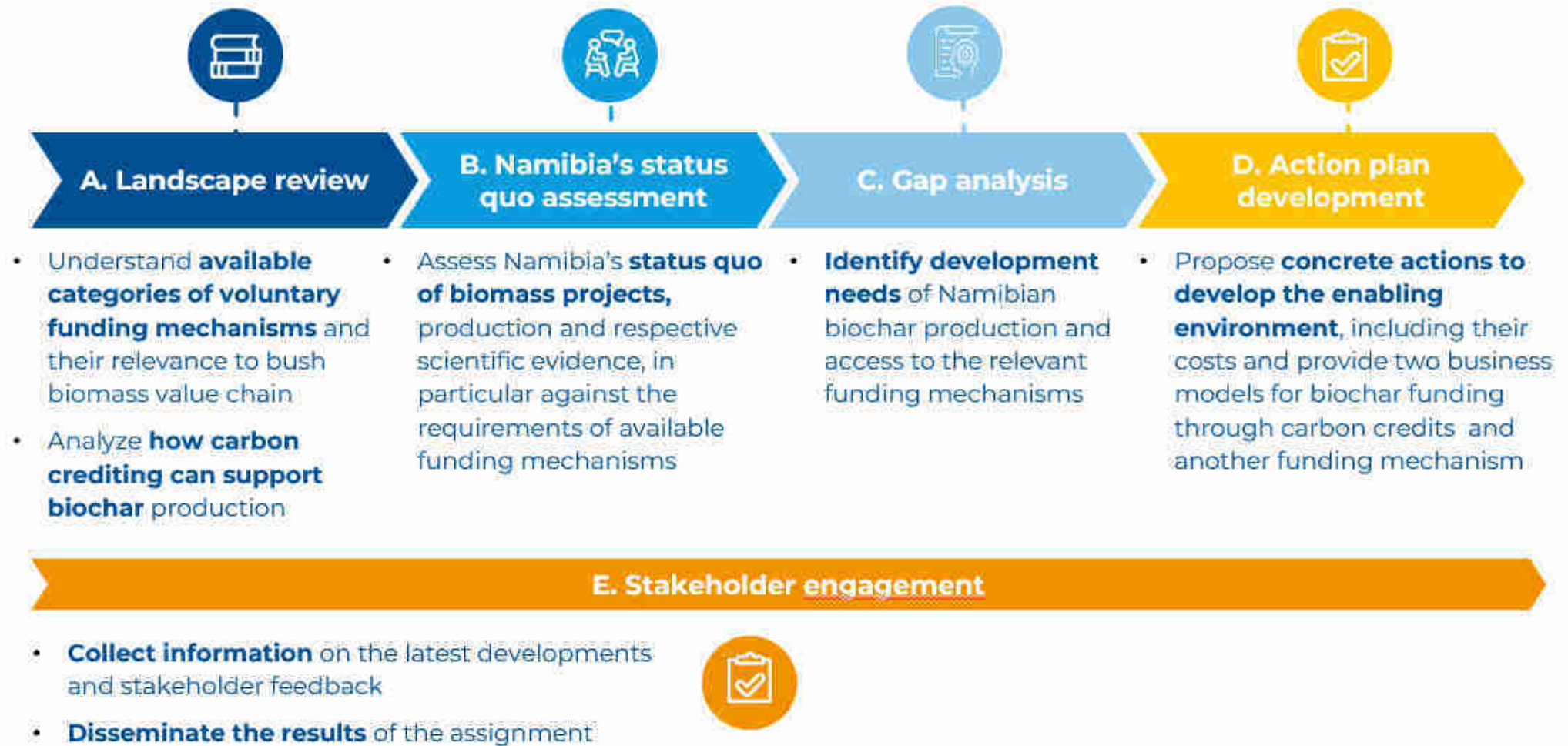
- Available bush biomass resource
- Usually, sandy soils with very low water holding capacity and nutrient holding capacity
- Existing and innovative biomass industry
- Biochar production can play a complementary role (different markets, different feedstock)
- Pilots using biochar from encroacher bush for agricultural activities
- Challenges: Need for awareness raising, capacity development, research, adapted policies/strategies and local/international market(s)

→ **Need of external funding mechanisms**



# Biochar driven carbon credits in Namibia – BCBU Scoping Study

Hypothesis: **Incentives for bush thinning + Co-benefits + Additionality**





# Does biochar help our agricultural production?

# Farming for Resilience Project Climate Adapted production

