Levels achieved relate to CTPM's 5 Level Milestone CI Excellence Award established in 2002 to assist sites to achieve Operational Excellence

The following information has been reported in the public domain (eg CTPM CI Forums) and hence can be shared. Our clients have also achieved many more substantial gains which for confidentiality reasons cannot be reported.

<b>Company and Source</b>	Timeframes	Publicly Reported Outcomes
<b>Current Clients</b>		
ArcelorMittal Tailored Blanks Edinburgh SA 40 personnel	Commenced June 2008  Level 1 – March 2009  Level 2 – February 2010  Progressing	60% increase in OEE
<b>B&amp;D Doors &amp; Openers</b> Kilsyth VIC 100 personnel  CTPM E-News Publication January 2012	Commenced October 2010  Progressing	<ul> <li>Results from an improvement team in 2011:</li> <li>\$63,000 p.a. saving from increasing Productivity by 20% on roller door line</li> <li>\$27,000 p.a. savings from reduced Scrap losses</li> <li>Continuous improvement and problem solving now a part of the way we work</li> </ul>
B&D Doors & Openers Revesby NSW 100 personnel  Nat Operations Mgr Forum 2010  CTPM E-News Publication November 2010 and October 2012  Operations Mgr Forum 2011	Commenced February 2009  • Level 1 – July 2011  Progressing	<ul> <li>At time of Level 1 Verification Assessment in July 2011:</li> <li>In excess of \$400,000 in savings identified after 4 cycles</li> <li>Improved cross-department interaction and communication</li> <li>Higher skilled workforce with reduced frustrations</li> <li>More visual factory</li> <li>Significant cost reductions in the site waste / recycling initiatives</li> <li>Reduction of downtime across all lines by implementing OEM</li> <li>New Area Management Team expanded usable floor space</li> <li>Production &amp; Maintenance now working as one</li> <li>2 Operators and 2 Teams have been nominated for the National B&amp;D OHS Awards</li> <li>17 Students have completed Cert III in Competitive Manufacturing</li> <li>5 Students have completed Cert IV in Competitive Manufacturing</li> <li>At the 2012 Forum, a Cross-functional Team focused on Energy Reduction reported:</li> </ul>
		<ul> <li>19% reduction in High Bay Light energy cost</li> <li>17% reduction in site electricity usage</li> </ul>

Levels achieved relate to CTPM's 5 Level Milestone CI Excellence Award established in 2002 to assist sites to achieve Operational Excellence

Company and Source	Timeframes	Publicly Reported Outcomes
Buildex Moorabbin VIC	Commenced February 2011	Results from "Alloy Plating Wizards" improvement team in 2011 focused on Alloy Plating:
130 personnel	Progressing	• 5% increase in OEE resulting in \$184,000 of extra product processed each month.
CTPM E-News Publication June 2011 and August 2012		<ul> <li>Results from "Plan(T) 2" improvement team in 2011 focused on downtime on Line 3:</li> <li>OEE for Plant 2 increased from 66% to 84% in the space of four months</li> <li>Line 3 had the most significant change increasing OEE from 55% to 79%</li> <li>The area processes an additional \$158,000 of extra product / month</li> <li>Results from improvement team in 2012 focused on Heading Plating Line (HPL):</li> <li>83% reduction in line jams saving 2.2 hrs per week in lost time</li> <li>50% reduction in cleaning time / week of the conveyor plates (saving 4hrs / week)</li> <li>8% increase in OEE</li> </ul>
		<ul> <li>29% reduction in powder usage saving \$160 per day (\$39,680 p.a.)</li> <li>21% increase in OEE for the HPL Area by implementing key countermeasures from HPL 4 line to HPL lines 1, 2 and 3</li> </ul>
Cedenco Foods New Zealand	Commenced: January 2008	Over \$1m impact on bottom-line after first season
Gisborne NZ 300 personnel	• Level 1 – May 2012  Completed 14 cycles with weekly then	<ul> <li>Reduction of downtime across all lines by implementing Op Equip Mgmt</li> <li>Maintenance Work Area Mgmt Teams very successful and sustaining</li> <li>Production &amp; Maintenance now working as one</li> </ul>
CTPM Forum September 2012	fortnightly CTPM support then progressed with internal accredited personnel  Progressing	Employees are now engaged in a common goal

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Company and Source	Timeframes	Publicly Reported Outcomes
Coopers Brewery Regency Park SA 180 personnel  Operations Mgr Forum 2004  CI Co-ordinator Forum 2005 and 2009  Operations Mgr Forum 2008 and 2012	Commenced September 2003  Progressing	Reported at 2012 Forum:  23% increase in OEE in main bottling line.  Identified 6 water saving projects totalling 68 Million Litres of water per annum  13% increase in Bottling Line Ale / Stouts OEE resulting in \$243,000 p.a. savings  13% increased in Cartons per hour rate  Over 30 One Point Lessons delivered during first cycle of OEM-4 activities  78% reduction in Reject Kegs while increasing Keg Line rate by 5%  79% reduction in start-up times at Labeller Section  30% reduction in change-over time on Filler / Packer / Hop Oil Dosing  Successfully conducted 88 improvement projects  "We have involved Operations, Sales & Marketing, Supply Chain"
CTPM E-News Publication March 2012		<ul> <li>"We have made CI the way we do business, we are relentless in our pursuit for Operations Excellence where failure is not an option"</li> <li>"Our Culture has changed from being Knowledge based (expert / scientists) to being a Learning based culture – with an emphasis on analysis not gut feel"</li> <li>"Our Focus on the development of our People has resulted in a work force who now works on the business, not just in the business, and have greater enthusiasm"</li> <li>Results from "State Limit 110" Homebrew Line improvement team in 2011 focused:</li> <li>20% increase in OEE</li> <li>30% increase in line speed for most products</li> </ul>
CSR Ethanol / Sucrogen BioEthanol Yarraville VIC 20 personnel	Commenced January 2008  Progressing	<ul> <li>Saved \$187,000 in 3 months by reducing the variance of machinery</li> <li>Reduced set-up time on filler machine by 75%</li> <li>40% reduction in waste resulting in a saving of \$120,000 p.a.</li> </ul>
Operations Manager Forum 2008		

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Company and Source	Timeframes	Publicly Reported Outcomes
CSR Ethanol / Sucrogen	Commenced October 2008	Results from "The Brew Crew" improvement team in 2009:
BioEthanol		• 12% improvement in OEE
Sarina QLD	Progressing	Achievement of a higher ethanol production rate per hour
45 personnel		
CTPM E-News Publication July 2009		
Mars Petcare	Commenced August 2006	In 2008 it was reported they had achieved:
Wanganui NZ		Significant improvement in plant performance,
200 personnel	Initially with weekly then fortnightly	• 14% decrease in site energy costs from 2006 to 2007
	then monthly support from CTPM	Confidence to instigate significant upgrade to plant
CTPM E-News Publication	along with internal accredited support	
October 2008		
	Progressing	
Nestle - Mulgrave Peters Ice	Commenced June 2010	After 1 year of Prevention at Source activities using CTPM Training Material:
cream Factory		• 36% Reduction in Minor Stops
Mulgrave VIC	Progressing	• 75% improvement in Mean time Between Failures
150 personnel		6% Improvement in rate
		8% Waste Reduction
Oceania Market AM Pillar Leader		80% Skill Growth amongst teams
Forum 2011		

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Company and Source	Timeframes	Publicly Reported Outcomes
New Zealand Sugar Chelsea	Commenced Feb 2008	At time of Level 3 Verification Assessment in November 2012:
Birkenhead NZ	• Level 1 – March 2009	Lost Time Injury Frequency rated reduced from 9.8 to Zero
200 personnel	• Level 2 – July 2009	Energy consumption reduced - gas & electricity
	• Level 3 – November 2012	Improved engagement & ownership
Operations Mgr		Identified and rectified many safety risks
Forum 2009	Competed 15 cycle initially with	Significantly improved Housekeeping standards
Maintenance Mgr	weekly then fortnightly then monthly	Significant improvement in Maintenance Performance including:
Forum 2010	support from CTPM along with	Significant reduction in PM and W/O backlogs, and stock levels
Packing & Warehouse Mgr	internal accredited support	Now working in harmony with Production
Forum 2011		Maintenance Innocence to Excellence Rating increased from 34% to 84%
Team Presentations	Progressing	Significant Improvement in Refinery Performance including:
Forum 2009, 2010, 2011 and 2012		• Teams saved over \$150,000 p.a.
		Significant Improvement in Packing Area Performance including:
		• 50% improvement in Packing OEE
Norske Skog	Commenced May 2011	Results from "The SWIFTS" improvement team in 2011 focused on addressing issues
Albury NSW		with sheet widening:
200 personnel	Progressing	• Success rate for attempts at sheet widening improved from 74% (June 2011) to 92%
		(August 2011), this equates to more than \$150,000 additional contribution margin
CTPM E-News Publication		Analysis conducted increased the teams understanding of the machine
November 2011		Structured approach helped to break down large problems into smaller chunks, and
		allow tasks to be shared more evenly

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Company and Source	Timeframes	Publicly Reported Outcomes
OneSteel – Australian Tube Mills Somerton VIC 85 personnel  Operations Mgr Forum 2012 CTPM E-News Publication November 2012	Commenced March 2012  Progressing	<ul> <li>Individually training projects have yielded over \$200k in annualised savings</li> <li>Similar returns from the daily reactive problem solving</li> <li>Greater engagement from the frontline regarding the problem solving process</li> <li>Improved relationships between leaders and frontline</li> <li>An aligned process for the whole site becoming embedded culturally</li> <li>Increased accountability and ownership</li> <li>2.8% Improvement in Yield for Mill 7 = \$380k per annum</li> <li>7.1% Improvement in Availability for Mill 7 = \$105k per annum</li> <li>3.7% Improvement in Availability for Mill 8 = \$111k per annum</li> <li>Problem Solving Examples: Mill 7 Raft Encoder Reliability</li> <li>20% improvement in change over times</li> <li>Has contributed to Mill 7 Availability improvement</li> <li>Availability savings of \$20,000 per annum</li> <li>A more cohesive Electrical Team</li> <li>Reduce Wet Bore Rejects on No.8 Mill</li> <li>Reduction in wet bore losses have improved underlying yield performance</li> </ul>
		• Estimated annual benefit of over \$50,000

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Company and Source	Timeframes	Publicly Reported Outcomes
Sugar Australia	Commenced October 2005	At time of Level 3 Verification Assessment in July 2011:
Glebe Island NSW	• Level 1 – September 2008	• 100% engagement of employees in improvement teams
25 personnel	• Level 2 – December 2008	• 50% improvement in OEE across site
	• Level 3 – July 2011	• 90% increase in output
Site Manager		• 50% reduction in customer complaints
Forum 2006	Progressing	Zero lost time injuries since commencing CI
CTPM E-News Publication		• \$1.2million savings over 5 years
May 2007 and August 2011		
Site Manager		Other improvements reported at Forums
Forum 2009		• Improved industrial packaging line OEE by 180%
Cont Imp & Prod Support Team		• Improved retail packaging line OEE by 96%
Leader		• Reduced labour costs by 25%
Forum 2010		• Improved OEE across the site by 50%
Site Manager		• Increased output by 90%
Forum 2011		Reduced customer complaints by 50%
Reliability Team Planner Forum 2012		• Changeover improvement time by over 50%
Forum 2012		• Through OEM Activities; equipment operates more effectively – increased OEE;
		operators understand a clean machine makes their job easier; and learn to look and
		identify defects – normal vs abnormal
		• Teams communicate and challenge themselves in a positive manner, striving to
		achieve higher performance measures
		• Relationships between Operators and Maintenance the key to success assisting with
		defects and improvements
		• Results achieved through the CI process boost team morale, create a safer work
		environment and operator ownership of the packing lines
		• 250 SOP's and 95 One Point Lessons written
		• 100% of Glebe staff involved in CI
Sugar Australia	Commenced June 2006	At time of Level 1 Verification Assessment in March 2010:
Mackay Port QLD	• Level 1 – March 2010	• 20% increase in OEE across the site
30 personnel		Reduction in the need for casuals
_	Progressing	More ships packed
CI Excellence Award		Significant reduction in cost / kg
Forum 2010		

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Company and Source	Timeframes	Publicly Reported Outcomes
Sugar Australia	Commenced September 2006	At the time of Level 2 Verification Assessment in Dec 2011
Yarraville VIC	• Level 1 – April 2010	• \$1.2 million saving from improvements
150 personnel	• Level 2 – December 2011	In Packing Area:
		80% reduction in waste generation
CTPM E-News Publication	Progressing	80% reduction in manual lifting
June 2007, October 2011, May 2012		Significant increase in morale
and October 2012		• 50% reduction in packing variability
GM Operations		• 50% increase in packing capacity
Forum 2007 and 2008		Higher level of PM attainment resulting in better availability
		In Refinery:
		• 73% reduction in sweet waste pumped to trade waste
		• \$270,000 p.a. savings
		Other improvements reported at Forums
		• Improved in OEE of 50% in two years of implementing CI i.e. 50% more capacity
		over the 2 years with virtually zero investment.
		Results from cycle 2 improvement team in 2007:
		• 75% reduction in filler set-up time achieved by The "Set it Right" team
		• 23% improvement in OEE on the Industrial Packing Line (IPL) achieved by the "HIPPI" team
		Results from the "Return of the Moose's" improvement team in 2012 focused on the
		Industrial Packaging Line (IPL):
		• 10% improvement in % OEE, and also a reduction in the variation of % OEE due to the equipment being less contaminated
		• \$43,000 p.a. savings from the improvements
		Results from the "Change Up" improvement team in 2012 focused on the Retail Syrup
		Line:
		• 67% reduction in all changeovers
		• Learning by the team was to not only to focus on reducing changeover time, but how
		to eliminate the need for minor adjustments. The team mantra was "No Tools, Set Once".

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Company and Source	Timeframes	Publicly Reported Outcomes
Past Clients		
ACI Plastics Packaging Auckland NZ	Commenced July 2002	Workers found pride in their workplace     Coined ownership of their againment and ideas
65 personnel	Completed 6 cycles with weekly then fortnightly CTPM support then	<ul> <li>Gained ownership of their equipment and ideas</li> <li>Increased communication between shifts and departments</li> <li>Significant impact on bottom-line results</li> </ul>
CI Co-ordinator NZ Forum 2004	progressed with internal accredited personnel	
112 1 Orum 2004		
	Concluded Oct 2004 due to change of ownership	
<b>ACI Plastics Packaging / Visy</b>	Commenced February 2002	Through 6 cycles of CI:
Industrial Packaging		• Plant OEE has improved by 30%
Drouin VIC	Concluded	DIFOTQ (Delivery in Full On Time with the correct Quality) has hit 96%
35 personnel		• Output from the plant has increased by 30%
		• Injuries have been reduced by 60%
CTPM E-News Publication		• Maintenance cost reduced by 42% in 12 months (between 2003 and 2004)
February 2005 and December 2005		Increased involvement of all team members
		People who would have never dreamed of touching a machine are now competent operators and understand how they work
		• New and challenging tasks has provided people with encouragement and support to step outside their own comfort zones
		Opportunity to move forward through the organisation
		Committed leadership team, passionate about fostering the appropriate environment

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Company and Source	Timeframes	Publicly Reported Outcomes
ACI Plastics Packaging / Visy Industrial Packaging Kirrawee NSW 100 personnel  Plant Manager Forum 2002 and 2003 CI Co-ordinator Forum 2003 Team Presentation Forum 2003 and 2004	Commenced November 2001  • Level 1 – October 2002  • Level 2 – October 2002  Site moved to Minto 2004 under new ownership	<ul> <li>Increased OEE by 30% across site.</li> <li>Received highest rating from customer audits resulting in doubling of customer orders.</li> <li>Significant increase in employee morale.</li> <li>Achieved 95% engagement of workforce in improvement activities</li> <li>Improved communication among shifts.</li> <li>Reduced material losses resulting in annual savings of \$178,788.</li> <li>Reduced Tool Change Times by 53%</li> </ul>
ai Automotive Adelaide SA 300 personnel  CTPM E-News Publication August 2005 and November 2005 Chief Operations Officer Forum 2005	Commenced October 2004  Concluded June 2005 due to change of Snr Management	<ul> <li>Delivered annualised savings of over \$400,000 after 1 cycle of activity</li> <li>Improved OEE from 47% to 63%</li> <li>Improved first-class quality from 93% to 99%</li> <li>Results from "Boxheads" improvement team in 2005 focused on Style Box Cell, which produces the rear box section of the Holden Crewman Ute. 9 months on:</li> <li>Increased OEE from the baseline of 47% to the current levels of 75%-80%, which resulted in an improvement of productivity of 32 units per shift to an impressive 40 units per shift (25% increase)</li> <li>Increased Availability from 58% to 68%</li> <li>Increased Rate from 61% to 73%</li> <li>Increased Quality from 98% to 99%</li> <li>Increased Productivity from 4.96 man hrs per part to 4.05 man hrs per part</li> <li>Improvements made delivered in excess of \$250,000 p.a. back to the business.</li> <li>Better communication, cooperation and understanding between Production, Maintenance, Management and the shop floor</li> <li>Increase in morale due to less frustration as equipment was more reliable</li> </ul>

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Company and Source	Timeframes	Publicly Reported Outcomes
Company and Source  Alphapharm Carole Park QLD 420 personnel	Timeframes  Commenced June 2001  CTPM support concluded July 2003 as they had developed sufficient in-house capability to progress	Pre-cycle Strategy Review towards end of Cycle 3 in March 2002  Production  Increased coating throughput by \$600,000 within 2 months  Reduced inventory by 2/3rds  Freed up floor space (115m³)  HV Granulation team identified improvement initiatives equivalent to another 23.5hrs production per week  Packaging  Increased throughput in Blister Pack #2  Bottling Line #3 identified improvement initiatives equivalent to another 27.5hrs production per week.  Standardised set-up card systems  Introduced colour coding into bottling line areas for equipment, tools and documentation  Introduced a compactor system for label storage  Identified tool requirements, purchased tooling trolleys and cabinets  Maintenance
		<ul> <li>Maintenance</li> <li>Improved workflows in machine shop</li> <li>Reduced frustrations, increasing morale and productivity</li> <li>Identified major issues for maintenance improvement initiatives</li> <li>Support Areas</li> <li>Increased efficiencies in the QA Laboratory, and HR office areas, through WAM activities</li> <li>Removed redundant equipment, significantly increasing storage space</li> <li>Revised stock control systems for chemicals, glassware and columns</li> </ul>

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Company and Source	Timeframes	Publicly Reported Outcomes
Bonlac Foods / Fonterra Cobden & Cororooke VIC 200 personnel  CTPM E-News Publication June 2006 CTPM E-News Publication July 2006 HR Manager Forum 2006 Maintenance Mgr Forum 2006	Commenced February 2005  Concluded after 5 cycles in May 2007 (Cobden) and after 4 cycles in July 2007 (Cororooke) following the takeover of the company by Fonterra and instigating their own Manufacturing Excellence program from NZ.	<ul> <li>Safer working environment</li> <li>Established pride amongst the trades</li> <li>Better control of hand tools, manuals, and drawings through Work Area Management</li> <li>Reduced maintenance lost time looking for things</li> <li>Results from "Pitstop" improvement team in 2006 focused on Retail Shred Line at Cororooke:</li> <li>Average savings of 63% in changeover times</li> <li>Revised and standardised procedures</li> <li>Improved communication</li> <li>Results from Cycle 2 improvement teams in 2006 at Cororooke:</li> <li>The "Scrubbers" team reduced wash up time by 36%, equating to an extra 4.8 weeks of production time per year</li> <li>The "Dust Off" team reported an 18% improvement in OEE of their powder packing line</li> <li>The "Rev it Up" team realised improved packing line speeds on their VFFS equipment</li> </ul>
Bonlac Foods / Fonterra Spreyton TAS 100 personnel  CTPM E-News Publication October 2006	Commenced April 2005  Concluded after 6 cycles in May 2007 following the take-over of the company by Fonterra and instigating their own Manufacturing Excellence program from NZ.	<ul> <li>Results from "Fat Loss" improvement team in 2006:</li> <li>Achieved a saving of more than \$100,000 p.a. with even more savings identified</li> </ul>
Boral Bricks Prospect and Bringelly NSW 150 personnel  General Manager Forum 2008	Commenced September 2007  Concluded 2009 due to change of Snr Management	<ul> <li>20% improvement in OEE on the Bringelly Plant Dehacker</li> <li>25% reduction in Credit Issues raised in NSW</li> <li>20% reduction in Truck Loading Time at Badgerys Creek</li> <li>20% increase in OEE on Bringelly Plant Setter</li> <li>Improved the accuracy of credit invoices from 13% accuracy to 91% as a result of teams taking ownership and responsibility for their actions.</li> <li>Refine and Improve Customers Account application processes (17% new accounts opened correctly the first time)</li> </ul>

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Company and Source	Timeframes	Publicly Reported Outcomes
Cryovac Sealed Air Porirua, Wellington NZ 275 personnel  CTPM E-News Publication February 2004 Area Co-ordinator NZ Forum 2004 Team Presentation NZ Forum 2004 and 2006	Commenced July 2002  Completed 4 cycles of improvement with weekly then fortnightly CTPM support before progressing with internal accredited personnel  Concluded November 2006 due to change of Senior Management	<ul> <li>One team reduced set-up time by 76% saving \$680,000 p.a.</li> <li>One team reduced the time to conduct a production process by 40% saving \$27,200 p.a.</li> </ul>
CSL Bioplasma Broadmeadows VIC 500 personnel  Senior Maintenance Engineer Forum 2004 CTPM E-News Publication March 2006	Commenced August 2003	<ul> <li>Defect elimination improved uptime by more than any other system on its own</li> <li>Visual Controls &amp; a One Point Lesson help reduce Breakdowns by 50%</li> <li>Improved the effectiveness of the Preventative Maintenance (PM) activities</li> </ul>
Detmold Packaging Adelaide SA 150 personnel  CI Co-ordinator Forum 2003	Commenced February 2002  Concluded August 2003 due to significant downturn in industry	<ul> <li>After 3 cycles:</li> <li>OEE on printing line increased by 37% saving \$247,000 p.a.</li> <li>OEE on waxer line increased by 19% saving \$70,000 p.a.</li> <li>Waxing team reduced wax variance saving \$27,000 p.a.</li> <li>Significantly improved service levels, housekeeping, attitudes and morale</li> </ul>
Edgecumbe Milk Products / Anchor Products / NZMP / Fonterra Edgecumbe NZ 360 personnel  Team Presentation NZ Forum 2004	Commenced July 1999  Concluded April 2004 due to change of ownership	• Shaved 1 hour 9 min off turn-around time for the CIP process resulting in \$1.5 million p.a. increase in revenue

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Company and Source	Timeframes	Publicly Reported Outcomes
<b>Holden HFV6 Engine Plant</b>	Commenced October 2006	Results from "Block Busters" improvement team in 2006 focused on Operation 60 a
Port Melbourne VIC		crank bearing assembly unit:
200 personnel	Concluded	• Improvement in OEE from 55% to 98%
		• Increased production worth approx \$500,000 per month
CTPM E-News Publication		• New rework process for operation 60 has improved right first time quality delivery to
December 2007		the assembly line (Zero rejects)
		Decreased production costs
		Operator frustration eliminated
		Safety improvements for operators
<b>Hynds Pipe Systems</b>	Commenced August 2001	Site
East Tamaki NZ	• Level 1 – March 2006	• 12% reduction in operating costs over first 12 months
150 personnel		• 20% increase in output over first 12 months
	Completed 19 Cycles initially with	Despatch Area
CI Co-ordinator	weekly then fortnightly then monthly	• 30% increase in despatch storage space within 3 months
Forum 2002	support from CTPM along with	• 23% increase in productivity over 6 months
Operations Manager	internal accredited support	• 20% increase in loading out with the same amount of resources
Forum 2004  CTPM E-News Publication	Canalydad 2008 dua to ahanga af Sur	Maintenance
August 2004	Concluded 2008 due to change of Snr Management	• 30% increase in planned work being completed with no increase in labour resources
		66% reduction in reactive work
Norske Skog Tasman	Commenced November 2007	
Kawerau NZ		• \$720,000 p.a savings by halving #3 Paper Machine downtime per month
400 personnel	Completed 3 cycles	
CTPM E-News Publication	Concluded August 2008 due to new	
August 2008	direction from corporate	
OPAC	Commenced November 2008	After first 12 months, compared to previous season:
Gisborne NZ		• 50% reduction in Plant Downtime
560 personnel	Completed 6 Cycles initially with	Staff product knowledge increased resulting in better handling of the product
	weekly then fortnightly then monthly	Cost of packaging significantly reduced as performance increase
CTPM E-News Publication	support from CTPM along with	Big increase in Staff Moral
November 2009	internal accredited support	
	Concluded July 2010 due to downturn	
	in industry	

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Company and Source	Timeframes	Publicly Reported Outcomes
Pacmetal Services Glendenning, Sydney NSW 50 personnel  Improvement Mgr Forum 2006	Commenced March 2005  Concluded	<ul> <li>Reduced manufacturing interval of Sheeting by 67%</li> <li>Reduced manufacturing interval of Coating by 50%</li> <li>Doubled Output of Print operations</li> <li>Reduced Inventory value by 62%</li> <li>Reduced Print Lead Time by 60%</li> </ul>
CTPM E-News Publication September 2006 Sanitarium Health Foods	Commenced May 2005	Results from "The Packaging Triangle" improvement team in the Spreads
Berkeley Vale NSW 230 personnel  CTPM E-News Publication		<ul> <li>Department:</li> <li>Jar losses reduced by 75%</li> <li>Reduction in material wastage due to cost of lost jars in the manufacturing process</li> </ul>
September 2006  SCA Hygiene – Te Rapa (ex Carter Holt Harvey) Hamilton NZ 130 personnel  Team Presentation	Commenced September 1999  Initially with weekly then fortnightly then monthly support from CTPM along with internal accredited support	<ul> <li>\$340,000 p.a. saving by improving uptime and productivity</li> <li>\$156,000 p.a. saving from reducing manning from 3 to 2 per shift on one line</li> <li>\$10,000 p.a. saving from reducing Kraft waste by 35%.</li> <li>\$635,000 p.a. saving an improvement that only cost \$32 in materials.</li> </ul>
Forum 2003  Operations Manager  NZ Forum 2004  Shift Charge Hand  NZ Forum 2006	Concluded August 2008 due to change of ownership	<ul> <li>In 2004 reported over past 2 years achieved:</li> <li>600,000 hrs LTI free for the first time in history of site</li> <li>40% reduction in downtime</li> </ul>
Simplot Australia – Bathurst Bathurst NSW 170 personnel  Plant Accountant Forum 2006	Commenced December 2004  • Level 1 – August 2008  Concluded Feb 2013 due to change of management & direction	<ul> <li>Reduced change-over times from 8 hours to 4 hours on the Can Line</li> <li>Reduced start up after change-over from 8 hours to 1 hour on Can Line</li> <li>Saved \$19,165 due to early commissioning of the new line, later achieving an annualised saving of \$156,578</li> <li>Improved safety conditions</li> <li>Improved communications and morale</li> </ul>

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<b>Company and Source</b>	Timeframes	Publicly Reported Outcomes
Simplot Australia – Devonport	Commenced January 2005	Improved the gap on baseline to 5 year vision for OEE by 54%
Devonport TAS	• Level 1 – August 2006	• Improved the gap on baseline to 5 year vision for cost per kg by 58%
200 personnel	• Level 2 – August 2007	Reduced the cost of manufacturing by 29%
Regional Business Development	Concluded Feb 2013 due to change of	
Mgr	management & direction	
Forum 2007		
Engineering Mgr		
Forum 2008		
Simplot Australia – Echuca	Commenced September 2003	• Improved the gap on baseline to 5 year vision for OEE by 40%
Echuca VIC	• Level 1 – February 2007	• Improved the gap on baseline to 5 year vision for yield by 85%
120 personnel	• Level 2 – August 2007	Improved efficiency and productivity of all workers
		Improved delivery performance by 10%
CTPM E-News Publication	Concluded Feb 2013 due to change of	Reduced customer complaints by 30%
December 2005	management & direction	r a a j con
Factory Mgr		Results from "Shining Light" improvement team in 2005 focused on Can Line:
Forum 2007		• OEE improved by 9% from 69% to 75%
Production Mgr		• Delivery improved by 9% from 85% to 92%
Forum 2008		Safety and Quality to Customer measures improved
		• A key benefit to the team was that undesired overtime, which had been a feature of
		the line's operation, no longer had to be worked because the set production could be
		achieved within the allotted shift

Levels achieved relate to CTPM's 5 Level Milestone CI Excellence Award established in 2002 to assist sites to achieve Operational Excellence

<b>Company and Source</b>	Timeframes	Publicly Reported Outcomes
Simplot Australia – Kelso	Commenced September 2003	Results from "Finding Nemo" improvement team in 2004 focused on Slicer Press
Kelso NSW	• Level 1 – September 2005	Line:
260 personnel		• 49% reduction in lost time concerning line stoppages to change cutting plastic
	Concluded 2007 due to change of Snr	• High Level OEE was averaging 85%, up from the baseline 76%.
Team Presentation	Management	Waste was also reduced from a level of 3% to 2.4%
Forum 2004 and 2005		• Master Production Schedule (MPS) was tracking at 93% (vs 77% at week 6)
CTPM E-News Publication		• Improved understanding between departments, making for better working
December 2004, March 2005 and		relationships
October 2005		
Plant Manager Forum 2005		Results from "F-Troop" improvement team in 2003 focused on Fish Finger Line:
Forum 2003		• Customer complaints reduced by a massive 50%
		• Improved OEE from 79% to 86% with substantial savings to the company
		Other site Improvements:
		• Improved OEE on Fish Finger Line by 12%
		• Improved total OEE from 3 lines by 30% over twelve months
		• Overall plant reliability, as measured by OEE jumped from 64% in September 2004
		to consistently over 80% for the six months to August 2005
		Increased number of staff involved in CI across all shifts
		• Doubled Retail Line OEE from 43% to 81% in twelve months
		• Reduced product spillage by 87% on one product line which was an increase in OEE
		by 4.5% resulting in annual savings of \$182,000
		• Yield increasing with \$63,000 in savings achieved in August 2005 alone
		Delivery performance up, and Consumer quality complaints down

Levels achieved relate to CTPM's 5 Level Milestone CI Excellence Award established in 2002 to assist sites to achieve Operational Excellence

<b>Company and Source</b>	Timeframes	Publicly Reported Outcomes
Simplot Australia – Ulverstone	Commenced – October 2003	• Improved the crinkle-cut chip carton per day production by 21%.
Ulverstone TAS	• Level 1 – August 2007	• Improved crinkle-cut yield by 6%
240 personnel	• Level 2 – August 2008	
CI Coordinator	Concluded Feb 2013 due to change of	
Forum 2004	management & direction	
Production Mgr	management & direction	
Forum 2005		
Regional Business Development		
Mgr		
Forum 2007		
Tenon	Commenced October 2002	In August 2003, the site manager reported that over the past 12 months:
(ex Fletcher Challenge Forests)		• 29% increase in Capacity
Kawerau NZ	Initially with weekly then fortnightly	• 70% reduction in rework volumes that are being sustained
270 personnel	then monthly support from CTPM	
	along with internal accredited support	In 2004 one team reported that within 6 weeks achieved:
Site Manager		80% reduction in unplanned saw changes
Forum 2003	Concluded in 2006 due to change in	• 2.25% increase in sawmill capacity
Team Presentation	ownership	• 50% reduction in timber going to the Re-saw
NZ Forum 2004		• \$41,526 p.a. by reducing the replacement and machining of parts

Levels achieved relate to CTPM's 5 Level Milestone CI Excellence Award established in 2002 to assist sites to achieve Operational Excellence

Company and Source	Timeframes	Publicly Reported Outcomes
Tenon (ex Fletcher Challenge Forests) Rainbow Mt NZ 100 personnel  Site Manager Forum 2003 Team Presentation Forum 2003 Quality Manager NZ Forum 2004 Team Presentation NZ Forum 2004	Commenced October 2002  Completed 10 cycles initially with weekly then fortnightly then monthly support from CTPM along with internal accredited support  Concluded 2006 due to change in ownership	<ul> <li>In 2003 the Planer Set-up Reduction team within 12 weeks achieved:</li> <li>\$134,000 p.a. saving from reducing set-up times by over 60% costing only \$7,000</li> <li>In 2004 the Logistics &amp; Support team within 12 weeks achieved:</li> <li>12% reduction in onsite transport costs savings \$100,000 p.a.</li> <li>Reduction by 2, the number of forklifts required on site.</li> <li>15% reduction in Work In Progress Inventory</li> <li>27% reduction in the average Manufacturing Lead Time.</li> <li>By 2004 had achieved:</li> <li>70% reduction in LTIFR over 2 years</li> <li>35% reduction in MTIFR over 2 years</li> <li>66% increase in OEE for Planer Area over 1 year</li> <li>69% increase in Planer Productivity over past 3 years</li> <li>40% reduction in Planer rejects over 2 years</li> <li>10% increase in Sawmill OEE over 1 year</li> <li>Over 340 improvements completed</li> </ul>
Uncle Toby's Company Smithfield NSW 210 personnel  Manufacturing Mgr Forum 2003	Commenced April 1999  • Level 1 – October 2002  • Level 2 – October 2002  • Level 3 – October 2002  Plant closed and relocated to Wahgunyah VIC	<ul> <li>Reduced Lost Time Injury Frequency rate from 14 to 1 per Million Man Hours</li> <li>OEE increased by 23% on Packing Lines resulting in cost reductions of \$62,000 p.a.</li> <li>OEE increased by 31% on Pasta Line resulting in cost reduction of \$54,000 p.a.</li> <li>OEE increased by 30% on special Pack Line without any money being spent</li> </ul>