Brief introduction of two sites at Alice Springs for TERN project

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Two sites indicated on GoogleEarth
Sites Characters

- Located ~200 to 300 km north of Alice Springs
- Two sites are ~100km apart
- Two sites differ in depth to ground water with gradient North to South
  - Site One - ~ 3 - 6 meters to ground water
  - Site Two - ~ 40 meters to ground water
- River bed adjacent at both sites
- shots of riparian zone
- The rivers are dry most of the year for most years
- Ground water moves slowly from N to S
- Sides of the rivers – populated by River Red Gums (Eucalyptus camaldulensis)
- Away from the rivers – covered by Mulga (Acacia Aneura)
We want to look at responses of

- CO$_2$ and H$_2$O fluxes
- Vegetation
- SOC, C and N turnovers
- Dynamics of soil microbe community

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to the pulses of rain, ground water availability and season changes
- We just complete lab test of our 1st EC system
- A test run at Richmond (60 km west of Sydney) for next 2 months along with a Scintillometer and 2 Bowen Ratio systems
- System will be deployed to Alice Springs in Sep/Oct