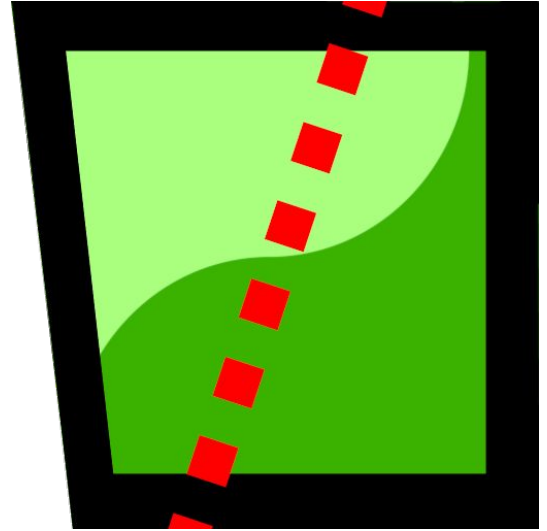


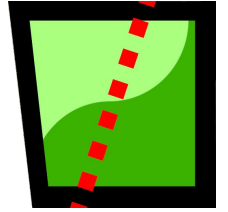
# Paddock Power

*Interactive rangelands  
cattle property science*



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# Acknowledgements



Quick credits for this work in progress:

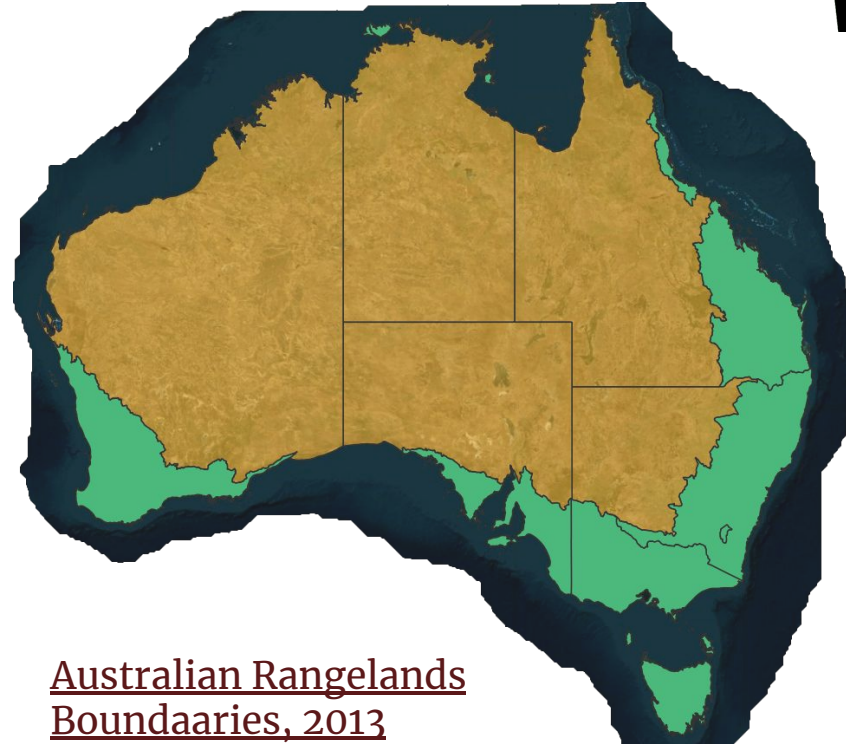
- Ideas and science: Dionne Walsh of Range IQ (among others)
- Guidance and sponsorship:
  - Northern Territory Department of Industry, Tourism and Trade (DITT) at the “Berrimah Farm”
  - Meat & Livestock Australia
- QGIS developers!



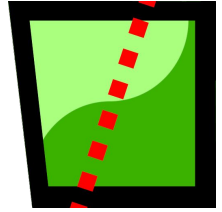
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# What's a "rangeland"?

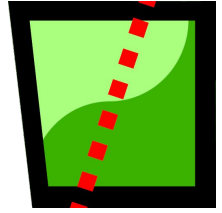
“The rangelands are those areas where the rainfall is too low or unreliable and the soils too poor to support regular cropping. They cover about 80% of Australia and include savannas, woodlands, shrublands, grasslands and wetlands.”



Australian Rangelands  
Boundaries, 2013



# “Unproductive” country

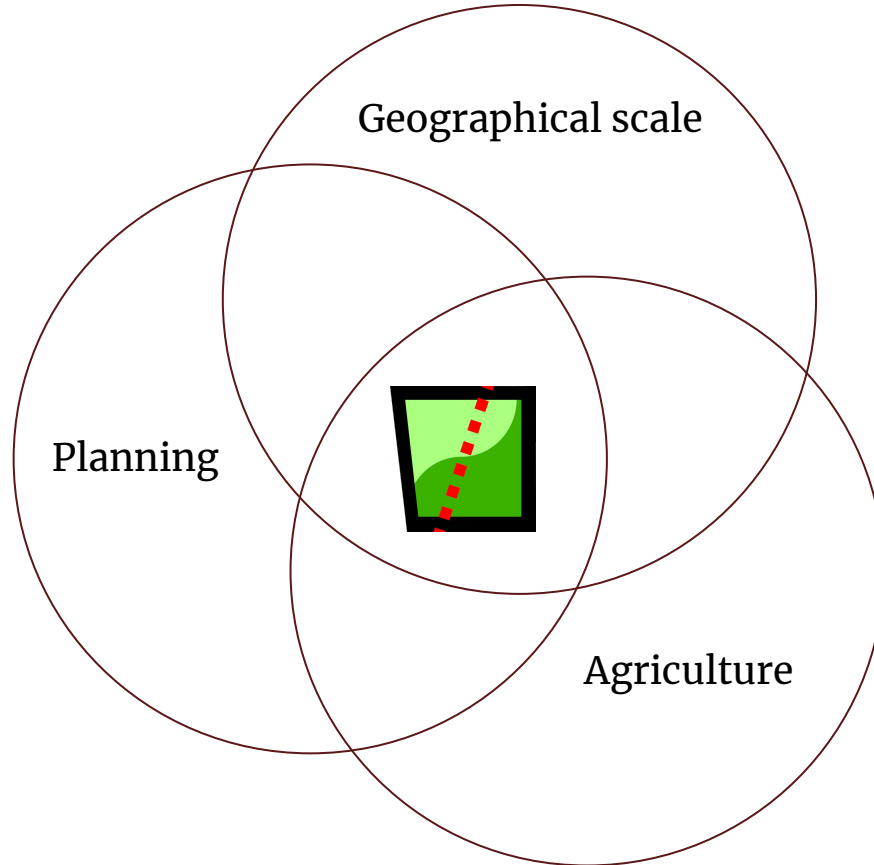
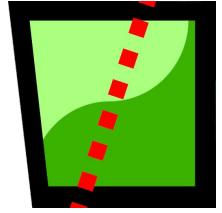


Because it's not possible to farm according to conventional techniques, different rules apply.

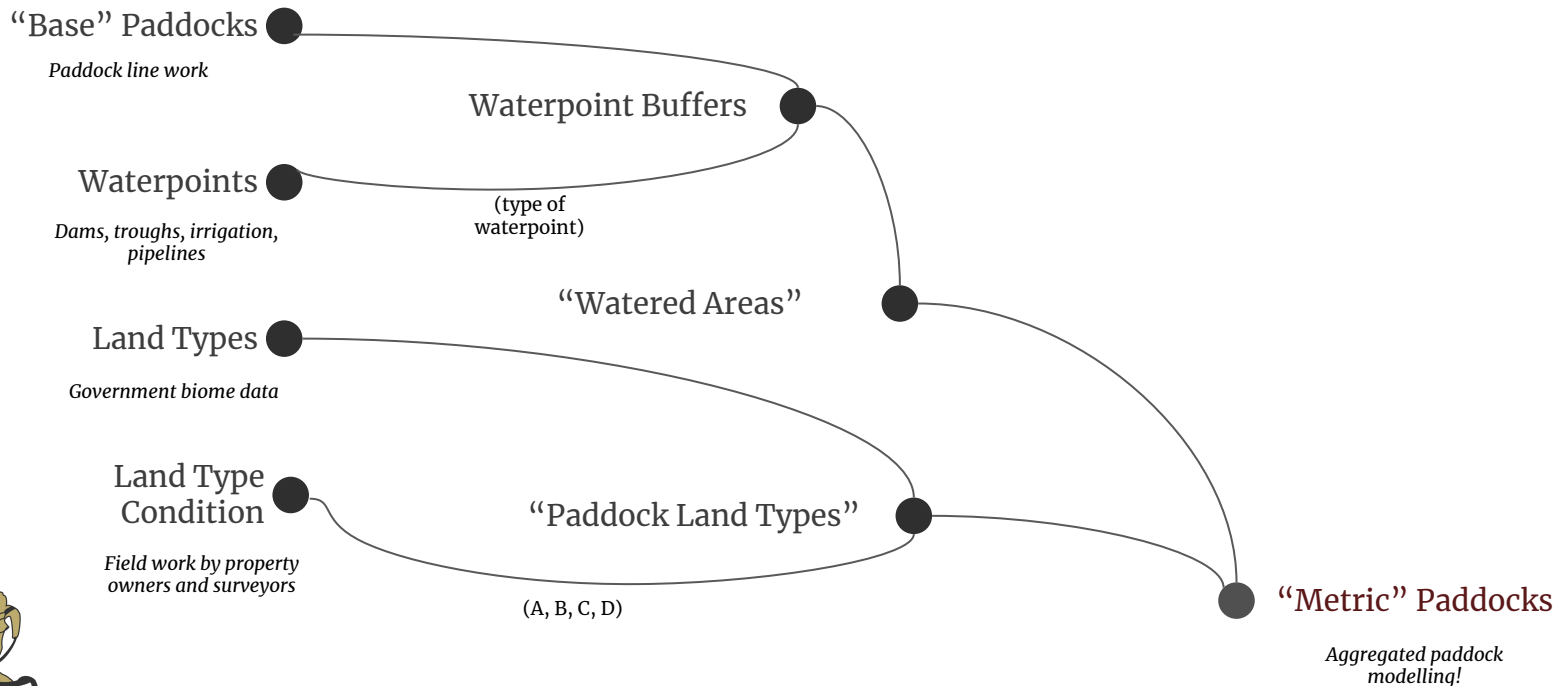
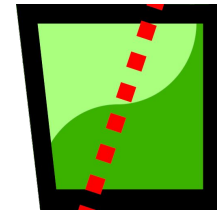
- “Properties” (not farms!) are up to or more than 10,000 square kilometres
- Cattle are mustered only a handful of times a year (by helicopter)
- **Infrastructure costs** can be high:
  - Fences and pipelines many kilometres long
  - Water scarce and requiring thoughtful investment

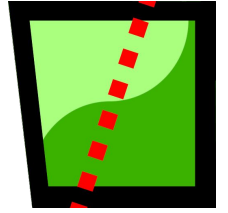


# A geography-scaled planning problem



# The GeoPackage “drive train”



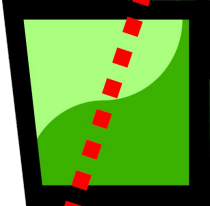


Cut to demo ...



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# Questions



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