





LOCATION:

Bloomsbury, around 90km

north-west of Mackay



BACKGROUND

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PARTNERSHIP FARMING **SKIP ROW SYSTEM - INVOLVES**

FOCUS ON

and the Whitsundays. Scott helps to manage around 620 and the rare jungle perch, and flows into Repulse Bay Scott and Maria Simpson live on a farm near Bloomsbury, partnership farms. hectares of cane which is a mix of self-owned, family and beautiful O'Connell River, which is home to big barramundi around 90km north-west of Mackay. It is bordered by the

MAGE 1

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CONTROLLED TRAFFIC FARMING SYSTEM

PLANTING THE NEXT

A FALLOW ROW (STILL 1.9M) BEFORE **ROW OF CANE AND THEN LEAVING OU** PLANTING (DUAL ROW) THE FIRST 1







individually. of adopting new management practices economic challenges and deficiencies partnership helps overcome the involved in Project Catalyst). The and Simpson farming entities (all services of the Jeppesen, Considine bringing together the equipment and and was formed in the early 2000's Catchment Precision Services (OCPS) The partnership is called O'Connell

one.

explained Scott. same height for uniform set depth," beds to make sure the soil is all the use a trowel implement to smooth the a bed renovator and sometimes we sprayed out and we go through with a legume fallow. "The legumes are is grown in mounded beds following navigation GPS guidance. Scott's cane controlled traffic farming system using 2cm Real Time Kinematic (RTK) satellite OCPS settled on a dual row 1.9 metre

water off the blocks. compacted wheel tracks can channel shape with excellent infiltration, the system leaves his cane bed in great tracks as, while the controlled traffic Scott also lightly cultivates his wheel

the savings on inputs. This gives

us economic and environmental

advantage" he said.

the identified input needs. accordingly to each paddock based on (EM) mapping, and rates are applied on soil tests and Electromagnetic the property. Application is based prescription nutrient blend made for Nutrient management is done with a

dispersion.

plant legumes in fallow blocks. knockdowns and a bean planter to management strategy, and utilise more sprayer unit to change their chemical have purchased a 6-row shielded high clearance spray equipment. They controlled traffic system, to help modify help complete the transition to a GPS Scott and OCPS have utilised funding to

RIAL OVERVIEW

health, there are still issues around cane and aim, in time, to improve soil helped to break the monoculture of new management practices that have While Scott has been able to adopt input management that he and

NATIONAL LANDCARE PROGRAMME (NLP) FROM THE AUSTRALIAN GOVERNMENT BY REEF CATCHMENTS, THROUGH FUNDING SUPPORT FOR THIS PROJECT IS PROVIDED

> row (still 1.9m) before planting the next such as planting, fertilising and cane and then leaving out one 'fallow' planting (dual row) the first 1.9m row o improving efficiency. This involves harvesting by reducing inputs and reducing the costs of big operations improvement will focus on return and OCPS are keen to improve. Areas of

area and has now planted sugarcane during the first cycle. In the second majority of land preparation happens and fallow rows will alternate but the Simply put, each crop cycle the cane plant legumes into the old cane rows straight into the skipped rows, and block fallow; instead he will plant system will end the need for a whole included bulk density, slaking and conducted in this rotated area: testing testing from deep cores has been into those rows in 2015. Physical soil has planted soybeans into his skipped replanting into the fallow rows. Scott no land preparation is expected before and subsequent skip row crop cycles, after harvest. Scott says he hopes this planted with a legume crop each year entire crop cycle and if possible will be up. The fallow rows are retained for the **Image 1** shows Scott with a skip row se

OUTCOMES TO DATE Ć

speed which reduces stool damage. Other advantages are a reduction in larger cane requires a low harvester 2008 and after a successful harvest expected that the legumes in the fallow reducing costs and soil losses. It is cultivation required before planting ratoon in the second cycle as the that the skip row will yield an extra He is happy with the trial and hopes added another 5 hectare plot in 2009 Scott established his first plot in

> Scott has noticed a big reduction rows will fix nitrogen in the soil and chemical application. This efficiency in harvesting, nutrient in farm inputs and improved With only half the area planted, first ratoon of the second cycle. required in the plant cane and potentially reducing nitrogen benefiting the current crop and

up we do especially well, as the big advantage with the skip is Scott feels that there is no "When the price of fertiliser goes returns to the farming entity. significant impact on economic nutrients, water and sunlight with reduced competition for than conventional blocks planted the cane grows larger While only 50% of the block is conventional block. herbicide applied compared to

only half of the fertiliser and gives water quality benefits, with

easier to harvest as the row is of income from the crop before conventionally planted cane. additional ratoon compared to to retain skip row blocks for an and as a result Scott expects speed reduces stool damage, speed is slower with a higher clearly defined, and the harvester requiring replanting. This will allow one extra year pour rate. The slower harvester The skip row planted cane is

Economic analysis by DAF QLD conventional block, Scott will more than 21% below what can of the skip row does not drop shows that so long as the yield reach break-even. be reasonably expected from a

