# IMPLEMENTING INCENTIVE PROGRAMS TO ENCOURAGE RIGHT SIZING

### **ENGINEERING MANAGEMENT**

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MEM 6200: ENGINEERING MANAGEMENT PROJECT

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### DEFINE

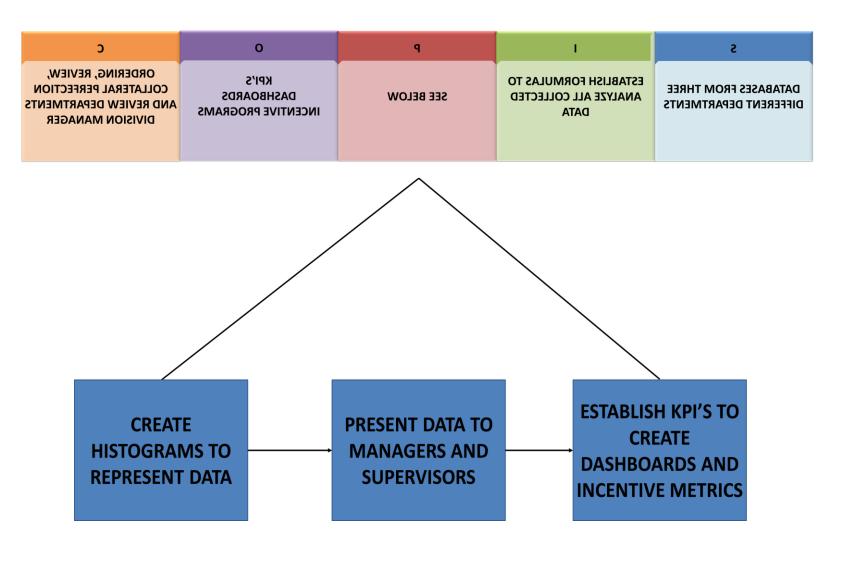
### PROBLEM STATEMENT

The Commercial Credit Operations Division is responsible for booking commercial loans, modify all changes related to the loan, such as: interest rates, payments, addresses, collaterals, property and insurance taxes, among others; orders and reviews of appraisals, perfection of the collateral and the custody of the collateral.

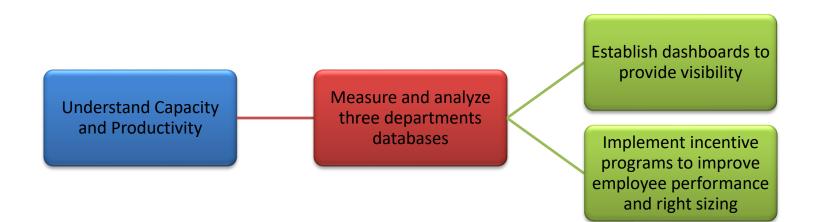
The division is moving to a lean thinking environment where all operations must be measured and take them to their optimal level by knowing the optimal number of employees needed for each operation. Productivity and Capacity per employee are unknown, key performance indicators are not established and management has no visibility of what their numbers looks like.

### PROJECT DESCRIPTION

### **SIPOC DIAGRAM**



### CTQ TREE



### **OBJECTIVES**

- Maximize capacity on 3 departments of Commercial Credit Operation Division.
- Increase employee productivity by implementing incentives based on performance.

## MEASURE

### DATA COLLECTION PLAN

DATA COLLE	CTION PLAN								
DEFINE WHAT TO MEASURE		DEFINE HOW TO MEASURE			WHO WILL DO IT?	SAMPLE PLAN			
Measure	Type of Measure	Operational Definition	Measurement or Test Method	Data Tags Needed to Stratify the Data	Data Collection Method	Person Assigned	What?	Where?	When?
Capacity	Activities per workday	Employee true potential of completing an activity	Obtain reports from database	Assigned date, completed date, Activity ID, findings	Computer based	Keylian	Capacity limits	Departments databases	2017 Period
Productivity	Activities per employee	Employee rate of activities per day	Obtain reports from database	Assigned date, completed date, Activity ID, findings	Computer based	Keylian	Productivity target	Departments databases	2017 Period

#### **FINDINGS**

#### Orders per month per Employee: Ordering Department

Employees	Average orders	Average orders per day
	per month	(threshold: at least 5 orders per
		day)
Employee 1	122	6
Employee 2	104	5
Employee 3	104	5
Employee 4	124	6

#### Reviews per month per Employee: Review Department

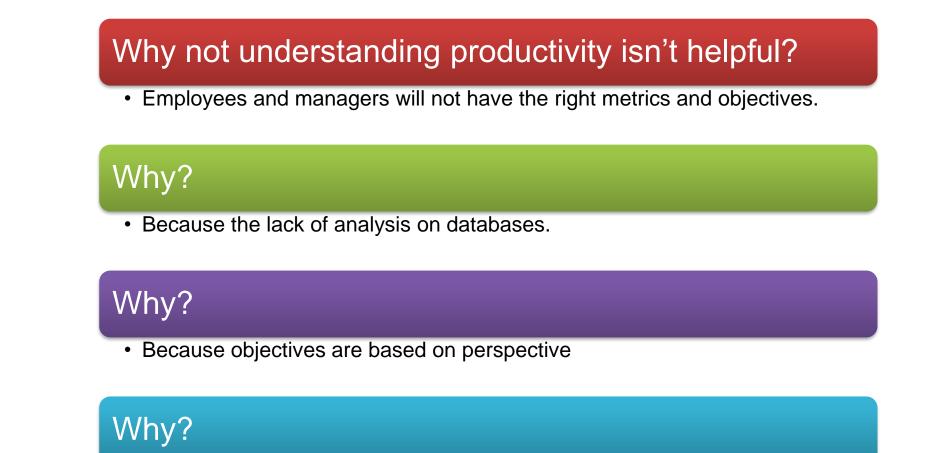
Employees	Average	Average reviews per day
	reviews per	(threshold: at least 4 reviews
	month	per day)
Employee 1	74	4
Employee 2	55	3
Employee 3	63	3
Employee 4	71	4
Employee 5	42	2
Employee 6	74	4
Employee 7	81	5
Employee 8	51	3
Employee 9	65	3
Employee 10	46	2
Employee 11	56	3

# Cases per month per Employee: Collateral Perfection Review Department

Employees	Average	Average reviews per day
	reviews per	(threshold: at least 4 reviews
	month	per day)
Employee 1	61	3
Employee 2		5
Employee 3	57	3
Employee 4	70	4
Employee 5	71	4

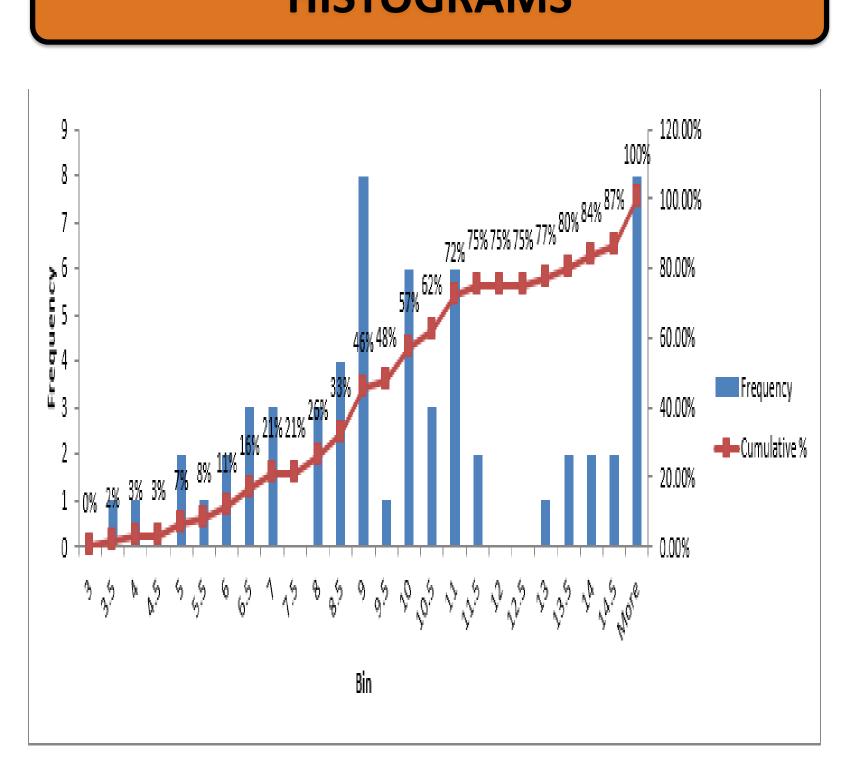
### ANALYZE

### 5 WHY'S



### HISTOGRAMS

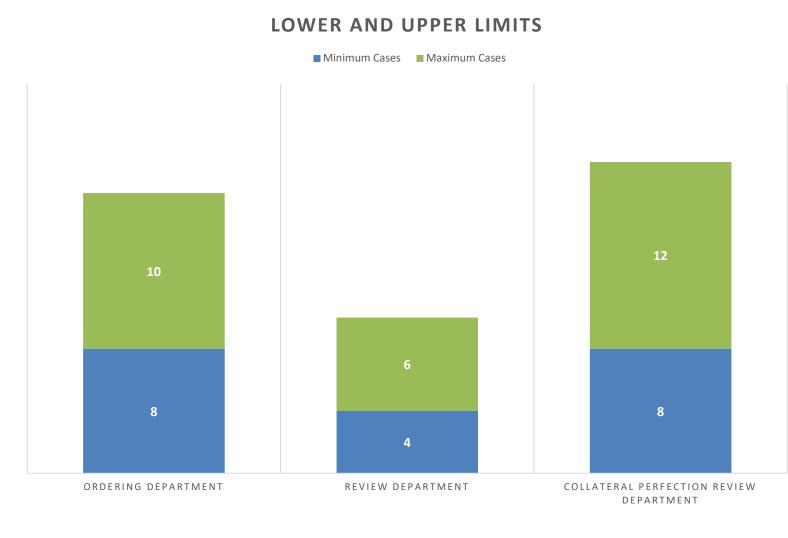
• Because there is no time to understand capacity and available data



Histograms were made on all departments to establish the thresholds of productivity and capacity.

By analyzing the data through histograms, the underlying frequency distribution of a set of continuous data is shown.

After analyzing all histograms the following conclusions were made:



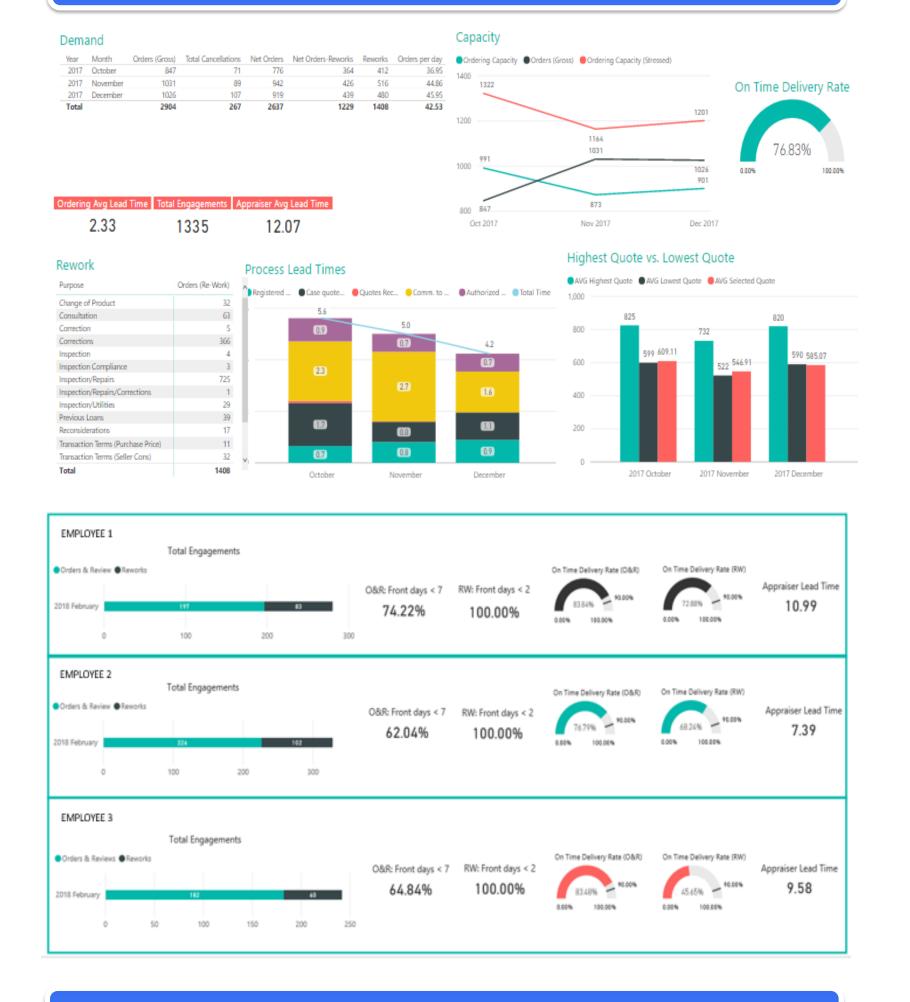
### MPROVE

### POTENTIAL SOLUTIONS

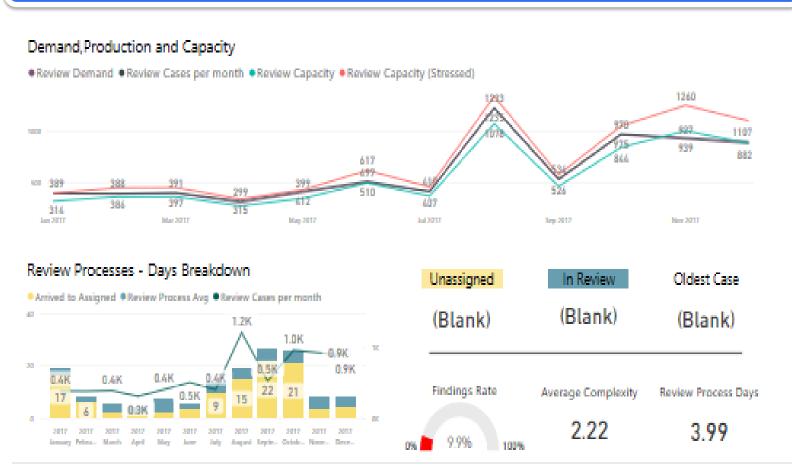
List of Root Causes	List Solutions	% Effect	Estimated Cost	Complexity	Estimated Benefit	Risk	Priority	Validation?	When
Lack of metrics and lack of visibility	Monitor databases and program dashboard on Power Bl	100%	\$0	Medium	Management and employees will have a better understanding of their goals	Low	1st	No	2018 Perio
Lack of incentives implementation	Once the metrics are well established, determine a budget for incentives per department	100%	No data	High	Computer based	Medium	1st	Yes	2018 Period

### DASHBOARDS EXAMPLES

#### ORDERING DAHSBOARD



### **REVIEW DAHSBOARD**



All dashboards were made showing two parts of the business: operational and productivity per employee. This is to provide an entire visibility to managers and employees of how the business and the metrics established are month by month.

# CONTROL

#### PROJECT CONTROL PLAN

	Cases	Days worked	Cases per day	Incentive Threshold		Weight	Points
ORDERING SPECIALIST							
Employee 1	476	45	10.6	8.0	10.0	25%	100%
Employee 2	268	40	6.7	8.0	10.0	25%	0%
Employee 3	351	53	6.6	8.0	10.0	25%	0%

An excel file was created to supervisors that will served as a scorecard to employees in order for them to receive incentives.

The next steps are to standardize the implementation of the incentive program through all the departments. And also, provide trainings through all departments of how to understand KPI's and how to navigate on Power BI.

### PROJECT CONCLUSION

project was based understanding through data employee productivity and capacity. completely amazing how much a could achieve if company understand their numbers and identify KPI's who will help employees to perform better. It was seen that employees were satisfied and feeling comfortable now that they will be able to watch their performance monthly. Motivation between them increase and managers feel more secure in decision making thanks to the visibility of their numbers.

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