



THE IMPLEMENTATION OF FREDD TO OPTIMISE INBOUND CANE SUPPLY CHAIN

CASE STUDY

WHAT WAS THE PROBLEM:

The inbound cane supply chain for three distinct sugarcane mills was quite inefficient, causing delays and unnecessary costs. There were vehicles parked, doing nothing, and drivers wasting time, which resulted in high-cost operations. It was necessary to optimise the linkages between cane harvesting and transport to improve throughput.

HOW WAS IT SOLVED:

The designated carrier for three distinct sugarcane mills utilised the FREDD system, a world-class inbound cane supply chain tool. The aim of this tool was to optimise the linkages between their cane harvesting and transport, thus improving factory throughput. The team conducted simulations which showed that the fleet size could be reduced by 11 vehicles, while minimising inefficiencies and improving the overall operation. Change management was implemented by means of a team that was put in place to assist with improving the situation.

WHAT WAS THE OUTCOME:

With the implementation of FREDD, a typical sugar mill was able to reduce their fleet size from 40 vehicles down to 29, improve the availability and efficiency of the fleet, and reduce cost. They also reduced the number of no cane stops in the factory and controlled burn to crush delays. The implementation of FREDD also created a common goal among the staff, and it became a great continuous improvement tool to do more with less. The team was able to reduce the cost of operations while increasing overall efficiency and productivity.

Key Takeaways:

1. 27% fleet reduction
2. Cane stops improved by 99%
3. R17.8m benefit @3 years
4. R78m benefit @7 years
5. 170% return on investment

FREDD Delivered:

Agri + Mill + Haulier (With assistance from FREDD)
= Reliable supply of cane

Click [HERE](#) to watch the Youtube video on the implementation of FREDD.