

Rangeland monitoring and its application

Cathy Waters
(Pastures and Rangelands Unit)

Trangie Agricultural Research Centre, Trangie NSW 2923, Australia

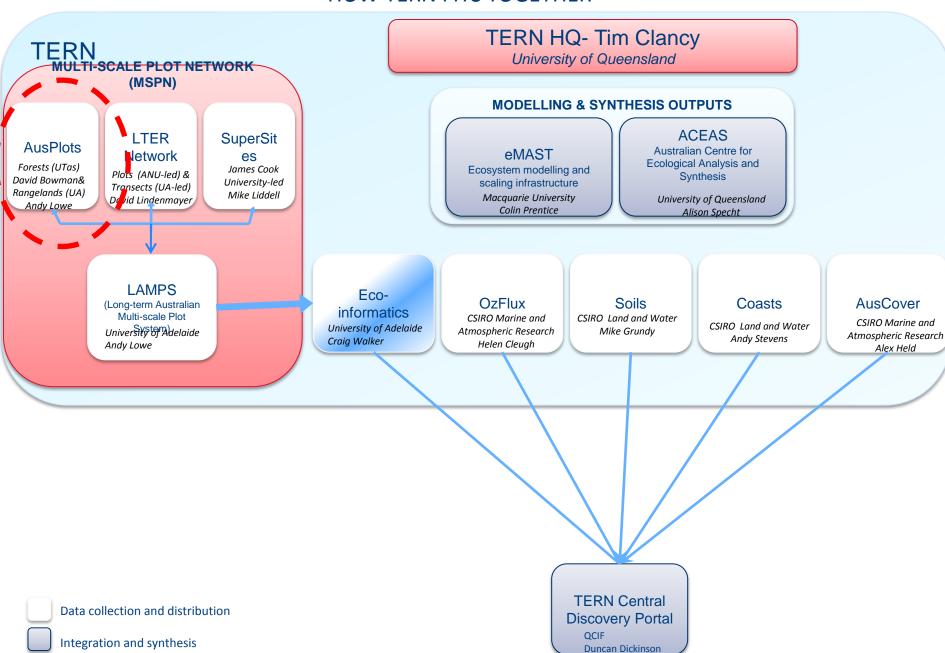
Overview

AusPlots-rangelands NSW (TERN)

 Enterprise-based conservation (Ground cover incentive)

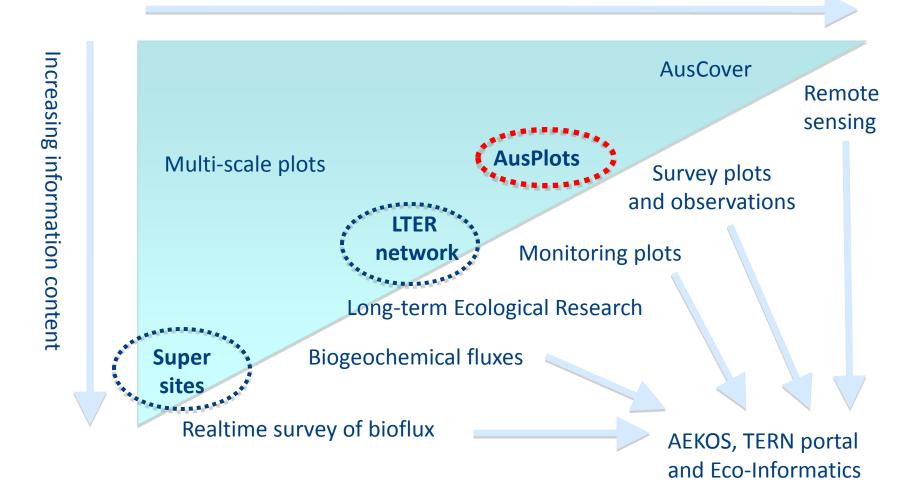


HOW TERN FITS TOGETHER



Spatial, temporal and information scales

Increasing spatial coverage



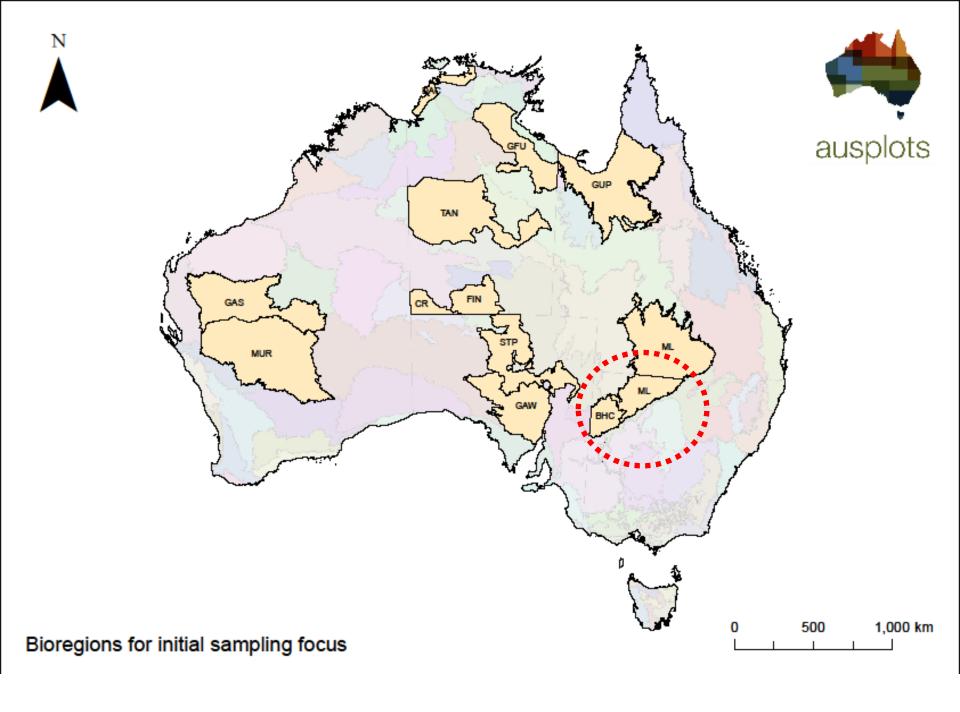
AusPlots Objectives

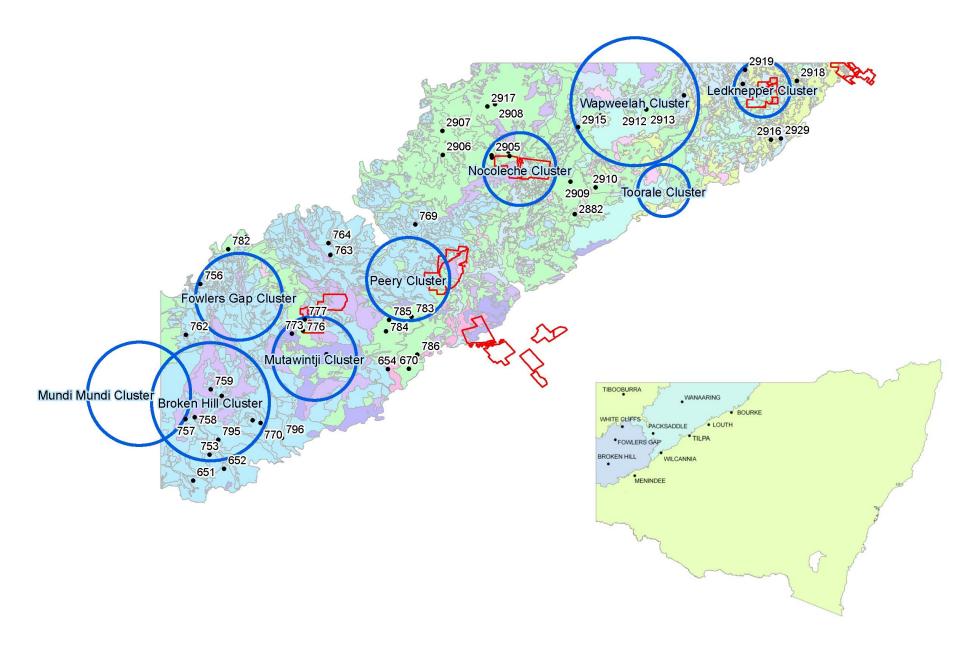
- Establish permanent plots (800-1000)
 - NSW (>100 sites)

- Undertake base-line surveys of vegetation and soil
 - Stratification process
 - Methodology
 - Dissemination via Eco-informatics facility



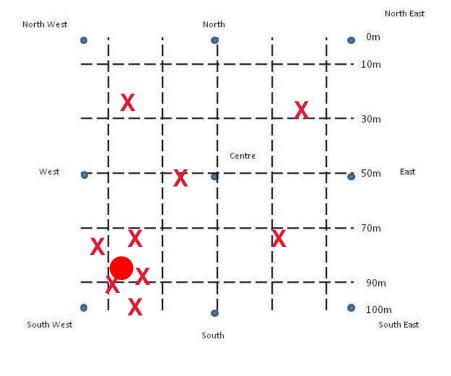








- Point Intercept transects for vegetation
- Soil sampling down profile and across site
- Plant vouchers for herbaria
- Samples for DNA barcoding, isotope analysis & metagenomics
- Photopoint panoramas

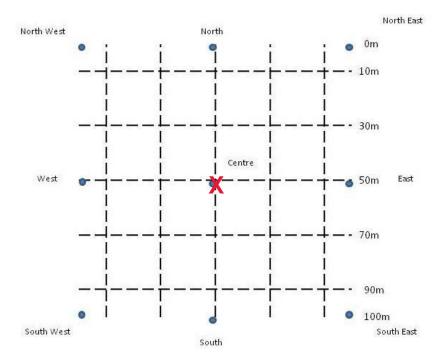


Point Sampling Location

— — Point Intercept Transect







- Point Sampling Location
- — Point Intercept Transect





ausplots

Rangelands Field App

This software has been developed by the University of Adelaide for TERN AusPlots. It allows users to enter and archive field data collected according to the AusPlots methodology.

TERN is supported by the Australian Government through the National Collaborative Research Infrastructure Strategy and the Super Science Initiative.

Version: Alpha 1.002















AusPlots Rangelands

Current Plot: test007		Manage Plot
User:		Login
Settings	About	

Land Cover Assessment

Star Point Intercept

Ausplots Vegetation Modules

Vegetation Vouchering
Genetic Vouchering
Point Intercept
Basal Wedge
Leaf Area Index (LAI)
Photo Panorama
Structural Summary

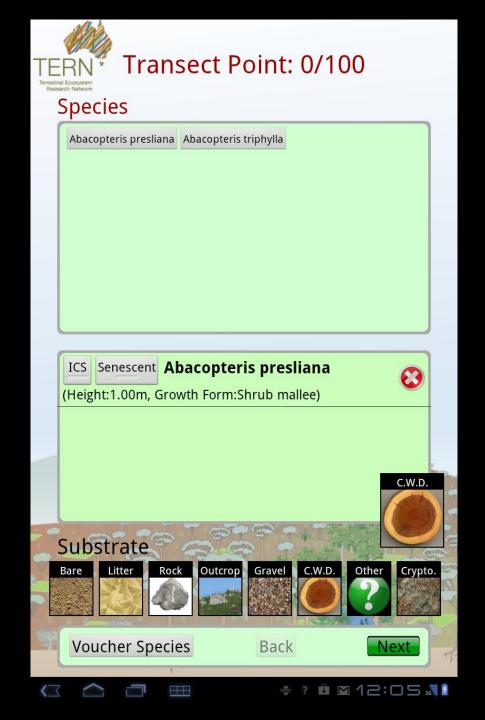














Select species or enter field name ...

Abacopteris presliana

Abacopteris triphylla

Abarema pruinosa

Abaxianthus convexus

Abelia rupestris

Abelia x grandiflora

Scan a voucher

Show Plot's Vouchered Species:1

Field name

Abacopteris triphylla

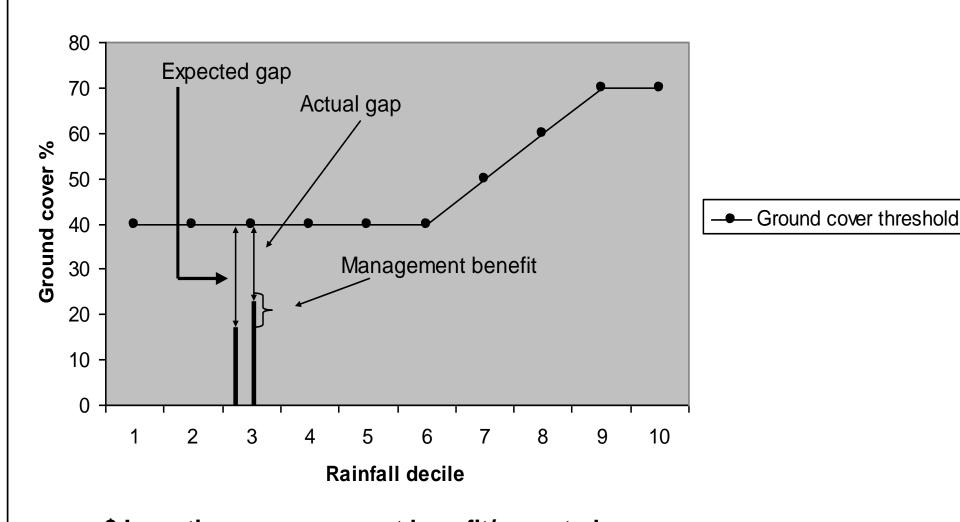
Scanned Voucher

<none>

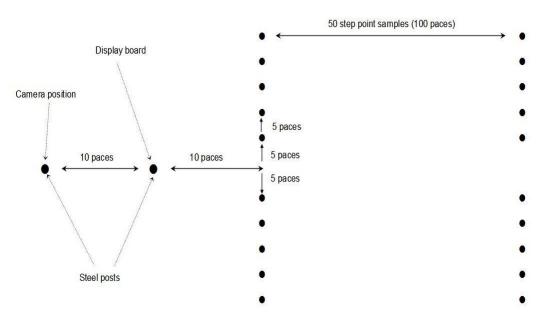
Go to Genetic Vouchering



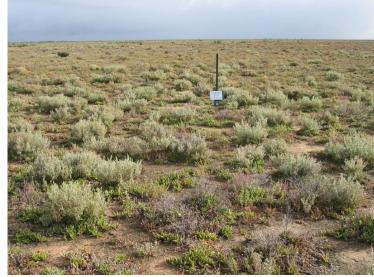


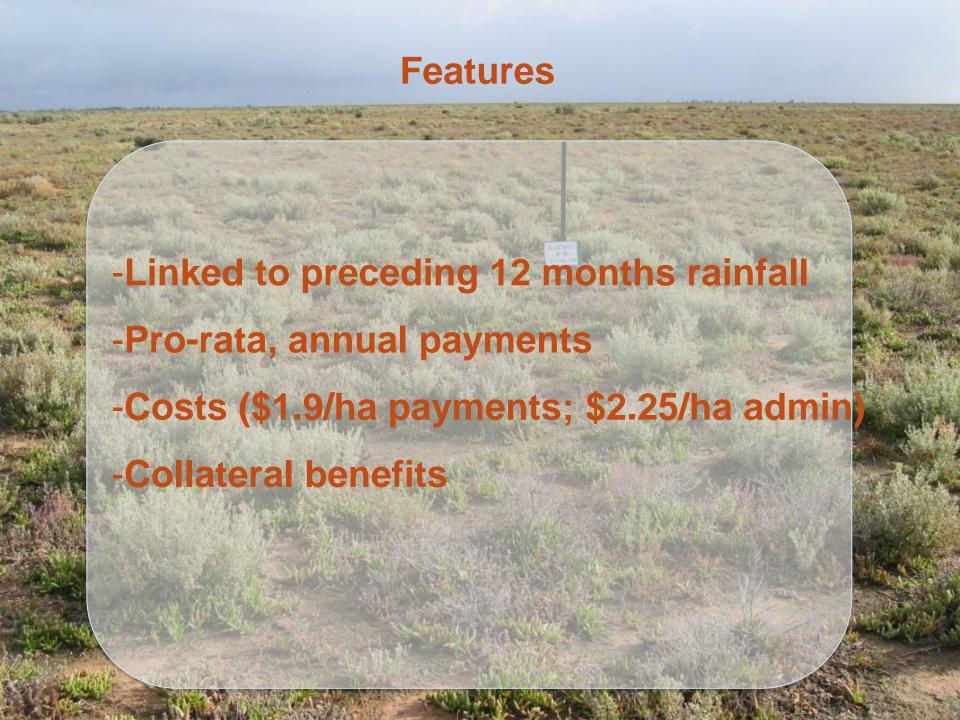


\$ Incentive = management benefit/expected gap \$ Incentive = 8/24 of potential payment = 33.3%









Summary

- AusPlots
 - Continental scale (standard methods)
 - Publically available
- Enterprise based conservation (ground cover)
 - Practical application of monitoring
 - Inform policy (recovery management)

