

Team: Bearded Dragons

Eric Kaminsky (Co-Team Leader)Armando Gonzalez (Co-Team Leader)Alessandra WilliamsDaniel Crespo

Carol Kruse and Maria Nardi (Sponsors) Christina Salinas Cotter (Process Owner)



Identify Project Charter

The team developed a team Project Charter and secured signed off from sponsor.

		Project Charter
	Project Name:	Reduce Zoo Miami Procurement Cycle Time
Business Case		Time Sensitive materials are required to maintain animal exhibits and facilities throughout Zoo Miami to ensure they remain open to the public. Purchasing delays can adversely impact the Zoo's earned revenue and attendance as exhibits, programs, and amenities could be unavailable to the visitors. Delays can also lead to animal welfare issues which can jeopardize the Zoo's long standing accreditation.
	-	Improve timeliness of purchases
	Outcome Indicator(s)	Q1-Number of Days to Complete Purchase
Objectives	Proposed Target(s)	
Objectives	Time Frame:	Nov 2017 thru March 2018
	Strategic Alignment:	Supports strategic objectives
	In Scope:	Pooled Contracts
Scope	Out-of-Scope:	Award Contracts
	Authorized by:	Maria Nardi, PROS Dept Director
	Sponsor:	Carol Kruse, Zoo Director; Maria Nardi, PROS Dept Director
	Team Leader:	Eric Kaminsky (Co-Team Leader) Armando Gonzalez (Co-Team Leader)
Team	Team Members:	Daniel Crespo, Alessandra Williams
	Process Owner(s):	Christina Salinas-Cotter
	Mgmt Review Team:	Carlos Maxwell, Mayra Morales, Carol Kruse, Maria Nardi, Christina Salinas Cotter
	Completion Date:	
Schedule	Review Dates:	Monthly and Final Review in March 2018
	Key Milestone Dates:	See Action Plan



Define Measure Analyze Improve Control



Develop Project Timeline Plan

The team developed a Timeline Plan to complete their Project.

Leger	nd:
	= Actual
	= Proposed

WHAT: Reduce Zoo Miami Procurement Cycle Time **WHEN** Month 2017-2018 HOW Nov Dec Feb Mar May Apr Jan **1. DEFINE** Completed 12/15/17 2. MEASURE Completed 1/5/18 **3. ANALYZE** Completed 1/19/18 4. IMPROVE 3/30/18 **5.CONTROL** 5/31/18 MIAMIDADE Define Measure Analyze Improve Control COUNTY

Project Alignment to Strategy

ZOO MIAMI STRATEGIC PLAN OVERVIEW 2017 - 2019

Animal Well-Being

Goal: To be a leading zoological organization in delivering the highest standards of animal care, wellness and population sustainability practices, leveraging the natural environment of South Florida

Strategic objectives:

- Develop and maintain a purpose-driven, resource efficient Institutional Collection Plan that informs and integrates with conservation and guest experience plans
- Implement animal wellness, training and enrichment programs to be a leader in the physical and psychological care and management
- Improve professional development and training opportunities for all staff that influence animal care
- Expand the preventive health and nutrition programs to advance overall animal healthcare

Conservation & Stewardship

Goal: To become a leader in subtropical wildlife conservation, education and environmental stewardship both globally and locally

Strategic Objectives:

- Implement the Zoo Conservation Plan that balances international support with local efforts fostering community and staff engagement
- Increase the Zoo's capacity as a regional hub for science education and engagement
- Develop and implement a comprehensive approach to environmental suitainability within all two operations

GUEST EXPERIENCE

Goal: To deliver memorable guest experiences that engage diverse audiences in fun and learning

Strategic Objectives:

- Deliver consistently the desired guest experience
- Establish a formalized training program
- Utilize technology to support and enhance the desired guest experience
- Integrate brand and marketing messages to engage all of the Zoo's diverse audiences
- Implement a guest experience plan to engage guests with the Zoo's botanical gardens

Define

Financial Strength

Goal: To utilize sound business practices to fulfill Zoo's mission leveraging the County's and Zoo Miami Foundation's support

Strategic Objectives:

- Evaluate and recommend management model for the Zoo's long-term financial sustainability
- Using a three-year revenue plan cycle, optimize revenue growth opportunities
- Improve business processes to reduce expenses and improve efficiencies
- Secure financial support for key components of the Master Plan Refresh
- Strengthen Zoo Miami Foundation's capacity to build the community's support base

Performance Excellence

Goal: To establish an organizational culture of caring, collaboration and engagement

Strategic Objectives:

Measure Analyze Improve Control

- Define and strengthen the Zoo's culture building upon PROS Dept, core values and uniquenesses of the Zoo
- Increase the value placed on and procedures for internal communication to support staff in fulfilling the Zoo's mission
- Evaluate and update standard operating procedures to foster collaboration, consistency of delivery, and efficiency of operations
- Strengthen performance management efforts and procedures
- Integrate and expand the volunteer program to enhance the guest experience and increase community engagement

ELEVATOR SPEECH

"At Zoo Miami we provide fun experiences that encourage visitors to:

Connect with animals and nature Care for, and about, animals Conserve our world"

BEARDED DRAGONS

Background



• Zoo Miami is an award-winning Miami-Dade County attraction that is accredited through the Association of Zoos and Aquariums (AZA). The Zoo is also the largest and oldest zoological garden in Florida, and the only tropical zoo in the continental United States.

• Today, Zoo Miami occupies almost **750 acres** (340 developed), and is home to more than **3,000 animals** representing over **500 different species** in exhibits that are entirely cageless.

• Zoo Miami is one of approximately 200 institutions that are accredited through AZA. Every five (5) years the Zoo must go through a rigorous application and inspection process to prove that the highest standards in animal care is provided while providing a fun and educational family experience that connect to various conservation efforts.



Define



Background

• Zoo Miami is projected to earn **\$15.4M in Revenue** and attract **over 1 million visitors** in current FY 17-18.

- The Zoo issues approximately **1,500** Purchase Orders per year that requires a competitive bid process. Purchases range from construction materials required to maintain exhibits and facilities to animal enrichment items to support the physical and psychological needs of the animals.
- Timely purchases are critical in order for the Zoo to continue to grow revenue/attendance, maintain AZA accreditation, prevent visitor/employee/animal safety issues, and to support the Zoo's overall mission of sharing the wonder of wildlife and helping to conserve it for generations to come.

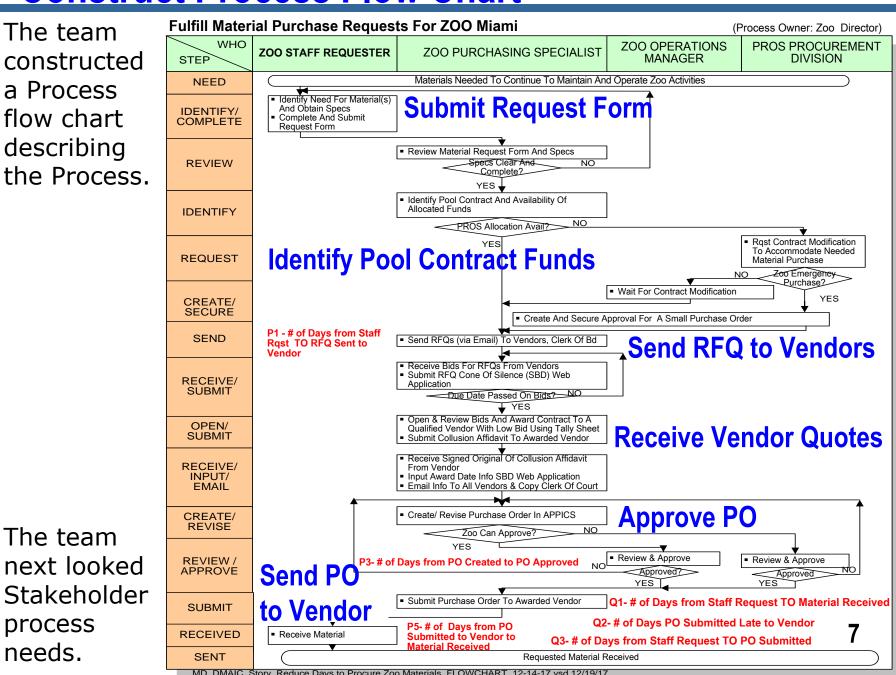
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Define

Construct Process Flow Chart



Stakeholder Needs



The team identified stakeholder needs for the process outputs.

	Stakeholders Needs
Stakeholders	Process Output Needs
	PO received timely
Requestor	PO has accurate amount and info
•	PO has correct specs
Animals	Minimize delays in habitat and welfare needs
Zoo Guests	Working facilities
	Exhibits clean and available
	Safe environment
Employees/ Zoo	Materials/equipment available to complete assignments
Mgmt	Safe environment



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Cost of Poor Quality

The team identified the hidden costs of delayed POs.

Stakeholder	Pain Experienced	Annualized "Costs"
Requestor	Loss of ProductionOT to scheduleDelay in completion	Labor costs Rescheduling staff: 0.25 hours* \$25.00* 50%*1,500 of POs per year= \$4,700
Animals	 Unsafe exhibits Containment issues Lack of enrichment/ training items 	Labor costs Transferring animals to other exhibits/holding containments: 3* \$20.00* 52 weeks= \$3,100
Zoo Guests	 Service interruptions Closed Exhibits Dirty and hazardous facilities/restrooms 	Revenue Loss Guest refunds: \$22.95*1,200 refunds per year= \$27,500
Employees/ Mgmt	 Lack of tools/materials to complete assigned work 	Labor Costs Downtime for Trades staff: 25 employees*1 hr/week* 52 weeks* \$20.00= \$26,000

Total Estimated Cost of Poor Quality Savings = \$61,300 Annually



-Define -Measure -Analyze -Improve -Control



Identify Data Collection Needs



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The team developed a spreadsheet to help analyze the process.

Material Procurement Status Summary (Every Row is a material Request)

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Line			Contract	ant		Vendor	(Miami-		Reques	ted	Quote (R	FQ)	Order Cre	eated	Approv	/ed	Submit	ted	Comple	eted
	PO #	Material Description	Name	Quantity	Cost	name	Dade)?	Requester	Date	Day	Date	Day	Date	Day	Date	Day	Date	Day	Date	Day
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2		Bulldozer Crawler Do				Kelly Tract	Y	Maint Super	6/15/17	Th	6/15/17	Th	6/20/17	Tu	6/21/17	We				
3	3916	Center Complete Spi	Coarse Age	1	\$840	SDI Quarry		Mechanic	8/4/17	Fr	8/4/17	Fr	8/8/17	Tu	8/8/17	Tu	8/9/17	We	8/9/17	We
	•	•	-			-	-													

					DURATION					OUTCO	OMES	
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AC=	AD=	AE=	AF=	AG=	AH=	AL=		Today-AM	AO=	Target=	Y' if	BB
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				PO								
Staff	Rqst	PO	PO	Submitt	Staff	🔪 Rqst 🔫				# of		
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RFQ	Created	Approved	Sumitted	Compld	Compld	Submitted	Due	stone Due	Cmpltn Due	LATE	Timely?	Comments
	RFQ Created Approved Sumitted Compld Co Avg # of Days							# Past Due	# Past Due	Avg	%Y	
3.9	8.5	0.4	1.5	0.0	14.3	14.3		2	2	6.3	18%	
P1	P2	P 3	P4	P5	Q1	Q3		P7	P8	Q2	Q4	
-5	6					2	4-Approve PO	-50	-44			
0	5	0				(5-Submit PO	-49	-43			
0	4	0	1	0	5	5	**Completed**	NA	NA	-3	Y	



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Target Setting Methodology: P6-CE020f: % Cases in Compliance prior to NOV

The team set the target using Florida Benchmarking Consortium's (FBC's) comparable data.

The team noted that the Zoo ranked 6th overall against counties and cities for the most recent year. The team selected comparable city and counties for

analysis.

		FBC Comparat	ive l	Data (copy	& Paste into tl	he white cell v	vith blue text	t <mark>colum</mark> ı	ns)
		Good Direction Up or Down?	Y/N		Fiscal Yr Perfo vg # Business I of purchase orc	Days from requ		Rank	Rank
(Down	ible?						
		Organization	Comparable? Y/N	3rd Most Recent Yr Performance	2nd Most Recent Year Performance	Most Recent Year Performance	Average Performance	3 Year Avg	Most Recent Year
			% Y		Aver	rage for below columr	ns		
			54%	67.5	130.0	87.3	76.9	6.9	6.9
		[٩	•		
	1	Alachua County	Y		30	45	37.5	7	7
		Broward County	N		376	344	360	13	13
		Charlotte County	N	79	96	81	85.3	9	9
		Marion County	Y			5	5	5	5
		Miami-Dade County	Ν	186	146	218	183.3	12	11
		City of Cape Coral	Ν	ļ!	 '	120	120	11	10
		City of Clermont	Ν	ļ!	 '	1	1	1	1
		City of Deerfield Beach		ļ!	 '	75	75	8	8
		City of North Miami	N	3	 '	229	116	10	12
		City of Oviedo	Y	ļ'	 '	4	4	4	4
		City of Port St. Lucie	Y	ļ!	 '	1	1	1	1
-		City of Tallahassee	Y	2	2	1.6	1.9	3	3
	13	Zoo Miami	Y			10.2	10.2	ne	Le?
				$\overline{}$	$\overline{}$				

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Target Setting Methodology

Define

The team reviewed options provided by FBC's worksheet.

	the s	FBC	C Targe	et Settir	ng Work	ksheet			
	fbc			Good Direction (Down or Up)	Our Orga	nization	3rd Most Recent Performance	2nd Most Recent Year Performance	Most Recent Year Performance
	Target Selecti	on Mat	rix	Down	Zoo N	liami			10.2
		mance Inc	licator==>	PU021 - Avg #	Business Days	from requisit	ion to issuar	ice of purcha	se order for
	Stoplight Legend <0 or > 50% from Current Perf		ALL Or	ganizations		Only	Comparabl	e Organizat	ons
	25%-50% from Current Perf	3 \	/ear	Most Re	cent Year	3 Ye	ear	Most Rec	ent Year
	<pre>< 25% from Current Perf</pre>		Gap from		Gap from		Gap from		Gap from
	Target Methodology	Potential	3 Yr Avg	Potential	Most Recent	Potential	3 Yr Avg	Potential	Most Recent
	(Based on)	Target	Performance	Target	Performance	Target	Performance	Target	Performance
1	ALL Organizations	93.40	-816%	87.29	-756%	17.58	-72%	2.00	80%
2	Top 10 Organizations	33.69	-230%	34.38	-237%	19.23	-89%	20.26	-99%
3	Top 5 Organizations	2.58	75%	2.52	75%	4.42	57%	4.36	57%
4	Top Organization	1.00	90%	1.00	90%	1.00	90%	1.00	90%
5	Our Best Perf	10.20	0%	10.20	0%	10.20	0%	10.20	0%
6	Our Avg Perf		0%	10.20	0%	10.20	0%	10.20	0%
7	Average of All Methods	5 25.18	-147%	24.27	-138%	10.44	-2%	8.00	22%
	\sim							~~~~~	

The team selected 8 Business Days as an initial target

or 10 Calendar Days as our target.

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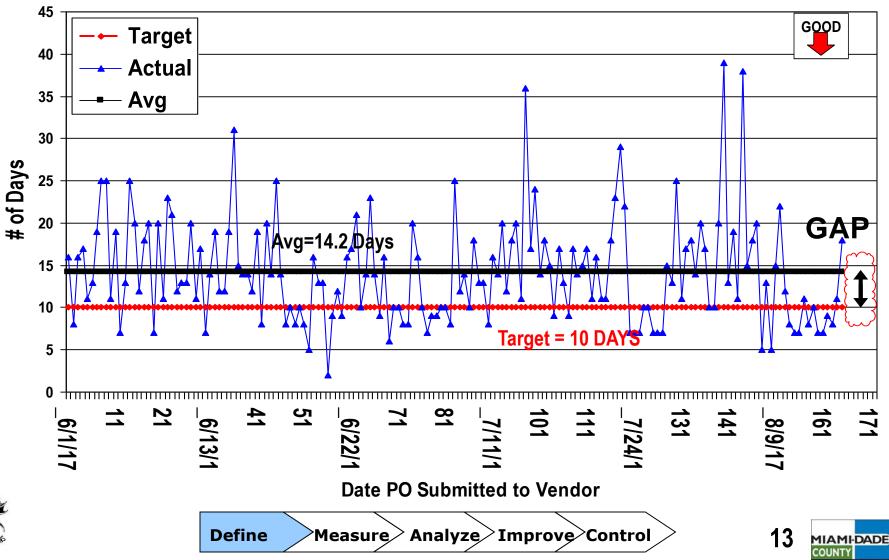


Display Indicator Performance "Gap"

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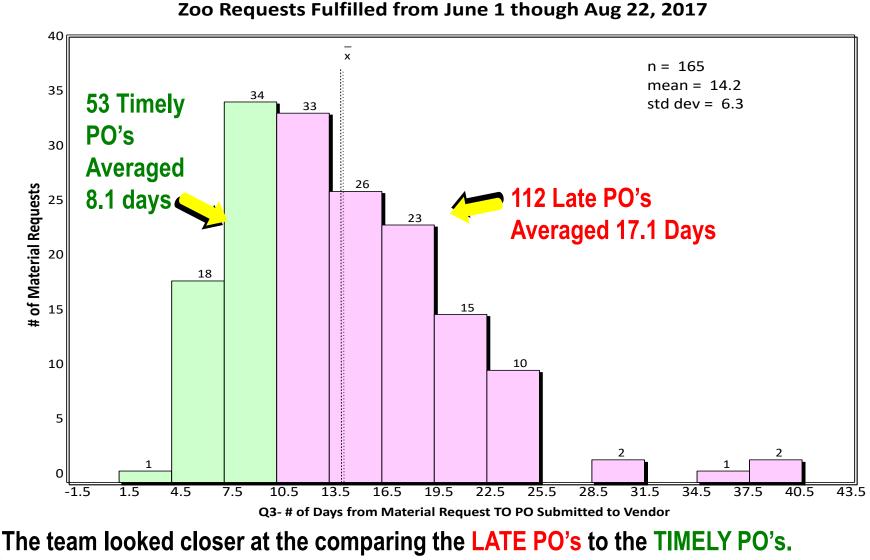
The team collected Q3 indicator data and reviewed performance trends:

Q3- # of Days from Material Request TO Purchase Order Submitted to Vendor



Stratify Problem

The team stratified the 165 Fulfilled Requests many ways and found...





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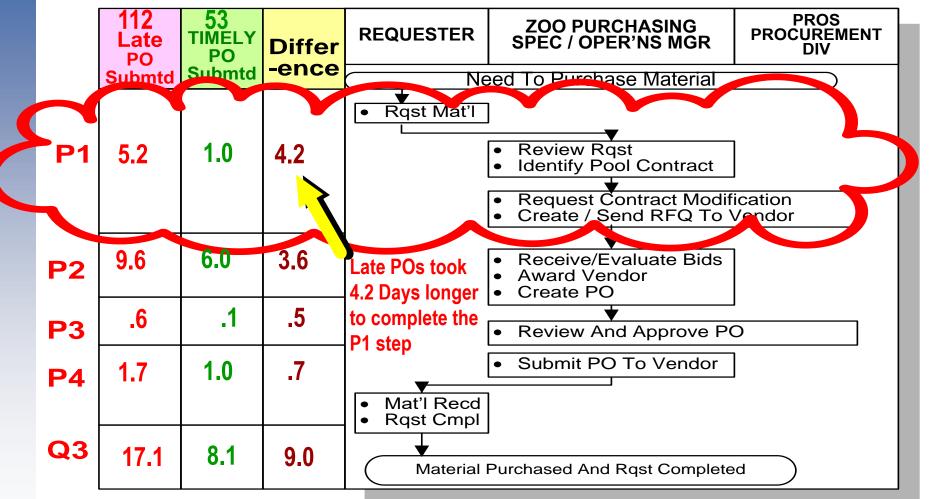




Stratify the Problem

The team compared the LATE Requests to the TIMELY Requests and found...

Fulfill Material Purchase Requests for ZOO Miami



The team looked more closely at the 112 Late POs in Step P1.

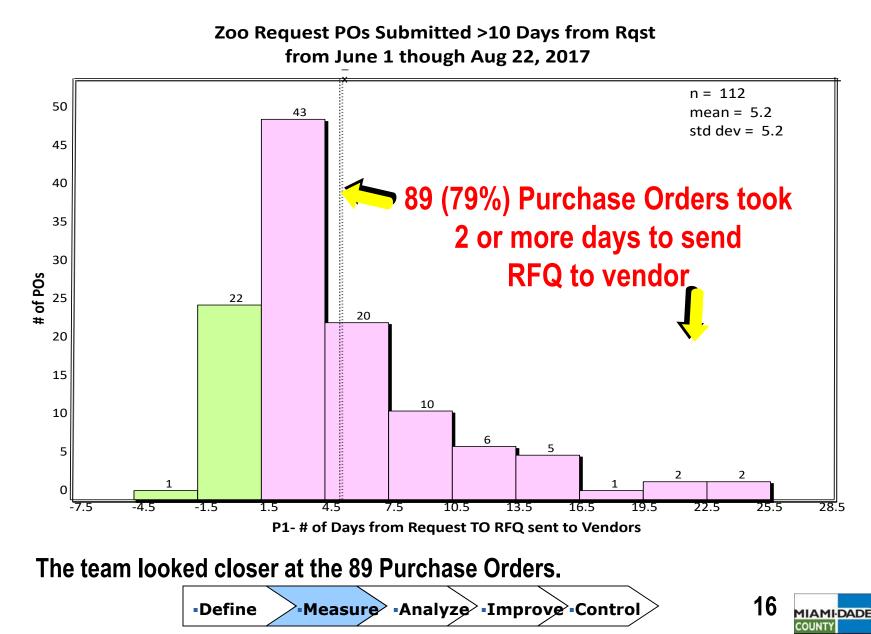


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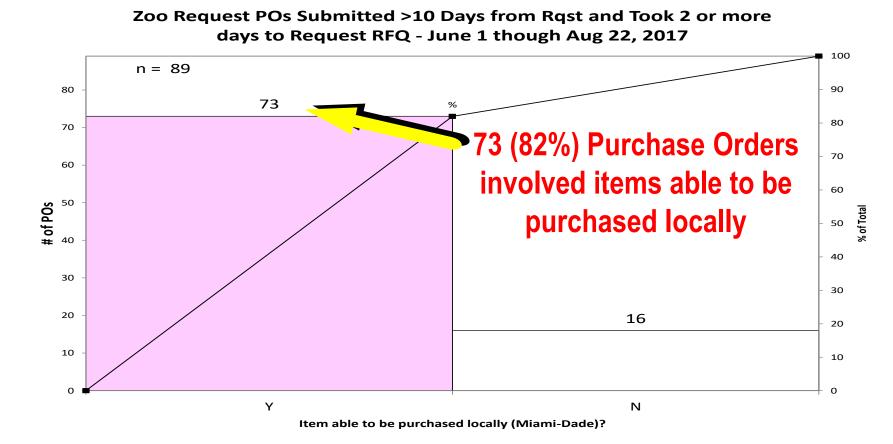
Stratify Problem

The team stratified the 112 Late POs for step 1 using a histogram and found...



Stratify Problem

The team stratified 89 POs many ways and found...



Problem Statement: "73 Zoo POs submitted to vendors between June 1 through Aug 22, 2017 were submitted >10 Days after the Rqst and took 2+ days to Request RFQ and involved materials available locally"



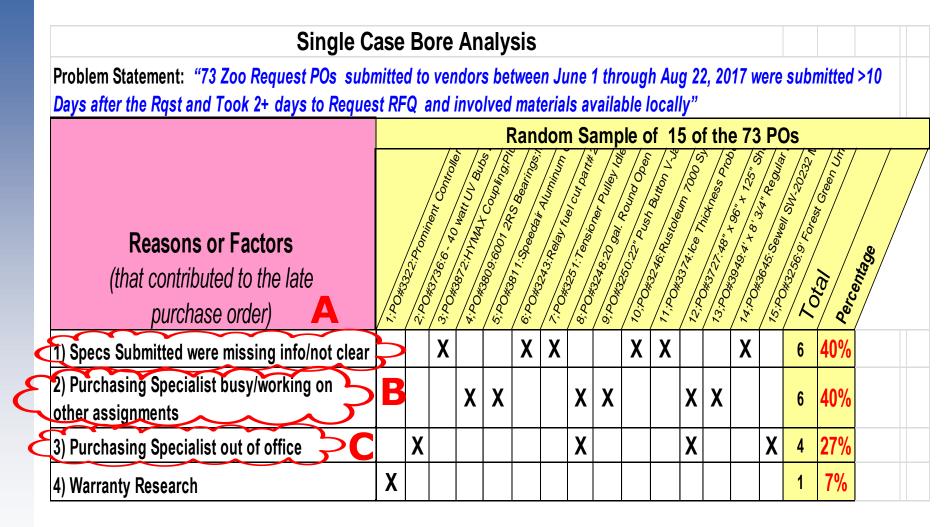
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Identify Potential Root Causes

The team completed Single Case Bore Analysis...



The team incorporated these factors into Cause and Effect Analysis.

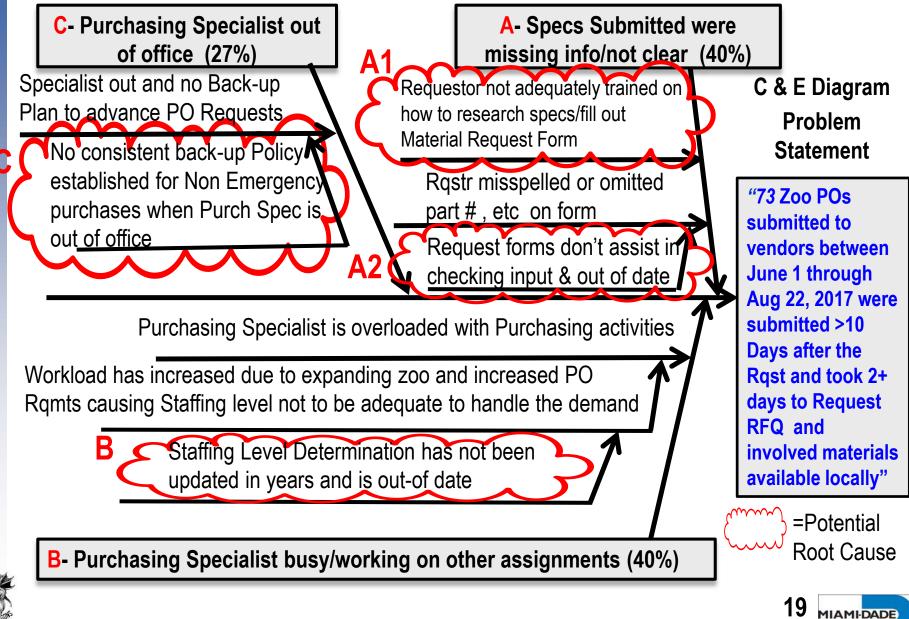




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Identify Potential Root Causes

The team completed the Fishbone Analysis...



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Verify Root Causes

The team collected data to verify the root causes and found....

	Root Cau	se Verification Matrix	
	Potential Root Cause	How Verified?	Root Cause or Symptom
A1	Requestor not adequately trained on how to research specs/fill out Material Request Form	Interviewed Supv and verified no recent training provided for requestors	(Root Cause)
A2	Request forms don't assist in checking input & out of date	Observed form and noted a number of current technology improvements are not incorporated into form	(Root Cause)
В	Staffing Level Determination has not been updated in years and is out-of date	Reviewed Zoo workload for last 10 years which increased significantly while Purchasing Specialist position is still at 1 position	Root Cause
С	No consistent back-up Policy established for Non Emergency purchases when Purchasing Spec is out of office	Reviewed Written Procedures and interviewed Supv and no back-up designated for non emergency requests	(Root cause)









13.

Identify and Select Countermeasures

	Ο ΟΙ	Intermeasures Matrix				
			Legend:	5=Extrem 4=Very	ely 2=S	loderately omewhat ttle or None
Problem Statement	Verified Root Causes	Countermeasure	Effective- ness	Feasi- bility	Overall	Take Action?
"73 Zoo Request	A1 -Requestor not adequately trained on how to research	A1 - Develop training on how to research specs and fill out form	5	5	25	ĘY
POs submitted to vendors between June 1 through Aug 22, 2017 were	specs/ fill out Material Request Form	A2 - Require requestor to Submit request Electronically	4	4	16	Υ
	A2 - Request forms don't assist in checking input & out of date	A3- Revise the current form to include more assistance to self check errors and omissions	4	4	16	Ę
submitted >10 Days after the Rqst and took	B- Staffing Level Determination has not been updated in years and is out-	B1- Escalate the filling of the part time position for Purchasing Specialist	5	4	20	Y
2+ days to Request RFQ		B2- Lock-in vendor Quotes for recurring items for 6 months (and change process)	3	5	15	ξŗ
and involved materials available locally"	of date	B3- Implement an electronic Bid System for Vendors to be used by the Department	5	3	15	Y
	C- No consistent back-up Policy established for Non- Emergency purchases when Purch Spec is out of office	C1- Develop back-up Policy for when Purchasing Specialist is out of office	4	5	20	Er Cr

The team selected 7 Countermeasures for implementation.



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Identify Barriers and Aids

The team performed Barriers and Aids analysis on the selected Countermeasures.

Countermeasure(s): Implement 7 countermeasures to Reduce Time to Procure Zoo Materials

		Barriers		Aids
Impact (H, M, L)		Forces against Implementation	F	orces For Implementation
L	1)	Push Back from Requestors (Supported by Aids: A, B)	A)	Management very supportive of efforts
Η	2)	Limited Resource Dollars to spend (Supported by Aids:A, B)	B)	Benefits- \$ savings, Zoo Receive Materials in timely manner; Animal Well-being; Internal/ External Satisfaction; Increased Revenue
Μ	3)	Push Back from Vendors (Supported by Aids:C)	C)	Vendors receive longer commitment

The team next sought to incorporate this analysis into the team's Action Plan.



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16.

Develop and Implement Action Plan

Legend: = Actual = Proposed

The team implemented an Action Plan for the team's Countermeasures.

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						WHEN 2018			
	HOW	WHO	Jan	Feb	Mar	Apr	May	Jun	J
•	Develop Countermeasures/ Practical Methods:								
	A1- Develop training on how to research specs and fill out form	Team		2/1	19/18				
	A2- Require requestor to Submit request Electronically	Eric		2/	/19/18				
	A3- Revise the current form to include more assistance to self check errors and omissions	Eric		2	2/19/18				
	B1- Escalate the filling of the part time position for Purchasing Specialist	Eric		2/	19/18				
	B2- Lock-in vendor Quotes for recurring items for 6 months (and change process)	Eric		2/*	19/18				
	B3- Implement an electronic Bid System used by the Dept	Eric/ ISD		2/	/19/18				
	C1- Develop back-up Policy for when Purchasing Spec is out of office	Eric		2/	19/18				
	Secure Management Approval of Countermeasures (share benefits and savings)	Team				3/30/1	1		
	Communicate/Train Staff in Countermeasures and related policies/procedures (share benefits and Mgmt Support)	Team					4/30/	1	
	Implement Countermeasures	Team						5/31/	1
	Establish On-going responsibilities and standardize countermeasures into operations	Team						On-Goin	 וק



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A3- Revise form to assist requester to correct errors

The team created an MS Excel Material Request Form... with drop down boxes.... and validation

MATERIAL REQUEST FORM



Please complete, validate info and submit via email attachment to =>Ernesto.Martinez@miamidade.gov

Requester: John Watt

Requester Classification: *Electrician*

QUANTITY	UNIT	PART DESCRIPTION	Par	t Number (Validation		Work Order #
2	(Each	50 Amp Spider Box	Enter=>	3221415SBX	Error! Check	Picnic Field Electrical	4216
2	Lacin		Re-Enter=>	3221451SBX	Part #s		4210
25	East	50 Amp copper wire	Enter=>	321314SBX	Validated	Picnic Field Electrical	4216
23			Re-Enter=>	321314SBX	Vanualeu		7210
4		Concrete mix	Enter=>	D328761	Retype Part #	Picnic Field Electrical	4216
+ (Re-Enter=>				1210

APPROVED BY: Carson Fales

Date 2/4/18



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Date: 2/2/18

B2-Lock in Vendor Quotes for 6 months

The team is proposing a 6 month "Price Lock" from vendors.



REQUEST FOR QUOTATION

MIAMI-DADE COUNTY Zoo Miami 12400 SW 152nd Street Miami, Florida 33177

DATE ISSUED: 01/19/2018

QUOTE DUE DATE: 01/26/2018 QUOTE DUE TIME:2:00 PM

QUOTE #: FY18-A1222B CONTRACT #: 7963-1/22-1 (BM) Concrete Mix / Stockroom / 04 CONTACT PERSON: Ernesto Martinez

PHONE: 305-251-0400 ext. 5084995 FAX: 305-596-8018

Email:

zoobids@miamidade.gov

SEALED QUOTE REQUIRED: YES INO

Define

SCOPE OF WORK \ TECHNICAL SPECIFICATIONS \ ADDITIONAL ITEMS: Attached

**All prices shall be F.O.B. Destination delivery point including all costs and freight unless otherwise specified.

Failure to complete and sign this form renders your bid/quotation non-responsive and ineligible for award. Requests for additional information or clarifications shall be made via email to the contact person identified on this form. A copy for all correspondence must be filed with the Clerk of the Board at <u>clerkboc@miamidade.gov</u>

All applicable terms and conditions pertaining to this ITQ may be viewed online by clicking on the link listed below: http://www.miamidade.gov/procurement/library/boilerolate/general-terms-and-conditions-r15-2.pdf

SUBSTITUTES ALLOWED: Yes 🛛 No 🗌

ITEM	DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE
1	Pallets of 60 Lbs. bag of Concrete Mix	4 Pallets	\$	\$
	Quote Valid for 6 Months	TOTAL	\$	

DELIVER TO: Zoo Miami Warehouse 12400 SW 152nd ST. Miami, FL 33177 Attn: Ernesto Martinez Delivery is required in <u>07</u> calendar days after receipt of an order. Otherwise specify number of calendar days for delivery after receipt of order: _____

Method of Award: In the Aggregate to the Lowest Responsive Responsible Bidder

Small Business Enterprise?	Yes	No									
Micro Business Enterprise?	Yes	No									
If yes, please provide your Certifica	tion Number:										
Authorized Signature:				Title:							
Print/Type Name:				Phone							
E-mail:				Fax:							
Firm Name:			F.E.I.N	. No.: _	 	/	1	/	1	/	
Address:	\sim	`		City:						St	ate:

It is hereby certified and affirmed that the bidder shall accept any awards made as a result of this quotation. Bidder further agrees that prices quoted will remain fixed for a period of <u>6 Months</u> from date quotation is due. If awarded a purchases order or contract as a result of this solicitation, bidder further agrees that prices quoted shall reviain fixed and firm for the term of the contract. The execution of This Form constructes The uncourse the property of PROPOSER TO BE BOUND BY THE TERMS OF ITS PROPOSAL FAILURE TO SIGN.

[•]Measure[>] •Analyze<mark>>Improve</mark>>•Control

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF PROPOSER TO BE BOUND BY THE TERMS OF ITS PROPOSAL FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED ABOVE BY AN AATTHARIZED REPRESENTATIVE SHALL RENDER THE PROPOSAL NON-RESPONSIVE. THE COUNTY MAY, HOWEVER, IN ITS SOLE DISCRETION, ARCE Y ANY PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE PROPOSER TO THE TERMS OF ITS OFFER.



Quote Valid for 6 Months



AN ORDER

THIS IS NOT

Page 1 of 4

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Estimated Return on Investment (ROI)

The team estimated the net benefits and ROI.



ROI WORKSHEET for: Reducing Time to Procure Zoo Materials

ITEMIZED COSTS (DESCRIPTION)	\$ VALUE (ANNUALIZED)	ITEMIZED BENEFITS (DESCRIPTION)	\$ VALUE (ANNUALIZED)				
A1- Develop training on how to research specs and fill out form	\$500	Rescheduling staff: 0.25 hours* \$25.00* 50%*1,500 of POs per	\$2.760				
A2- Require requestor to Submit request Electronically	No Cost	year= \$4,700 X80%	\$3,760				
A3- Revise the current form to include more assistant to self check errors and omissions	No Cost	Transferring animals to other exhibits/ holding containments:	\$2,480				
B1- Escalate the filling of the part time position for Purchasing Specialist	No Cost	3* \$20.00* 52 weeks= \$3,100 X80%					
B2- Lock-in vendor Quotes for recurring items for 6 months (and change process)	No Cost	Guest refunds: \$22.95*1,200 refunds per year= \$27,500X 80%	\$22,000				
B3- Partner with OMB/stakeholders to conduct decision analysis for determining viability of electronic Dept-wide Bid System for Vendors	\$2,000	Downtime for Trades staff: 25 employees*1 hr/week* 52 weeks*	\$20,800				
C1- Develop back-up Policy for when Purchasing Spec is out of office	No Cost	No Cost \$20.00= \$26,000 X80%					
Total Annualized Costs	\$2,500	Total Expected Annualized Benefits	\$49,040				
Net Benefits==> \$46,540							
ROI==> 19 : to 1 ratio							



Define Measure Analyze Improve Control

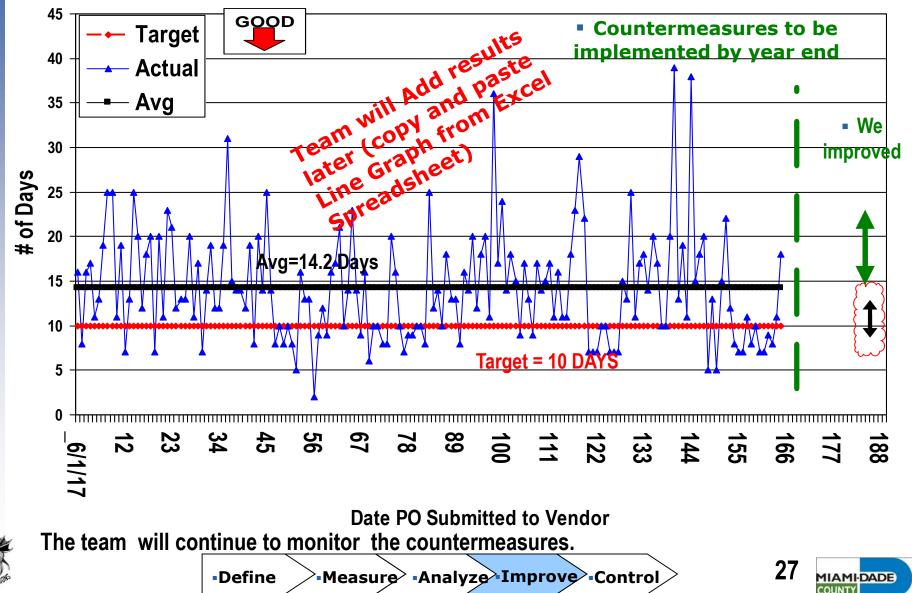


Review Results

19., 21.

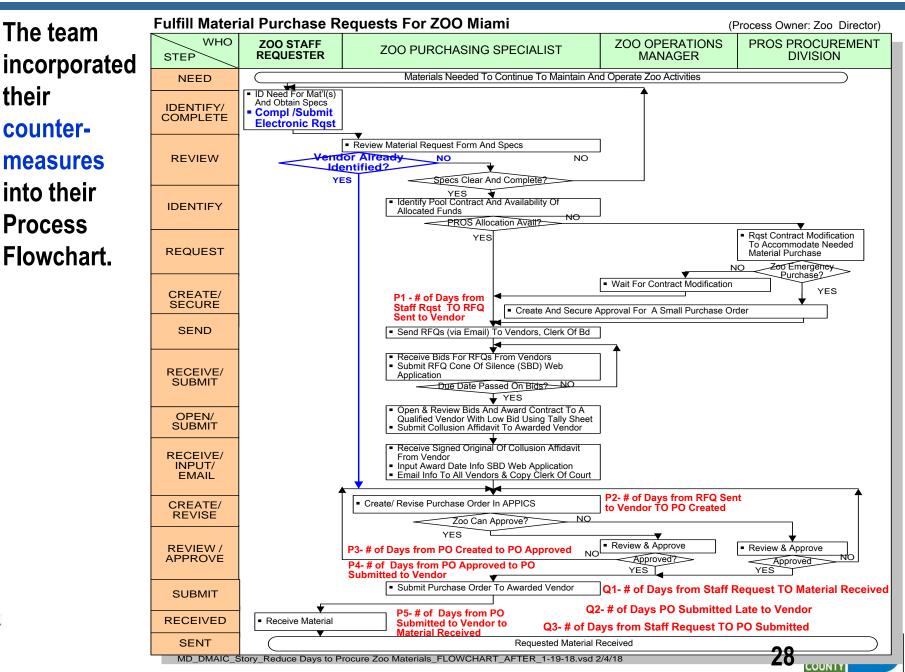
The team collected indicator data and reviewed performance trends:

Q3- # of Days from Material Request TO Purchase Order Submitted to Vendor



Standardize Countermeasures

22.



Standardize Countermeasures

The team completed the Process Control System form for the Process.

	F	Proc	ess C	control Sys	tem					
Proc	ess Name: Fulfill Material Put		Process Owner: PROS Asst Director							
requests for Zoo Miami										
Proc	ess Customer: Patrons, Zoo	200	Critical Custome	r Require	ments: Sec	cure Requested				
Anim	als		Materials timely							
Proc	ess Purpose: Procure Mate	erials ne	eded	Current Sigma Level: TBD						
	oo Miami Operations			Outcome Indicators:						
				Q1, Q2, Q3	3					
	Process and Quality Indicators			Checking / Indicate		ng				
	Process Indicators	Control			Timeframe		Contingency Plans /			
	And	Limits	Data to Collect		(Frequency)	Responsibility	Misc. • Actions Required			
					When to		for Exceptions			
				is Checking Item	Collect	Who will	Procedure			
	Quality Indicators	Targets 2		ndicator Calculation Data? Check?			References			
P1				FQ Sent)- (Date	Monthly	Zoo	Zoo Procuremen			
	to RFQ Sent to Vendor	Days	Staff Rq	ist)		Operations				
						Mgr	escalate to Mgm			
P2				O Created)- (Date	Monthly	Zoo	Zoo Procuremen			
to Vendor to PO Created		Days RFQ Se		ent)		Operations	Spreadsheet;			
					Monthly	Mgr	escalate to Mgm			
P3				Date PO Approved)-		Zoo	Zoo Procuremen			
	Created to PO Approved		(Date P	PO Created)		Operations				
						Mgr	escalate to Mgm			
P4	# of Days from PO	1 Day		O submitted to	Monthly	Zoo	Zoo Procuremen			
	Approved to PO Submitted			- (Date PO		Operations				
	to Vendor		Approve			Mgr	escalate to Mgm			
P5	# of Days from PO	5		aterial Recd)-	Monthly	Zoo	Zoo Procuremen			
	Submitted to Vendor to	Days		O Submitted to		Operations				
	Material Received		Vendor)			Mgr	escalate to Mgm			
Q1	# of Days from Staff	15		aterial Recd)-	Monthly	Zoo	Zoo Procuremen			
	Request to Material	Days	(Date St	taff Rqst)		Operations	Spreadsheet;			
	Received					Mgr	escalate to Mgm			
Q2				O Submitted)-	Monthly	Zoo	Zoo Procuremen			
	Late to Vendor	Days	(Date St	taff Rqst +10 days)		Operations				
						Mgr	escalate to Mgm			
Q3	# of Days from Staff	10	`	O Submitted to	Monthly	Zoo	Zoo Procuremen			
	Request to PO Submitted	Days	Vendor)	- (Date Staff Rqst)		Operations				
						Mgr	escalate to Mgm			

Approved:

Date:

_____ Rev #:_____

Rev Date:

29

23.

The team is proposing to use a specially designed Mgmt Report to monitor ongoing and track through Active Strategy.



•Define -Measure •Analyze •Improve •Control

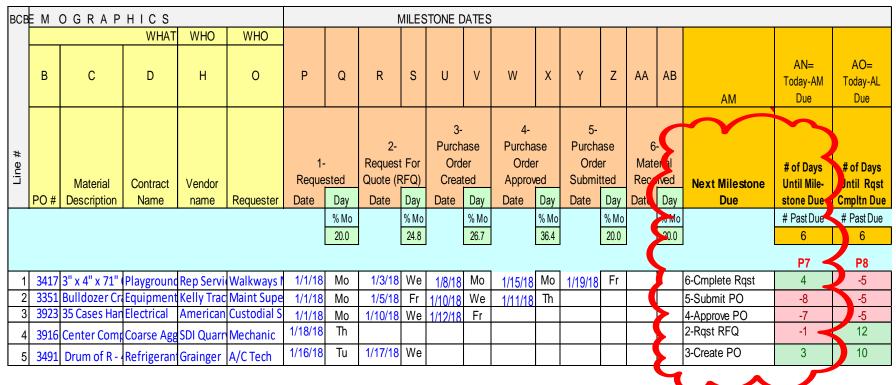
Standardize Countermeasures

The team will use a specially created spreadsheet that will help the Purchasing Specialist manage the Requests during the process. The spreadsheet displays the Next Process Milestone Step Due and the number of days until that step is due.

23.

30

Material Procurement Status Summary (Every Row is a material Request)





•Define •Measure •Analyze •Improve •Control

Identify Lessons Learned

24.,25. 🗹

Lessons Learned

- 1) Learned how to solve a "Cycle Time" problem using a flowchart...duration data helped identify the step that was getting delayed in the late requests.
- 2) Single Case Bore Analysis was helpful in narrowing the team's focus to identify root causes.
- 3) Pareto analysis using QCTools was quick and easy.

Next Steps

Continue to implement countermeasures and monitor performance results using the specially designed management report and track through Active Strategy.





