Game Changing Quality Strategies

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Quality - Past

- Focus on parts:
 - Conformance to requirements
 - Defects / deficiencies
 - Within specifications
- The Goal was customer acceptance





Quality – Present

- Today, the Customer assumes all parts will work as a given
- Less than 50% of issues reported by the customer are hard failures
- The Goal is to surpass customer expectations without unpleasant surprises

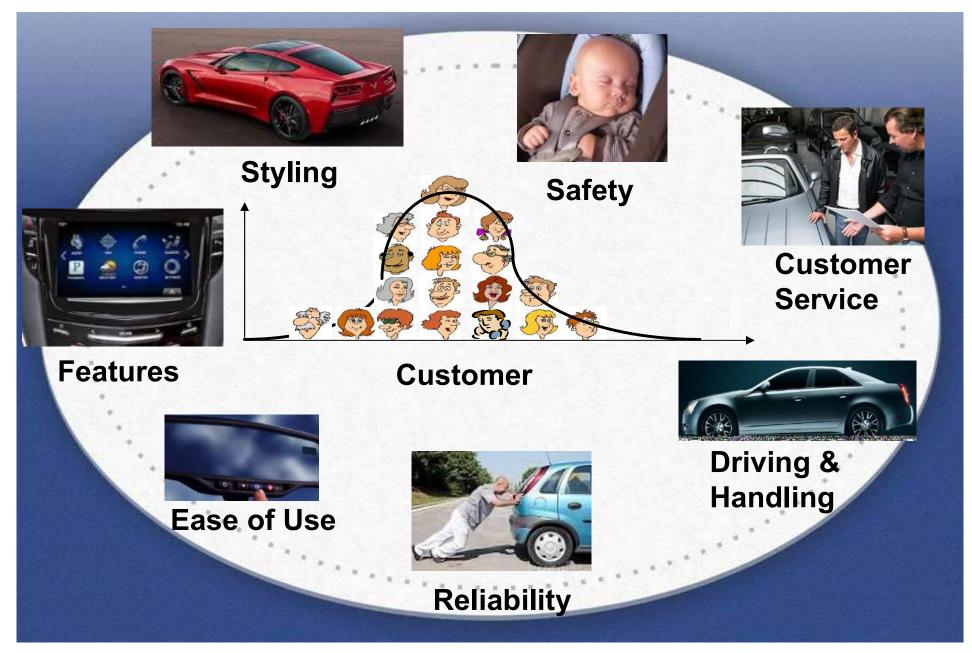




Game Changing Strategies

- 1. Customer-Centered Approach to Quality
- 2. Enterprisewide Engagement
- 3. Disciplined Problem Solving
- 4. Risk Management
- 5. Integrated Approach to Data Analytics
- 6. Closed Loop Learning
- 7. Innovation

1. Customer-Centric Approach to Quality



2. Enterprise-wide Engagement



Engineering



Supplier



Manufacturing



Design



Sales & Service



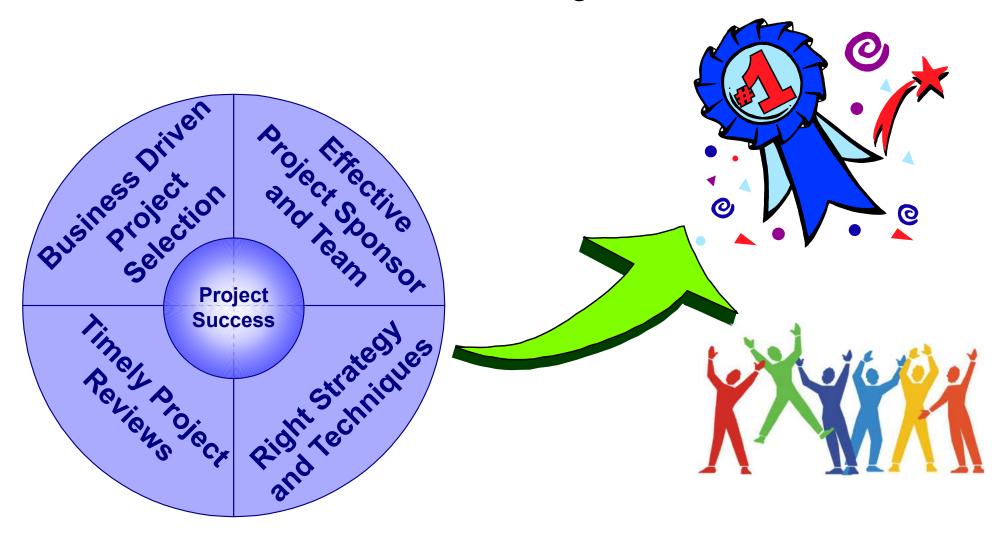
Concept



Field Performance

3. Disciplined Problem Solving

Critical Elements of Problem Solving



4. Risk Management - Proactive vs. Reactive

PROACTIVE APPROACH Problem Prevention:

High Leverage
Low Visibility
Low Cost
Customer Enthusiasm
Difficult to Measure Performance

REACTIVE APPROACH Problem Solving:

Low Leverage
High Visibility
High Cost
Customer Dissatisfaction
Easy to Measure Performance





Organizations that are always putting out fires will eventually get burned.

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4. Risk Management

Risk Identification

Identification significant risks based on organization's risk appetite

Risk Analysis

- Measure risks consistently with respect to enterprise objectives
- Prioritization and quantification
- Assignment of specific responsibility for controls to mitigate risks

Risk Response

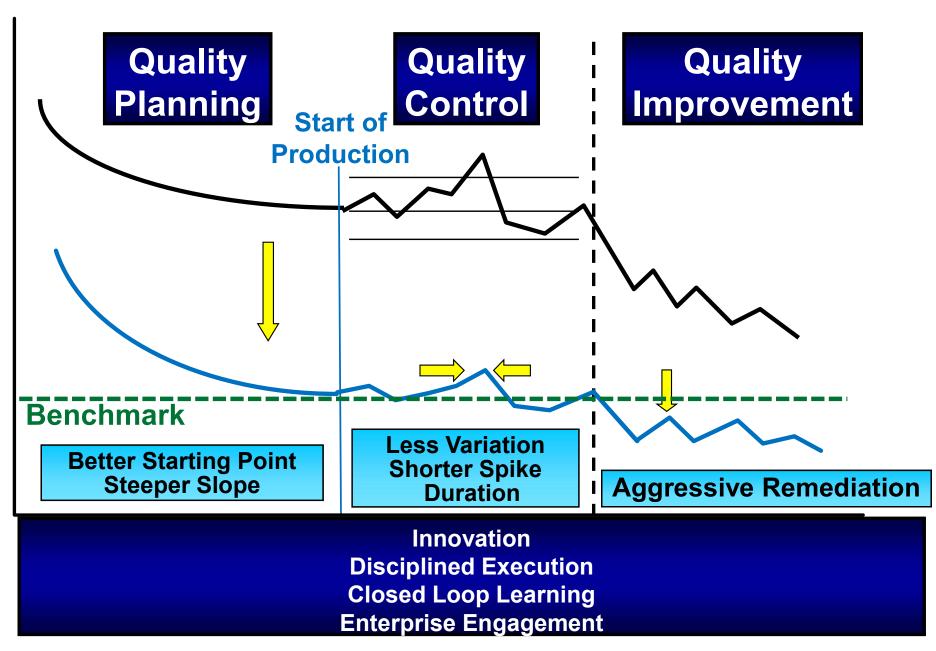
- Scenario development
- Action Plan Implementation

Risk Control

Hold the gains through monitoring and controls

5. Integrated Approach to Data Analytics

- Types of business data Sales, Marketing, Operational, Quality, Service, HR
- Benefits of integrated approach of data analytics:
 - Better understanding of customer
 - Make faster and more confident decisions
 - Proactively drive improvement projects
 - Unprecedented resolution of field reliability
 - Influence the design for next generation of products
- Factors to be Considered in Big Data Analysis:
 - Automation Analysis and complex computations
 - Reproducibility Analysis results can be reproduced
 - Flexibility Data repository can organically expand and extend
 - Robustness Less error prone



7. Innovation

"Research is the transformation of money into knowledge.

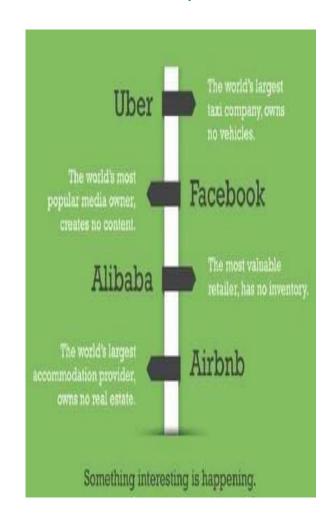
Innovation is the transformation of knowledge into money."

Dr. Geoffrey Nicholson, 3M

(inventor of the Post-It note)

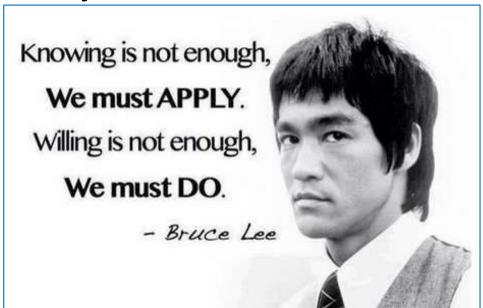
Top Innovation Factors in an Organization:

- Culture (employee attitudes & participation)
- Senior Leadership Support (risk/longterm results)
- Capabilities (workforce talent, training, & experience)
- Strategy (alignment to profitable growth & business goals)
- Process (effective methods & tools)



Summary – Game Changing Strategies

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Talks about #coaching, #designthinking, #problemsolving, #continuousimprovement, and #organizationalexcellence



