

Automotive Division The Global Voice of Quality™

Can Lean Six Sigma Drive Sales & Lower Costs?





Everyone is muted. We will start at 7pm EST.

Kush Shah, Chairman ASQ Automotive Division







- Housekeeping Items
- About ASQ Automotive Division
- Our Vision
- Webinar Series
- Can Lean Six Sigma Drive Sales
 Lower Costs?
- Questions & Answers



Housekeeping Items

Everyone is muted

Session is being recorded

Session will last about 90 minutes

ASQ Automotive members can download the slides and video at www.asq-auto.org

Participate thru chat and questions

Will answer questions at the end:

- Q&A at the end of the presentation
- Please type your questions in the panel box



ASQ Automotive Chair

The Global Voice of Quality™

Kush Shah



- Manager, Global Electrification, General Motors, Michigan, U.S.
- Leadership positions in Engineering, R&D, Manufacturing, Quality
- 20+ years of quality experience
- Six Sigma Master Black Belt, Shainin Red X Master, ASQ CQA, CMQ/OE, CQE, CSSBB
- Speaker at International Quality Symposiums / **Conferences**
- Trainer for Six Sigma and Quality Management



Global Automobile Outlook – 2020





>1 billion vehicles - Circle the earth 125 times

15% ownership

~3% annual growth worldwide



American Society for Quality (ASQ):

ASQ is the world's leading professional association and authority on quality

ASQ Automotive Division Mission:

To be the recognized global network of automotive quality professionals that is helping individuals and organizations to achieve personal and organizational excellence



Key Objectives of ASQ Automotive Division:

Increase Member Value – Webinars, symposium and Automotive Excellence magazine

Develop Core Tools Competency –On-site training - PPAP, APQP, FMEA, SPC and MSA

Global Outreach – Participate in conferences and deliver training globally



Key Objectives of ASQ Automotive Division:

U.S. Outreach - Engage all automotive OEMs and Tier 1& 2 suppliers

Student Outreach - Collaborate with universities

Collaborate With Other Professional Societies – Engage with other societies and professional organizations



Core Quality Tools for Automotive Industry:

Advanced Product Quality Planning (APQP)
Failure Mode and Effects Analysis (FMEA)
Production Part Approval Process (PPAP)
Measurement Systems Analysis (MSA)
Statistical Process Control (SPC)

ASQ Automotive Division provides on-site training by certified instructors.



Resources / Contacts:

Contact: Kush Shah, Chair - ASQ Automotive Division

E-mail: asq.automotive@gmail.com

Website: www.asq-auto.org





Group: ASQ Automotive Division Group



twitter.com/ASQautomotive



Joseph A. DeFeo



Joseph A. DeFeo, MBA, President and CEO of Juran Institute, Inc., is one of the world's leading authorities on transformational change systems and breakthrough management principles. During his 25 years as a Juran Executive Coach, he has helped business leaders around the globe increase sales, reduce costs and improve customer satisfaction through the deployment of process improvement programs, including Lean and Six Sigma, strategic planning and cultural transformation.

He is co-author of *Juran's Quality Handbook 6th Edition; The Complete Guide to Performance Excellence, Six Sigma, Breakthrough and Beyond;* and *Quality, Planning & Analysis for Enterprise Results.* DeFeo's belief that a relentless customer focus and integrity drives business results was noted by Forbes.com. 1/25/20121/25/2012 "By re-focusing primary attention on the customer and on exceeding the customer's expectations, the Juran Quality Handbook has done quality management a great service."

As CEO, DeFeo has ushered in a new age of quality at the Juran Institute by building on universal principles pioneered by Dr. Joseph Juran nearly 60 years ago. His technical expertise and trademark communication style have made him a frequent guest speaker and trainer at conferences in over 30 countries and several institutions, including MIT Sloan School of Management, Columbia University, Wharton School and New York University.



The Source for Quality

Can Lean Six Sigma Drive Sales & Lower Costs?

Presented by Joseph A. De Feo, President & CEO of Juran Institute, Inc.



LSS Must Drive Quality

Can you explain to Executives how LSS can increase sales and reduce costs?

The Changing Role

What is your role as a quality professional in driving sales?

Why is it so easy to see the results but so hard to get execs to understand?

Just Released Today - More Evidence

Costs and Savings of Six Sigma Programs: An Empirical Study

VENKATESWARLU PULAKANAM

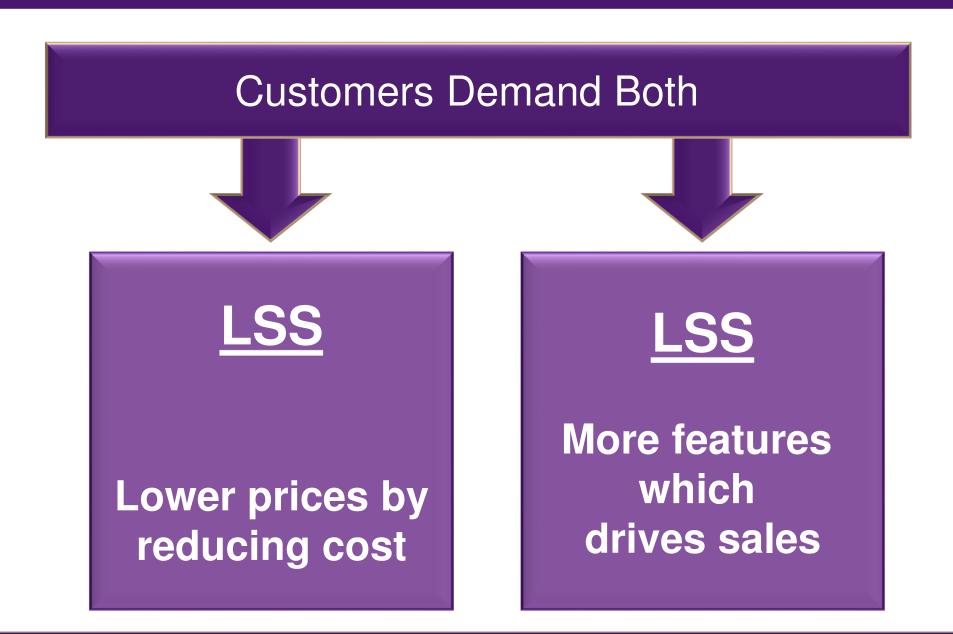
UNIVERSITY OF CANTERBURY

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Some of the Results

- Considering gains from customer satisfaction and increased value of sales in excess of resource costs, they concluded that the overall benefits to Baldrige Award applicants outweigh the costs by a ratio of 820 to 1.
- Savings as a Percentage of Revenues: The cumulative savings as a percentage of revenues ranged from 0.02 percent to 6.8 percent, with an average of 1.7 percent (see Table 3 and Figure 1). These savings can be potentially as high as 4 to 7 percent.
- With effective implementation of Six Sigma, a \$100 million organization can expect a direct savings of \$1 million to \$2 million a year for the period.

Two Sides of the Coin



The Methods Today

Methods

Results

Lean Six Sigma Sustain Performance

Achieve Breakthrough

Higher Quality

Lower Costs

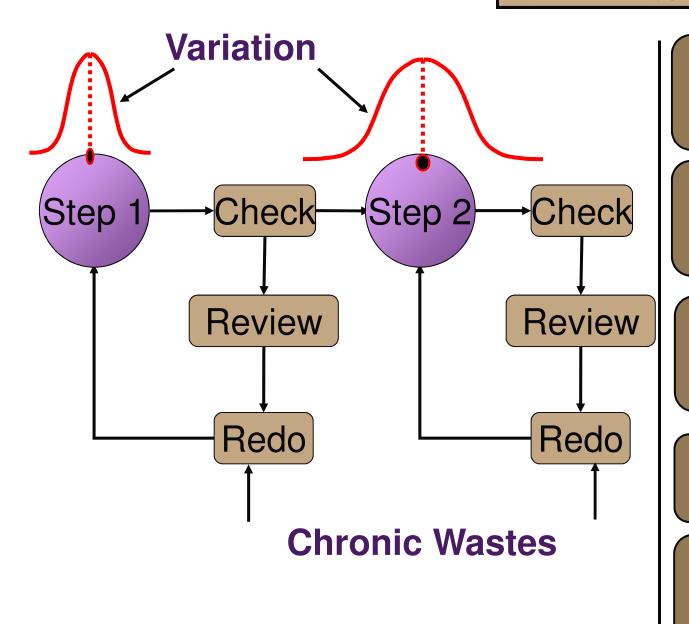
Culture Change

Scorecard Results

What about driving sales and lowering costs to customers?

We know where the cost drivers are - in wasted assets

Exercise: Typical Causes of Waste



Poor Margins

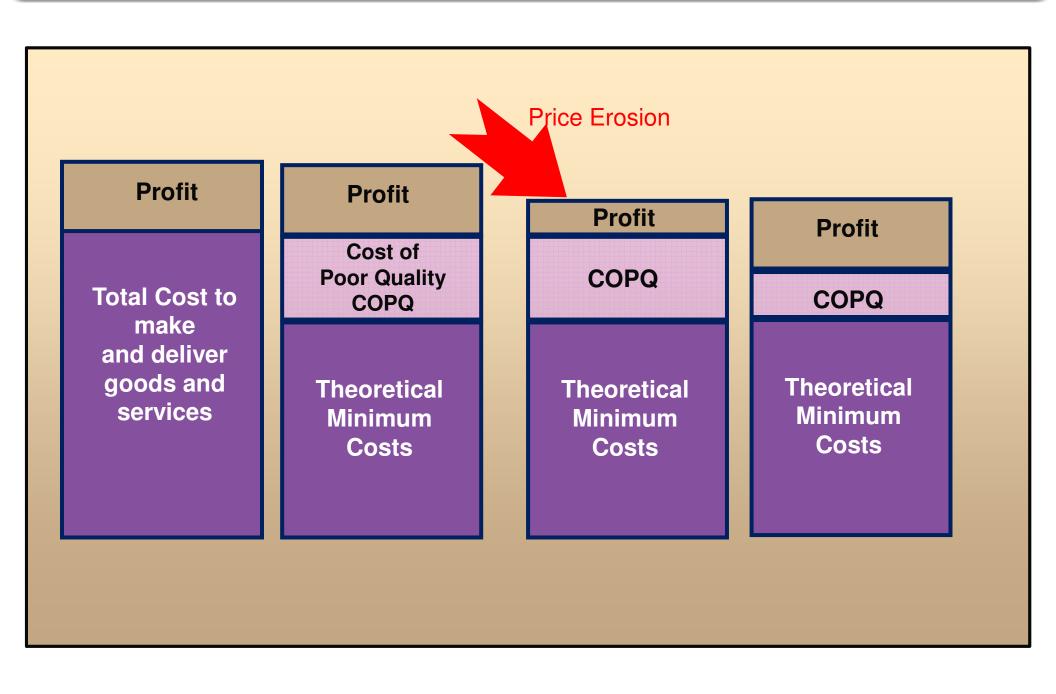
Unhappy Customers

Claims

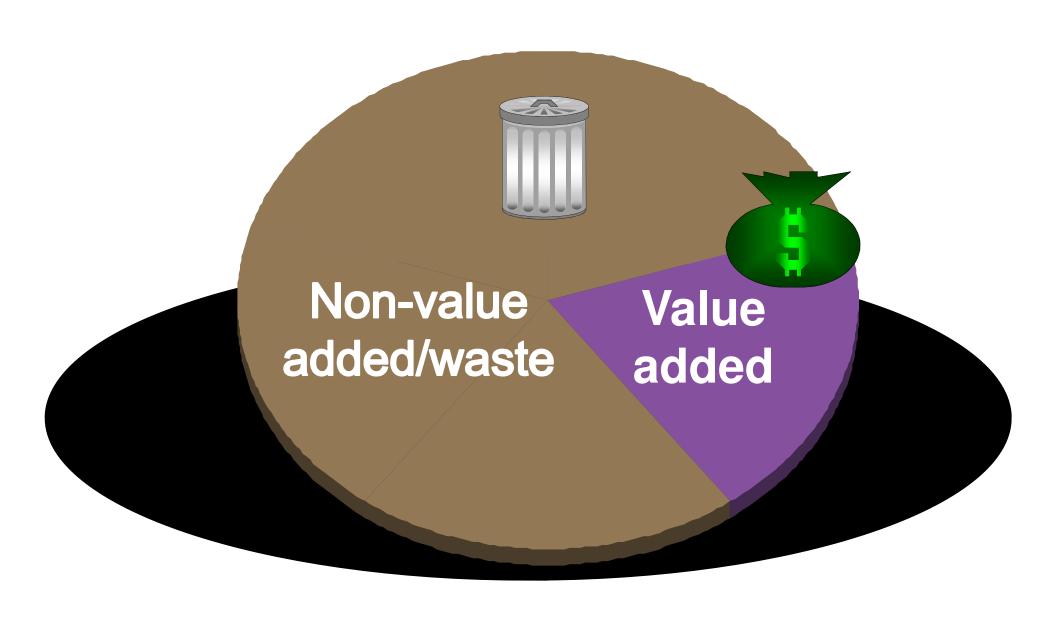
Added Costs

Loss of Revenue

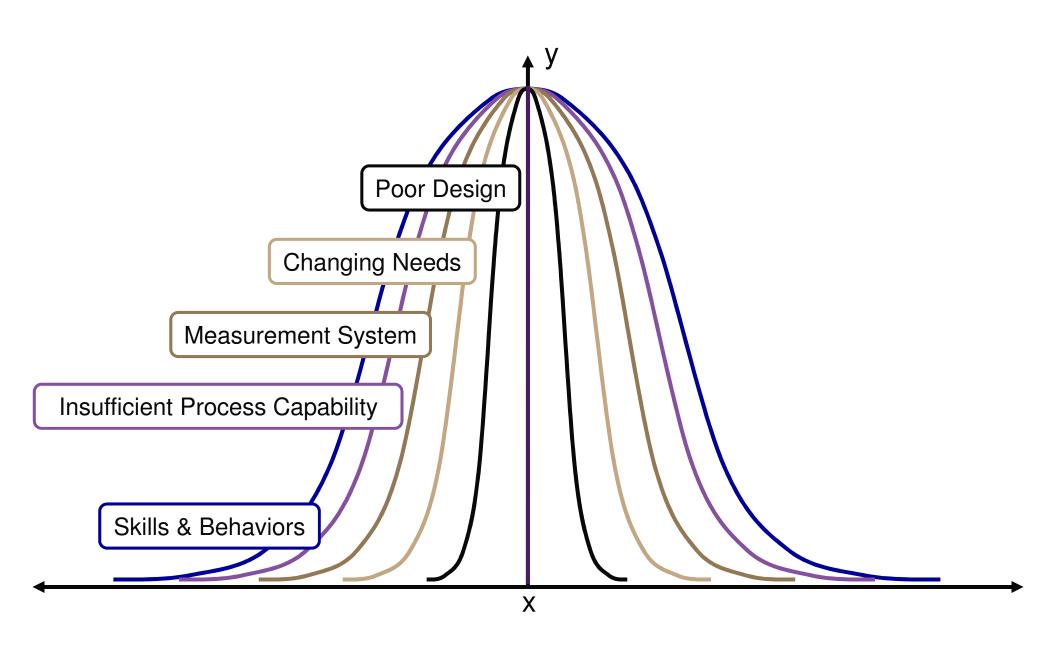
Profit and Costs of Poor Quality



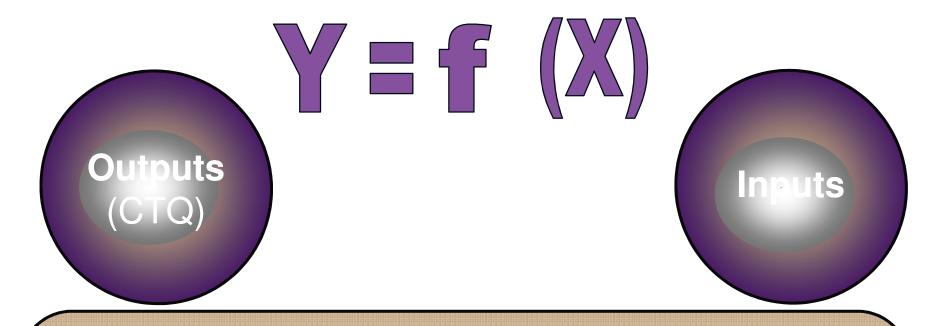
Understanding Waste



Sources of Variation



Lean Six Sigma Basic Premise

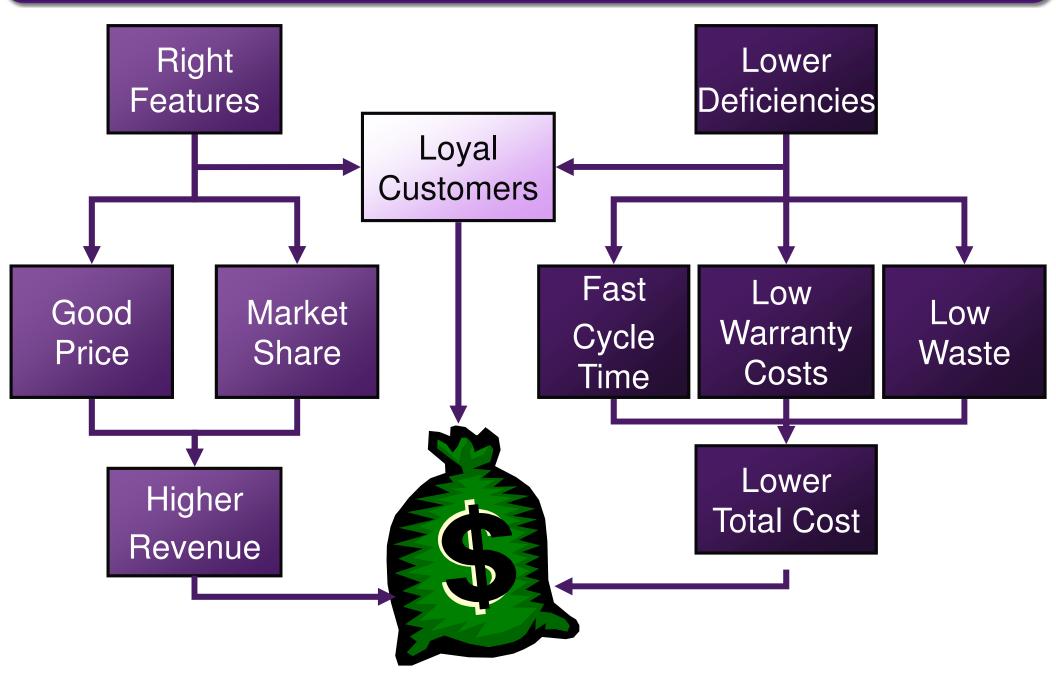


Do you know what is important to customers?

Do you know what "Xs" are important to
meet customer needs?

How do the "Xs" drive outcomes,
revenue, and cost?

LSS Should Drive Sales, Speed, and Profit

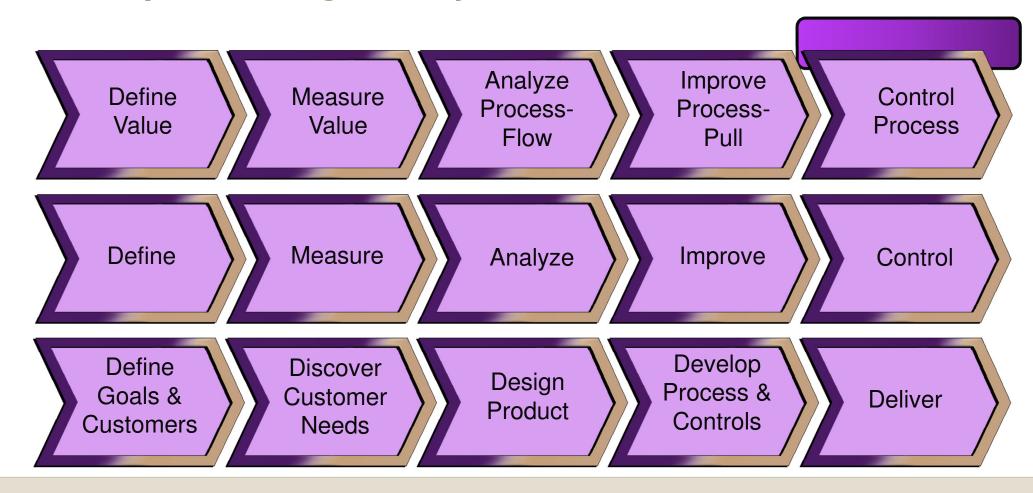


How does LSS get these desired results?

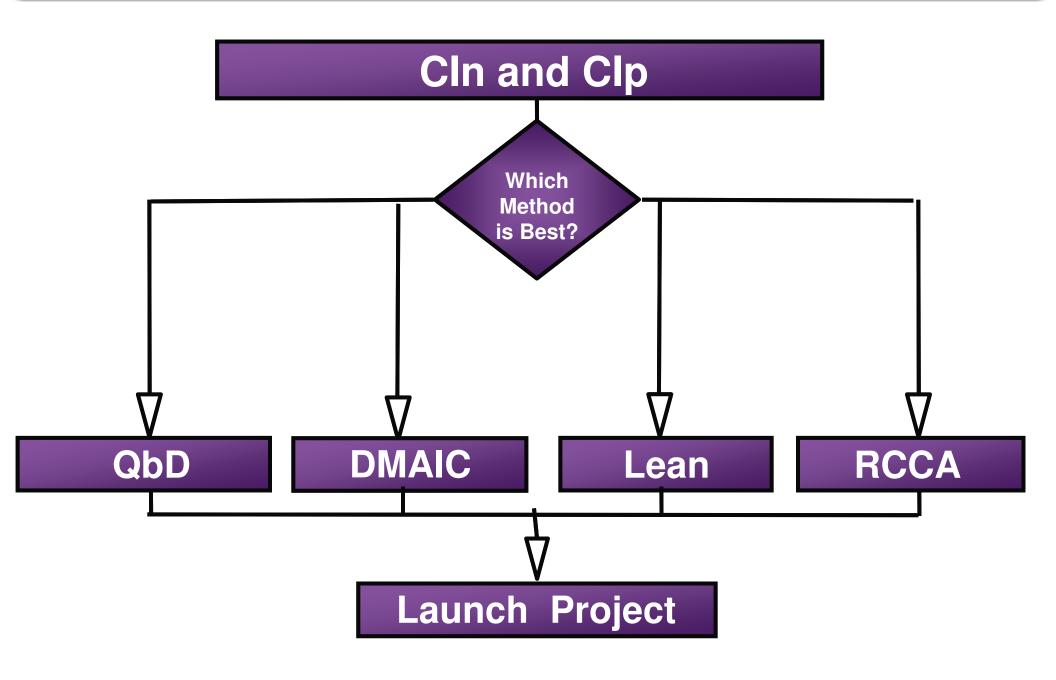
Lean Six Sigma

Lean Six Sigma are complementary and integrated tool sets that create the fastest rate of improvement, maximize results, and increase customer delight.

All require strong Quality Control



Categorize by Method and Charter



Are You Speaking Their Language?

Why is it so easy to see the results but so hard to get execs to understand?



Joseph A. De Feo | President & CEO | www.juran.com | 203-241-7059

THANK YOU



Questions and Answers

Please type your questions in the panel box









Thank You For Attending

Please visit our website www.asq-auto.org for future webinar dates and topics.



