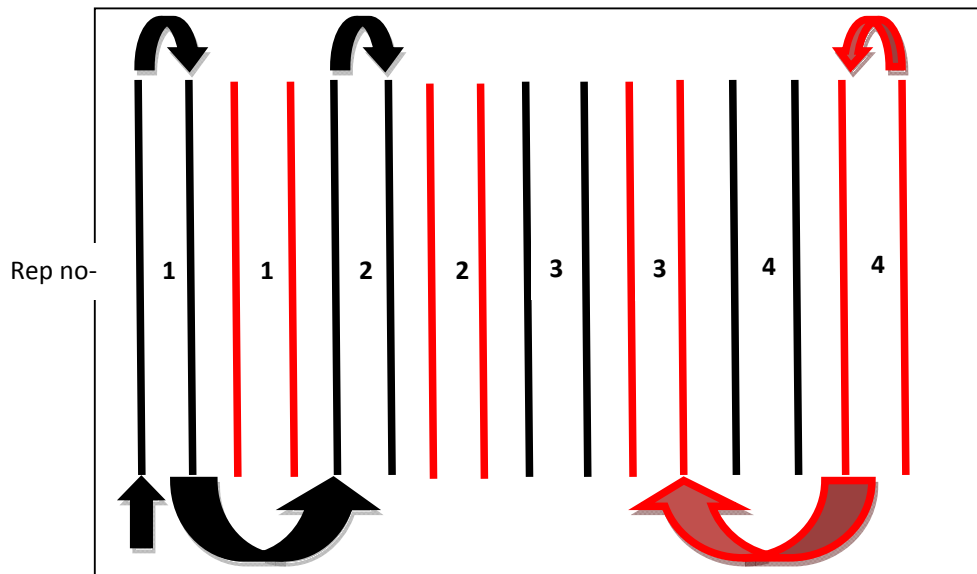


## The Atze Model for Paddock Scale Trials



In 2009 Barry and Tim Atze, Pinnaroo, SA, set out to trial the Biological Farming System against their conventional practices. In comparing the two, Barry set up a trial design aiming to compare two treatments within the one paddock. We have labelled this the Atze model.



*Figure 1: The Atze trial model. Replicated trial design through utilisation of GPS guidance technology. One pass up and down the paddock represents one replicate. An appropriate distance was left for the second replicate to be sown in between*

Through utilisation of GPS guidance systems the paddock was firstly sown with the biological treatment up and down the paddock (Figure 1). An appropriate width determined by the GPS allowed the conventional system to be sown in between. Creating a number of replicates that could be analysed across the paddock.

The Atze protocol has been recognised as a new connection between the farmer and the researcher as it's a very practical, easy to implement trial method which allows for soil variations throughout the paddock.

### **The 2009 trial treatment and results:**

Replicate 1: The biological treatment used 12 L/tonne seed of BioLogic SureCrop VAM as a seed treatment and was sown with 30 kg/ha of 19:13:0:9 with the addition of 10 kg/ha of BioMAX Soluble Humate Granules. Replicate 2: The conventional treatment had no seed dressing and was sown with 60 kg/ha of 19:13:0:9. Replicates were harvested and weighed using Barry's truck and trailer. Wheat (Axe) was grown in the trial.

The result was a 17% yield increase in the biological treatment, Rep 1. Grain samples from both treatments went APWI and test weight, protein, moisture and screening levels were comparable.