City of Dallas

Building Inspection Call Center Process Improvement

Toyota and PI Team Workgroup Government Performance and Financial Management October 25, 2021

Patrick Blaydes, Manager, Development Services Tony Rader, Continuous Improvement Specialist, Budget & Management Services Sheila Gray, 311 Manager, 311 Amanda Nabours, IT Architect, Information and Technology Services Alex Rodriguez, Strategic Planning Manager, Dallas Fire-Rescue



Continuous Improvement Leaders:

Tony Rader, DWU, LSS Black Belt Alex Rodriguez, DFR, Strategic Planning Manager, Six Sigma Black Belt Professional Sheila Gray, Manager 311, LSS Green Belt Amanda Nabours, IT Architect

Project Team: Elaine Mendez – Sr. Office Assistant Patrick Blaydes - Manager

TSSC: Hitomi Scott – Project Lead, Senior Manager, Bobby Graves – Advisor, Jamie Bonini – Advisor, TSSC VP



Purpose



Provide a high-level overview of the Process Improvement project at BI Call Center

Agenda

- 1. Background
- 2. Business Need
- 3. Outcomes

- 4. Initial Condition
- 5. Kaizen Activities
- 6. Reflections & Learning



I. Background



Organization:

- Building Inspection Call Center & Walk-Up Service: Oak Cliff Municipal Center, 320 E. Jefferson Blvd., Dallas TX 75203
 Focus Area - Call Center (5 employees) Answer various questions related building permits, inspection, etc. from customers.
- Increased need for Call Center services after Covid 19 due to the limited Walkup services.

Duration:

4 month initiative to improve customer service using Toyota methods and lean six sigma



II. Business Need



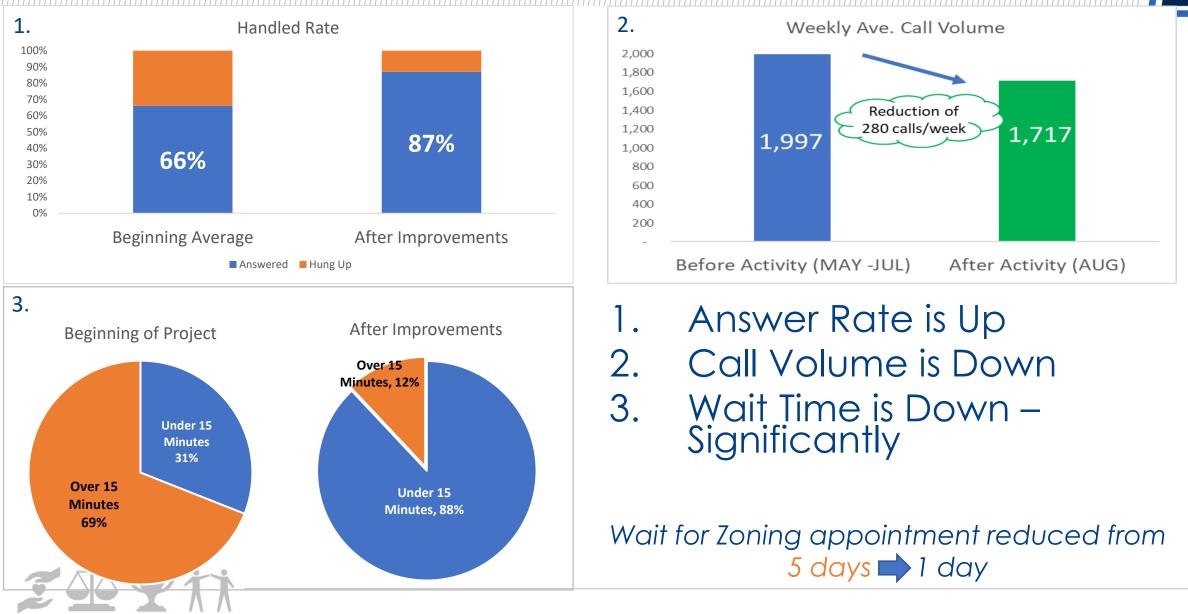
- **Business Need:** Improve customer service at Call Center.
- Increase the # of calls handled. (Reduce Abandon Rate).
- 2. Reduce the number of in-coming calls.
- 3. Reduce the length of time customers are waiting.
- 4. Understand the capacity of the Call Center to staff appropriately during peak time.



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III. KPI Results - Outcomes





IV. Initial Condition (2) – Call Center Environment

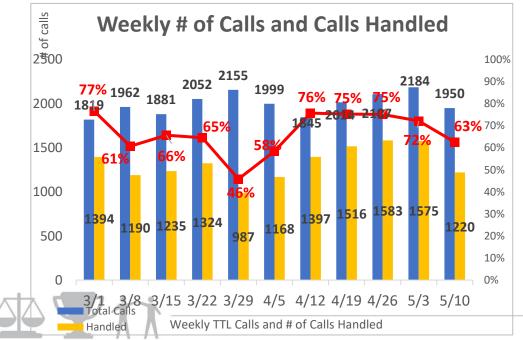


- 5 Team Members, 3 are from Temporary Agency
- Lack of necessary tools PC & 2 Screens, Headsets
- No training standard
- Some had no access to necessary systems

- # of calls were increasing
- Dealing with frustrated and angry customers
- Isolated and difficult to communicate to other sections of BI

Initial Results

Could not keep up with the increasing # of Calls 66% average Answered Rate

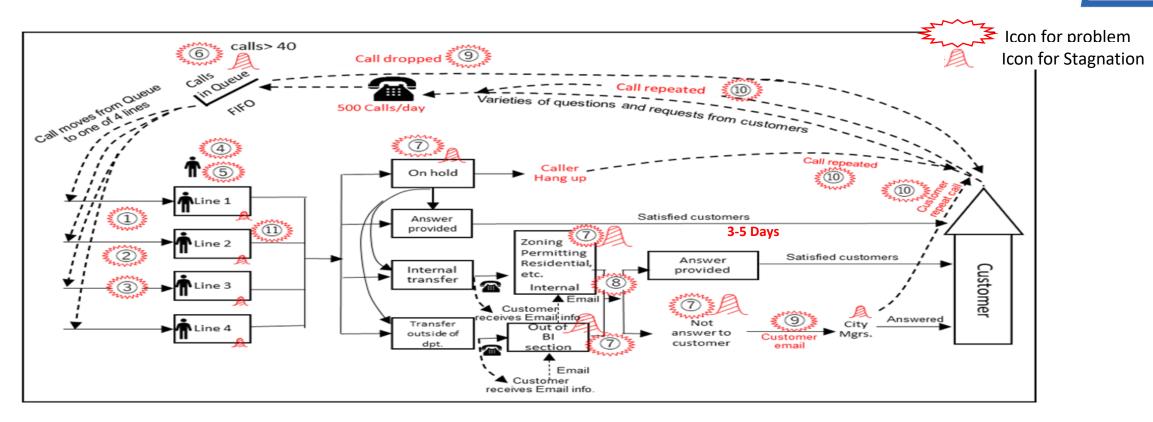


69% of customers waited in queue over 15 minutes



IV. Initial Condition (1) - Process Map





- 1 5 Call takers but only 4 lines
- ② Skill differences
- 3 Lack of skills
- (4) Lack of necessary tools (2 PC short, Headset)

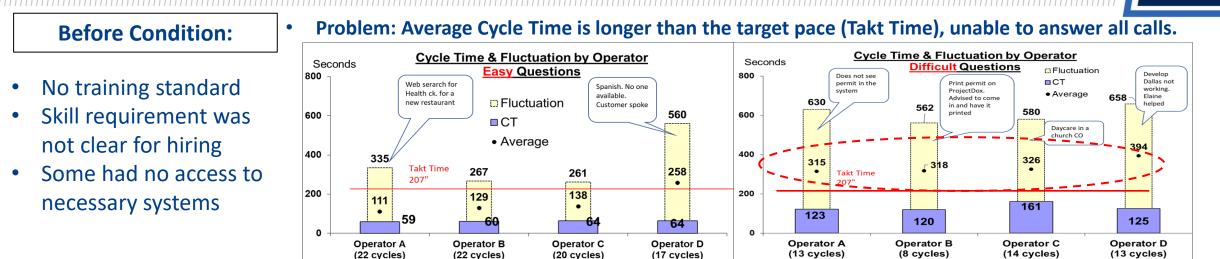
- 5 Limited ProjectDox Accessibility for some members
- ⁽⁶⁾ Call stagnates
- Customer waiting
- ⁽⁸⁾ Long LT to respond

- 9 Unhappy customer
- 10 Repeated calls
- Slow to get help. Example:
 17 min. to call Team Lead for help.

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V. Activity(1) – Understand Cycle Time





Breaking down questions into categories (150 Calls)

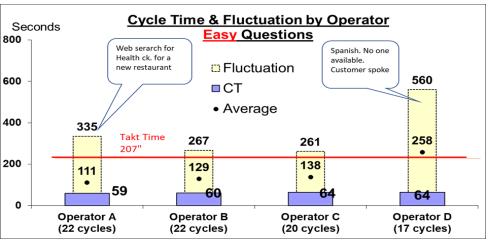
47% of the questions were out of Call Center's Scope. These calls affected the performance of Call Center Team Members and # of incoming calls

Kaizen Opportunity to reduce incoming calls

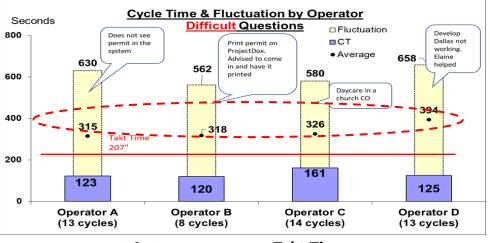


III. Cycle Time Results

Before

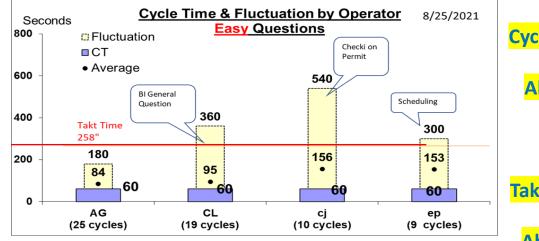


Before

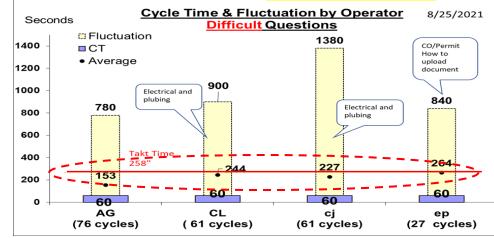


Averages are over Takt Time

After Demand decreased



After Demand decreased



Cycle Time) is reducing Able to Serve more Customers Takt Time is Increasing Able to Spend more time with each Customer

Pace (Average

Takt Time = Average call duration required to answer all calls. (Total Number of Available Minutes/Total number of Calls)

V. Activity (2) – Providing Necessary Tools



Before Condition



After Condition



• Provided PC with two screens

- Using headset (Easier keyboard access)
- Skill training was completed
- Have access to ProjectDox, Posse, etc.



- No training tracking system
- Skill requirement was not clear for hiring



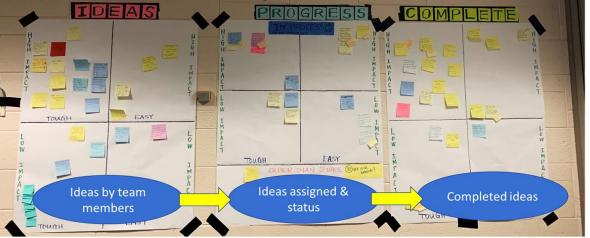
After Condition

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V. Activity(3) – Team Member Engagement



Ease & Impact Board



- Getting ideas from team members
- Kaizen team to track the status of completion



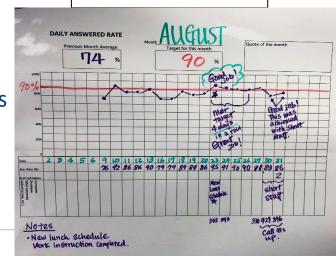
Over 60 ideas collected

Daily Huddle for better communications & Teamwork

After Condition:

Before Condition:

- No daily KPI data
- Not utilizing data
- Team's daily performance was not clear
- No problem solving
- Low morale



- Visualizing daily performance of Call Center
- Manager holds daily Huddle
- Team gives feedback & surface problems
- Manager takes action to solve problems
- Managers have easy access to daily performance data

V. Activity(4) – Customer Service Kaizen



Optimal Staffing during Peak Time

Before Condition:

- Peak Time not Identified
- Phones were not fully covered
- Cannot catch up with the customers in the queue after peak time
- Longer customer wait during peak time

After Condition:

- Peak Time identified
- Standardized the way to staff during peak time
- Created Work Instruction Sheet for optimal staffing
- Phones are fully covered during Peak Time
- Reduced wait time for customers

Work Instruction Sheet

		F	ully Staffed			
	1	2	3	4		
8-9	Michelle	CL	AG	CJ		
9-10	Michelle	CL	AG	CJ		
10-11	Michelle	CL	AG	CJ	Lunc	h Times
11-12	Michelle	CL	AG	CJ	Evelyn	EM
12-1	Michelle	CL	Evelyn	EM	AG	CJ
1-2	Evelyn	EM	AG	CJ	CL	Michelle
2-3	Evelyn	CL	AG	CJ		
3-4	Evelyn	CL	AG	CJ		
4-4:30	Evelyn	CL	AG	CJ		

		v	Vith 1 Out			
Work Station	1	2	3	4		
8-9	SP1	CL	AG	CJ		
9-10	SP1	CL	AG	CJ		
10-11	SP1	CL	AG	CJ	Lunch Times	
11-12	SP1	CL	AG	CJ	SP2	
12-1	SP1	CL	SP2		AG	CJ
1-2	SP2		AG	CJ	CL	SP1
2-3	SP2	CL	AG	CJ		
3-4	SP2	CL	AG	CJ		
4-4:30	SP2	CL	AG	CJ		

		V	Vith 2 Out			
Work Station	1	2	3	4		
8-9	SP1	CL	AG	SP2		
9-10	SP1	CL	AG	SP2		
10-11	SP1	CL	AG	SP2	Lunch Times	
11-12	SP1	CL	AG		SP2	
12-1		CL		SP2	SP1	AG
1-2	SP1		AG	SP2	CL	
2-3	SP1	CL	AG	SP2		
3-4	SP1	CL	AG	SP2		
4-4:30	SP1	CL	AG	SP2		

Give clear instruction how to staff based on the # of staff out for the day



V. Activity(4) – Customer Service Kaizen

Zoning Questions

Before Condition:

- Call transferred to Zoning section
- Long response time to customers
- Frustrated customers



After Condition:

- Schedule consultation with Zoning instead of transferring calls
- Lead Time reduced from 3-5 days to 1 day
- Customers get answers quicker

Website Improvement & Solving Major Problem

Before Condition:

- Customers call with website problems
- No actions taken before

Actions by Kaizen Team

- Kaizen team & IT worked together to clarified problems
- IT worked quickly to solve the problem

After Condition:

- 17 updates made on website
- Largest problem solved!
 (Verification code not sent to customers=> No access to their account.)

17 calls/day \rightarrow Zero



VII. Reflections & Learning Points

Respect for People

- Proper Onboarding (Login, Building, Parking, and Software Access)
- Giving Necessary Tools (Hardware, Headsets)
- Standard needed for hiring Agency employees
- Employee Engagement
- Training is Needed
- Process Improvement
- IT Support is Crucial
- Process is Repeatable





Ongoing Success

September:

• Handle Rate 87%

• 7.5% waited over 15 minutes



Questions?



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