

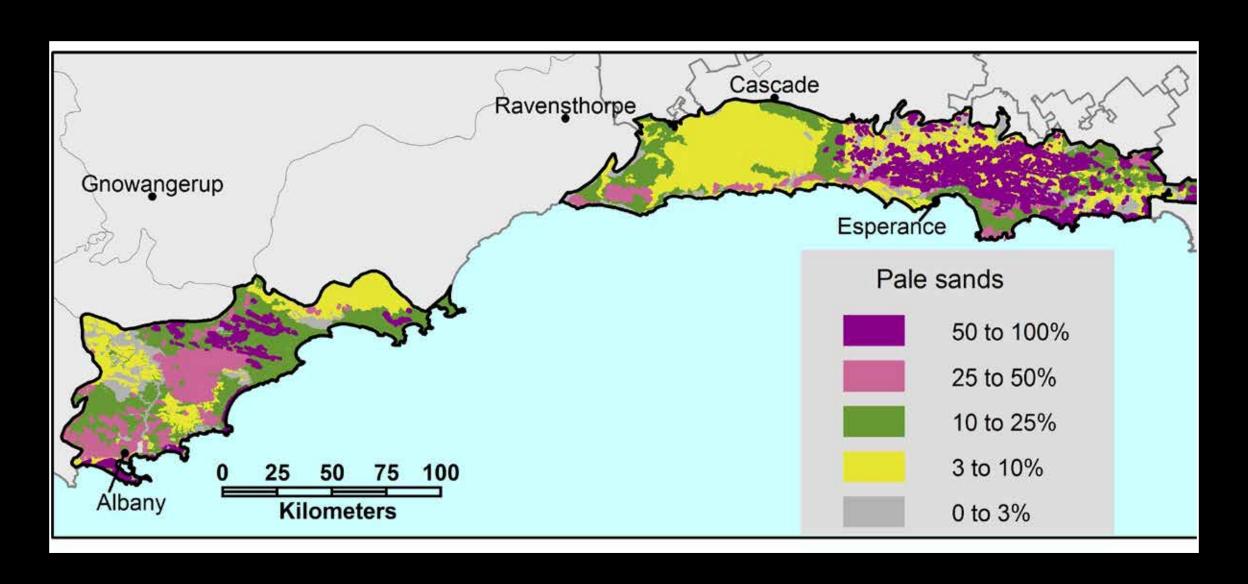
## Quenten Knight AKA- Quokka

## Location and rainfall





### South Coast Sandy Soils



## Pale Deep Sands (Fleming Sands)

- Quaternary to Tertiary-aged aeolian (wind blown sands) typically deep, acidic and nutrient poor.
- Formed between 2.5 and 23 million years ago.
- Deeply weathered lateritic profiles and granite basement rocks, over millions of years, intense chemical weathering stripped nutrients and left behind silica-rich sands.
- Wind blown deposition during drier climatic periods forming vast sand plains.
- Marine influence, some sands have origins from ancient coastal dune system deposited when sea levels higher.
- Fluvial and Colluvial influence from ancient rivers and gravity.

#### Constraints

Non wetting

Compaction

Acidic

Low potassium

Low CEC

Low water holding capacity

High wind erosion risk





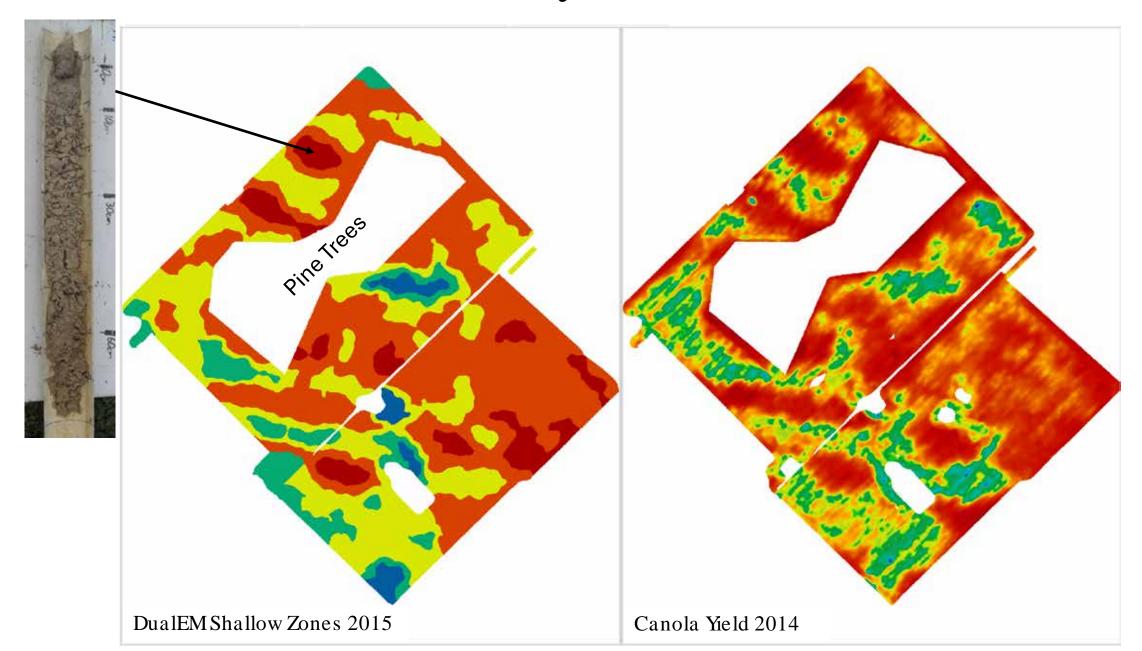




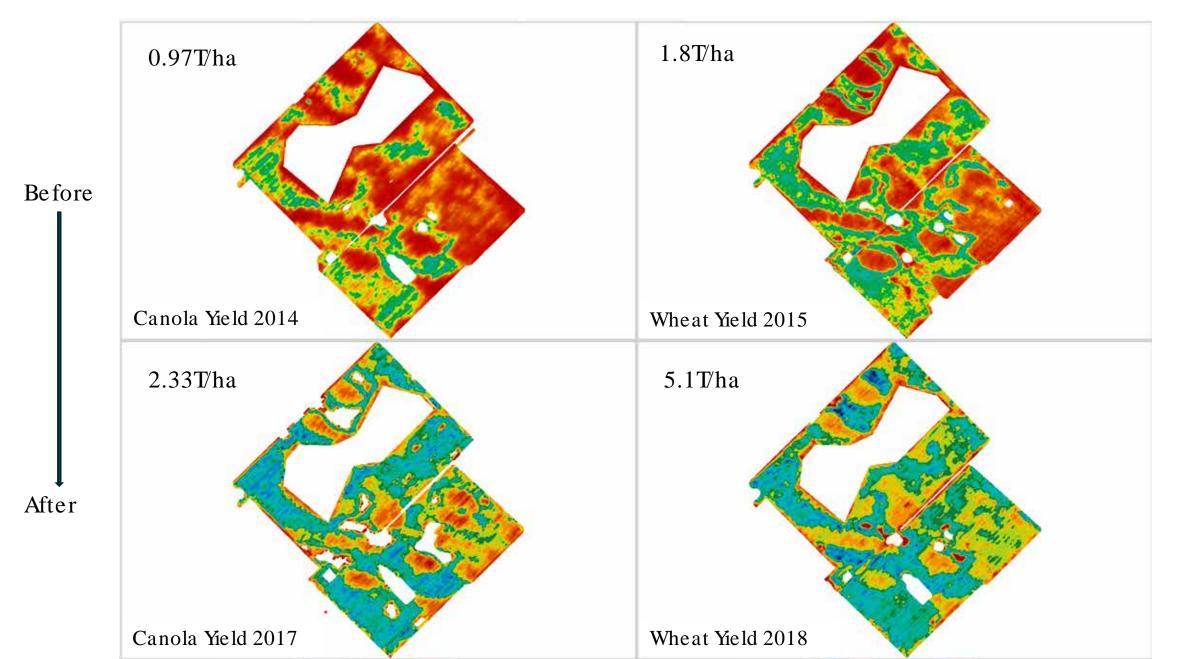
Amelioration putting it into practice



## EM soil zones vs yield before amelioration

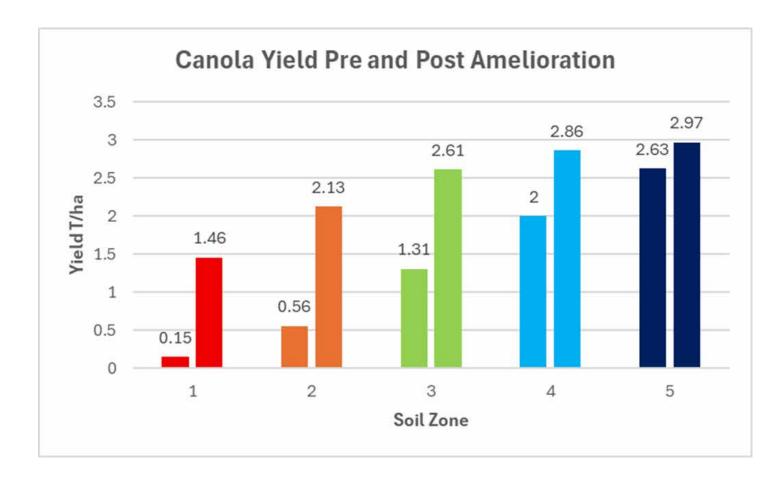


## Clay, Deep Rip, Spading, Lime, Potassium (2016)



# Shao Lu 37 Canola Yield 2014 Shao Lu 37 Canola Yield 2017

### Canola Yield



# Shao Lu 37 Wheat Yield 2015 Shao Lu 37 Wheat Yield 2018 3 60 B RS + 8 W = 5 M 60

### Wheat Yield

