

### Simple Management Tools to Solve Complex Restoration Puzzles

#### Grassland, Moths, Cows and Weeds

Alexi Williams ACT Parks and Conservation Service Environmental Offsets







## **Environmental Offsets**



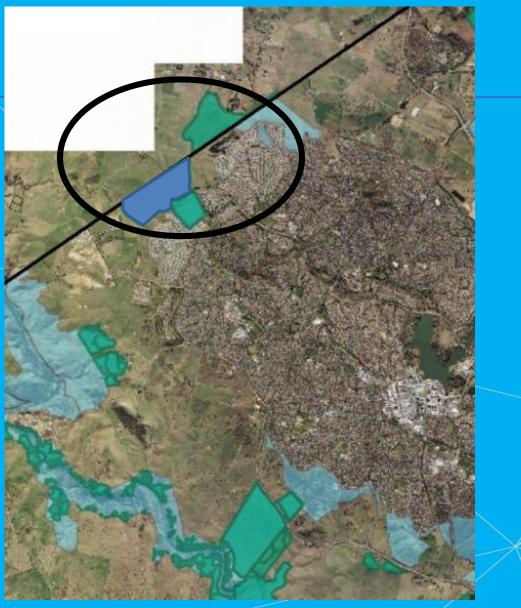
#### 2,027 ha of approved offsets

Increasing Canberra Nature Park by nearly 20%

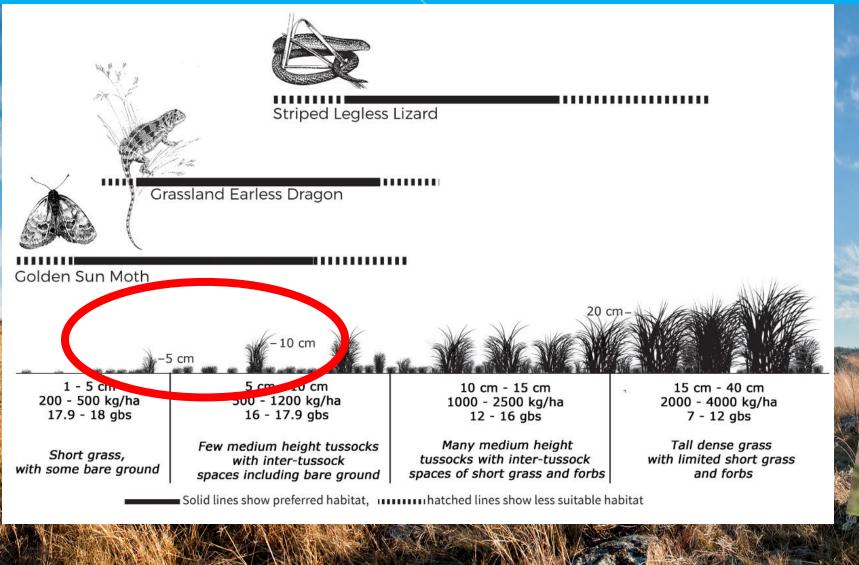


## **Environmental Offsets**

## Jarramlee 112 ha Part of the Gooromon Grasslands



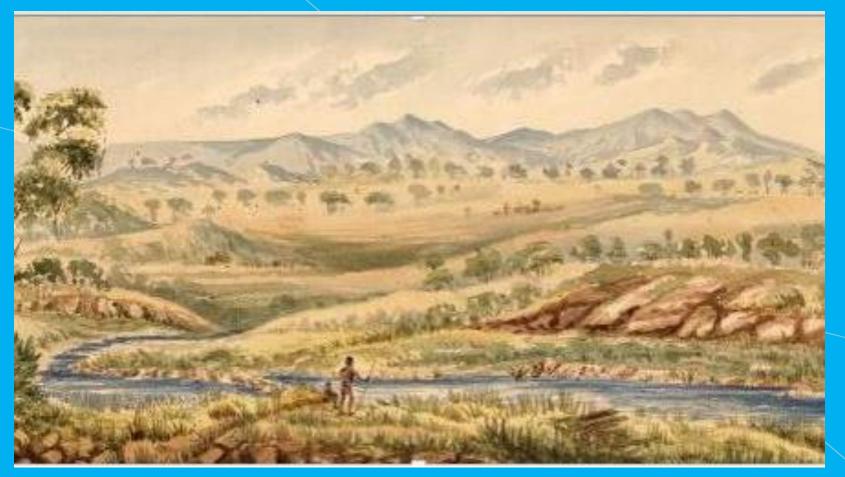








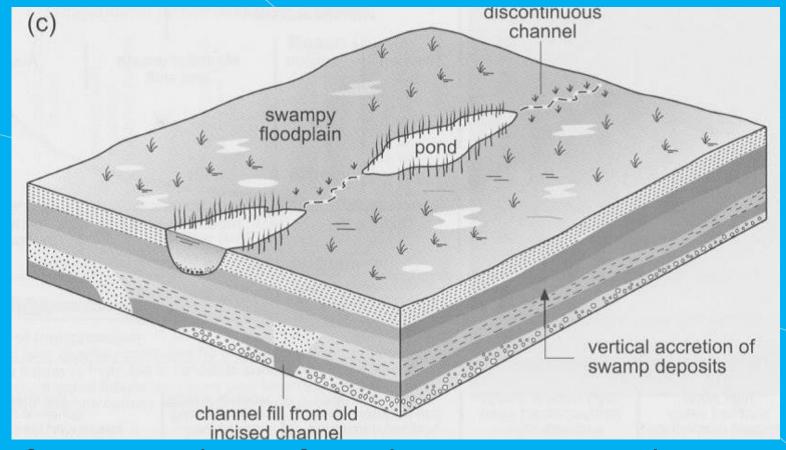
## Indigenous History



Robert Hoddle paintings, Ginninderry Plains, 1832-35 (National Library of Australia)



### **Series of Ponds**



Schematic of an intact chain-of-ponds environment. These systems area variation of a cut-and-fill landscape, typified by the vertical accretion of finegrained sediments (from Fryirs & Brierley, 2013).

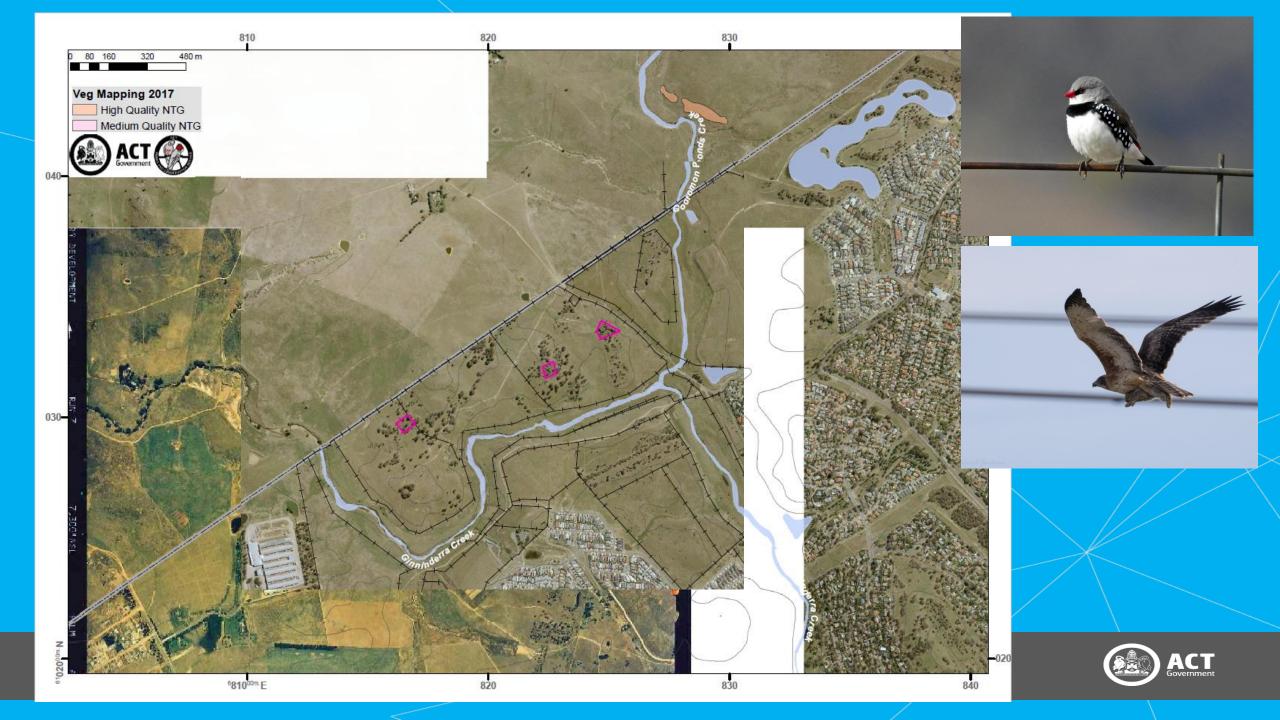


## **Dealing with a modified landscape and conflicting values**



Eucalyptus species include E. mannifera E.globulous E.cinerea E. tricarpa







## NOT Giant Sumo Golden Sun Moth Larvae



-Increase the Natural Temperate Grassland from 6.8 ha to 7.6 ha

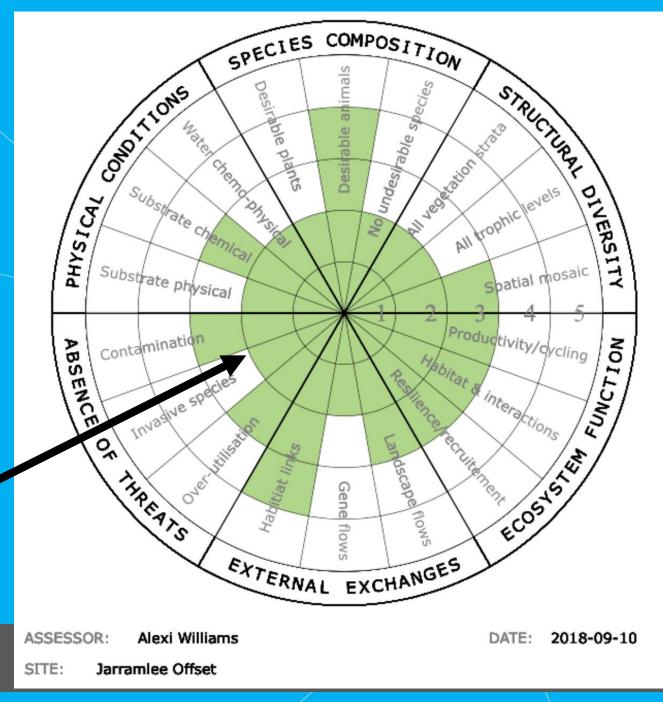
-Increase the Golden Sun Moth habitat from 32 ha to 48 ha

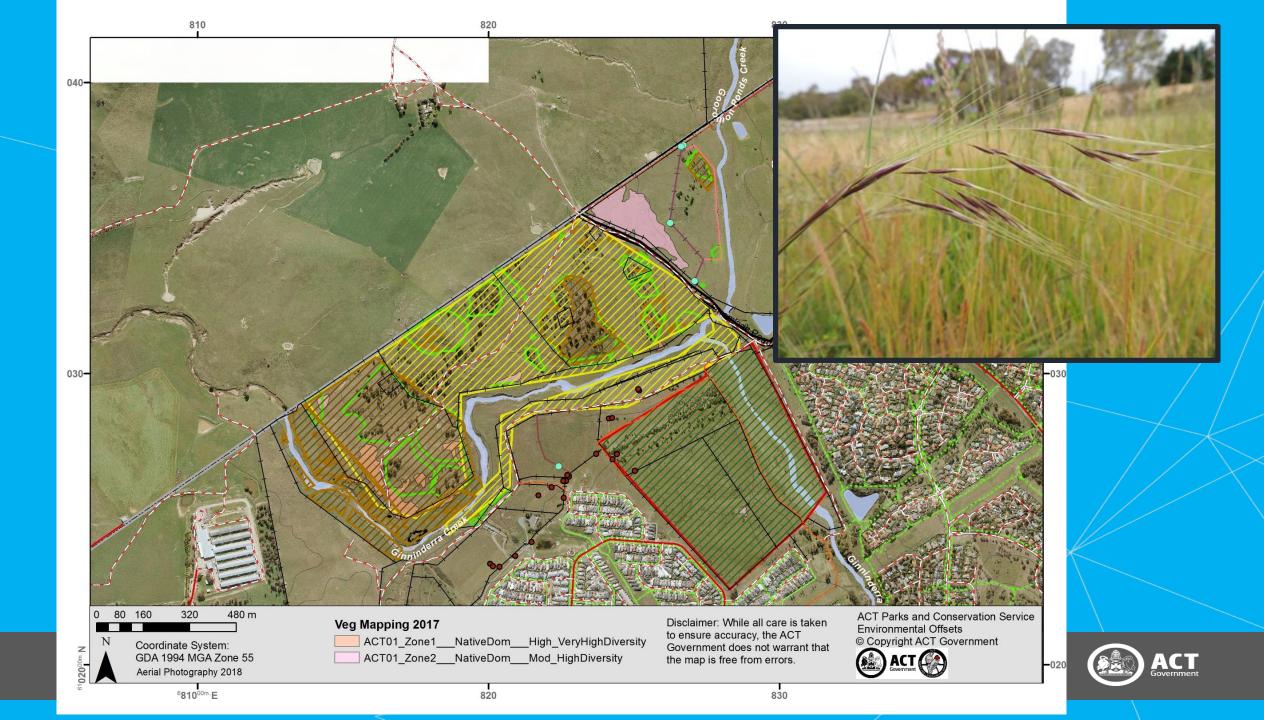
-Improve connectivity to link surrounding sites so as to increase the total



### Society for Ecological Restoration Standards Recovery Wheel

#### **Major Threat – Invasive Species**

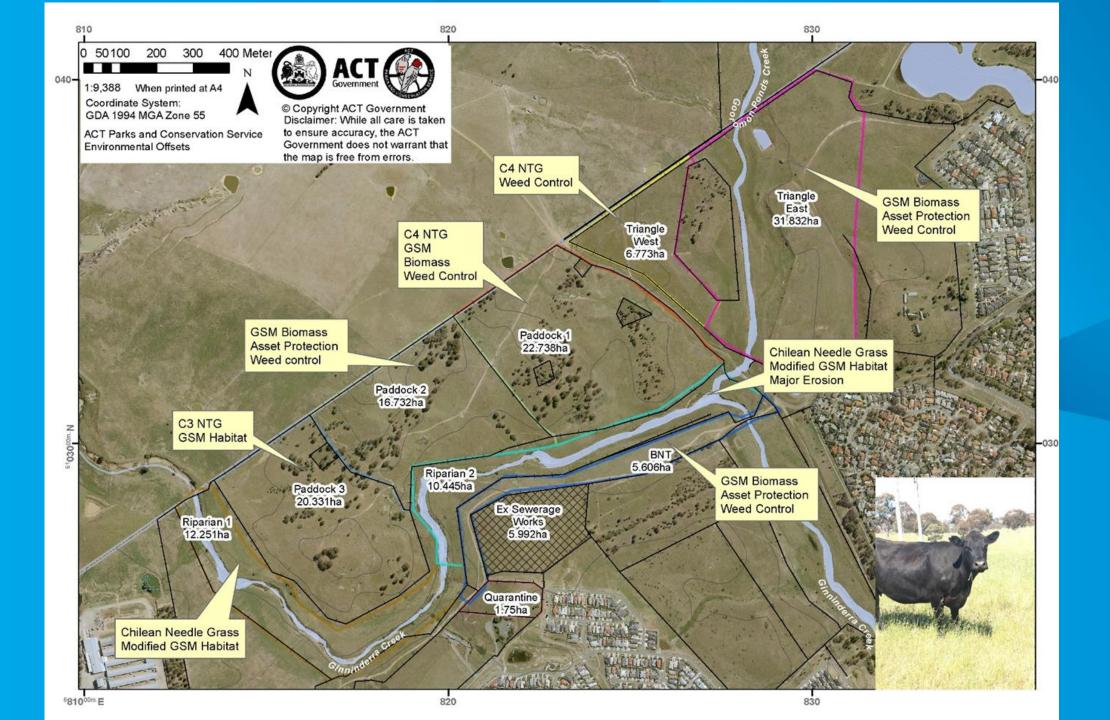


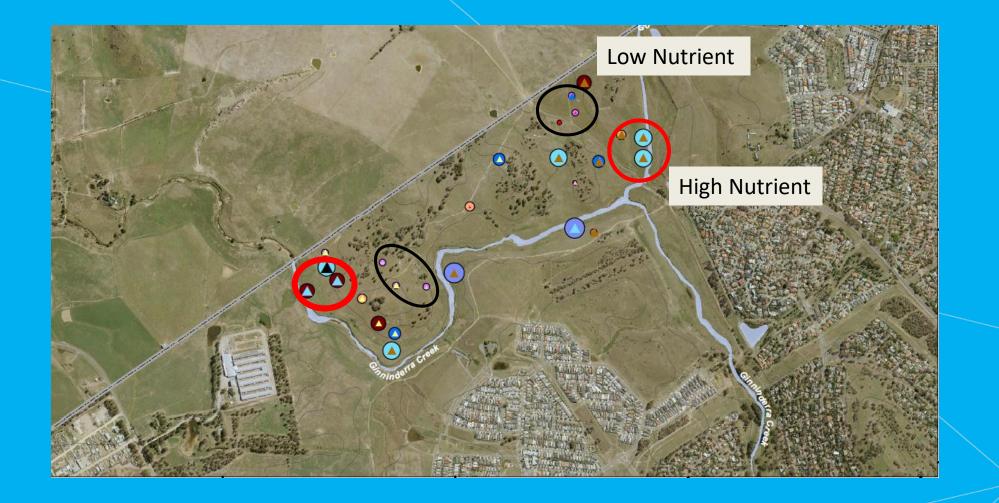


#### **Grazing management (well researched, simple and cost effective)**











## **SITE TRIAGE**

- Soil
- Vegetation Monitoring
- Disturbance History
- Weeds
- Patch Size
- Corridor Connectivity





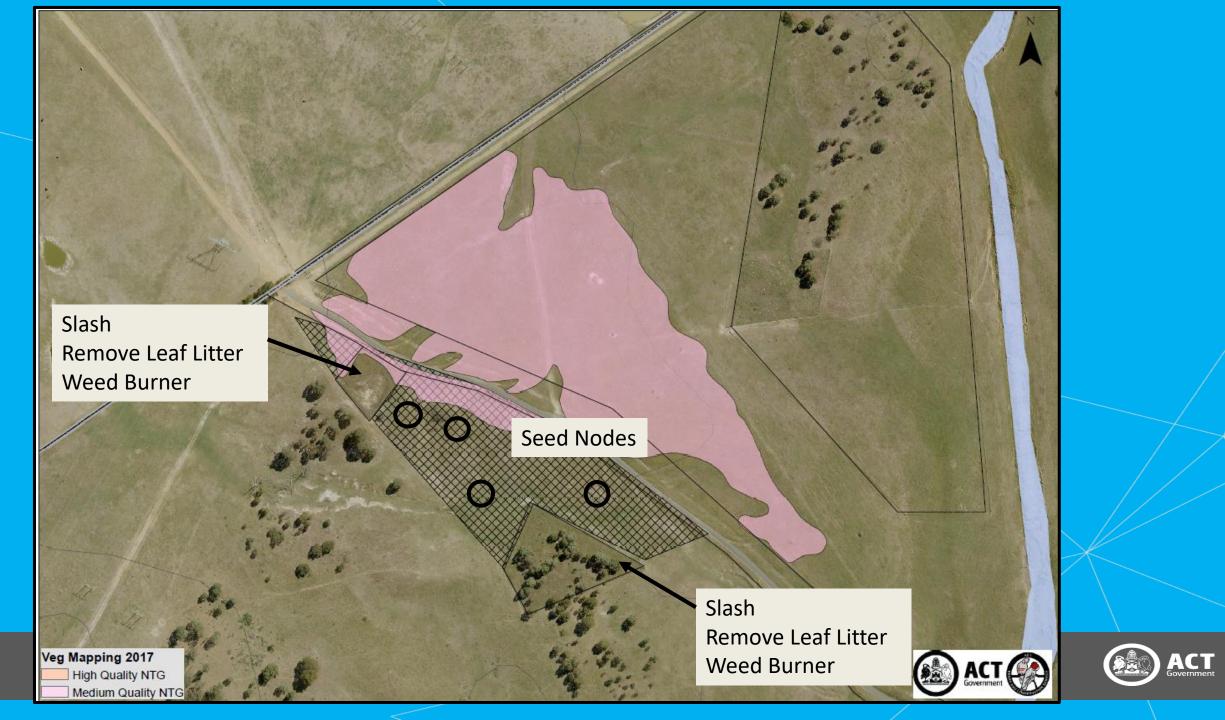






# **Using the Weed Burner**









### What have we learnt about solving complex restoration puzzles?

