Financial Business Case

Banlaw's Unified Management delivers multiplying productivity gains by implementing optimal fuel management systems and services throughout mine sites. Each element magnifies the effects of the others.

⁵ Assuming 300 operational days / year / machine

Saving Time			Saving Money			ROI		
Number of Haul Trucks	1	20	Number of Haul Trucks	1	20	Number of Haul Trucks	1	20
Average fuel tank size ¹	7,005	7,005	Machine running cost / hr ⁴	\$2,111	\$2,111	Refuelling locations upgraded	1	3
Proportion required to top up	70%	70%	Reduction in cost of idle machinery / yr	\$117,239	\$2,344,773			
Amount required to top up ²	4,904	4,904				COSTS - Hardware + FMS Upgrade Costs	\$65,000	\$195,000
Old fuelling speed	400	400	Fuel used by machines per year ⁵	1,471,050	29,421,000			
New fuelling speed	800	800	Proportion of fuel use reconciled before Banlaw engagement	80%	80%	BENEFITS - productivity, rebates, leakage reduction	\$219,182	\$4,383,649
Old minutes to fill	12	245	Proportion of fuel use reconciled	95%	95%	Payback		
Old process/paperwork time	4	80	after Banlaw engagement					
Old total refuelling time	16	325	Reduced leakage from identified equipment and security issues	1.00%	1.00%	Days to payback	108	16
New minutes to fill	6	123	Fuel tax credit rebate value / litre	\$0.39	\$0.39	Weeks to payback	15	2
New process/paperwork time	1	20	Assumed site wholesale cost / litre	\$1.05	\$1.05	weeks to payback	13	2
New total refuelling time	7	143		Months to payback	4	1		
Fuelling time saving / day	6	123	Total Machine Idle Cost saved / yr	\$117,239	\$2,344,773	World's to payback	4	
Automation time saving / day	3	60	Additional Fuel Tax Credit claims enabled / yr	\$86,498	\$1,729,955	Note: All numbers are litres and australian dollars. Fuel cost inclusive of excise, freight and charges		
Total minutes saved / day	9	183	Value of fuel where leakage or theft	\$15,446	\$308,921	 Cat 797 s or c model, komatsu 860 and 890 Model assumes machines are filled just one time per day Would you like a free haul truck running 24/7 for over a month? Machine running cost is operator + fuel and maintenance costs. It excludes the productivity gain from having this machine in the pit rather than waiting around. Smaller trucks can be valued closer to 1000 p/h 		
Machine idle hours saved per year	56	1,111	is mitigated / yr	\$15,440	4500,521			
Machine idle days saved per year ³	2	46	Monetary benefit from Banlaw upgrade / yr	\$219,182	\$4,383,649			