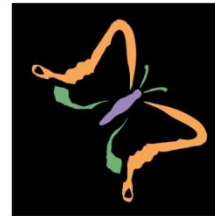


# SANBI's role in the Crop Wild Relatives project



**SANBI**

Biodiversity for Life



South African National Biodiversity Institute

# What SANBI does in a nutshell derived from the Biodiversity Act

- Manage and unlock benefits of the network of **National Botanical Gardens**.
- Undertake **scientific research** - monitor and report on the state of biodiversity and provide science-based evidence to support policy and decision making
- Co-ordinate and provide access to **biodiversity information** and scientific knowledge.
- Provide science-based **policy tools and advice** for the effective management of biodiversity assets and ecological infrastructure.
- Drive **human capital development**, education and awareness in response to SANBI's mandate.



## SANBI's part in the CWR project:

# Study to identify SA CWR hotspots and priority sites for *in situ* conservation and *ex situ* collection in South Africa

### Objectives:

- compile baseline information on diversity, conservation status and threat to targeted CWR in South Africa into a database
- provide information to facilitate the identification of national *in situ* CWR hotspots and priority sites for *in situ* conservation and *ex situ* collection



# Basis of our contribution: preserved plant collections

- 3 collections – Pretoria (National Herbarium), Durban and Cape Town
- >2 million preserved plant specimens
- 18 plant taxonomists



# Preserved Plant Specimens – vital resources for the CWR project



Specimens used for comparison when verifying identity of material collected for the project

Label data: species name, locality where collected, co-ordinates of locality, date of collection, habitat details

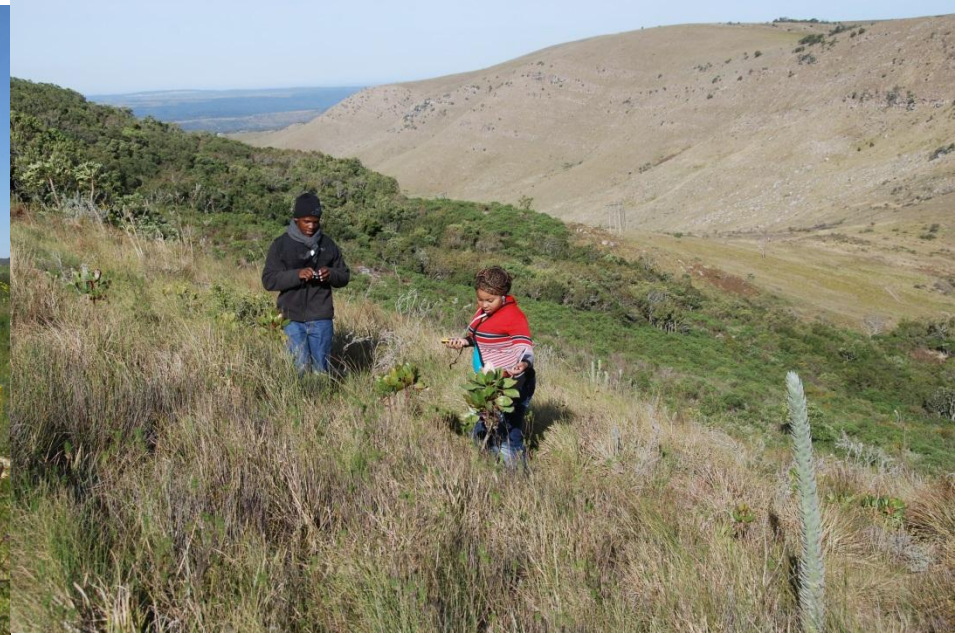
Database - > 1.5 million specimen records, with data for each specimen

Extract data for target CWR species



# Surveys for target species:

Verify old localities, add new localities, check population size at localities, and collect seed / material for analysis and *ex-situ* conservation



# Collection database and surveys used to produce **outputs** ...



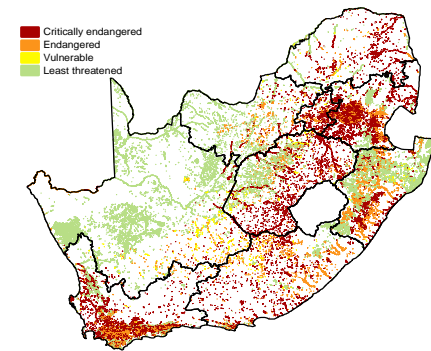
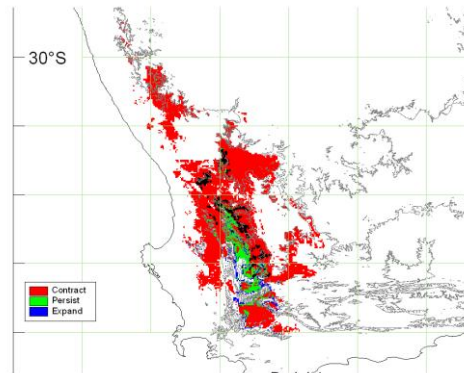
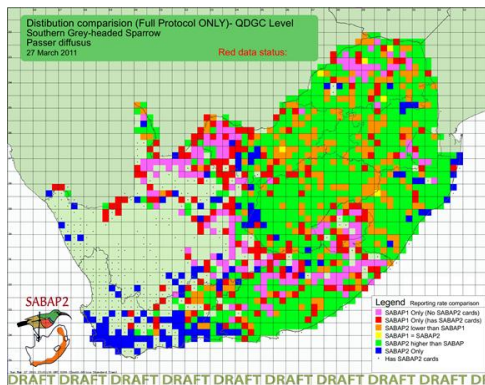
1. Fully georeferenced distribution data from historic specimen records and from newly collected data set

- Analyse - to check previously determined threat status (likelihood of extinction in foreseeable future) of focus species – Critically Endangered, Endangered, Vulnerable, Least Concern

2. Add the threat / conservation status to the CWR data set

# Database used to produce outputs ....

3. Maps showing distribution of priority CWR and hotspots areas – where the highest number of important species are
4. Lists of priority sites for *in situ* conservation and *ex situ* collection of priority CWR



5. Report to document process used to identify hotspots for *in situ* conservation and *ex situ* collection



# Outputs from SANBI

## 6. Contribution to preparation of the National Strategic Action Plan.

SANBI staff involvement: across Divisions and units in the organisation: Biosystematics, Threatened Species Programme, Information Management and GIS sections, Millennium Seedbank

**Thank-you!**