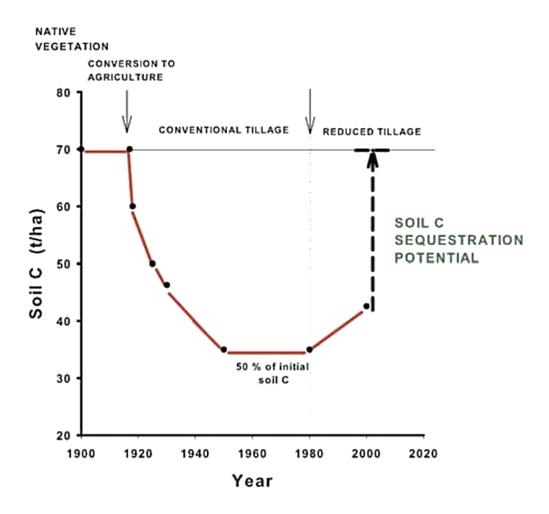


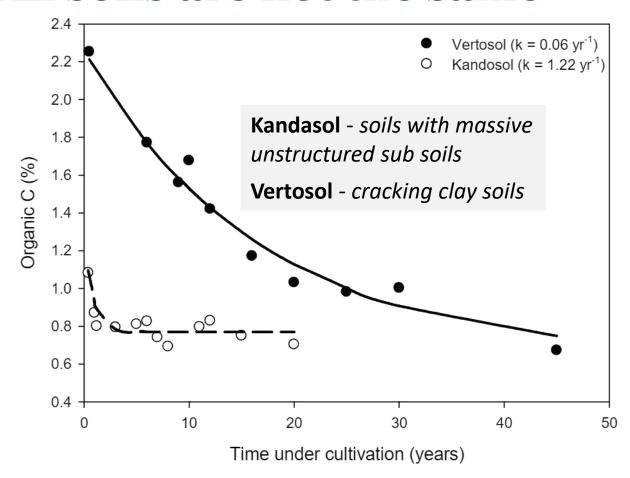
- A long and proud history of understanding our soils
- Where are we now?
- What is the national opportunity in soils?
 - o In regenerative agriculture?
 - o In negative emissions?
 - o And do we separate the two?







All soils are not the same



Globally in the last 200-250 years, SOC has gone from 4-5% in cropping and pasture land to 1-2% **AND IS STILL FALLING.** This is not sustainable.



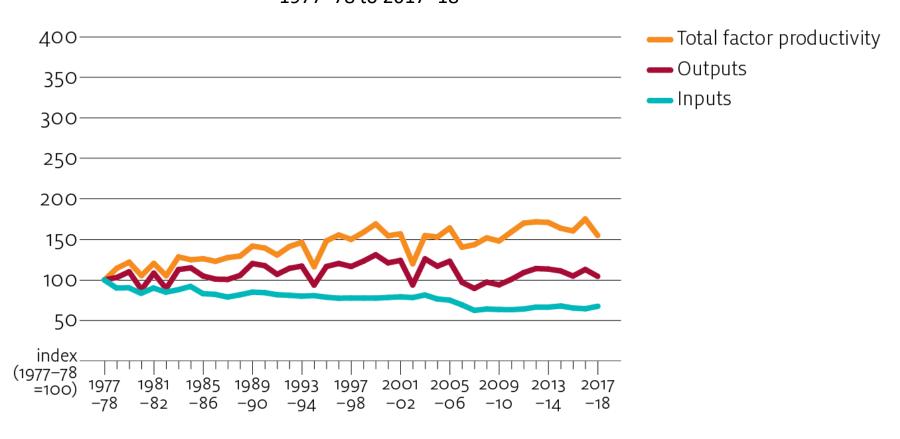
In the past ~million years, 2.3T tCO2 has come out of the earth and gone into our air and our water systems



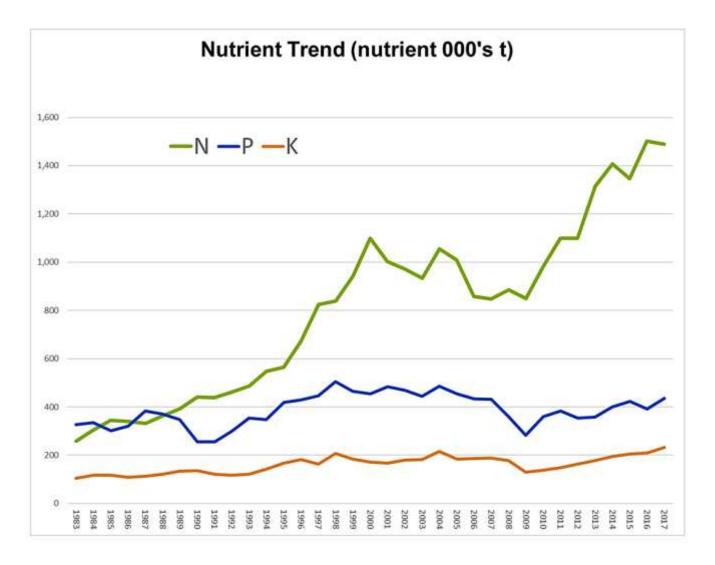


Productivity is not increasing

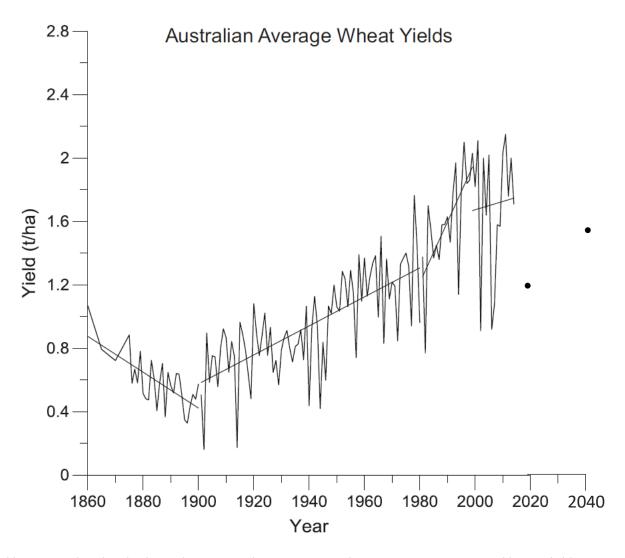
Total factor productivity, output and input, all broadacre industries, Australia 1977–78 to 2017–18











Sources:

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- CSIRO-Australia wide Graincast™ wheat yield forecast, 1 December 2019. https://research.csiro.au/graincast/wheat-yield-forecasts/
- The Conversation: Changing climate has stalled Australian wheat yields: study. https://theconversation.com/changing-climate-has-stalled-australian-wheat-yields-study-71411



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