## MoreSteam.com



# Could Your Balanced Scorecard Use Some Lean Six Sigma?

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## Agenda

- Welcome
- Introduction of MBB Webcast Series
  - Larry Goldman, MoreSteam.com
- Could Your Balanced Scorecard Use Some Lean Six Sigma?
  - Maurice (Mo) Klaus, MoreSteam.com
- Open Discussion and Questions





## MoreSteam.com – Company Background

- Founded 2000
- Over 250,000 Lean Six Sigma professionals trained
- Serving 45% of the Fortune 500
- First firm to offer the complete Black Belt curriculum online
- Courses reviewed and approved by ASQ
- Registered education provider of Project Management Institute (PMI)





## Master Black Belt Program

- Offered in partnership with Fisher College of Business at The Ohio State University
- Employs a Blended Learning model with world-class instruction delivered in both the classroom and online
- Covers the MBB Body of Knowledge with topics ranging from advanced DOE to Leading Change to Finance for MBBs
- Go to <a href="http://www.moresteam.com/master-black-belt.cfm">http://www.moresteam.com/master-black-belt.cfm</a> for more information about curriculum, prerequisites, and schedule





## Today's Presenter



## Maurice Klaus Product Architect, MoreSteam LLC

- Develops course content, simulations and software,
- Lean Six Sigma Black Belt
- Registered Professional Engineer (Michigan)
- Bachelor and Master of Science degrees in Mechanical Engineering from The University of Michigan, Ann Arbor, Michigan



### The 'Dilemma'

Balanced Scorecard implementation can have its challenges...

...but it also shares some commonalities with Lean Six Sigma.

Measures
Ill-defined Measures

**Data Collection** 

Performance Gap
Performance Gaps That
Don't Actually Exist

Poorly Defined
Strategic Objectives
Strategic Objectives

Customer Needs and Wants Not Considered Voice of the Customer

Processes Changed
Unnecessarily
Process Improvement

Targets
Arbitrary Targets

Initiatives
Initiatives That Don't
Drive Strategy
Projects
Fit to Strategy

☆ Should these methodologies be combined somehow? If not combined, then leveraged? If not leveraged, then what?



## **Objectives**

Balanced Scorecard (BSC) and Lean Six Sigma (LSS)

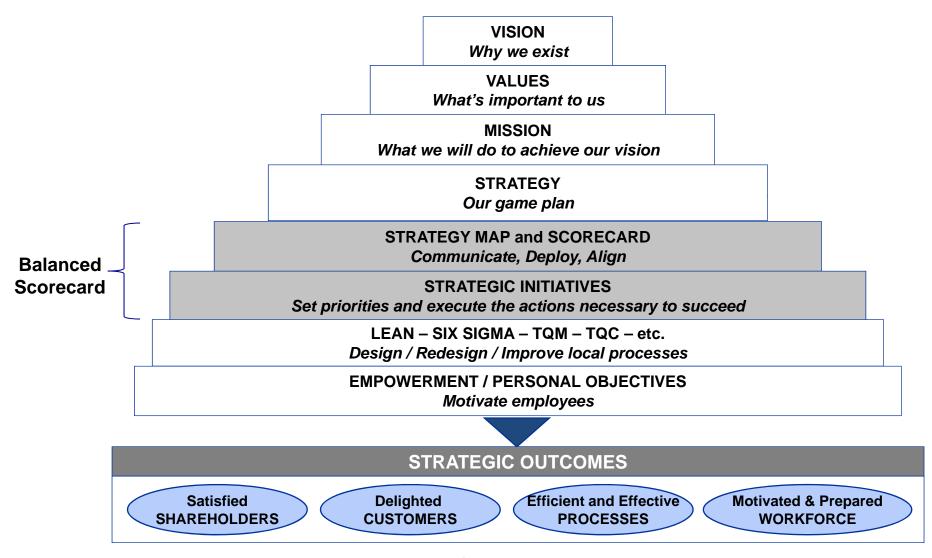


- Common ground
- Key differences
- Keep the BSC and LSS separate organizationally
- How BSC can benefit from LSS

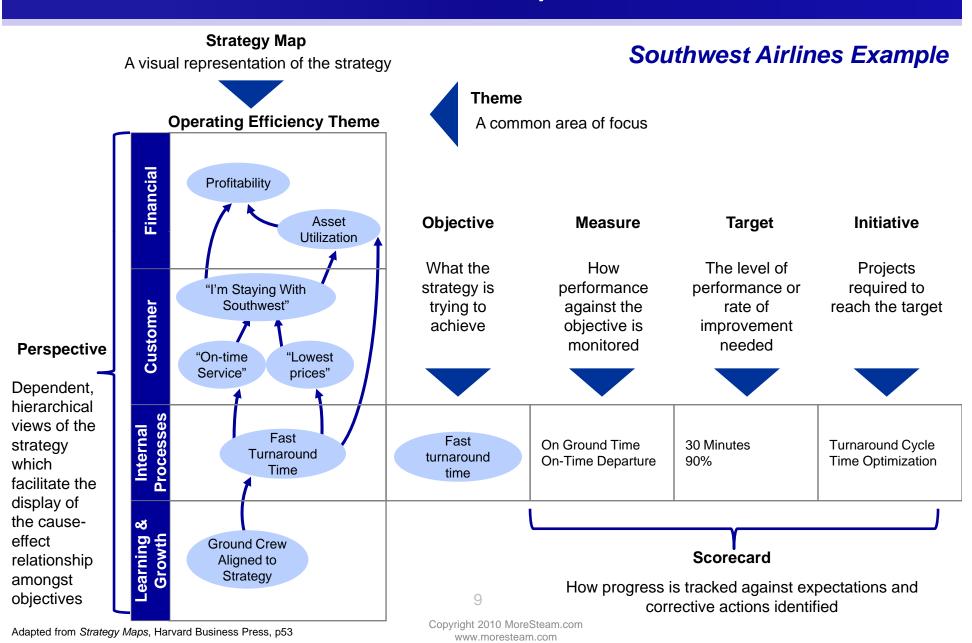
#### **Don't Combine – Do Leverage**



## The Balanced Scorecard - Very Brief Overview



## Balanced Scorecard Components



## The Strategy Map Helps Tell The Story

inancia

Customer

Internal Processes

Learning & Growth

...deliver ever-increasing value to our shareholders.

"What are our shareholders' expectations and how do they define success?"

ensuring that we

...develop mutually beneficial long-term relationships with our customers...

"To satisfy our shareholders, how must we appear to our customers?"

which drives our ability to

...excel at the specific processes which provide our customers with great products and superior service...

"To satisfy our customers, at which processes must we excel?"

enables us to

Reinvigorating our technical, relationship and leadership skills while fostering an entreprenurial culture...

"To excel at our critical internal processes, how must our organization change?"

## A Complete Strategy Management Plan

Strategy Map		Scorecard			
Theme: Operating Efficiency	Objectives	Measurement	Target	Initiative	Budget
Revenue Growth Utilization  Customer  "I'm Staying With Southwest"  "On-time Service"  "Lowest Prices"  Internal Fast Turnaround Time	<ul> <li>Profitability</li> <li>Grow revenues</li> <li>Fewer planes</li> <li>Flight is on-time</li> <li>Lowest prices</li> <li>Loyalty</li> <li>Fast turnaround time</li> </ul>	Market Value     Seat Revenue     Plane Lease Cost     FAA On-Time Arrival Rating     Customer Ranking     # Repeat Customers     # Customers      On Ground Time	<ul> <li>30% CAGR</li> <li>20% CAGR</li> <li>5% CAGR</li> <li>#1</li> <li>70%</li> <li>Increase 12% annual</li> <li>30 Minutes</li> </ul>	Quality     Management     Customer Loyalty     Program     Implement CRM     System      On Ground Cycle     Time Optimization	• \$XXX • \$XXX • \$XXX
Learning & Ground Crew Aligned To Strategy  Strategic Systems Crew Scheduling  Strategic Job Ramp Agent	<ul> <li>Ground crew aligned with strategy</li> <li>Develop the necessary skills</li> <li>Develop the support system</li> </ul>	<ul> <li>On-Time Departure</li> <li>% Ground Crew Stockholders</li> <li>Strategic Awareness</li> <li>Strategic Job Readiness</li> <li>Info System Availability</li> </ul>	<ul> <li>90%</li> <li>100%</li> <li>100%</li> <li>Yr 1 - 0%</li> <li>Yr 3 - 90%</li> <li>Yr 5 - 100%</li> <li>100%</li> </ul>	ESOP     Ground Crew Training     Crew Scheduling System Rollout     Communications Program  Total Budget	• \$XXX • \$XXX • \$XXX

## Common Ground Between BSC and LSS

- Financial outcomes
- Customer



- Y= f(x), cause-effect hypothesis
- Measures
- Root cause analysis
- Projects (initiatives) to close performance gaps



## Differences Between BSC and LSS

Balanced Scorecard	Lean Six Sigma		
<ul> <li>For executive mgt team first, then for all</li> </ul>	<ul> <li>For belts and team members primarily</li> </ul>		
Change management is a major focus	<ul> <li>Change management may or may not be a component</li> </ul>		
<ul> <li>A day-to-day communication vehicle, continuous</li> </ul>	Focus on project completion, non-continuous		
To manage strategy deployment and execution	<ul> <li>To manage process improvement (DMAIC) and design (DFSS) projects</li> </ul>		
<ul> <li>Works best when initiated at the top management level</li> </ul>	<ul> <li>Can be deployed very successfully at lower level operating units</li> </ul>		
<ul> <li>Does not work as a grass roots movement</li> </ul>	<ul> <li>Can work very well as a grass roots movement</li> </ul>		
<ul> <li>Intended to ultimately involve the entire organization</li> </ul>	<ul> <li>Does not necessarily require whole organization involvement</li> </ul>		



## How the BSC Can Benefit From LSS

#### Let's take a look at:

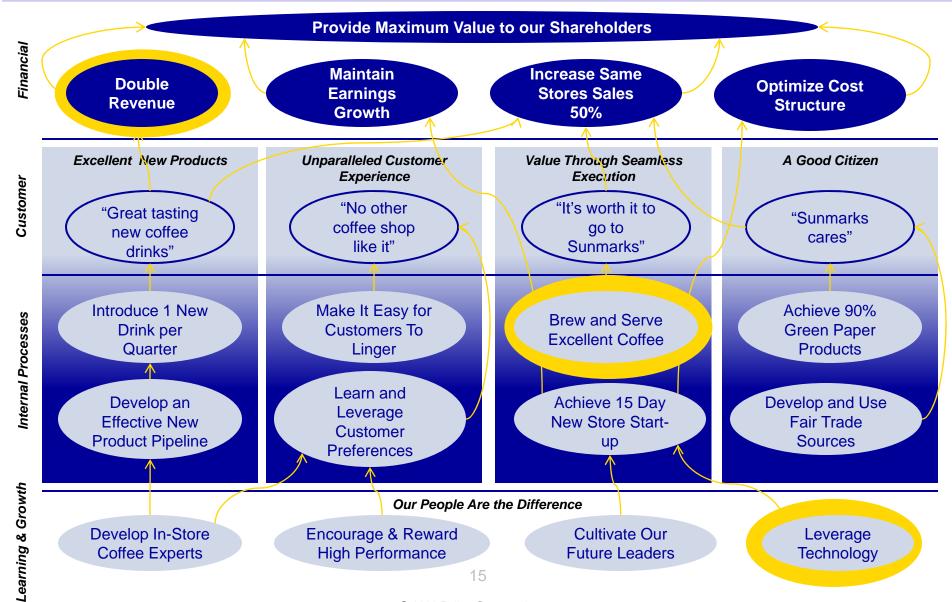
- 5 examples
  - Objectives
  - Measures (2)
  - Performance Reporting
  - Initiative Selection



- Real BSC deployments
- Fictionalized



## Sunmarks Coffee Company



## Strategic Differentiation and Value Proposition

Val	ue	Prop	position	
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Improvement Levers

Example Organizations

Operational Excellence	Product Leadership	
Best Total Cost	Best Product	Best Total Solution
<ul><li>Process     Design/Redesign</li><li>Continuous     Improvement</li></ul>	<ul><li>Product Technology</li><li>R&amp;D Cycle Time</li></ul>	<ul><li>Problem Expertise</li><li>Service Customization</li></ul>
<ul><li>Wal-Mart</li><li>McDonalds</li><li>FedEx</li></ul>	<ul><li>Lexus</li><li>Apple</li><li>Google</li></ul>	<ul><li>Cabela's</li><li>Nordstrom</li><li>USAA (insurance)</li></ul>

Adapted from The Discipline of Market Leaders, Basic Business Press, p194



## Objective Definition Before LSS

Few guidelines for creating

#### **Double Revenue**

 Our revenue growth has been flat for the past 5 years. Because of our new strategic objectives, we will experience double-digit revenue growth from new products.
 Revenue growth for existing products will be no more than single digit but will be positive.



Unclear, Vague, Unmeasureable, Open-ended



## Objective Definition With LSS

Double Revenue

**Based on operational definition requirements** 

Leverage Score: 5
5 being best score

#### **Double Revenue**

 Through a combination of expanding into new markets and penetrating our existing markets we will double the revenue generated through sales of our products within 3 years. The percent of sales from new products will increase from 40% in year 1 to 55% in year 3.



Clear, Unambiguous, Measureable, Time-bound



## Measure Selection Before LSS



#### Declarative

 "We're measuring 'time to prepare' so let's keep doing that."



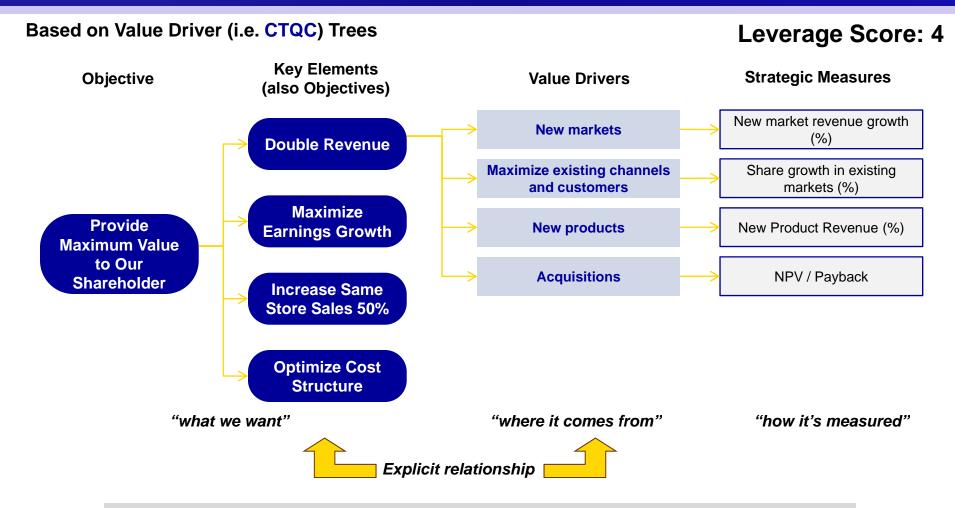
 "Our biggest competitor measures customer engagement time: from the time the customer enters the line to the time the order is placed. Let's do better and measure from the time the customer arrives until they leave."

#### Nominative

"Let's vote."

What do the objectives suggest? What does our strategy need?





#### Measures reflective of the value that the Objectives deliver



## Target Setting Before LSS



#### Declarative

 "Our serve time averages 180 seconds so let's set our target to 175 seconds and give ourselves a stretch task."



#### Comparative

 "Our biggest competitor averages 3.5 minutes so let's set our target to 3.2 minutes. This will make sure we attain a competitive advantage."

#### Nominative

"Let's vote."

What does the customer want? What does our strategy need?

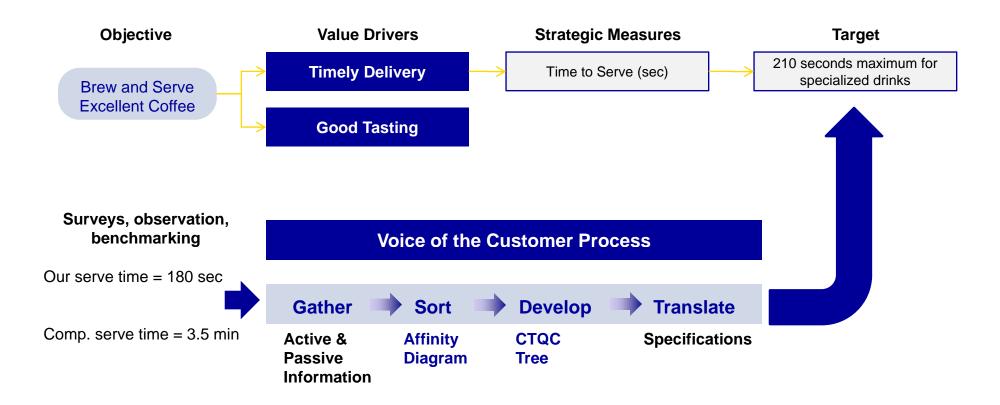


## Target Setting With LSS



**Voice of the Customer process followed** 

Leverage Score: 2



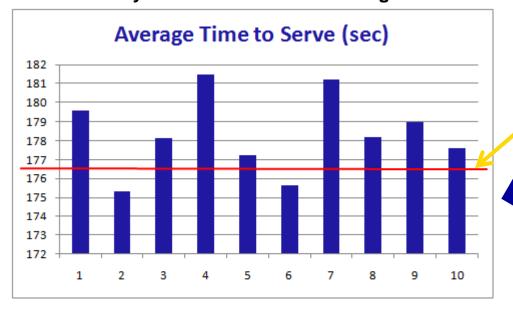
The targets = the required level of performance



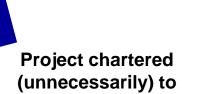
## Performance Reporting Before LSS



#### **Poorly Defined Measures and Targets**



Arbitrary target (declarative)



improve performance

#### What does the process "say"?



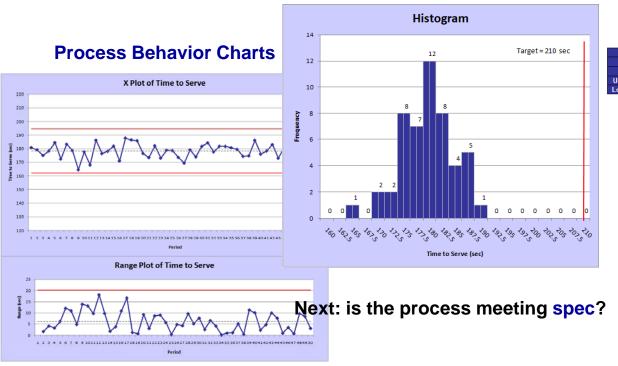
## Performance Reporting With LSS



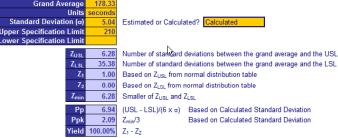
Disciplined approach through Voice of the Process first

#### Leverage Score: 2

#### **Histogram**



Next: what is the process capability?



First: is the process stable?

Finally: analysis & recommendation

Continue to monitor

More process management, less process tinkering



## Initiative Selection Before LSS



#### Declarative

 "We need to make sure we have something covering our ERP system. It's that important."

#### Comparative

 "When I was working at our competitor, we had a project to set up online collaborative design and development. We need the same thing here."

#### Nominative

"Let's vote."



#### Enumerative

"We have the right amount of initiatives already, let's move on."

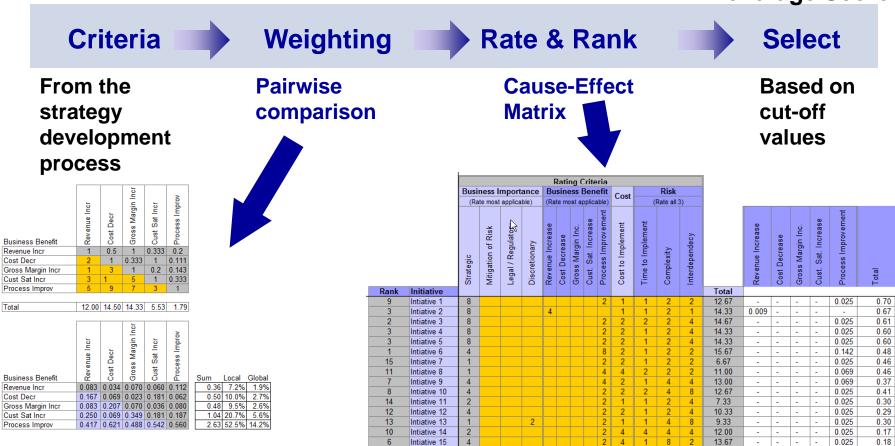
Initiatives disconnected from strategy



#### Initiative Selection With LSS



Leverage Score: 3



#### A comprehensive portfolio of projects



## References

- Balanced Scorecard Step-by-Step: Maximizing Performance and Maintaining Results, Niven, Paul R.
- Fundamentals of Decision Making and Priority Theory with The Analytic Hierarchy Process, Saaty, Thomas L.
- Out of the Crisis, Deming, W. Edwards
- The Balanced Scorecard: Translating Strategy Into Action, Kaplan, Robert S. and Norton, David P.
- The Discipline of Market Leaders, Treacy, Michael and Wiersema, Fred
- The Strategy-Focused Organization: How Balanced Scorecard Companies Thrive in the New Business Environment, Kaplan, Robert S. and Norton, David P.



## Summary

#### Balanced Scorecard (BSC) and Lean Six Sigma (LSS)

- Common ground
- Key differences
- Keep the BSC and LSS separate organizationally
- How BSC can benefit from LSS



## **Don't Combine – Do Leverage\***

\* Except the Project and Initiative Selection Process, Combine These



## Thank you for joining us





#### Resource Links and Contacts

#### Questions? Comments? We'd love to hear from you.

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Larry Goldman, Vice President Marketing - MoreSteam.com <u>Igoldman@moresteam.com</u>

#### Additional Resources:

Archived presentation, slides and other materials:

http://www.moresteam.com/presentations/webcast-balanced-scorecard.cfm

Master Black Belt Program: http://www.moresteam.com/master-black-belt.cfm



## Join Us for Another MBB Webcast

## "Fault Tree Analysis for Root Cause Analysis of Sporadic Events"

Debra Detwiler, Bridgestone Americas Thursday, November 18, 2010, 11 AM EST

http://www.moresteam.com/presentations/webcast-fault-tree-analysis.cfm



## Critical Success Factor Decomposition for Measures

