



02.20.19 VHA Workshop

METRICS AND DATA VISUALIZATION

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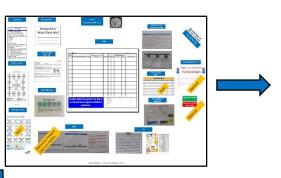
Why are we here today?

- Build a collaborative understanding of Metrics and Visual Management (VM)
- Explore how Metrics & VM relate to Lean Operating Systems
- Discuss key issues and needs that are associated with Metrics & VM
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Key Terminology

Visual Management conveys data so that "health" can be easily seen; it's the unifying framework of Daily / Weekly / Monthly Management

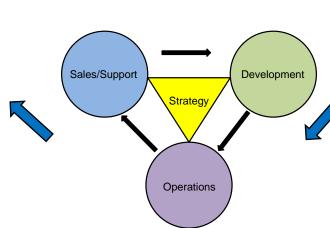




Daily / Weekly / Monthly Management is the process of "Assess", "Assign", "Accountability"; it's a core component of a Lean Operating System



Metrics, also known as Key Performance Indicators, assess and control organizational processes; these quantifiable objectives are the basis of Visual Management



An Enterprise Excellence Model is how the entire enterprise integrates and responds, to ensure performance



A Lean Operating System is the culture of process stability and continuous improvement under an Enterprise Excellence Model







Metrics Selection – Thought Process

- Aligned to enterprise objectives, both Strategic and Tactical
 - Safety, Security, Quality, Delivery, Cost / Efficiency, Inventory
- Used as the key indicators of core process stability
- Compared against benchmark organizations
- Drive enterprise focus on desired actions and behaviors
- Applied consistently, to link the entire Enterprise ("True North")

Regarding metrics, what must first be defined? ... "Customer" and "Value"

- Limited to the 'critical few" ("more" doesn't equate with "better")
- Refreshed at rates that align with meeting cadences
- Utilize effective Visualization, in order to drive the desired responses

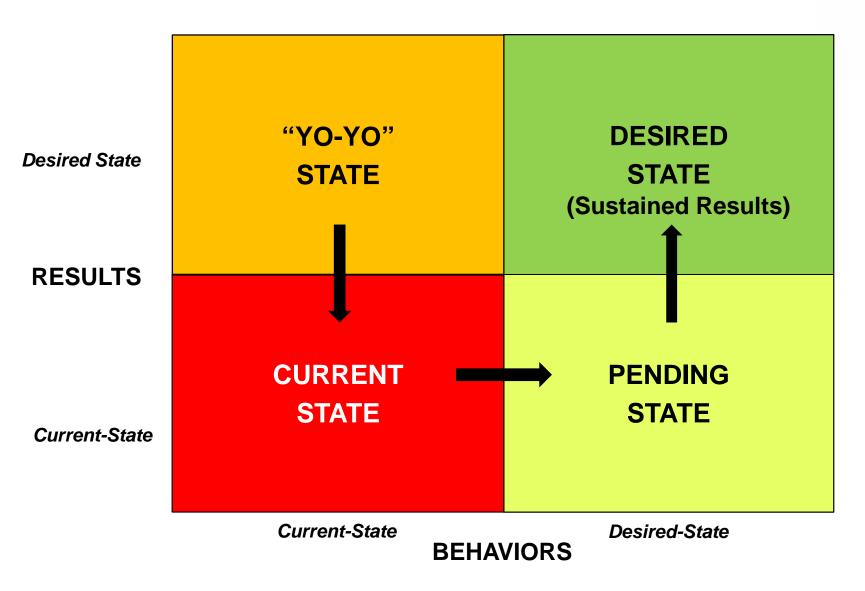


Goal	Target	Owner	Review Frequency	Aug-16	Sep-16	Oct-16	YTD 2016					
Finance												
Patient Information Accuracy Rate	99%	Paul	Monthly	99%	100%	97%	100%					
Denials and Write-offs as % of Overall Charges	4%	Sarah	Monthly	9%	4%	3%	5%					
Number of Days Charged in A/R	5	Sarah	Monthly	2	- 6	1	4					
People												
Absenteeism Hours	30	Jaseph	Monthly	15	20	30	22					
Acceptable Overtime Hours	7%	Jaseph	Monthly	8%	4%	5%	6%					
Staffing: Open Positions	3	Jennifer	Monthly	2	1	1	1					
Clinical												
Hospital-Wilde 30 Day Readmissions	10.0%	Mark	Monthly	13.0%	11.0%	9.8%	12.2%					
Heart Failure Mortality	13.2%	Mark	Monthly	12.7%	11.0%	9.0%	10.7%					
Inpatient LOS (Days)	3	Catherine	Monthly	2.7%	2.3%	2,6%	2.5%					





"Performance" Objectives



Metrics Selection – Thought Process into Action

						Example - \	'HA Facility Metric Worksheet									
Core Customers - Clie	nt subgroups a	and internal cus	stormers (e.g.	. Operations	s) -	•	•									
						sources, Modernize systems										
							eliness, Focus resources, Modernize systems									
							Quality & equity, Innovation & improvement, Collaboration									
VHA Facilities - Strates	gic Objectives:															
Question - How are /	should the cor	mponents of ar	Enterprise S	trategy diffe	erentiated - The	eme vs. Priority vs. Objective vs. Go	I (refer to Strategy / Policy Deployment (i.e. Hoshin Kanri)???									
							2 : 10 : 21 :		Management Locations					dence	Data	Visualization
Value Stream	Safety	Security	Quality	Delivery	Efficiency	Current-State Behaviors	Desired-State Behaviors		Team Dept. Div.			Enter.	Day/Wk.		Refresh Rate	Format
							Honesty, Integrity, Motivation, Commitment									
							Promote - Diversity, Communication, Collaboration									
							Improvement, Exploration, Risk Management, Collaboration									
							ICARE - Integrity, Commitment, Advocacy, Respect, Excellence									
Fi																
Equipment																
Maintenance/Repair																
Facility Projects																
Name of																
Value Stream #3																
												_				
togic (Drockthrough	als)															
tegic (Breakthrough go																
ctical (Lagging Indicate																
ctical (Lagging muicati) I															
Are the metrics aligne	d to Enterprise	 - (i e \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/ \/	ohiectives													
Are the metrics strate			objectives!													
Are the metrics aligne			/c?													
Do the metrics aligne				es of actions	.?											
Are the metrics limited			viors and type	LS OF BUILDING	,,											
Where will the metric			ss rates align	with meetin	ng cadences											
What is the planned vi						hart. etc.)?										

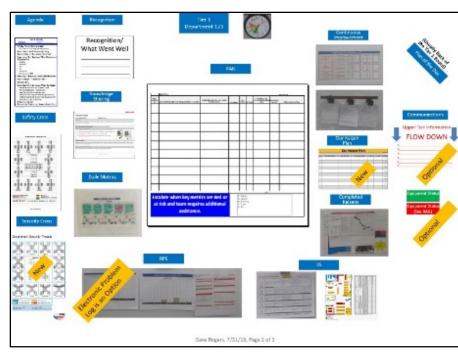






Visual Management

- Assesses the "health" of each level and function of the Enterprise
- Uses easily-identifiable and compelling signals (e.g. color)
- Spotlights actual vs. expected performance
- Highlights barriers; this leads to actions (accountability) / escalations
- Characteristics:
 - Easily recognizable (self-evident)
 - Commonly known / understood
 - Avoids "clutter" (i.e. visual noise)
 - Links to key processes ("at standard")
 - Drives various responses:
 - Tactical actions
 - Systemic Problem-Solving
 - Continuous Improvement

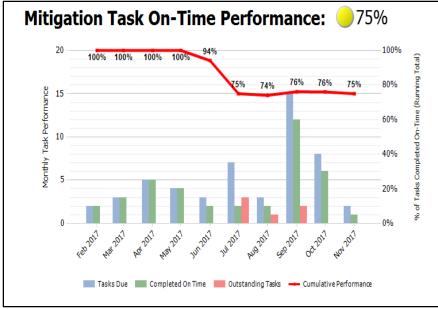


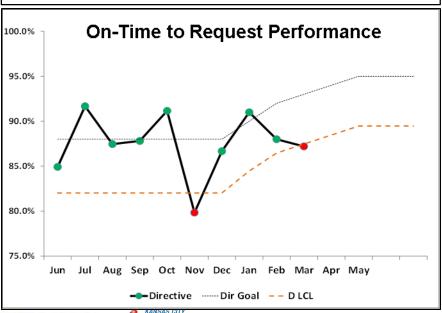






Visual Management Effectiveness





What stories do these charts tell us?

- Are these leading or lagging indicators?
- Is the information / status self-evident?
- Is there any visual "noise" (i.e. clutter)?
- Are processes "at standard" (i.e. stable)?
- Is current performance meeting the goal?
- If not, what response is needed?
 - Tactical action(s)?
 - Systemic Problem-Solving?
 - Continuous Improvement?
- Where should this chart be managed?







Benefits of Metrics / Visual Management

- Standardization and process stability
- Improved customer service levels (internal / external)
 - Safety, Quality, Delivery
- Reduced waste
 - Cost / Productivity, Inventory
- Behavioral and cultural change
 - Increased communication and engagement
 - Organizational integration, across the entire Enterprise

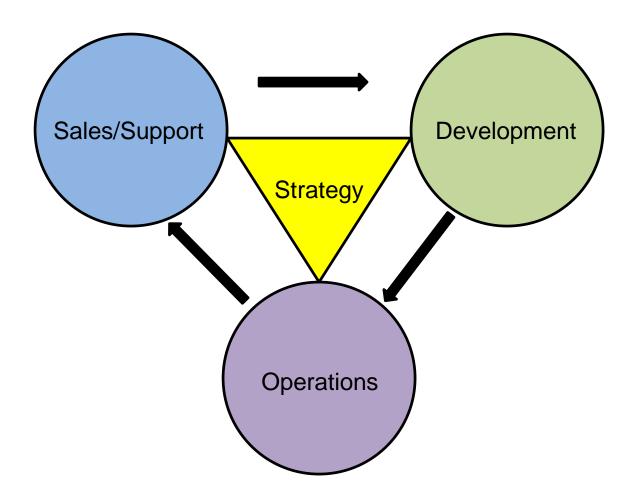
Backup



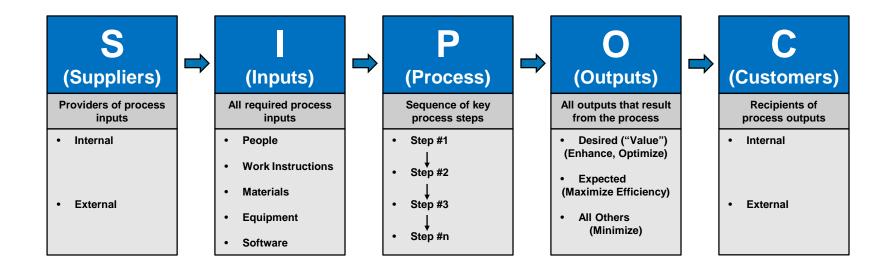




Enterprise Excellence Model



SIPOC Model









Lean Operating Systems



A Lean System applies best practices by leveraging Lean tools and engaged stakeholders...delivering sustainable performance, cultural alignment, and continuous improvement.

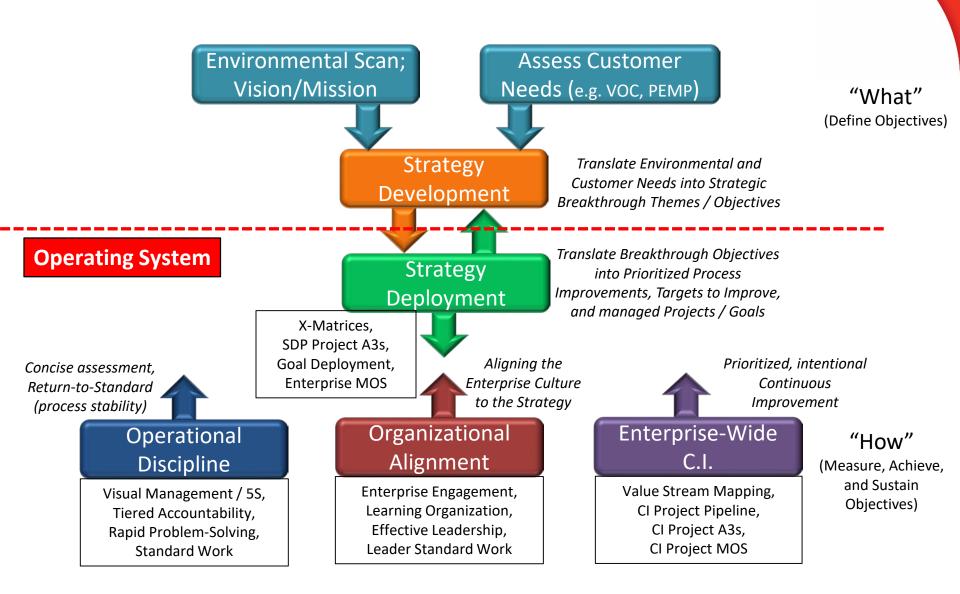
- User Experience clarifies key customer needs that define the Enterprise objectives
- Strategy Deployment creates consensus /oversight for integrated Enterprise priorities ("True North")
- Visual Management, Daily / Weekly Management, and Problem-Solving ensure key process stability
- Leader Standard Work expands coaching where the "real work" takes place (standard work validation)
- Engaged Employees drive Continuous Improvement Safety, Security, Quality, Delivery, Productivity







Strategies are Realized with a Lean Operating System



Visual Management, related to 5S

5s (Sort-Store-Shine-Standardize-Sustain)

Establish clear visual standards that enable recognizing standard vs. non-standard conditions (normal vs abnormal). Includes administrative environments

- Implementation of a 5s culture and MOS
 - Sort, Store, Shine, Standardize, & Sustain
 - Ensures the workplace is safely and neatly organized
 - A place for everything and everything in it's place
 - 100% of the workplace
 - Daily Return-to-Standard (RTS)
 - Continuous Improvement







Before After

Visual Management, related to Daily/Weekly Management

Tiered Accountability

- Introduction / maturation of a Daily/Weekly Management System
 - Integrated stand-up meetings...open communications to assess the "health" of each level and function of the Enterprise
 - Promotes / develops Engagement ("informed", "involved", and "committed")
 - Spotlights the work groups' actual vs. planned performance...key metrics and work priorities (tactical)
 - "Up"/"Down" flow...Work Teams Departments Divisions Sites
 - Identifies barriers to success, captures actions, drives accountability, and escalates (when needed)
 - Provides transparency to external and internal customers

