GenTech CASE STUDY

Executive Summary

Problem Introduction

Metrics &
Baseline of
Measure

Root Causes

Improvement & Outcomes





Abstract

- P&L Status: Achieved an 18% revenue reduction over the past two years
- Employees: 150,000 (25 sellers and 100 bid support specialists)
- Business Operating Mode: Implemented a streamlined proposal process by eliminating unnecessary handoffs, reducing complexity, and shortening cycle times
- Products: zSeries, xSeries, SWG, Consulting, ESW

Project Significance

Project Charter

Process Map





Project significance

- * 28% of proposals exceed a 35-day turnaround
- * Proposal development ranges from approximately 10-70 days
- * Bids Lost to Competitors Due to Prolonged Cycle Times
- * Non-standard practices, unnecessary approvals, inefficiencies, and redundancy



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Project Charter

Optimising Pro	oposal Creation for Global Market Comp	etitiveness	
Business Gentech, a leading provider of software, hardware, and comprehensive business schas been a \$108 million downtum, marking an 18% decline over the past two year		ecutive Sponsor	
Obj. To reduce the cycle time of the proposal creation process by 15% by the end of Q the marketplace. Sci	mark	ering Committee	
In-Scope Review and re-ngineering of the current proposal creation process. Training and inorganization of the bid import staff to handle requests more efficiently. Implementation of streamlined communication process between sellers and bid support staff. Optimization of the ERP system for better request management and tracking. Adoption of new gractices that contribute to the reduction of overall cycle time.			
Process Owner: Grace Monroe, VP of Supply Chain Operations Black Belt: Jeff Hugh	Investment: Risks: Resistance to change within the globs sales and support teants. Delays in implementation across different geographies. Misalignment between different team and process owners.	Sellers from North Ame Pacific, and Japan. Bid Support Specialists Product Design Team Pricing Team	eam Members rica, South America, EMEA, Asia
DMAIC No. of weeks	Operational Metric	Baseline	Target

DMAIC	No. of weeks	Operational Metric	Baseline	Target
Define	2 4	Current average cycle time for proposal creation	31 Days	15% reduction in the current cycle time without compromising the quality of the proposals
Measure	92			In #10, 7 mail open conduct #10 mail open and and
Analyze	4	Expected Benefits		Projected Savings
Improve	6	Hard Benefits: Enhance bid acquisition and RFP response capacity to boost project completion rates and elevate revenue Soft Benefits: Enhance seller engagement and customer relationships due to more focus on core sales activities. Improve satisfaction due to clearer processes and less time on administrative tasks.		Low-Value Proposals: Cycle Time Reduction: 47.5% decrease to 12.5 days, fostering a smoother
Control	4	Strategic Benefits: Reasserting Gentech's position in the market as a responsive and customer-centric company. Long-te market share and profitability through enhanced operational agility.	rm increase in	workflow. Defect Rate Reduction: 33,7% decrease, enhancing quality on \$4M worth of proposals.
				High-Value Proposals: Processing Time Reduction: 17%
				faster, boosting response and delivery times.
				Defect Rate Reduction: 34% fewer defects, improving success on proposals up to \$550M.



Process Map Pain Points Education / Skills Technology Failure Reporting Gap Poor Data Quality Okageam Key Safes Safes Sic Support Dist Anaport Support Manage Stroker Everyo Tiver Fritzy Ware Stroker Support Stroker Delay **Redundancy** GenTech Proposal Process **Process Creation** Configuration Generation Price Determination Final review & Handling 💘 ZQT7 🧑 sts: 1.0 - 10.8 dys 1.0 - 11.2 dys 1.0 - 17.7 dys 1.0 - 16.6 dys 1.0 - 11.6 dys , zqrz 1.0 - 17.1 dys 1.0 - 17.4 dys zqt6 30 1.0 - 11.1 dys ZQT4 Reviews proposed 1.0 - 18.0 dys × 1 0 1 **8** 1 **1 1 ≥** 1 Prezi

Objectives

Cycle Time Baseline: 31 days

Defect: Exceeding 35 days

Target: Achieve a 15% reduction in cycle time

Improve efficiency and effectiveness of each step of

operations

Cycle Time

Defects

Correlations



Cycle Time

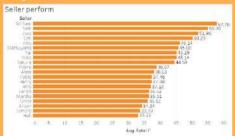
Root Causes Analysis of Long Cycle Time







By Selle



By BSS (Only the best and worst five)





Defects

Defect: Proposals exceeding 35 days are considered defects.

Total opportunities: 75,000 proposals

DPMO: 281053.33 proposals

Sigma Level: 2.1

(3.6 w/ process shift of 1.5 sigma)



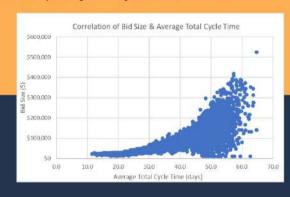


Correlations

Major Correlations Focus Points

	STS1	ZQT2	ZQT3	ZQT4	ZQT5	ZQT6	ZQT7	ZQT8	STSX	Total	Bid Size (\$)
STS1	1										
ZQT2	0.101309	1									
ZQT3	-0.10586	-0.13143	1								
ZQT4	-0.10328	-0.12391	0.747953	1							
ZQT5	0.085429	0.148809	-0.12349	-0.11936	1						
ZQT6	-0.03199	-0.03949	-0.176	-0.19211	-0.03751	1					
ZQT7	-0.10829	-0.12669	0.735311	0.739591	-0.12818	-0.17896	1				
ZQT8	0.008186	0.021898	-0.17789	-0.18246	0.042244	-0.06492	-0.17107	1			
STSX	0.080086	0.156091	-0.13851	-0.13577	0.140764	-0.03989	-0.13371	0.018197	1		
Total	0.071533	0.084065	0.780255	0.803509	0.085756	0.034517	0.783361	0.047521	0.065502	1	
Bid Size (\$)	0.065922	0.075962	0.621812	0.628602	0.081348	0.056419	0.618945	0.054745	0.054996	0.808052	1

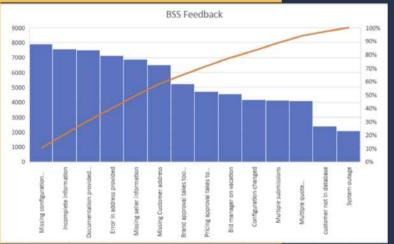
- correlation between bid complexity and cycle time --> 0.81
 Positive Correlation





Root Causes





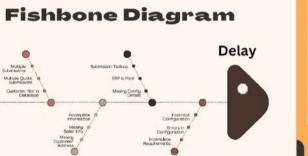
ERP System

BSS Agents

Bottlenecks



ERP System



BSS and Seller Feedback	
Difficult to identify BSS agent	11,383
Incorrect configuration	7,499
Errors in configuration	3,796
Incomplete requirements	3,791
Submission process is tedious	3,786
ERP system doesn't work well	3,677
Missing configuration details	7,915
Incomplete information	7,592
Missing seller information	6,877
Missing Customer address	6,516
Multiple submissions	4,137
Multiple quote submissions	4,081
Customer not in database	2,418
Total	73,468
# of Feedback by BSS and Seller	150,000
Percent of Problems that can be solved via and ERP:	49%

From all of the 150k feedbacks provided by the BSS and the Seller, nearly 73500, which is about 49% of all the feedback can be resolved by a better ER

Company Revenue at 5% conversion rate: \$232 Million Recommended Expenditure on ERP: 1% 1% of the Revenue: \$23.2 Million One time ERP Costs: \$2.5 Million

Recurring Costs: \$1 Million



ERP Diagram

- System Disruptions: Frequent system downtime and delays
- Communication Challenges: Fails to serve as an effective communication medium among processes
- Data Quality Issues: Inability to capture incomplete and inaccurate information
- Inefficient Routing: Lacks the capability to route requests based on bid size
- Bid Size Differentiation: Fails to distinguish larger bid-sized proposals



BSS Agents



Seller Feedback	
BSS lacks domain knowledge	7,458
BSS inexperienced	7,415
Too many errors by BSS	3,735
Total	18,608
# of Seller Feedback	75,000
Percent of Errors Made by BSS	24.8%

Nearly a quarter of the Seller feedback points to BSS's mistakes directly





BSS Agents

1. Inadequate Proficiency in Task Execution:

"Insufficient professional knowledge is resulting in suboptimal task execution, thereby impeding operational efficiency."

2. Prolonged Request Processing Times:

"Protracted durations for request processing are adversely affecting service delivery, necessitating urgent attention."

3. Elevated Error Rates:

"An excessive incidence of errors is undermining the quality of our outputs, necessitating a comprehensive error-reduction strategy."

4. Suboptimal Resource Utilization due to Vendor Bias:

"Human resource allocation remains underutilized, primarily attributed to vendor bias, which warrants a reassessment of resource allocation strategies."



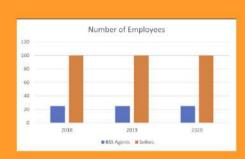
Bottlenecks

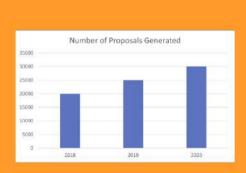
- Single Brand Manager Approval: Over-reliance on a single brand manager for proposal approvals
- Data Quality Issues: Information incompleteness causing delays and slowdowns
- Excessive Handoffs: Inefficient processes with too many unnecessary handoffs

PYCONE	Proposal Crosts	n:		Responsibilit		Ttam 334			_	PMEA number:	123456				
	Current Prepared by Team 334									Page :	1 of 1				
Core Team:	Athas Jain, Hele	n Chen, Upma	(agi, Yuhui Zh			FMEA Date (Drig);	8/11/2023	- 74	in (r	185					
-	September 1	Potential	9	Potental	D.u	Current	0.0	D	1 spectrumoses	Responsibility	Action Requite				
Process Function	Potential Failure Mode	Effect(s) of Failure	8	Cause(n)' Machanisms	000	Process Controls	e 0	RPN	Recommended Action(s)		Actions Taken	3 v	0 c	Dt.	R N P
Sending proposate to potential customers	Missing configuration details	Stall until completed	6	Seller trilled to provide info.	9	BBS sends the proposal back to seller	4	72	Configure ERP such that it doesn't allow seller to create request it dutates are making	IT department needs to make changes to current system					0
	incomplete information	Deley	3	Lack of info from Bellen Gusto	9	BSS rends the proposal book to seller	1	27	Greate a template that seller can use to	Seller or even 885 carr create one as they					٥
	Documentation provided rate	Delity	2	Delay from Selectivaria per	9	Follow-up to get required document feater	3	81	Specify a window within which documents need to be moved to the next stakeholder	Seller Proposell manager					0
	Error in acidress	Trouble sending	9	incorrect information from		Ask for correct	-	225	Ask select to validate all customer into before	Catac					



Employees BottleNeck





The number of employees has zero growth from 2018 to 2020, meanwhile company's proposal requests and proposal generated are increasing by 5000 each year.







- Error Proofing: ERP System & BSS Training
- Process Changes:Bid Size >/< \$40,000
- Cycle Time: Overall reduced by 26.28%

Error Proofing Process Changes Defects & Cycle Improvement



Error Proofing

- ERP System Optimization: (Minimize downtime and delays)
- Data Validation: (Ensure information completeness and flag incomplete data)
- Al-Driven Pricing: (Utilize AI for precise bid price estimation (>\$40,000 or <\$40,000))
- Strategic BSS Assignment: (Optimize resource allocation by considering experience, seniority, and skills)
- Seller Resource Allocation: (Prevent human resource underutilization through systematic BSS agent assignment)



BSS Error-Proofing

1. BSS Training Enhancement:

-Invest in additional training and resources to reduce errors and boost expertise.

2. Senior BSS Mentorship:

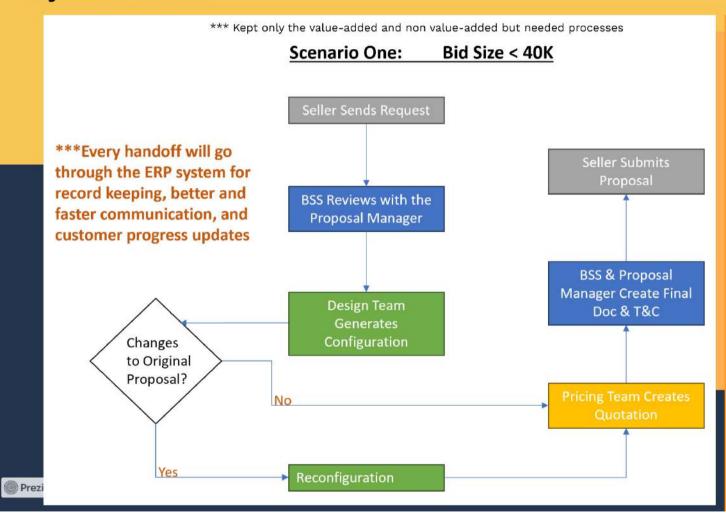
-Implement a mentorship program for senior BSS agents to support junior colleagues.

3. Efficient Request Processing:

-Streamline request handling for improved accuracy and efficiency, with direct involvement of the Proposal Support Manager.



Adjusted Process



With Bid Size less than \$40,000

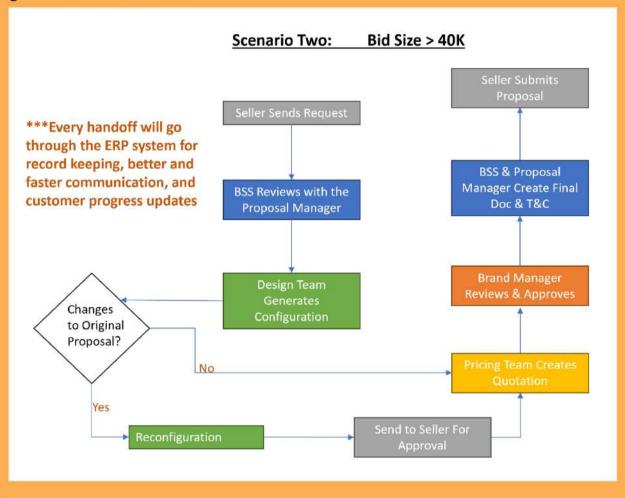
Eliminated processes:

- -BSS not being able to process (ERP)
- -BSS checking for information completeness (ERP)
- -Sellers' approval of configuration (ERP)

Adjusted processes:

- -Integrate Proposal Managers' review of requests with BSS request processing (BSS errors) -If there's changes t
- If there's changes to original proposal, reconfigure and send directly to Pricing

Adjusted Process



With Bid Size greater than \$40,000

Adjusted processes:

-pricing requires brand managers' approval (High Value Bid couldnt be decided by BSS alone)

Delighters for updated process:

- process:-Customers will be provided a rough estimate of the
- proposal receiving date
 -ERP documents the process
 movement
- -progress update and remaining days will be sent to the customer whenever occurred



Defects & Cycle Improvement

Streamlining Low-Value Proposals

- 47.5% reduction in the cycle time for orders under \$40,000
- The average processing duration decreased from 23.8 days to 12.5 days
- Defects could be reduced by 33.7%

Enhancing High-Value Proposals:

- 17% reduction in cycle time for orders above \$40,000
- The average processing duration decreased from 37 days to 30.7 days
- Defects coudl be reduced by 34%



