Lean Introduction SD ARMA San Diego, CA 3/29/2017

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Agenda – March 29th, 2017

12:00 - 12:15 What is Lean? Kaizen? Waste?

12:15 - 12:20 Lean or Six Sigma?

12:20 – 12:40 Examples of Kaizen Blitzes

12:40 – 12:50 Lean Results and Lessons Learned

12:55 – 1:00 Wrap

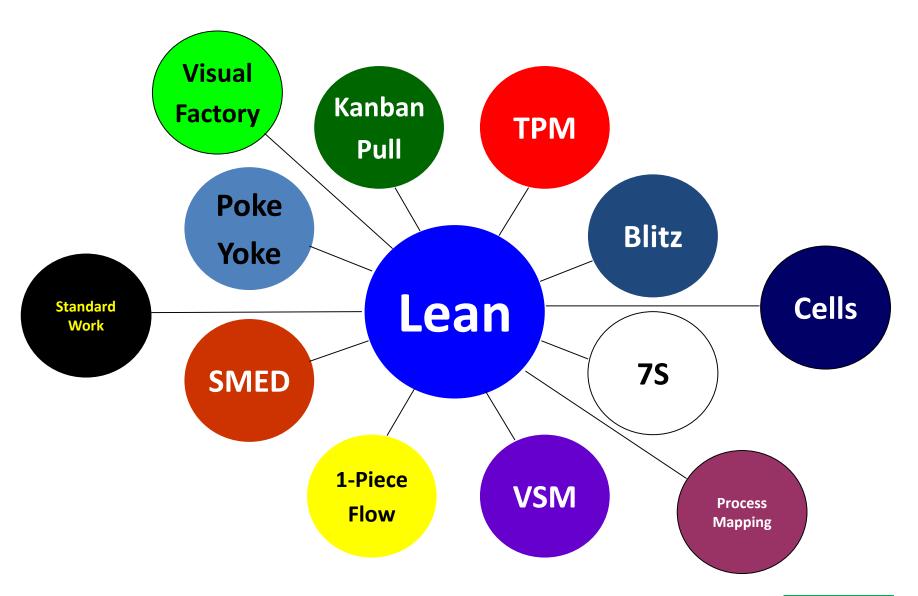


"Lean" In Business Means:

- Waste or "fat" has been "trimmed" or removed from the process
- The process that provides value to the customer is as short or quick as possible
- Least or fewest resources are used to meet or exceed customer needs
- An umbrella of continuous improvement techniques and practices, which engage employees, and <u>drive results</u>

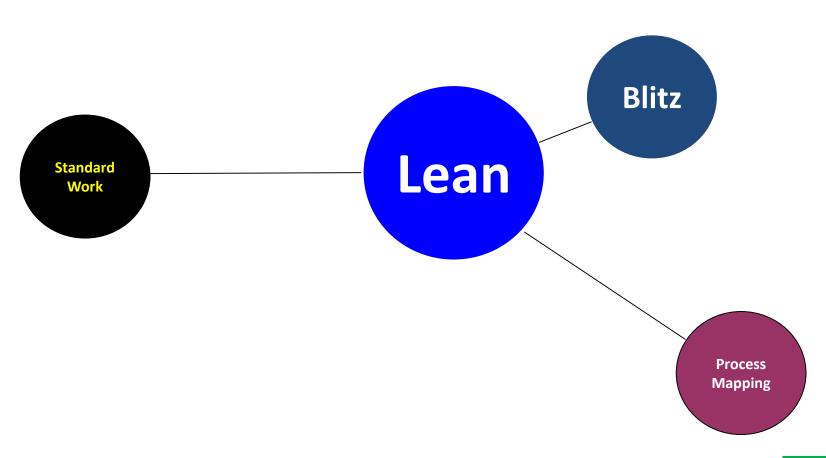


Typical Lean Tools





For Our Discussion Today





Goals of the Lean Enterprise

- 1. Improve Quality
- 2. Eliminate Waste
- 3. Reduce Lead time
- 4. Reduce <u>Total</u> Costs



Defining Waste

In Business, *EVERYTHING*:

- Takes Time
- Costs \$Money\$



All work is either...

Value Adding (VA)

Important to the external customer – willing to pay for or is a condition of doing business with them

OR

Non-Value Adding (NVA)

Consumes time, resources or space, but does not transform, or add to the customer's desired, perceived value of a product (necessary and unnecessary NVA)



8 TYPES OF WASTE



WIP - WASTE In Process!

- Defects errors, not right the first time; incomplete, unclear or wrong information
- Overproduction ahead of, or in excess of demand
- Waiting people, service or product is idle
- Non-utilized talent not using employee knowledge or creativity
- Transportation unnecessary movement of product
- Inventory excess, requires space
- Motion –movement of people, ergonomically exposures
- Extra processing doing more than the customer requires



Value Adding or Not?

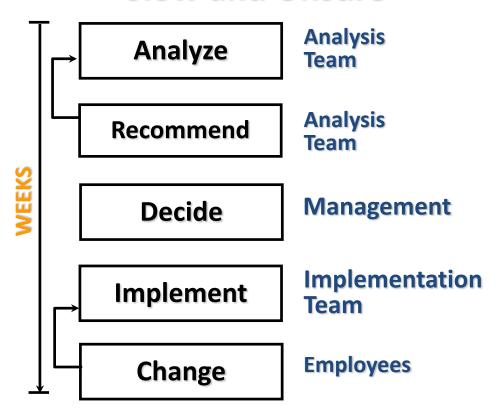
- Looking for information
- Building product or providing service
- Filling out forms
- Ordering supplies
- Shipping Product
- Inputting data

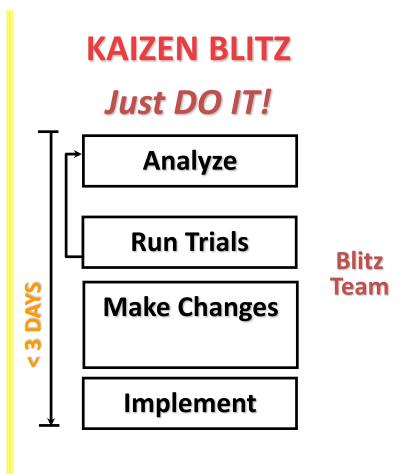
- Getting approvals
- Packaging product
- Copying forms
- Re-quoting
- Writing procedures
- Training
- Warranty claims



Problem Solving

TRADITIONAL METHOD Slow and Unsure







Fundamental Principle of Lean / Kaizen:

Anything that does not add value to the product is waste and must be reduced or eliminated





Lean

- Customer Defines what is "Value"
- Customer is not willing to pay for nonvaluable things
- Reduce or Eliminate
 Waste or Non-Value Added (NVA)
- Focus on Value
 Streams
- Drive waste, leadtime, set-up, other reductions
- Kaizen and TPS

Six Sigma

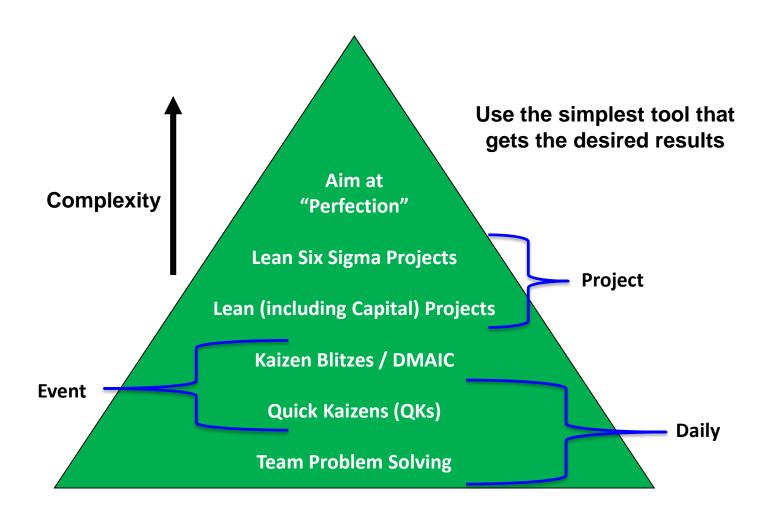
- Reduce variation
- Total system approach (SIPOC)
- Follow DMAIC methodology
- Reduce process variation
- More statisticallyfocused tools around reducing process standard deviation (sigma level)
- CpK, DOE

Lean Six Sigma

- Combined approach
- Define Value, Remove Waste then Reduce Variation
- Follow Kaizen and DMAIC methodology
- Tiered approach:
 - 1. Kaizen (basic)
 - 2. Lean (intermediate)
 - 3. Six Sigma (advanced)
- Use simplest tools first, progress to more advanced as needed to improve



OK, So How Do We Decide What to Use?



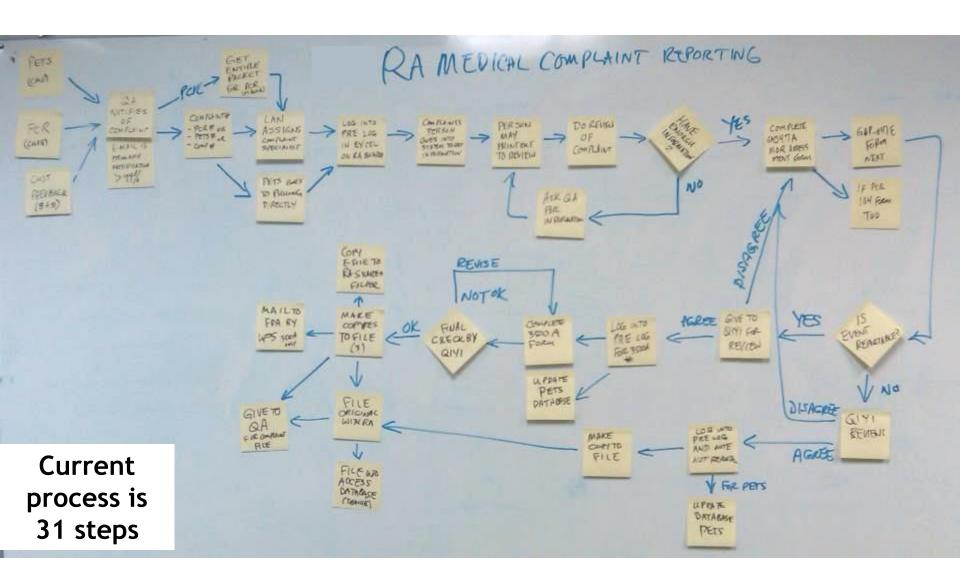


EXAMPLE KAIZEN BLITZ



Regulatory/Compliance Kaizen Blitz Team











Before & After State Measures

RA Medical Complaint Reporting Blitz			
Measure	Before	After	% Improvement
Number of People Involved	6	2	67%
Number of Steps/Touches	31	8	74%
		Average	70%

Cost Avoidance: \$45,000+ per year plus net zero personnel increase





Kaizen Blitz Records Retention (GP-308)

March 22nd-23rd, 2007







The Kaizen Blitz Team









The Blitz Mandate

Process Name	Blitz Start Date	Blitz End Date
Records Retention Process (GP-308)	22-Mar	23-Mar
	Start Time:	End Time:
Process Boundaries (Start to End)	8:30 AM	4:00 PM
All records retention for all processes per GP	Team Meeting Location:	
308	Various (see Outlook)	
Why Do We Need This Blitz?	Process Owner(s)	
We store too many records in paper form and	Nora York	
electronically. When the records can be	Process Expert(s)	
disposed, Corovan process is not clear. Need	Neil Delaney	Carol Hulett
process owners/experts to be in place.	Vida Rodriguez	Mari Reigel
Blitz Targets	John Iraci	Dale Hammer
Reduce Lead Time by 50%	Crystal Sewall	
Reduce process steps by 50%	Process Outsider(s)	
Reduce Distance Traveled by 50%	Jaime Alvarez	Julie Lyon
Reduce number of touches by 50%	Susana Young	Nate Manczarek
Update Standard Work Procedure (GP-308)	Adam Glascock	Joe Martinez
	Facilitator(s)	
	Jerry Wright	Nora York







Process Map – Before State

• Does the term, "PERM" mean anything to you?

Method	Active	Archive	DESTROY AFTER YEAR	Count	
Total Years	1905	594	2449	226	Record Types
Average retention	9	11	20		

• We have been keeping our records for an average of *TWENTY* years (both here and Cor-o-van)!







Process Mapping









Before & After State Measures

Improvement %

Record Retention GP-308 Process			
Measure	Before	After	Change
Lead Time to Store	30 min.	20 min.	33%
# of Steps to Store	8	6	25%
# Years On-Site	9	7	22%
# Years Off-Site	11	4	64%
# Years Total	20	11	45%
# of Records	226	211	8%

33% Average Improvement!





Other Accomplishments

- We're based on Federal, local laws and best practices in current record retention
- Procedure is more clear and concise
- Simplified the document storage labeling process for Cor-o-van
- Identified a follow-up blitz for Records Review and Destruction at Cor-o-van





Thank you!

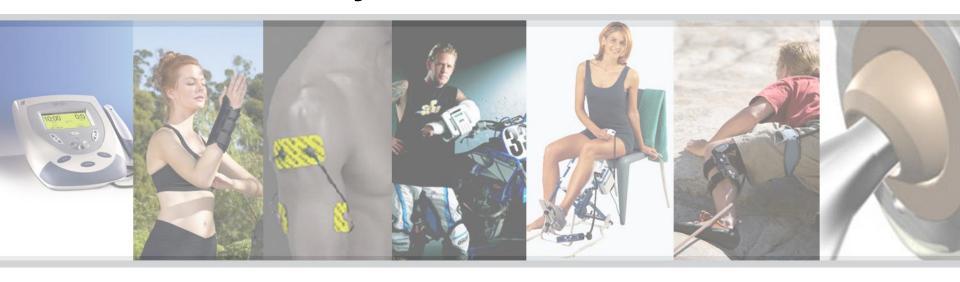
Until the next blitz...







Kaizen Blitz Report-Out Accounts Payable - Shoreview May 28-29, 2008

























The Kaizen Blitz Team

























The Blitz Mandate

Process Name	Blitz Start Date	Blitz End Date	
Accounts Payable Process	28-May	29-May	
	Start Time:	End Time:	
Process Boundaries (Start to End)	9:00 AM	4:30 PM	
Invoices to Payment	Team Meeting Location:		
	Boardroom		
Why Do We Need This Blitz?	Process Owner(s)		
Too Many Touches	Tina Eskro		
Too Much Time (and OT)- Process & Approval	Process Expert(s)		
Have invoices scanned and attached in Oracle	Pat Martinson	Emily Shemanski	
Invoices routed via email for approval	Lana Leykind	Renee Knutson	
Store invoices electronically/ reduce manual files			
Blitz Targets			
Reduce Lead Time by 50%			
Reduce process steps by 50%	Process Outsider(s)		
Reduce Distance Traveled by 50%	Susan Sosna	Anna Skar	
Reduce number of touches by 50%	Brian Mower	Dawn Mordorski	
Reduce total space/files required by 50%	Leann Burich	Jane LaPorte	
Establish Standard Work Procedure	Facilitator(s)		
Establish 5-S+1 or improve 5-S+1 score	Jerry Wright	Tom Bachinski	















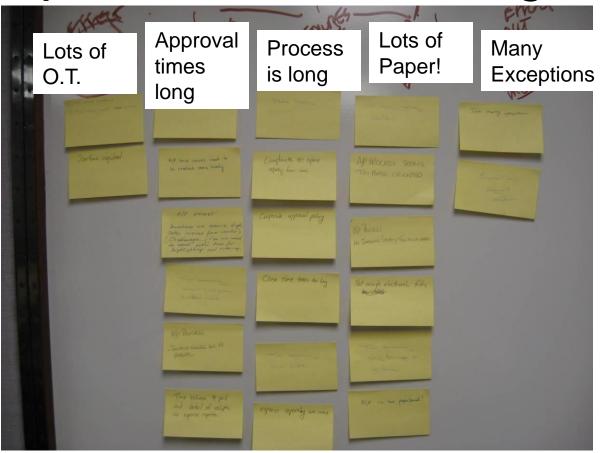








Top Reasons for Change

















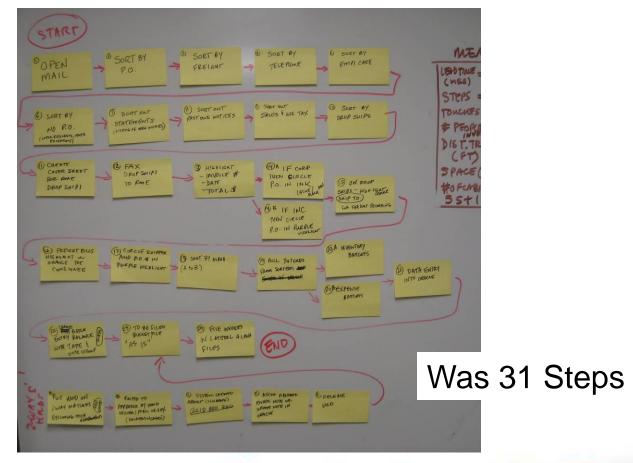








Before State Process

















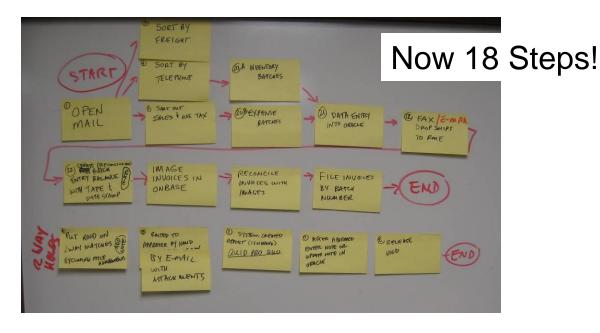








After State Process

























Before & After State Measures

Accounts Payable - Shoreview			
Measure	Before	After	% Improvement
# of people involved in A/P process	4	2	50%
# of steps/actions	31	18	42%
# of touches	15	8	47%
Total square feet of space used	1,300	992	24%
# of filing cabinets	28	8	71%
Lead time (days)	5	2.5	50%
# of feet traveled per invoice	609	381	37%
		Average	46%























Other Benefits / Misc.

- Consolidate bank accounts from 2 to 1
- Reduce postage costs / handling with FAXing of expense reports to OnBase
- Reduce O.T. for A/P
- Reduce routing for approval time, filing time, sorting time, etc!
- Floor space freed-up for other use
- We're going to save a fortune on highlighters, file folders and labels!!!!!























30 Day Action List

1. Review RME repair & maintenance lack of P.O.'s

2. Work with Chatt on P.O. and invoice process

3. Consolidate bank accounts (Corp/Inc)

4. Purchase licenses for OnBase

5. OnBase overall design and implementation

6. Keyword updater design and implementation

7. Determine new process for expense reports

8. Determine dual monitor needs (long-term)

9. Plan for 2008 file imaging and resource

10. Remove file cabinets from A/P

11. App enabler with hot spots evaluation / use

12. RME freight reconciliation process review

13. Complete SOX scripts for internal controls

14. Discuss scanner usage with Kris Chmielewski

Tina, Yvonne

Tina, Theresa

Tina, Dawn

Susan

Jane, Pat

Jane, Dawn

Jane, Tina, Susan

Tina, Susan

Tina, Pat

Pat, A/P Team

Jane, Pat, Dawn

Pat, RME person

Pat, A/P Team

Tina, Susan, Pat























Thank you!

Until the next blitz...



















Lessons Learned

- It's all about leadership commitment and the culture you create as you go – you don't "manage change;" you just create it as you go; people readily accept change for the better
- The biggest barrier to change and adopting Lean are managers learning to let go of power and control and embrace learning and trying by everyone in the organization
- Kaizen Blitzes are the <u>best means of engagement & culture shift</u>
 - ➤ They drive employee satisfaction with their work, their manager and the company while creating a culture of Lean
 - Kaizen Blitzes and Value Stream Mapping provide training for organizational leaders to "see" waste



Lessons Learned

- Leaders that you want in your company must possess a strong desire to lead, possess leadership / the ability to get things done through others and have a <u>demonstrated desire and ability to coach others</u>
- Leaders must have a <u>drive to pursue perfection</u> knowing that they will never see it and they will never be done
- Work should be fun; yes it is work but your team needs to be winning against the competition
- Everyone needs to embrace and be involved in transforming and leading the business all areas must be involved there cannot be "silos"



Lessons Learned

- Be willing to <u>accept some level of failure</u> for taking risks to make things better
- Drive ownership and decision making to that level that is closest to the customer or closest to the process; <u>trust people to do the right thing</u>; the "right" people don't need supervision
- Lead (<u>inspire/motivate</u>) rather than manage (instruct/control); let teams determine how to best accomplish their objectives
- Become a "<u>learning organization</u>" that looks for good ideas
 everywhere, everyday seek out others who pursue the same goals
- Losing sucks but <u>winning is fun</u> <u>a culture of Lean helps you win!</u>



Lean Introduction for SD ARMA

Thank you!

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