Soils, Moisture, Plants and Technology Project

Strategic farming practices for soil, catchments, water and climate resilience





Thank you











The who and why of the project





- To support local Landcare groups and members
- To trial new technologies
- To look at old techniques for new situations
- To share the outcomes of the trial

- To improve agricultural practices and share knowledge
- Support Landcare networks
- Has the specialist expertise needed for the trial



- Strong interest in regenerative agriculture
- Improve soil carbon
- Improve the farm for future generations



The who and why of the project













The who and why of the project



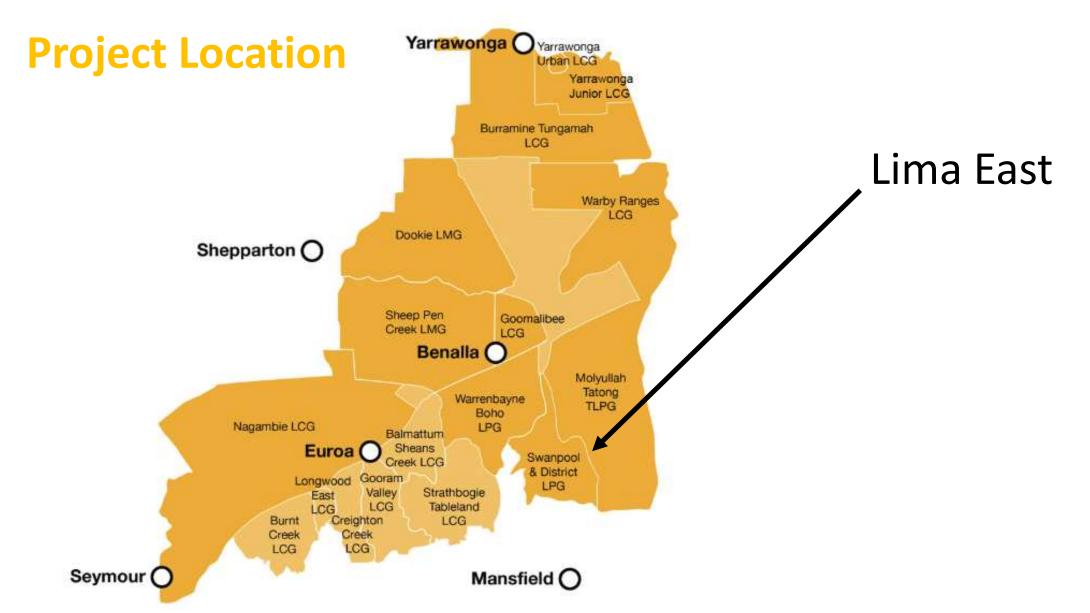




Supported by:

Seed suppliers – AGF Seeds and Smythe Seeds
Technology supplier – Phil Whitten of Farm Monitoring Solutions
Contractors for spray out, seeding and lime spreading







Project Location





Project Location

Treatments

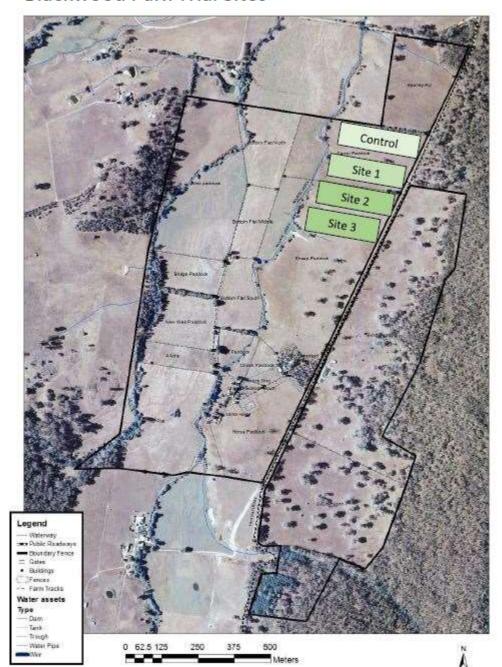
Control – Existing Pasture, no ripping

Site 1 – Radish and Oats, no ripping

Site 2 – Radish and oats, with ripping

Site 3 – Exiting pasture, with ripping

Blackwood Park Trial Sites





Site Preparation

Treatments

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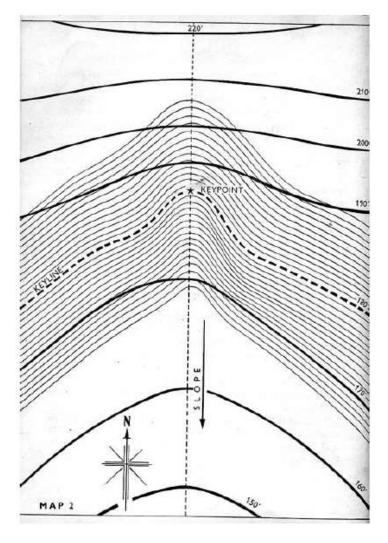
Yeomans plough for deep ripping



https://www.youtube.com/watch?v=DaBALER8Ues&feature=youtu.be

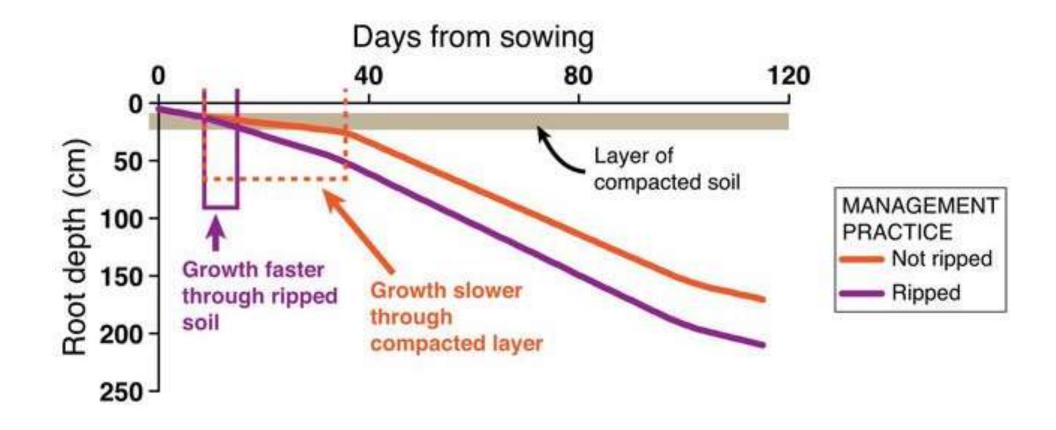


Using the Keyline





Using the Keyline plough for ripping





Technology used on the site



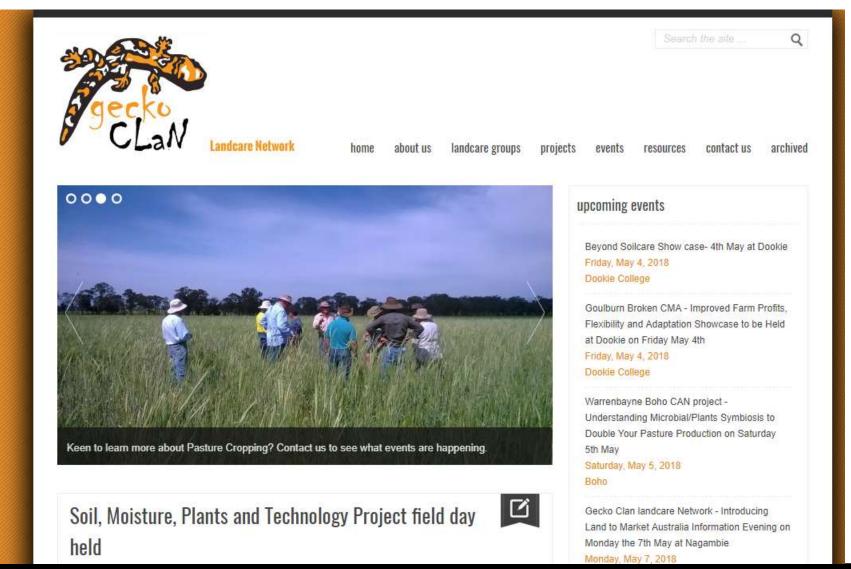


Technology used on the site





All data available through: www.geckoclan.com.au





Soils

The key problem being addressed. Concrete in summer – Porridge in winter







Soils

Surface soil sampling does not pick up subsoil constraints.







Soils



Prior to ripping or treatments for subsoil improvement it is important to understand your subsoil first.



Plants

Tillage Radish and Saia Oats were planted in two of the trial plots.







Plants

Chris Walsh from AGF seeds provided advice on the tillage radish and presented at the Field Days.

Advice is to now plant earlier in the season.

We seeded in late May 2017







Better plant response observed in the unimproved pasture ripped plot compared to the control











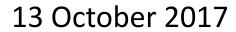
The radish and oats performed well

Early plant height observed in the ripped plot















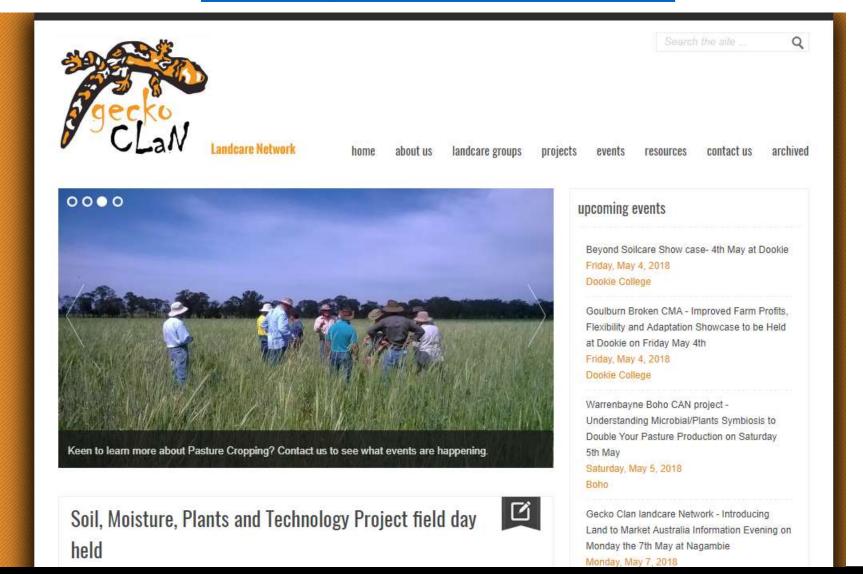
Drone footage of the trial site





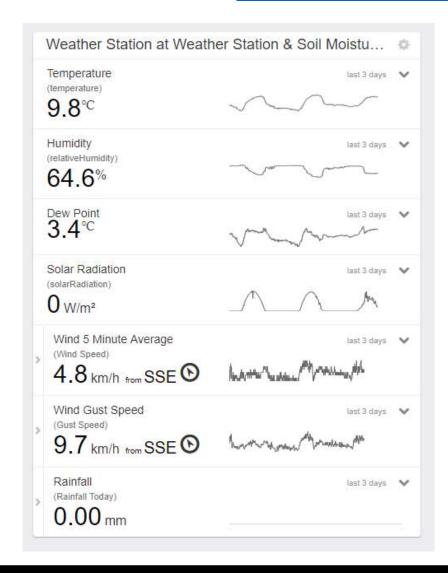


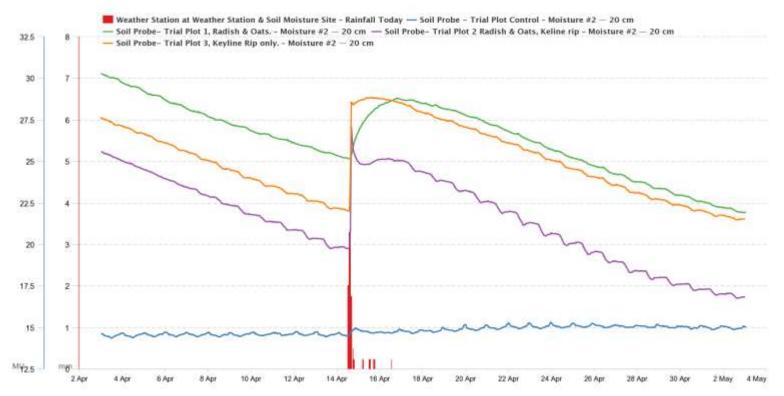
Results at www.geckoclan.com.au





Results at www.obsrv.it via www.geckoclan.com.au







Sharing the results and lessons

- 2 Field days held
- All information and data available through website or via Kerri
- Gecko CLaN continue to support data collection and monitoring at the Lima East trial site







What's next

- Gecko CLaN hopes to establish additional trial sites across the region
- Continue to explore the use of new technologies to support farmer decision making
- Continue to focus Climate Resilient Sustainable Agriculture
- Next Gecko CLaN field day on 18 May 2018 in Tatong with a focus on stock handling



What's next



Continue to:

- Improve the soil
- Improve biodiversity
- Improve productivity

...for the next generation

