



2018 CANADIAN
LEAN
CONFERENCE

WINNIPEG | JUNE 4-7, 2018
EMBRACING**EXCELLENCE**.CA



Canadian
Manufacturers &
Exporters

Hoshin Kanri

Arvind Srivastava

Corporate MBB/IE, Accuride Corp

FOUR (4) Time AME Manufacturing Excellence Site Winner

2017 Industry Week Best Manufacturing Plant

MBB, CQA, IATF Lead Auditor, Bill Liberman Honoree (ASQ)



Content Developed by:

Jd Marhevko

SVP QLMS & EHS, Accuride Corp

Learning Objectives

Across this time we will...

- Tactically apply Define, Measure, Analyze, Improve and Control (DMAIC) to link Lean Management System (LMS) strategies to that of the organization via Hoshin Kanri
- Review KPI establishment wrt business strategy
- See how this tool can be applied to any business
- Increase your understanding of how to develop, manage and execute a strategic plan via a Steering Committee...to Control the process

What You Will Walk Away With....

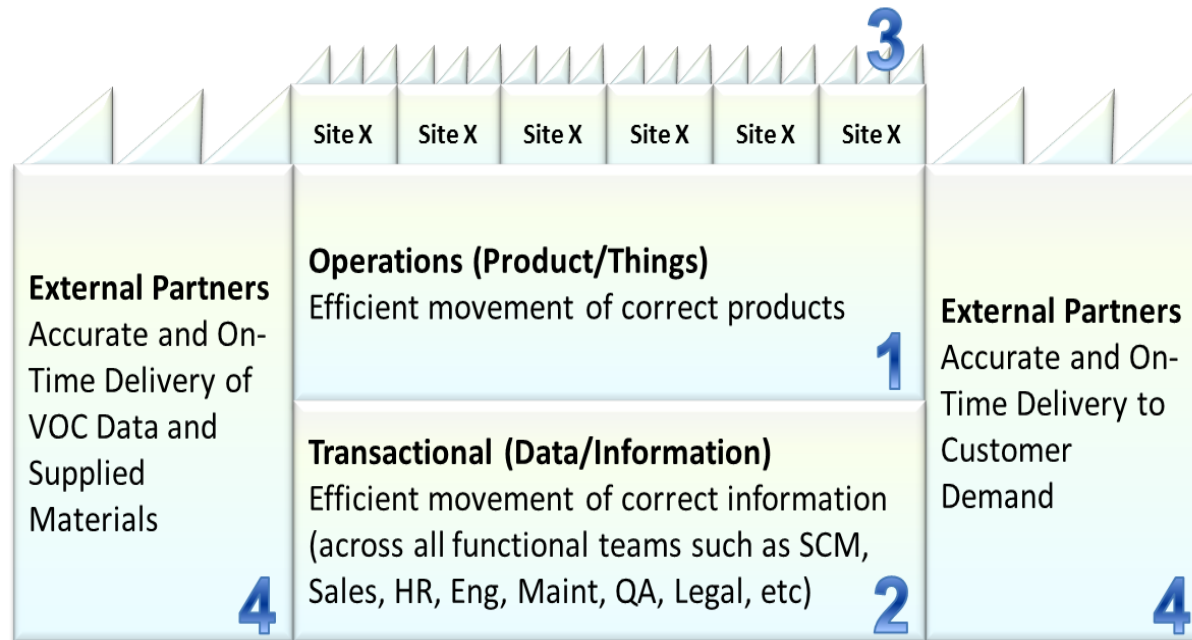


A Definition of Lean



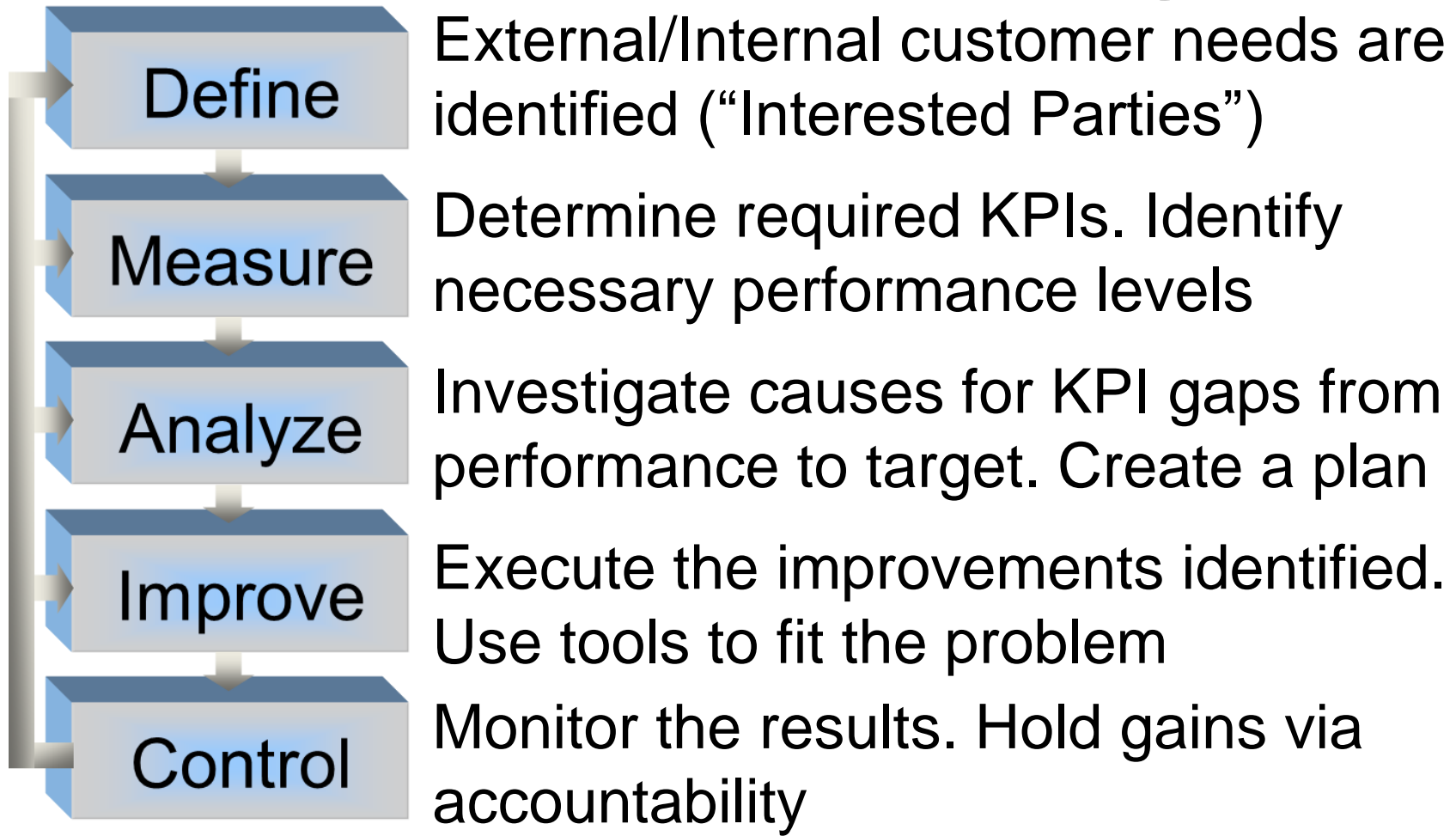
Lean is *FLOW* through pull. It uses an enterprise-wide set of concepts and tools. Lean strengthens an organization's competitive advantage realized from operating its processes

Elements for Lean Success



1. Lean “Operations”. Effective, Efficient flow of **Product/Things**
2. Transactional systems: Effective, Efficient flow of **Data/Information**
3. Align Product & Transactional Value Streams across the **Enterprise**
4. Incorporate **External Partners**: Customers, Supply Chain, etc.

Lean & DMAIC: Strategically

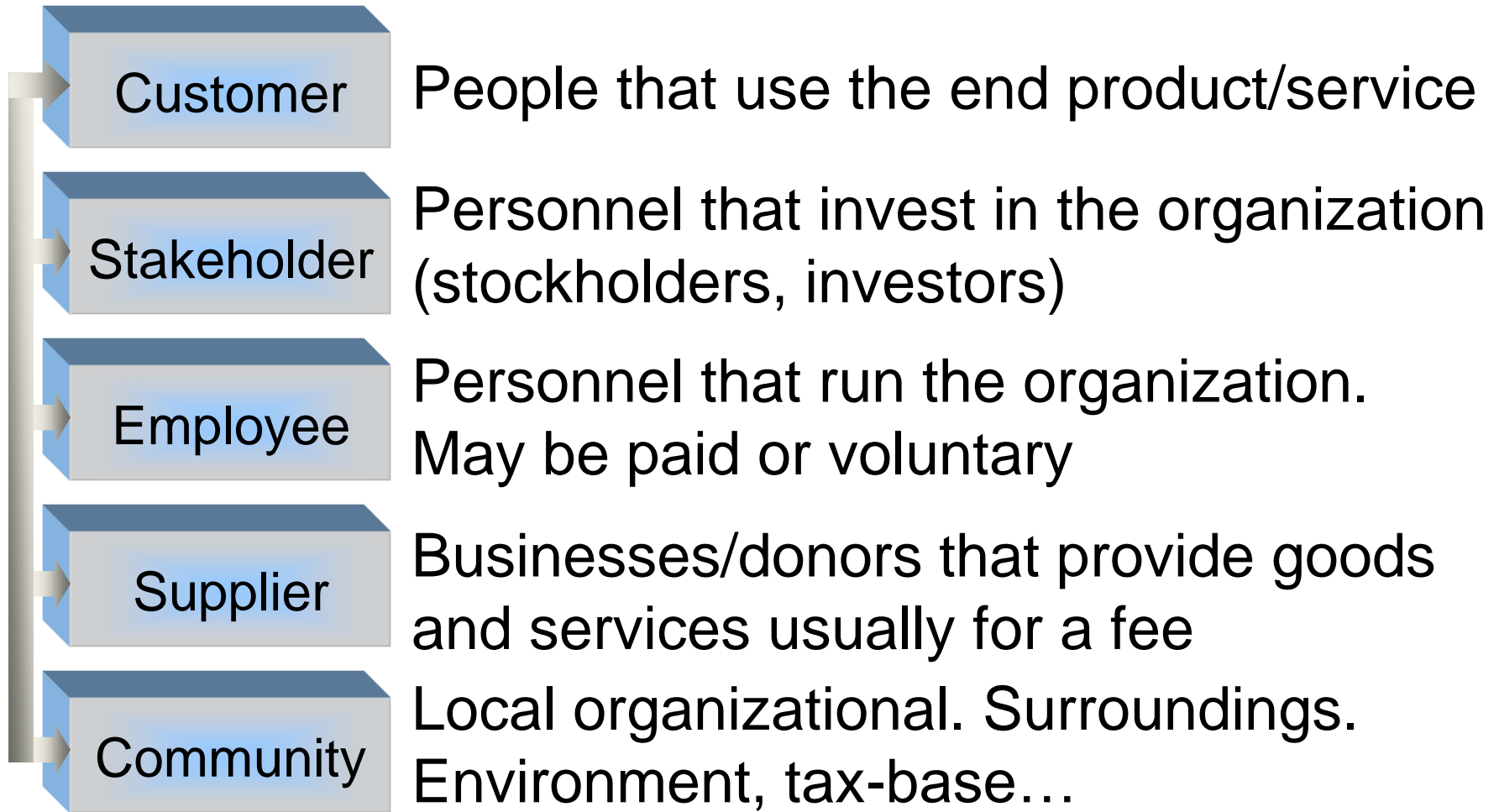


Define

It isn't what we don't know that gives us trouble,
it's what we know that ain't so

Will Rogers

“Interested Party*” Strategies



Interested Party Worksheet

Customer	
Stakeholder	
Employee	
Supplier	
Community	

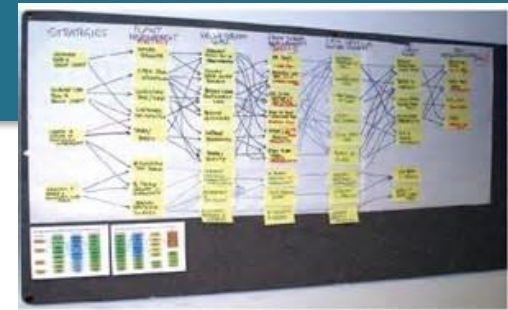
Interested Party Needs

Customers,
Stakeholders,
Employees,
Suppliers and
the Community:
What are their
strategic,
business, and
governance
needs?

External	Internal
Social	Governance/Strategic Objectives
Cultural	Organization Structure
Political	Rules/Authorities
Legal	Policies
Regulatory	Resources: Capital
Financial	Resources: Human
Technological	Resources: Time
Economic	Technological
Natural Environment	IT/Infrastructure
Competition: National/Intl	Culture
Trends	Contractual Relationships
Stakeholder Relationships	Information Flows

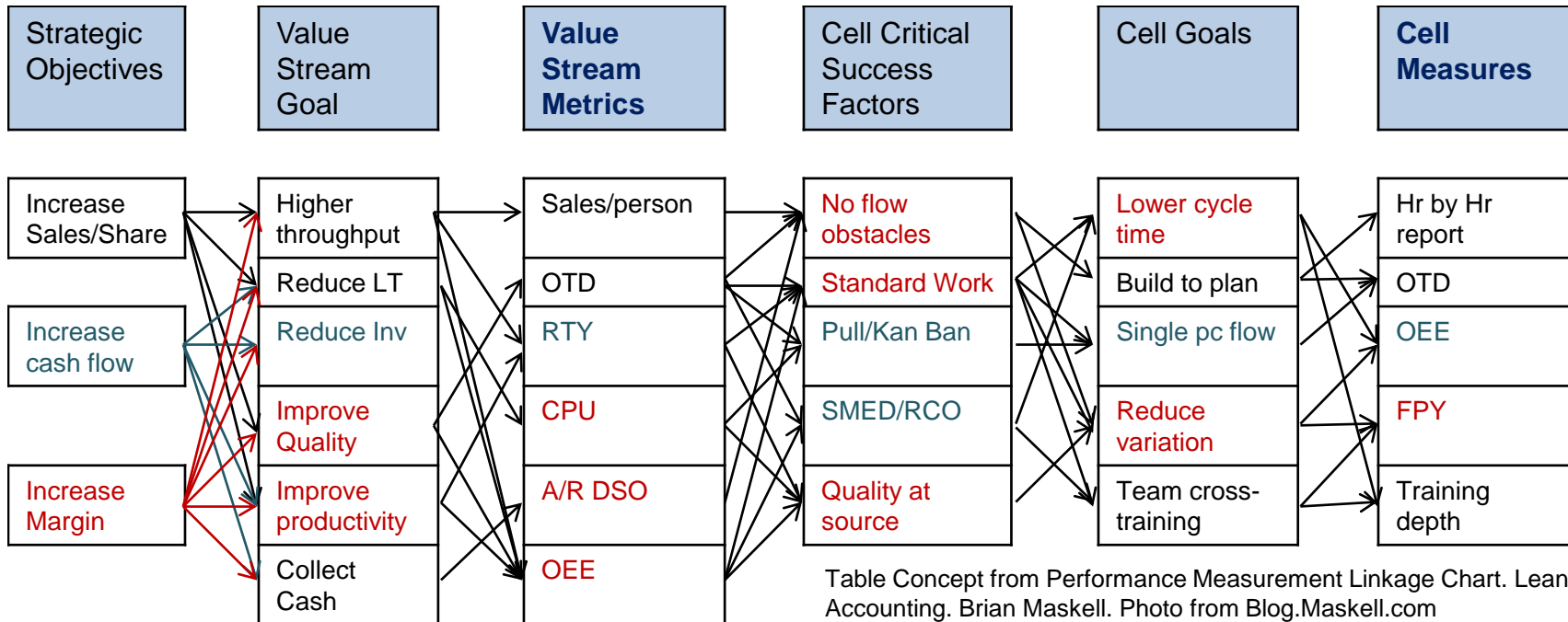
What Do Interested Parties Want?

Who	What Do They Want?	How Do You Know?
Customer	QCD, Intrinsic Requests (Value, Data Bases, etc), Engineering Systems, etc	Customer Specific Requirements (CSRs), Purchase Orders, Prints, etc
Stakeholder	SMT\$ (Show Me The Money), Sales/Growth, Conversion, etc	Strategic Plan, Governance directives
Employee	Security, Safety, Engagement, etc	Surveys, discussion
Supplier	Orders/Growth, on-time payment, reliability, etc.	Surveys, discussion
Community	Social responsibility, compliance, tax-base, etc	Regulatory criteria, Chamber of Commerce, etc



Linking KPIs

KPIs need to matter. One method is to start from the strategy and create the linkage to the cell. See the X-Matrix for a graphical type of format.



Linking KPI Worksheet

Create a horizontal linkage matrix for the following strategy: Increase Customer Satisfaction

Strategic
Objectives

Value
Stream
Goal

**Value
Stream
Metrics**

Cell Critical
Success
Factors

Cell Goals

**Cell
Measures**

The “X-Matrix”

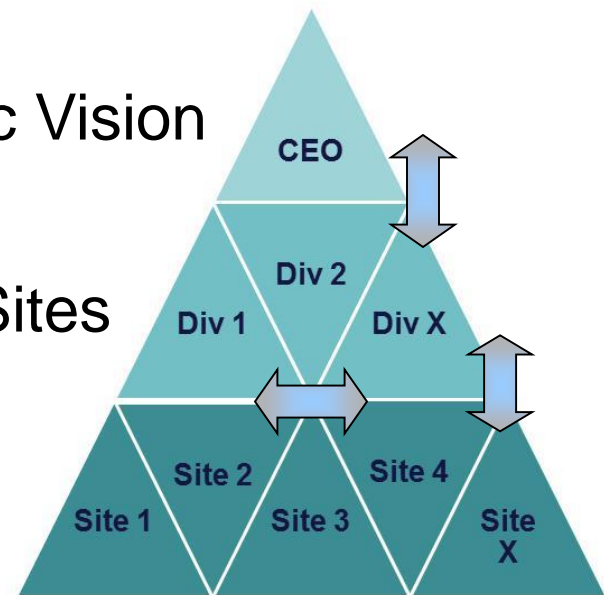
A Process to convert *Strategy* to *Reality* by using both horizontal and vertical alignment in the organization

CEO's 3-5 year Strategic Vision

Planning across Division(s).

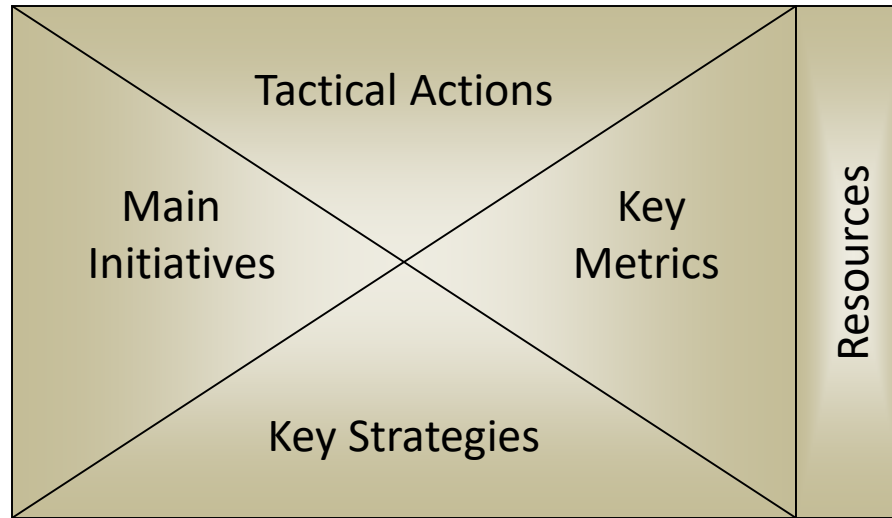
Vertically supports CEO and Sites

Site planning. One year tactics to support and execute the strategy



aka...HOSHIN KANRI

Sample X-Matrix Format



Bottom: Key strategies. Use a “SMART” format

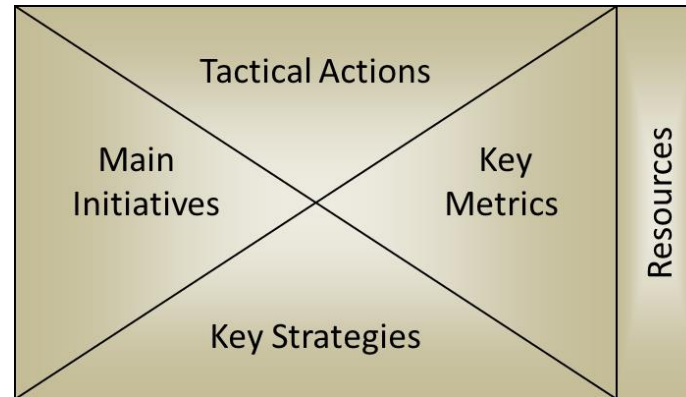
Left: Initiatives on HOW to achieve the objectives

Top: TACTICAL actions to execute the initiatives

Right: Key METRICS used to monitor results

Far Right: WHO has line item responsibility

Sample Strategies



Customer	QCD: Quality (PPM), Cost (CI), Delivery (OTD)
Stakeholder	Margin, Revenue, Cash Conversion, Growth
Employee	Engagement, Turnover, Satisfaction, EHS
Supplier	QCD, Growth
Community	Social Responsibility, Compliance, EHS

X-Matrix Worksheet

Key Strategy Examples...

1. *Increase margin by 5% by 4Q*
2. Increase sales revenue by 10% by 4Q
3. Increase organic growth by 5% by 4Q (existing business)
4. Increase inorganic growth by 5% by 4Q (new products)
5. Increase New Produce Introduction (NPI) rate by 10% by 4Q
6. Grow market share from 15% to 20% by 4Q
7. Reduce warranty expenses by 25% by 4Q
8. Reduce internal rejects by 25% by 4Q
9. Reduce lead time from 7 days to 5 days by 4Q
10. Reduce supplier reject rate by 50% (20K DPPM to 10K)
11. Improve customer satisfaction score by 20% by 4Q
12. Reduce recordable safety incidents by 50% by 4Q
13. Increase employee morale by 10% by 4Q

X-Matrix Worksheet

Identify the top 1-3 ways of HOW you will attain the strategy

Identify the top 1-3 tactical plans to achieve the initiative

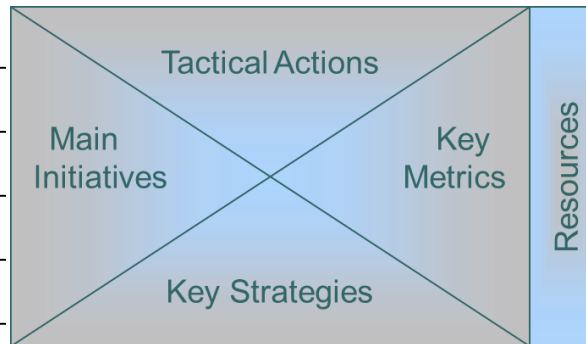
Main 1-3 Tactical Plans

1.1a _____
 1.1b _____
 1.1c _____

What are the key metrics?

Main 1-3 Initiatives

1.1 _____
 1.2 _____
 1.3 _____



Key Input Metrics

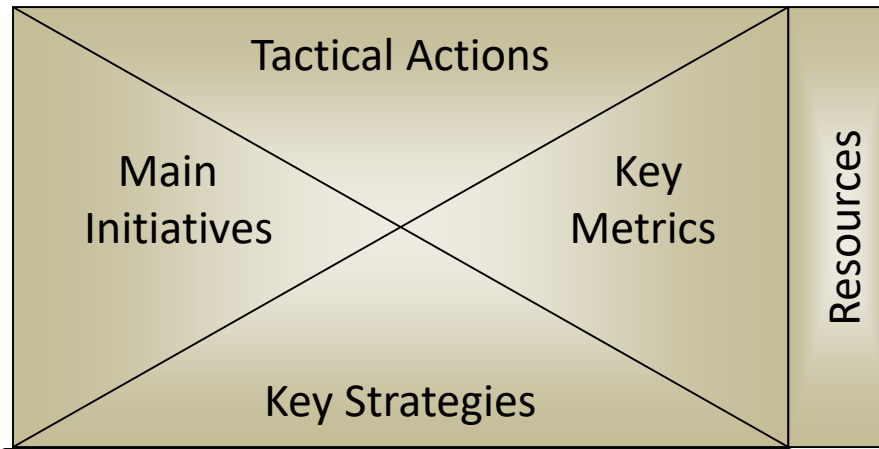
1.1a _____
 1.1b _____
 1.1c _____

Key Strategy/Performance Goal (SMART)

1 _____

Write a sample Key Objective

Define “SMART” Strategies



Select your strategy

Key Strategy/Performance Goal (SMART)

1

~6-8 Key Strategies

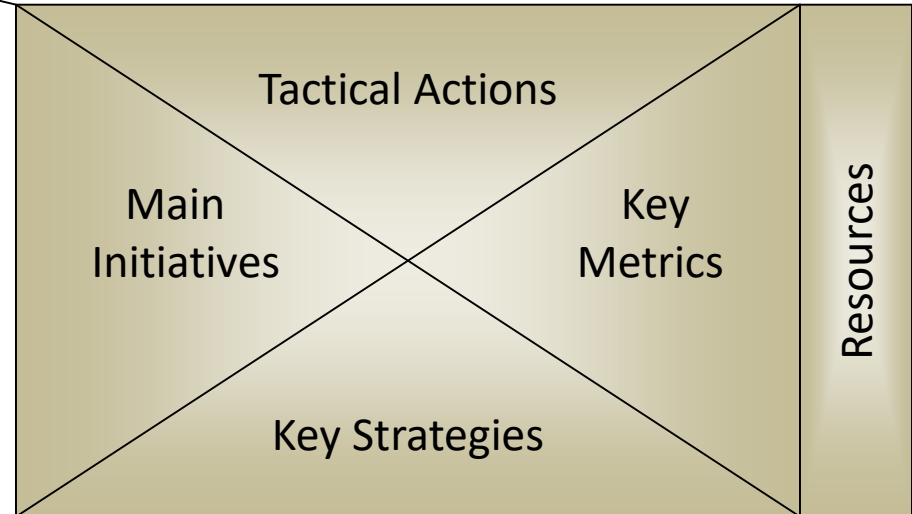
- Improve Margin by 5% points by 4Q. Increase of \$250K

While developing the Key Strategies, multiple tools may be used such as SWOT, VOC, etc. Consider a “multi-customer” approach to support organizational robustness

Develop Initiatives

~1-3 Main Initiatives
per Strategy

- Reduce Warranty losses. \$150K
- Reorganize Product Portfolios \$100K



Identify 2-3 Initiatives

Main 1-3 Initiatives

- 1.1 _____
- 1.2 _____
- 1.3 _____

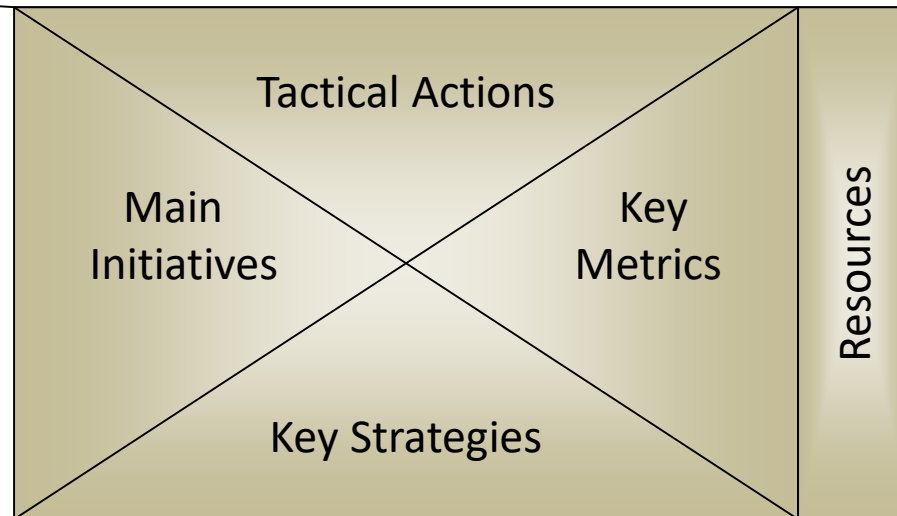
Improve Margin by 5%
points by 4Q. Increase of
\$250K

Develop Tactics

~1-3 Tactical Plans per Initiative

- Implement Warranty Team. Conduct CA/PA.
- Conduct FMEA/CP Reviews on loss leaders
- Conduct VSM on Portfolio. Rationalize

- Reorganize Product Portfolios \$100K
- Reduce Warranty losses. \$150K



Create 1-3 Tactics

Main 1-3 Tactical Plans

1.1a

1.1b

1.1c

Improve Margin 5% by 4Q: Increase of \$250K

Leading & Lagging KPIs

Lagging KPIs are usually results to upper management. Work to identify and manage leading KPIs that will affect these results



Leading Metrics	Lagging Metrics			
	OTD	PPM	COPQ	\$Conversion
OEE: Operational Equipment Effectiveness	+	+	+	+
RTY: Rolled Throughput Yield	+	+	+	+
%Cpk: Processes Capable of Meeting ≥ 1.33	+	+	+	+
MTBF: Mean Time Between Failure	+		+	+
C/A %Repeat: Repeating Complaints		+	+	
Training Depth: Personnel Skill Levels		+	+	
Linearity: Production Schedule Attainment	+		+	+
C/A TTC: Time to Close Corrective Actions		+	+	+

KPI Correlation Worksheet

Lagging metrics are usually upper management inputs.

Identify and manage **leading** metrics to **impact** those results

Example Leading Metrics	Lagging Metrics		

1. Identify your top 3-4 lagging indicators
2. Draft in relevant leading indicators based on your business/industry
3. Assess for correlations

Develop KPIs

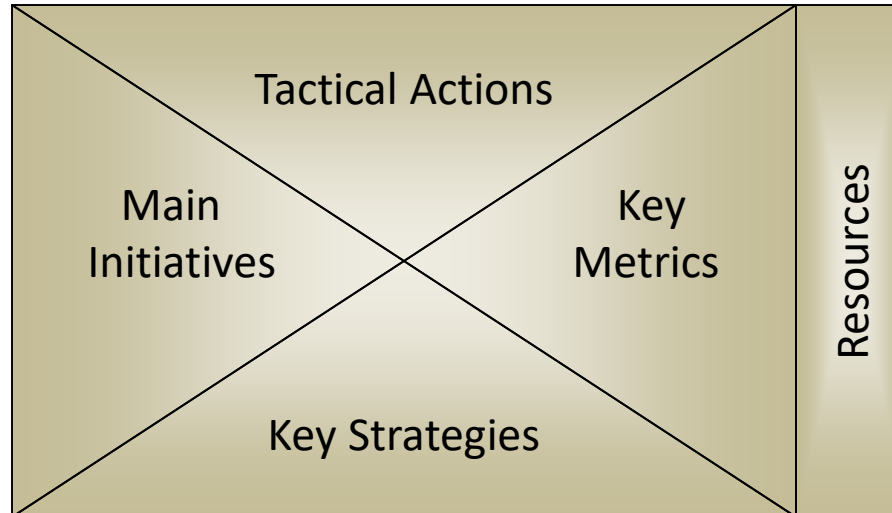
- Implement Warranty Team. Conduct CA/PA
- Conduct FMEA/CP Reviews on loss leaders
- Conduct VSM on Portfolio. Rationalize

Who: Joe

Who: Tom

Who: Sue

- Reduce Warranty losses. \$150K
- Reorganize Product Portfolios \$100K



KPIs

- Margin
- Warranty
- Family Portfolio Margins

Improve Margin by 5% points by 4Q: Increase of \$250K

Identify KPIs

Key Input Metrics

1.1a _____
1.1b _____
1.1c _____

An X-Matrix...How It Looks

X-Matrix: Organization, Year

[illegible]

X-Matrix Worksheet...Your Turn

Example: ASQ QMD Non-Profit

[illegible]

ASQ QMD: Results

- Largest quality professional organization in the world at > 21,000 global members
- Largest division in ASQ of >70,000 global members
- Most touch points (member-valued interactions) of any division at >30/year

A Non-Profit Organization

Operations: For Profit Example

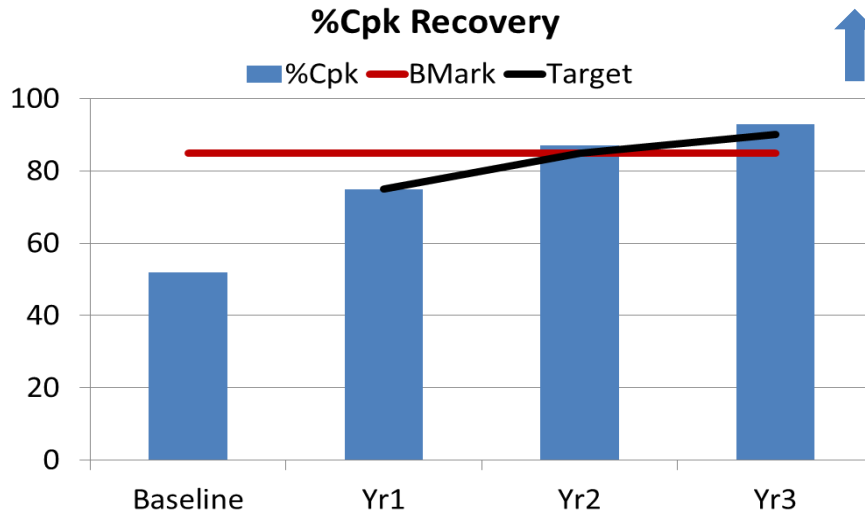
Level II Matrix - YEAR 20XX

Tactics														Metrics														Strategies													
4.3.b. Conduct annual reviews and training updates on ISO/TS Core Tools by 2Q														4.3 Engineering Alignment														1. Exceed financial goals													
4.3.a. Increase OIA personnel understanding & interpretation of product specs by 3Q														4.2 QMS Execution: TS Systems														2. Increase productivity													
4.2.a. [Blank]														4.1 QMS Execution: APQP														3. Reduce business costs													
4.1.b. [Blank]														3.1 New MRP Implementation														4. Improve customer satisfaction via quality/warranty and OTD performance													
4.1.a. Upgrade corporate-wide APQP processes to achieve 95% compliance on TS System score by 2Q														2.2 Lean/Continual Improvement Integration														5. Grow team skills and talent levels													
3.1.a. Leverage sub-teams to implement MRP conversion														2.1 Customer Satisfaction														6. Exceed safety/environmental standards													
2.2.c. Participate in monthly Council reviews														1.2 Process Control (SPC/KPI)														7. Enable competitive costing via lean processes													
2.2.a. Implement Kanban flow plans to reduce DIOH by 20% by 4Q														1.1 Scrap/Defect Reduction																											
2.1.b. Create action plan to close customer feedback gaps by 3Q																																									
2.1.a. Review and upgrade existing Customer Feedback Process by 1Q																																									
1.2.c. Plan, develop, manage and implement automated SPC at appropriate processes																																									
1.2.b. Enable accurate SPC formats to meet 80% audit scores																																									
1.2.a. Monthly Management to increase Capable Processes to >85% KPIs																																									
1.1.a. Reduce scrap/rework losses by 50% 4Q																																									

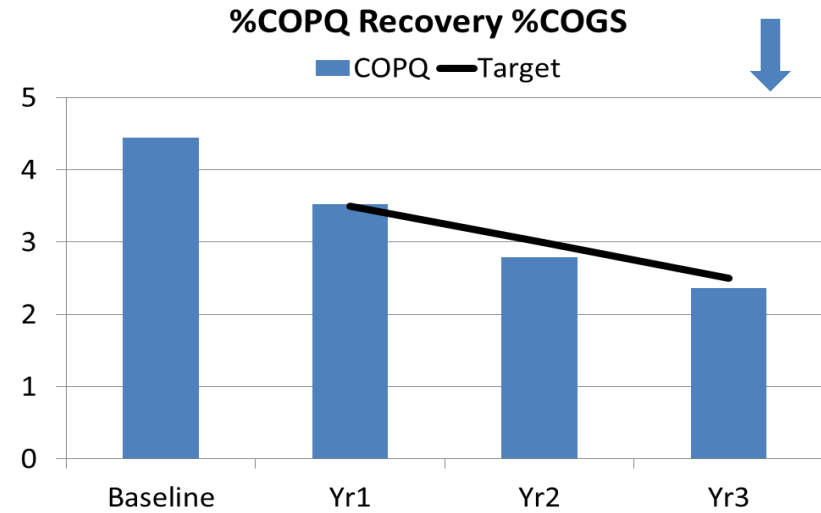
Diagram Labels:

- Top Level Initiatives (To Achieve Priorities):** 4.3 Engineering Alignment, 4.2 QMS Execution: TS Systems, 4.1 QMS Execution: APQP, 3.1 New MRP Implementation, 2.2 Lean/Continual Improvement, 2.1 Customer Satisfaction, 1.2 Process Control (SPC/KPI), 1.1 Scrap/Defect Reduction
- 2nd Level Tactics (To achieve the initiatives):** 4.3.b. Conduct annual reviews and training updates on ISO/TS Core Tools by 2Q, 4.3.a. Increase OIA personnel understanding & interpretation of product specs by 3Q, 4.2.a. [Blank], 4.1.b. [Blank], 4.1.a. Upgrade corporate-wide APQP processes to achieve 95% compliance on TS System score by 2Q, 3.1.a. Leverage sub-teams to implement MRP conversion, 2.2.c. Participate in monthly Council reviews, 2.2.a. Implement Kanban flow plans to reduce DIOH by 20% by 4Q, 2.1.b. Create action plan to close customer feedback gaps by 3Q, 2.1.a. Review and upgrade existing Customer Feedback Process by 1Q, 1.2.c. Plan, develop, manage and implement automated SPC at appropriate processes, 1.2.b. Enable accurate SPC formats to meet 80% audit scores, 1.2.a. Monthly Management to increase Capable Processes to >85% KPIs, 1.1.a. Reduce scrap/rework losses by 50% 4Q
- KPIs to Improve:** COPQ, %COGS, OEE, OTD, PPM, Rolled Throughput Yield (RTY), Lean Savings, Linearity, DIOH, 8D TTC, %KPIs that meet capability, MTBF, TS/ISO Status, QMS/Lean Score, Skills Assessment Level
- Resources:** Responsible/Accountable (●), Consulting/Support (○)
- Three (3) QMS Strategies:**
 - Improve upon what we do (reduce PPM/COPE, grow KPIV)
 - Deliver new products/processes well (APQP/OTD/TS/DIOH/RTY)
 - Grow our skills to enable 1 & 2 (Blooms, QMS, TS)

It Must Be Right for It to Flow



Worldclass Cpk Performance

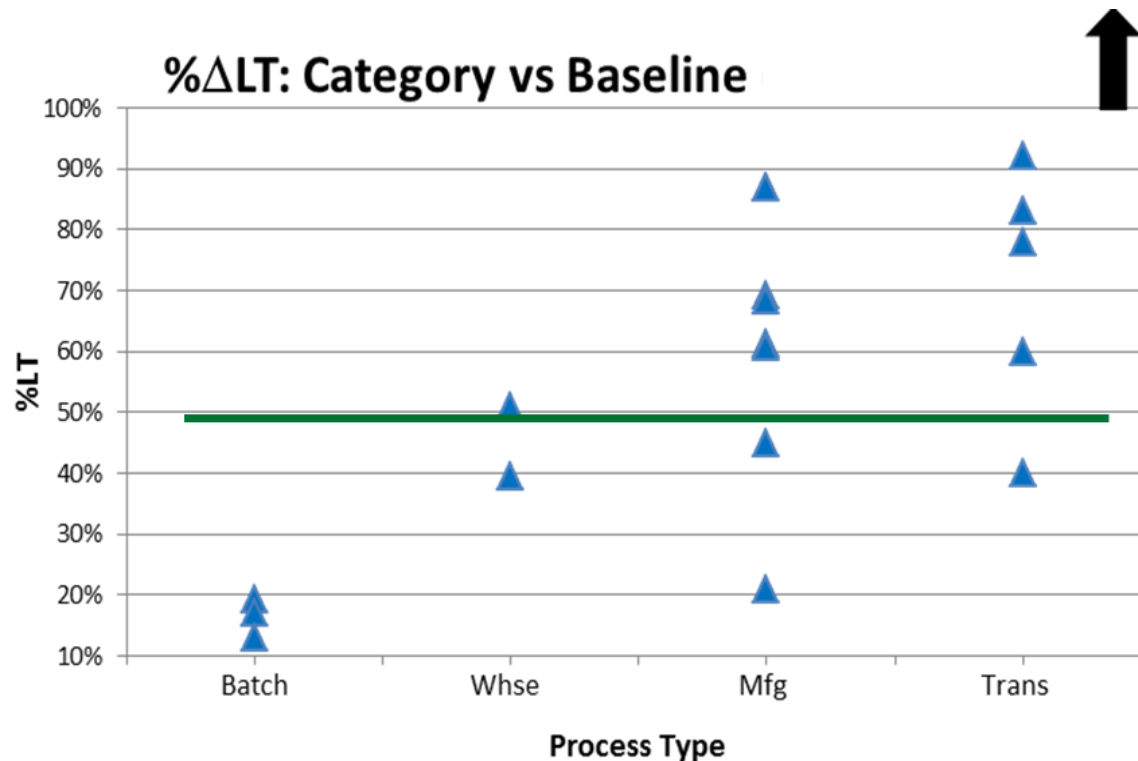


Continued YOY COPQ Reduction

Leverage a three-point QLMS strategy:

1. Correct issues that are causing losses. %Cpk/COPQ focus
2. Design/Develop new products (NPI) and processes so that new issues are not “released” causing business losses. DFSS
3. Effectively train personnel in two skill sets: A. Corrective Action and B. Preventive, Risk-Based Thinking (RBT)

Flow Means “Go” **50-50-20**



Observation:
The more complex the process, the more LT was reduced

- An average reduction of **50% LT** had much less working capital
- Enabling the average **Productivity** to increase by **50%**
- And the average **CPU** to be lowered by more than **20%**

Sample VSM: NPI

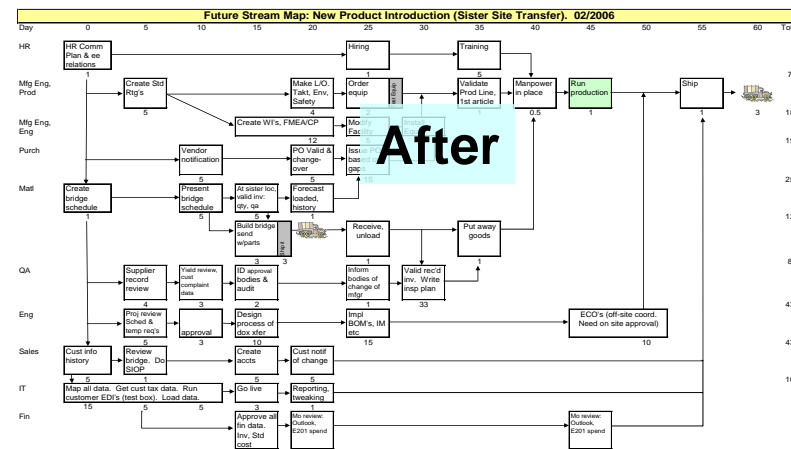


← 170 Days →

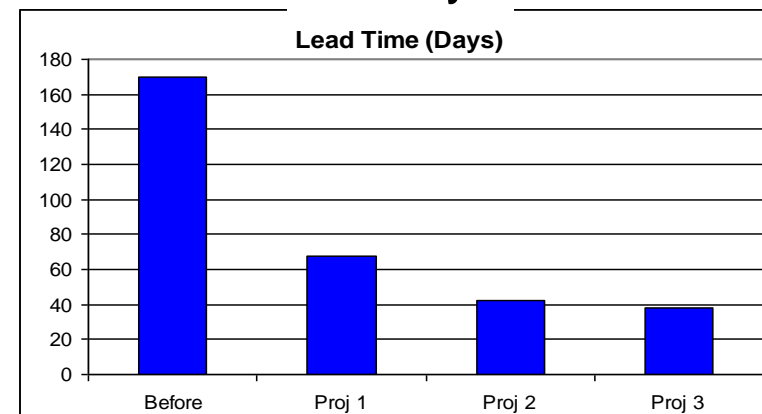
Initiative: Reduce New Product Introduction Lead Time

Action: Conduct value stream map review. Implement fixes

Results: 70% Lead time reduction.
Team able to increase NPI output



← 40 Days →



DMAIC Worksheet

Forms of Waste	Related Wastes	Actions to Improve
C orrection		
O verprocessing		
M ess		
M otion		
I nventory		
T ransportation		
N ot Using Ideas		
O verproduction		
W aiting		

Measure

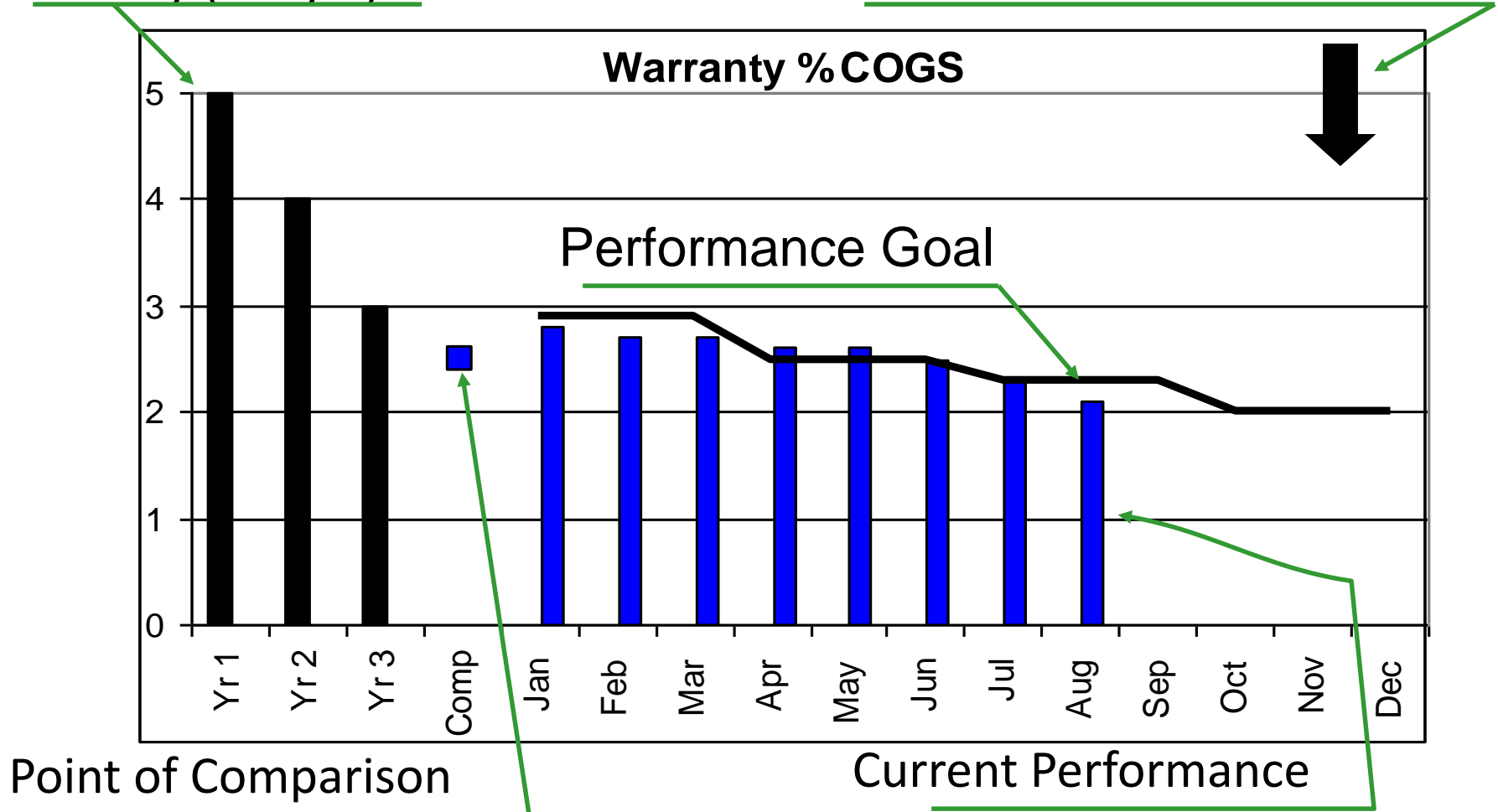
It's not what you pay a person, but what he
costs you that counts

Will Rogers

Sample KPI Format

History (2-3 yrs)

Arrow for desired direction

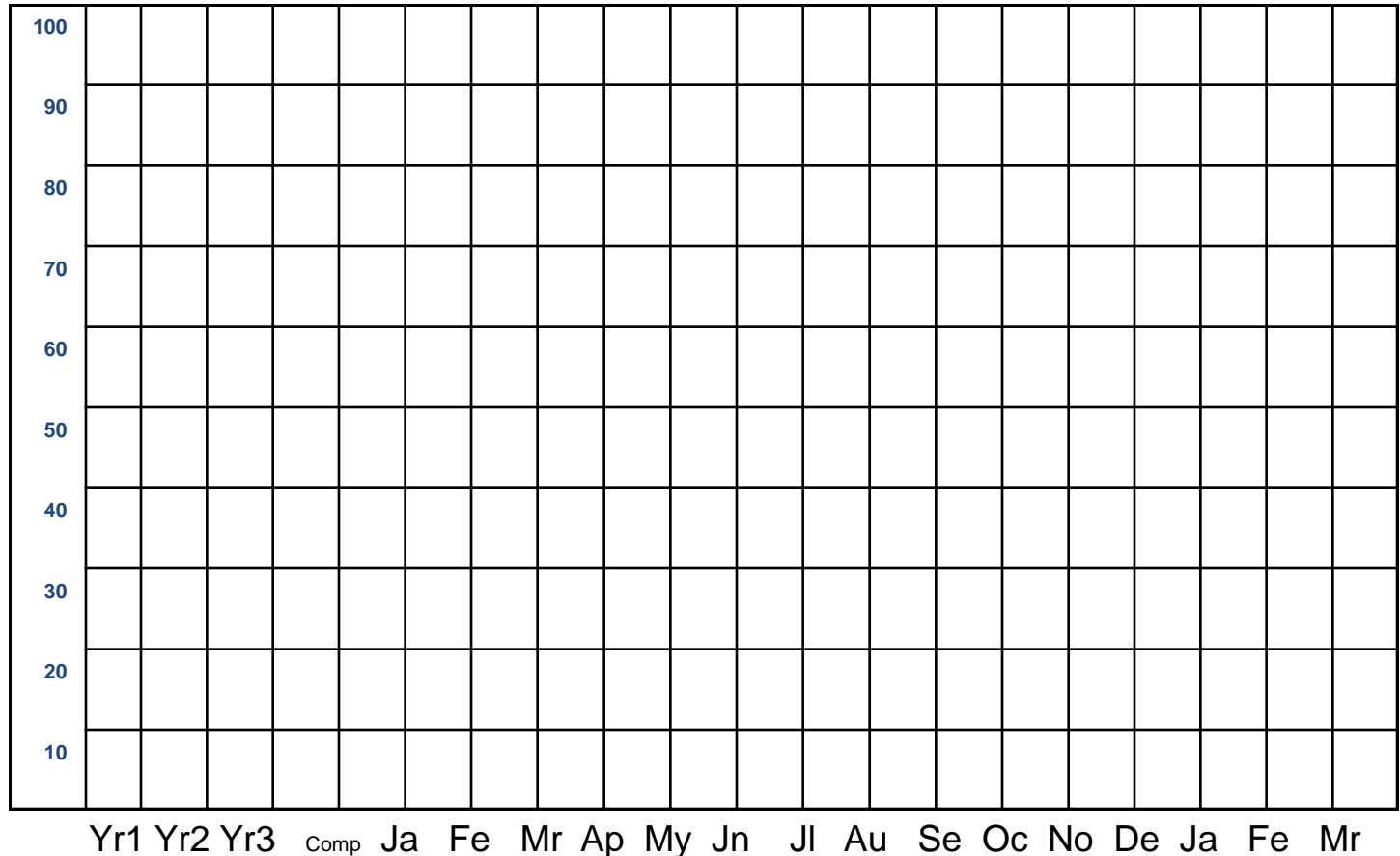


KPI Worksheet

Using the following data, create a sample Business Score Card (BSC) graph. Be sure to incorporate: History data, a comparison, a directional arrow, the goal/target line and current performance

On-Time Delivery: Goal 95%

Yr 1 – 52%
Yr 2 – 48%
Yr 3 – 46%
Comp – 94%
01/xx – 34%
02/xx – 35%
03/xx – 69%
04/xx – 41%
05/xx – 55%
06/xx – 84%
07/xx – 52%
08/xx – 58%
09/xx – 83%
10/xx – 62%
11/xx – 68%
12/xx – 88%
01/xx – 78%
02/xx – 83%

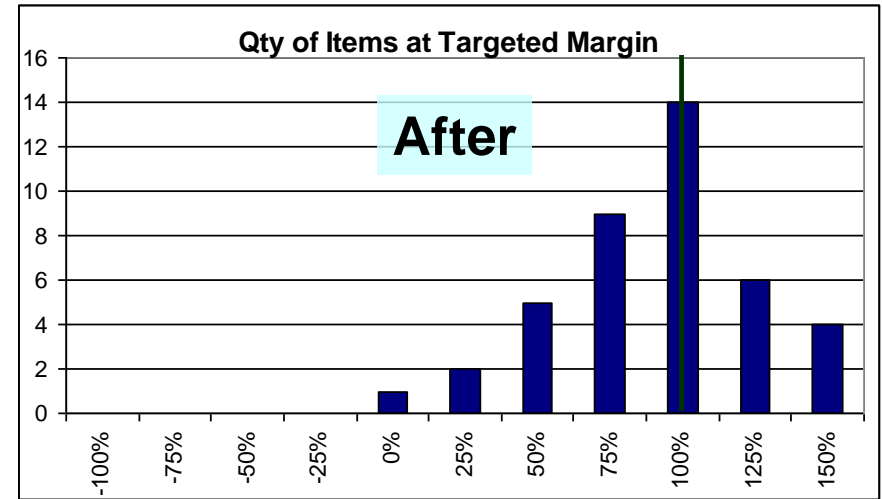


Analyze

Why not go out on a limb, that's where the fruit is.

Will Rogers

Sample Product Portfolio

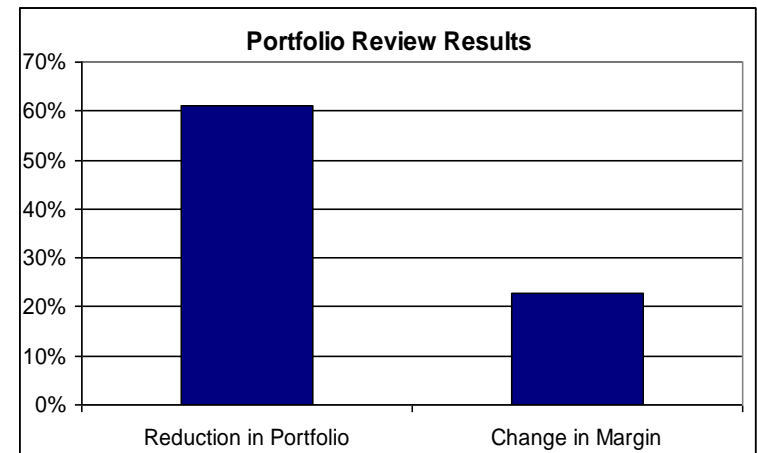


Ex: If targeted margin is 5%, then 8+ Items were meeting the 5% objective before and 14+ were meeting the objective after

Initiative: Improve margin by 5%

Action: Conduct VSM review on portfolio mix. Rationalize products. Continue to prune

Results: 22% Improvement in margin base



DMAIC Worksheet

Forms of Waste	Related Wastes	Actions to Improve
C orrection		
O verprocessing		
M ess		
M otion		
I nventory		
T ransportation		
N ot Using Ideas		
O verproduction		
W aiting		

Improve

Even if you're on the right track, you'll still get run over if you just sit there.

Will Rogers

Leveraging the X-Matrix

Hoshin Kanri is not the same as Management by Objective (MBO)

Source: Toyota Culture – Jeffrey Liker and Michael Hoseus (2008)

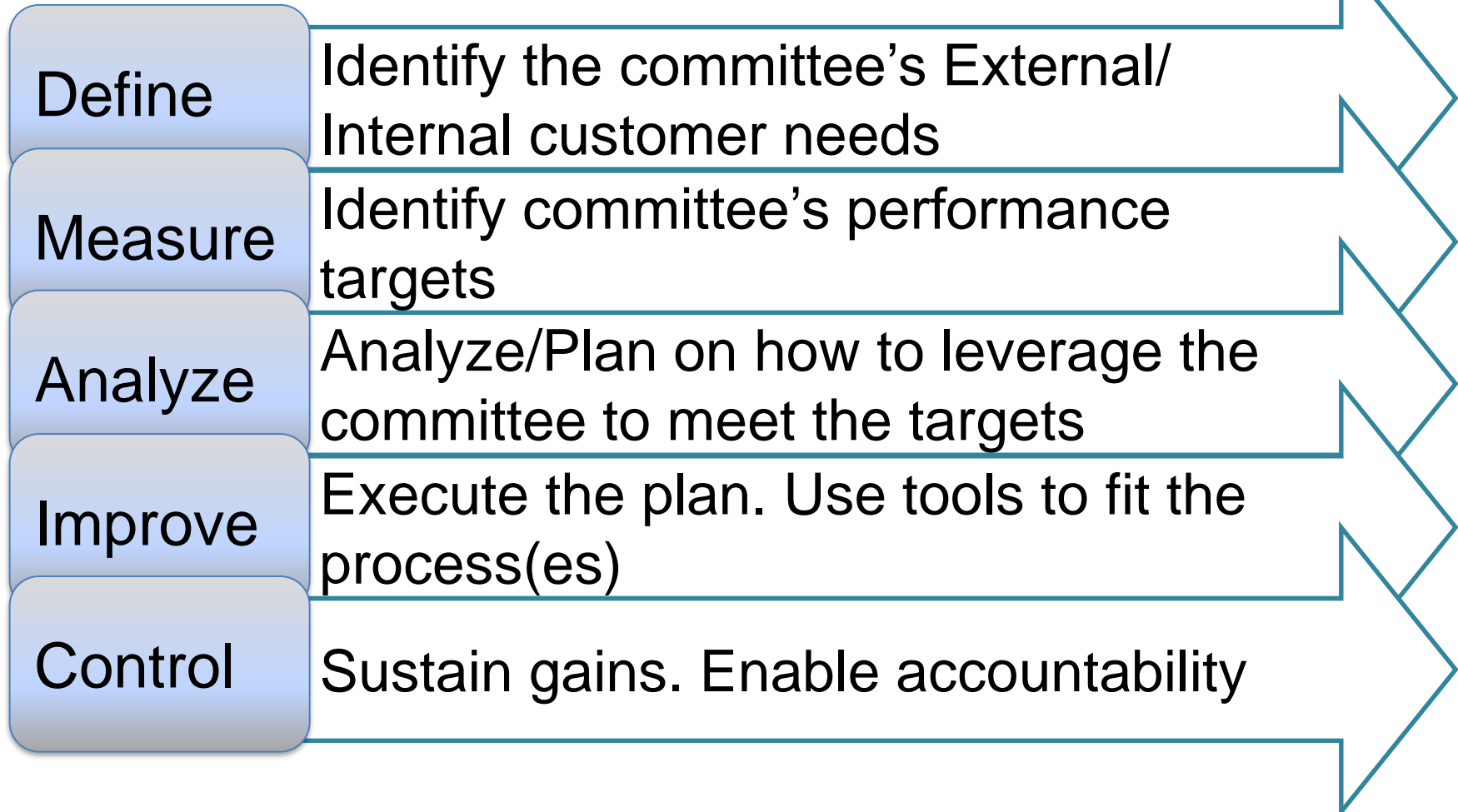
Management by Objective (MBO)	X-Matrix (Hoshin Kanri)
Results-oriented evaluation of effort	Concerned with both results and process of getting those results
Top-down communication	Top-down direction setting and bottom-up flow of information and means
Directive	Participative
Linear (no feedback, no second chance, just start over from scratch each time)	Circular (adds feedback loops (aka Catchball) and cycles of improvement)

Control

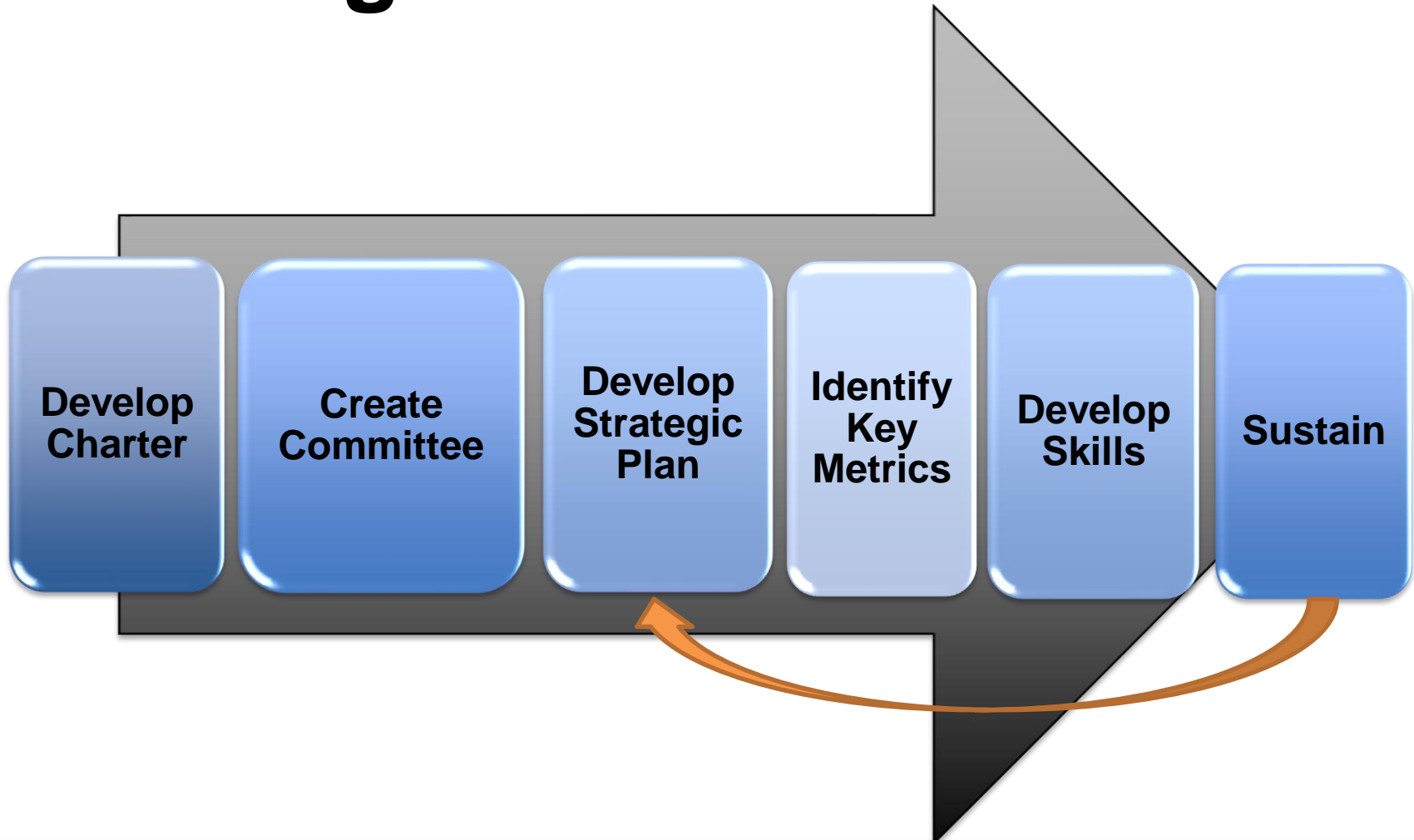
People's minds are changed through observation and not through argument

Will Rogers

DMAIC for a Steering Committee



Steering Committee Flow Chart



Committee's Charter



Scope: Enterprise-wide Quality & Lean Systems

Objective: To effect systematic a QLMS to meet business needs & exceed competitor performance

Key Actions: DMAIC

Define: Conduct business-wide baseline analysis. Identify key areas of focus by using strategic planning. Insure horizontal and vertical goal alignment

Key Actions: DMAIC



Measure: Identify key metrics & leading indicators.
Improve on metric calibration and effectiveness.
Use a transparent approach to meet the objectives

Analyze: Conduct effective system reviews

Improve: Engage employees in the executive of
effecting improvement. Share before/after results.
Review and improve upon the QLMS skills of the
council. Benchmark others

Control: Sustain gains. Share successes/lessons

Assessment, Mission/Vision



Assessment: Identify what type(s) of assessments of the current situation are needed: QLMS Status Tool, Personnel Skills, Effectiveness of Metrics, etc.

Mission: To effectively support the Company in attaining its strategic objectives by using QLMS systems to meet and exceed internal and external customer expectations of delivery, quality and cost

Vision: To be viewed as Company Champions of the QLMS Implementation

Consistency/Challenges



Consistency of Approach: Grow education base. Leverage QLC for execution of QLMS. Share lessons; internally and externally. Transition from an education to application platform

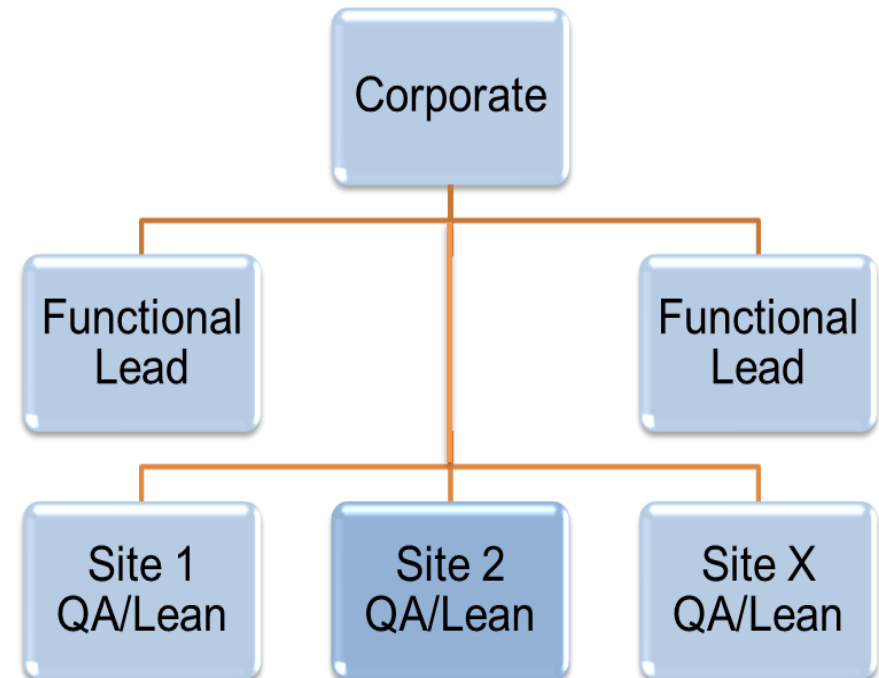
Challenges: Identify current issues that need to be overcome

Economies of Scale: Align team monthly, conduct Face to Face planning sessions, leverage an Intranet and Visual Operating System (VOS), etc

Committee Members

Factors to consider:

- Culture, Locations, Globalism
- Breadth/depth of QLMS execution (pilot, enterprise)
- Internal implementation, consultant support, etc.
- QLMS skill levels



Create an Aligned Strategic Plan

1. Review business strategies. Ex:

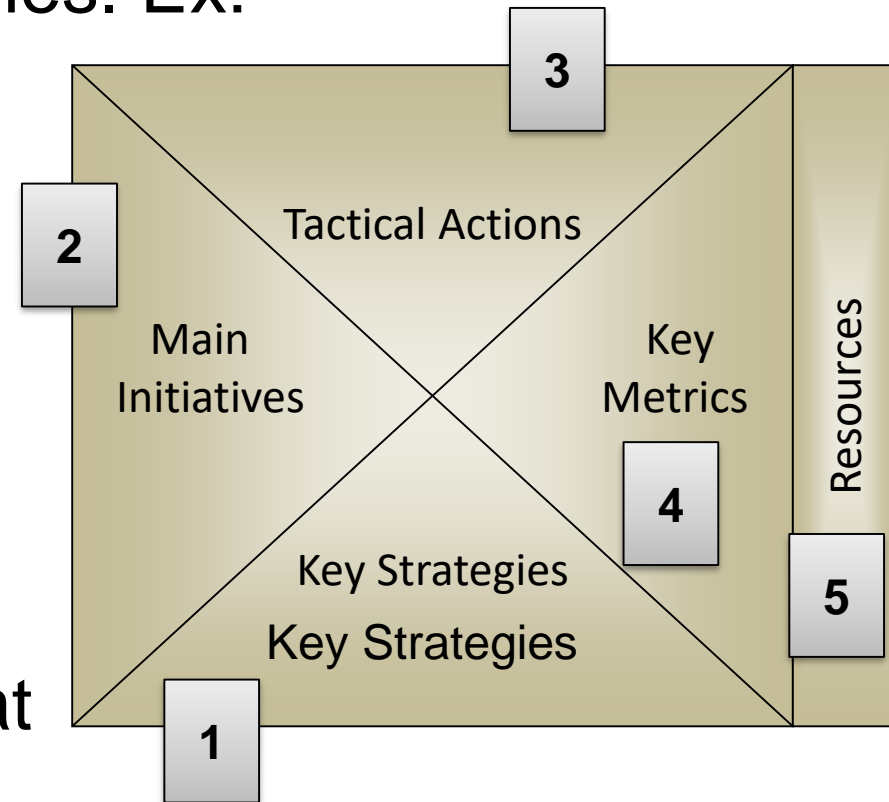
- Increase margin
- Grow sales revenue
- Develop new products

2. Develop aligning QLMS initiatives

3. Determine tactics

4. Identify key metrics

5. Identify who is to do what



Committee QLMS Skills

Committee skills are key to effective execution; Accelerate learning plan

- Determine **key** QLMS skills for **your** business. Assess team
- Implement a training plan

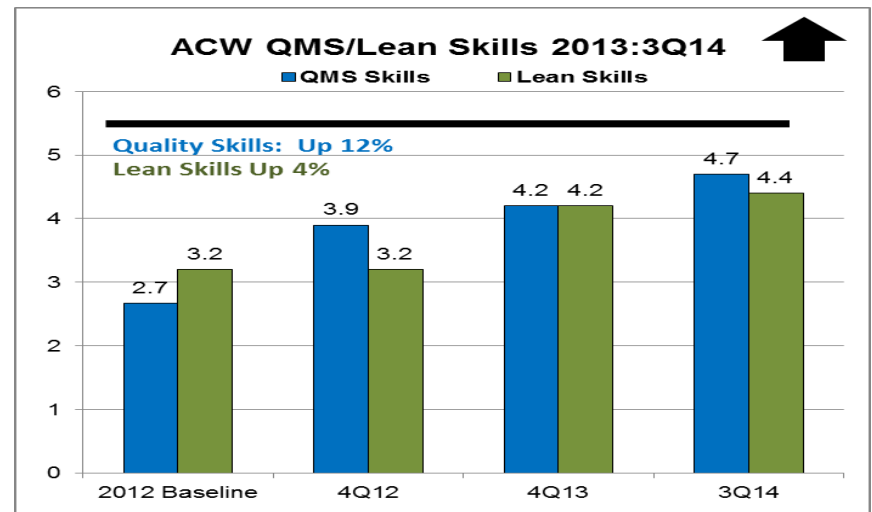
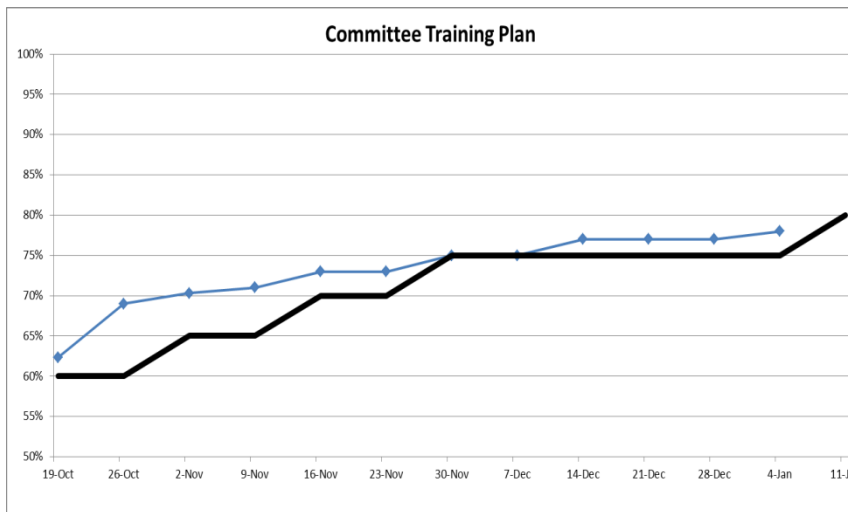
With this method, you can...

- Identify strengths/weaknesses
- Set individual planning goals
- Tie learning to strategy
- **Lead by example**

Personnel Name										
Tom										Define: Prob Defn, Timeline
Joe										Measure: Overview
Mary										M: Cp/Cpk/Pp/Ppk
Sue										M: Distrib (Norm/Poiss)
Bill										M: MSA Var/Attrib
Larry										M: Scatter/XY, Correl
John										A: Analyze, Pareto, PFD
Ann										A: Fishbone/Ishekawa C&E
										A: DCP (FMEA/CP)
										Improve: Verify, StdW, Xfer
										Improve: CAPA, 8D
										Control: Train, Dox/SOP
										3rd Party: ISO/TS
										Stagegate, PPAP/APQP
										NPI/ECN: Product/Process
										Internal Auditing/CQA
										Stat: DOE, Tools
										SPC x/p/c/u

Committee QLMS Skills

Holding the Committee accountable for learning and applying the skills will increase business buy-in



While the committee was learning on live processes, they both improved the systems and their skills

Sustain Committee

Analyze, Improve, Control

- Meet yearly to set strategy
- Check progress to tactics quarterly
- Meet monthly to review performance
- Adjust to business needs

Rules of Engagement

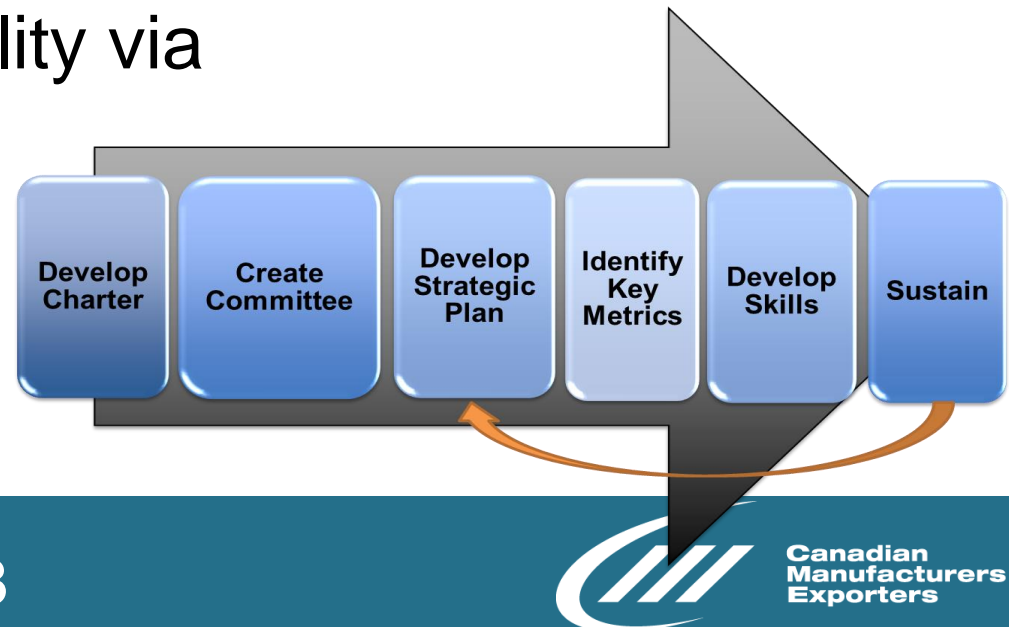
- Agenda/Minutes
- Lessons Learned

Meeting Minutes/Agenda: Monthly Quality Council, every 3rd Thursday of the Month			
Date:	19-Mar-2015	Telecon:	US 888.337.0215 p = 68.22.753
Time:	10:00 am – 11:00 am CST		Intl 720.514.4158
PURPOSE			
➤ Review status of Lean standardization efforts across Accuride Corporation			
➤ Review performance results to Lean KPIs			
➤ Share Lessons Learned – Minimum, 1 location			
EFFECTIVE MEETING CHARACTERISTICS			
x	Everyone notified	x	Meeting Began On Time
x	All Sites prompt, organized, prepared and participated	x	Action Items Assigned
x	Agenda Developed	x	Minutes Recorded
x	Review past minutes and Action Items	x	Meeting Ended on-Time
Comments: Review QMS Status/Planning			
DISTRIBUTION		DISTRIBUTION	
Attend	AQC Member/Participant (BU/Site/Name)	AQC Member/Participant (BU/Site/Name)	
Jd	Accuride QA & Lean: Jd Marheko	A/	Jb/ck
as	Accuride IL	A/	dk
n/a	Gunite RKI		
gn	Brillion: G		
jj	Wheels EF	H/	lw
ot	Wheels HE	H/	
kr	Wheels HE	H/	
ke	Wheels CI		
rt	Wheels Ad	A/	gm
jm/cc	Wheels LC	A/	pw
km	ADC: Bill H	T/	db
AGENDA Attachments to be sent prior to the Council Call			
Time	Topic/Discussion Item	Who	Time
10:00	Attendance, Roll-call.		0:03
10:03	ALC. Calendar: Review calendar		0:01
10:04	Status: X-Matrix Status Update...Round Robin: LEACH, AOT/ADC, Rkfd, BIW		0:30
10:34	ALC. E-VSMs: Ea team to report on key items; Will review in June Lean Review		0:00
10:34	Status: Transactional VSMs...round robin; BIW, Rkfd, L, E, A, C, H, AOT/ADC		0:00
10:34	AME Plan: Erie/Rockford. Status		0:03
10:37	MBB/IE: Current 4SQ Status		0:05
10:42	KPIs. Transition to Plex; AS/DB		0:05
10:47	Next Steps. Accu-Launch - general status		0:05
10:52	Lessons Learned. ADC Whse		0:05
10:57	Accuride News: GB Sessions IP at EVV (32 attendees)		0:01
10:58	Next meeting: Thursday, April 16th		0:01

Sustain: Hold the Gains

Steering Committees generally experience heavy turnover. To retain effectiveness consider...

- Quarterly alignment to strategic plan
- Partner new members with seasoned personnel
- Standardized & accessible learning material
- Hold KPI accountability via personnel reviews



Charter Worksheet; Pg 1 of 2

Area	Notes
Members	
Scope	
Objectives	
Define	
Measure	
Analyze	
Improve	

Charter Worksheet; Pg 2 of 2

Area	Notes
Control	
Mission	
Vision	
Challenges	
Approach	
Scale	

X-Matrix Worksheet...Your Turn

We Have Applied Hoshin Kanri



Define

We used an X-Matrix to define our customer needs (internal/external)

Measure

We used an Obeyah flow to determine the KPIs for performance evaluation

Analyze

We used VSM to investigate causes for gaps and created a plan of attack

Improve

We executed improvements and used tools to fit the problem (VSM, TPM, SUR, EP...)

Control

We used a Steering Committee process to execute the flow

What's Next? Get Engaged

- Learn your organization's strategies
- Match those strategies to your objectives
- If they don't match, adjust accordingly
- Share how YOU and your TEAM are making a contributory difference to enabling the strategies to occur
- Demonstrate YOUR relevance!

Thank You!

Hoshin Kanri

Arvind Srivastava

Accuride Corporation

asrivast@AccurideCorp.com



Company Quality Council Charter 20xx

Company Quality/Lean Council (QLC)

Corporate	QA Name	Lean Name		SCM Name	Eng Name
Site QA & Lean Leaders, Other key members	Site 1 QAM Name	Site 1 Lean Name	Site 1 Eng Name	Site 1 IT Name	Site 1 IT Name
	Site 2 QAM Name	Site 2 Lean Name	Site 2 Eng Name	Site 2 IT Name	Site 2 IT Name
	Site 3 QAM Name	Site 3 Lean Name	Site 3 Eng Name	Site 3 IT Name	Site 3 IT Name
	Site 4 QAM Name	Site 4 Lean Name	Site 4 Eng Name	Site 4 IT Name	Site 4 IT Name
	Site 5 QAM Name	Site 5 Lean Name	Site 5 Eng Name	Site 5 IT Name	Site 5 IT Name



Scope	Company's Quality and Lean Management Systems, Enterprise-wide
Objectives/Deliverables	To support and effect a systematic methodology of deploying the Quality and Lean Management System to meet the customer expectations and exceed competitor performance and corporate requirements
Key Actions	<p>Define: Conduct Lean and Quality Management System baseline analysis across the business. Utilize X-Matrix strategic planning methods to identify key areas in which to focus improvements and/or to close gaps. Insure horizontal and vertical alignment on the goals and objectives</p> <p>Measure: Identify Quality and Lean based KPIs focusing on leading indicators. Refine and improve the calibration and effectiveness of the KPIs and align them to the business strategies. Continue to use a dashboard approach to meet delivery, quality, cost and safety</p> <p>Analyze: Conduct focused and effective system reviews using QMS and Lean methodologies.</p> <p>Improve: Engage our employees in the application and execution of effecting improvements. Demonstrate before and after results. Regularly review and improve upon the Quality and Lean Science skills of our Council members. Benchmark the systems of others to further our knowledge base.</p> <p>Control: Sustain gains. Share successes and Lessons Learned (LL)</p>



QLC Mission: To effectively support the Company in attaining its strategic goals and objectives by using Quality and Lean Management Systems and methodologies to help the business meet and exceed both internal and external customer expectations of delivery, quality, cost and safety

QLC Vision: To be viewed by Accuride employees as Champions of Quality System Implementation and Excellence.

Assessment of Quality & Lean Functions: The team will execute through a Council. Baseline assessments have been conducted across all core locations. An enterprise-wide improvement plan will need to be developed for execution. Leading KPIs have been developed for review and baselines are being established. A focused growth in the bench strength of QLC members is needed based on key quality science skills levels. Standardized systems are being reviewed for gaps as well as the opportunity to build upon existing foundations.

Challenges: Team members are at different levels of quality and lean science skill sets, applicational backgrounds, and ability to execute quality and lean systems. IT/Data systems are needed for effective data collection and rapid analysis. Internal/8D/CAPA systems need to be developed at most locations. Leading indicator KPIs need to be developed. Overall, need to focus on and manage scrap due to lack of process control and system losses due to lack of material flow control. There is a need to manage cultural change.

Consistency of Approach: Grow baseline education and establish goals. Utilize QLC to leverage execution of core processes. Share lessons learned; internally and externally. Create a plan to transfer from a platform of education to one of application with measured results.

Leveraging Economies of Scale: Utilize monthly web-based telecons for team alignment. Conduct bi-annual Face to Face (F2F) strategic planning sessions. Leverage F2F sessions to grow skills and align resources. Leverage the Intranet for shared processes and documents. Publish/Share benchmarking activities across the business. Standardize quality and lean Visual Operating System documents/processes as feasible.

Resources

There are hundreds of excellent books/tools/sites, etc. Here are few that I have used as recent references:

- Accuride Corporation. Lean Management 50-50-20. Marhevko, Srivastava, Blair
- ASQ Quality Management Division. ASQ-QM.org.
- ASQ.org
- AME.org
- Lean Enterprise Institute (LEI) at Lean.org
- Superfactory.com
- Hoshin Kanri for the Lean Enterprise. Developing Competitive Capabilities and Managing Profit. Thomas L. Jackson
- The Lean Pocket Guide: National Association of Job Shops and Small Manufacturers (NAJS)
- From Good to Great. Jim Collins
- The Tipping Point. How Little Things can make a big Difference. Malcolm Gladwell
- Blink. The Power of Thinking without Thinking. Malcolm Gladwell
- Toyota Production System. Beyond Large Scale Production. Taichii Ohno
- The Toyota Way. Jeffrey Liker
- The Executive Guide to Understanding and Implementing the Baldrige Criteria. Leonard & McGuire
- The Executive Guide to Understanding and Implementing Lean Six Sigma. Meisel, Babb, Marsh, Schlichting