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It's now March, and according to a December 2018 Business Insider article, by this time 80% of people have failed to keep their New Year's resolutions and they become just a distant memory. We at MBP wanted to make resolutions we could keep, but how do you cement real change? According to Yale University's Professor John Bargh, we should establish "small, reasonable changes that we can seamlessly incorporate into existing daily routines."

At MBP, we made our own corporate resolution last year to become more efficient in the way we operate. We saw how successfully Lean methodology and tools were being implemented on the construction projects we were managing and could see its applicability for our own internal operations. How much waste could we eliminate from our own processes?

We turned to one of our resident experts in Lean Six Sigma, Tom Orr. When not guiding our clients through similar journeys, Tom guided us through the process of making "small, reasonable changes" to establish behaviors of continuous improvement and productive change.

# WHAT IS LEAN SIX SIGMA?

Lean is utilized to identify waste in a process and to eliminate or reduce that waste. Six Sigma focuses on solving a problem that has no current proven solution. Six Sigma utilizes data to prove that a process is a good candidate for improvement and this data then establishes a baseline that can then be utilized in the future to determine if the implemented changes have improved the process.

The Lean Six Sigma approach involves identifying those activities that are "non-value added" and reducing or eliminating those activities. Value-added activities are defined as those activities that physically change an item, the customer would pay for if they knew you were doing it, or it is done right the first time. It is intended to accelerate the improvement process. Lean also focuses on continuous improvement and promoting a culture where:

- People are open to change
- Management is supportive of change initiatives
- An organization listens to its customer
- Actions are team-based and not individual based
- Team members share lessons learned

- The work environment is open and transparent
- The organization is always looking for opportunities to improve

All of these resonated with MBP and reflected the kind of organization we are. For that reason, Lean Six Sigma represented an ideal vehicle for change. We took this knowledge and committed to continuous improvement based on these principles.

Here's how our New Year's resolution began.

# TARGETING THE OPERATIONS TO IMPROVE

We began by gathering feedback on those operations that most frustrated us, consumed too much of our time, and/ or impacted our operations. Forms of waste can take different forms:

Waste Form	Causes	Examples
Motion (movement of operator)	Poor work scheduling     Nonstandard work method     Redundant approvals	Looking for files which have no defined place     Work by experience with no standard methods     Repetitive/redundant actions
Transportation (motion of item)	Poor location of work area     Poor document flow     Defects/re-work	Walking to communicate or correct mistakes     Poor office layout     Moving files on server
Waiting	Unbalanced workload     Redundant approvals     Improperly coordinated dept.	<ul> <li>Some team members having more assignments</li> <li>Software license limitations</li> <li>Delayed submittal</li> <li>Attendees late for meetings</li> </ul>
Inventory	Unbalanced workload     Existence of irrelevant data     Inconsistent work speed	Some team members having more assignments     Documents waiting to be worked on     Lack of training causes slowdown in task
Over-production (making more, earlier, or faster than is required)	<ul><li>Unbalanced workload</li><li>Ineffective supervision</li><li>Lack of communication</li></ul>	<ul> <li>Getting started before all info is obtained</li> <li>Sending e-mails to everyone</li> <li>Starting and stopping on job</li> </ul>
Excessive processing (doing more than customer wants)	Lack of communication/ info     True requirements undefined     Nonstandard business process	Sending electronic & hard copy     Same info in different forms     Use of different software in different departments     Re-entering data
Defects (re-work)	Improper training/skillsets     Lack of communication/ info     Rushing the process     Poor design of forms/ equip.     Confusing procedures	No standard work, individual methods     Work product does not meet customer's needs     Data entry meticulous, work monotonous     Software incompatibility
Wrong job title doing the work	Improper training/skillsets     Politics/business culture     Incompatible hiring     practices	More experienced staff doing menial tasks     Less experienced doing advanced tasks     Using software w/o training     Qualifications unclear

Some content extracted from Performance Excellence Inc., "Principles of Lean Office."

We then winnowed down that list of "irritating" operations using the following selection conditions:

- Is the current process defined?
- Would improvements in the process impact revenue, profit, or cash flow?
- What data/metric would we analyze?
- Is data available? Are needs measured?
- Is it ready for study?
- Is it a priority?

To date, we have selected and optimized six key operations based on these criteria.

### THE PROCESS TO OPTIMIZE

Using the Lean Six Sigma processes, Tom led us through these established steps for each operation we wished to improve:

#### Define

We defined our business case, problem and goal statement, and operational definition. For example, we wanted to improve our speed of hiring from six weeks to three weeks in order to prevent us from losing good candidates and to more promptly respond to our clients' needs.

### Measure

For each process, we quantified our current output, used a sigma calculator to determine how far our performance was from best in class, and established a target goal/output.

### **Analyze**

From there, we defined the process as it existed currently (what is, not what it should be), hypothesized on why this process requires so much additional effort, and identified which steps add value and which could be reduced or eliminated.

# **Improve**

To improve, we brainstormed on ways to reduce or eliminate non-valued added steps in the process and ways to reduce or eliminate causes for the additional effort. We also identified those actions which would deliver the most improvement and identified a champion to get done what needed to get done by an established target date.

## After Improvement and Control

We set a timeframe to implement and test our improvements, at the end of which, we would verify and remeasure and establish controls.

### THE IMPACT ON TEAM

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These processes were implemented through group workshops, assembling team members with diverse experiences and roles but all impacted by the system. Conversations were not always easy. No one person defined the current process the same way (you see the problem!) and oftentimes there was no clear agreement on why the process was broken. Solutions were sometimes hard to devise. Fixing a longstanding process required breaking down old

paradigms and thinking expansively. But, ultimately, we did it, undertaking workshops to improve six different MBP internal processes.

We saw in all of these optimization workshops collateral improvements: we changed our mindset where we now think in terms of promoting value and reducing wasted effort. We also recognized that it was important to measure our results in order to gauge the extent of our improvement. In addition, we cemented strong relationships within our team as team members collaborated to solve difficult problems. And we were thus inspired to keep going, thereby reinforcing our culture of continuous improvement.

### **PATH FORWARD**

Our job is in no way complete but by selecting a small number of key processes to optimize, we were able to keep our resolution and begin to eliminate waste. We plan to revisit all of the processes from this past year, seek feedback on whether our team notices an improvement, and measure our results to quantify our improvement. We will also find our next set of processes to tackle and we will take our Lean Six Sigma mindset with us to our projects and our clients.

If you are looking for ways to implement Lean, please contact us for more information.

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