Visual Management and Accountability

Growth Strategy:
Operational Excellence



What's In It For You?

...from the Group

- Gain Information
- Meet New People
- Get Free Yummies



OMEP Overview

- Not-for-profit agency established on 1996
- Mission is to create a stronger Oregon economy by helping small to mid-sized Oregon manufacturers become globally competitive.
- Private-Public partnership funded by federal, state, and client company funds.
- 15 total staff. 10 consulting professionals.



Delivered Results

OMEP projects are designed to deliver quantifiable results. Six to twelve months after a project is completed, an independent third party commissioned by the National Institute of Standards and Technologies (NIST) surveys clients to measure the project impacts.

For the period July 1, 2009 to June 30, 2011

Companies Surveyed	108
Jobs Created or Retained	1,720
Increased or Retained Sales	\$129,763,641
Cost Savings	\$17,239,702



OMEP Client Companies



Oregon Manufacturing Extension Partnership

Partial list of OMEP projects

PROJECTS by county

CLACKAMAS

LINN

LANE

DOUGLAS

JOSEPHINE JACKSON

CLATSOP

TILLAMOOK

LINCOLN

WASHINGTON

YAMHILL

POLK

BENTON.

1 Nov 2010

Bridgetown Bakery

CNH Parts & Serivce

FullBore Innovations

Harry's Fresh Foods

Madden Fabrication

Hydra-Power Systems

Imperial Manufacturing

Moonstruck Chocolates

Columbia Steel Casting

Bushwacker

Crary Shoes

Daimler Trucks

Georgia Pacific

Gunderson

Indepak

McTavish

Moventas

PGE

Nature Bake

Scenic Fruit

Service Steel

Sign Wizards

Speedy Moto

Sulzer Pump

Teeny Foods

Triad Speakers

Tube Specialties

Work Systems Inc.

Sunshine Dairy

Streimer

Shed Rain

QPM Aerospace

Shin Shin Foods

Stack Metallurgical

Legacy Health

CCI Industries

BAKER

Behlen Manufacturing Blue Mountain Cutters Edge St. Elizabeth Health Tasty Bake

CLACKAMAS Bob's Red Mill

CCI Enterprises CRB Manufacturing J Frank Schmidt & Sons Lightspeed Aviation Miles Fiberglass Oregon Iron Works

Pioneer Pump Puddin River Chocolates SAM Medical Skutt Web Steel

WW Metal Fab ZXERES

CLATSOP

J & H Boat Works

COLUMBIA

Composites Universal USIA

COOS

Hardin Optical

CROOK

Consolidated Pine Woodgrain Millwork

CURRY

Freeman Marine

DESCHUTES

Advanced Machining American Licorice Classic Wood Accents Deschutes Breweru

Kialoa Paddles Michi Partners Nashelle Jewelru Northland Furniture PV Powered Structus Suterra Vocal Booth

DOUGLAS

Alcan Cable FCC Commercial Furniture

GRANT

Malheur Lumber

HOOD RIVER

Diamond Fruit Homeshield R&R System Tech The Fruit Company

Brammo Motor Sports

JACKSON **BOC Edwards**

Cascade Wood Products Collins Manufacturing Diode Laser Concepts Highway Products 1CW Lamination Technology Marble Creations Micro Trains Rogue Creamery

JEFFERSON

Sweed Machinery

Varney Manufacturing

Earth 20

Sabroso

JOSEPHINE

Bentwood **Encore Ceramics Energy Outfitters** Fire Mountain Lee's Quality Doors Marzi Inc. Pacific Botanicals Recognition Specialties

KLAMATH

CHRRY

Collins Products MCX Inc REACH Smith Bates

LANE

Bike Friday Farwest Steel International Door

Marathon Coach McFarland Cascade Mid Valley Glass Newood Display Oak Patch Gifts Willamette Valleu

Company LINN

Chalet RV Entek Manufacturing Flakeboard Oberto Pacific Cast

MALHEUR

Holy Rosary Medical Center

Braka Industries

MARION

Cabinet Door Services Chemeketa CC Columbia Helicopters Givaudan/Quest **GK Machine** Kerr Concentrates Sabroso Sequential BioFuels Silverton Hospital The Trading Company

Truitt Brothers Illven Universal Forest Products

UMATILLA

GRANT

HARNEY

UNION

BAKER

MALHEUR

MORROW

GILLIAM

CROOK

LAKE

WHEELER

WASCO

JEFFERSON

DESCHUTES

KLAMATH

WALLOWA

MORROW Boardman Foods

MULTNOMAH

American Red Cross AmFor Electronics Ajinomoto Frozen Foods Apex Industries Applied Plastics Badge Print **Beall Corporation** Best Manufacturers

UMATILLA

Pendleton Grain Growers Pioneer Asphalt

WASCO

Oregon Cherry Growers

WASHINGTON

ATAC Acumed Allied Systems B & L Wood Products Crimson Trace Englander Fujimi Generic Part Services Jewell Attachments Kerry Sweet Kinetics LightSpeed Lumber Products Northwest Signal Poly-cast 0 & D Manufacturing Resers Fine Foods Sure Power Industries TriQuint Semiconductor Vanguard EMS Warne Scope Mounts Woodfold-Marco Welch Allun Monitoring

YAMHILL

A.R.E Manufacturing Amerson Bettu Lou's Cascade Steel Climax Portable Machine Tools FMC FoodTech Mission Foods NW UAV Pacific Wood

Forest River Marquis Spa TILLAMOOK

POLK

Halco McRae and Sons

Strategies that Will Grow Your Company

You need to look at all the elements of your strategy at the same time while attempting to synchronize your activity.





Visual Management and Accountability





No Flow, Flow, Balance, Take Away





Operational Excellence

Exceptional business results and value creation for customers achieved through a desire to:

- Continually improve
- Engage the minds of all our people
- Effectively deploy company strategy
- Stay ahead of our customers' expectations

Operational excellence requires focus on both behaviors and results.

From Shigeo Shingo Prize Model for Operational Excellence



Operational Excellence: Session Notes

- Increased, Improved Capacity
- Improved Quality
- Reduced Friction, Eliminating Roadblocks
- Ability to Deal with the Unknown
- Creativity



Ideas and Concepts





Leadership Concepts

Leaders

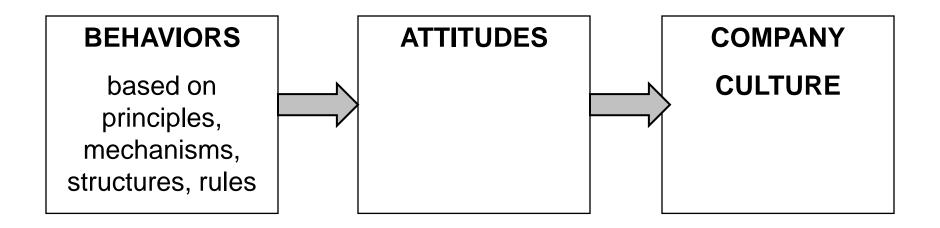
Define, align, and communicate <u>principles</u> and their corresponding values and behaviors that drive systems

Managers

Define, manage, and improve <u>systems</u> and <u>measures</u> that drive culture



Continuous Improvement Culture



"The mechanisms for continuous improvement create the culture of continuous improvement and not the other way around."

Mike Rother, "Good System, Good Thinking"



<u>Paradigm</u>

- A Structure
- A Set of Rules
- Guidelines



Paradigm "Points"

- Paradigm Effect....
 - "See the world anew" or "View with blinders"
- Paradigm Shift.....
 - "Everyone goes back to zero"
- Paradigm Paralysis.....
 - "Deadly Disease of Certainty"
- Paradigm Question.....
 - "What is impossible to do today; but if it could be done, would fundamentally change the way you do things?"



Every Person, Every Day

"Every person in the organization needs to be actively applying the tools of continuous improvement within the scope of their daily work - every person, every day."

From Shigeo Shingo Prize Model for Operational Excellence



Lean Management System

- Standard Work What should be happening?
- Pace Are We Ahead or Behind?

Anchored with Visual Management

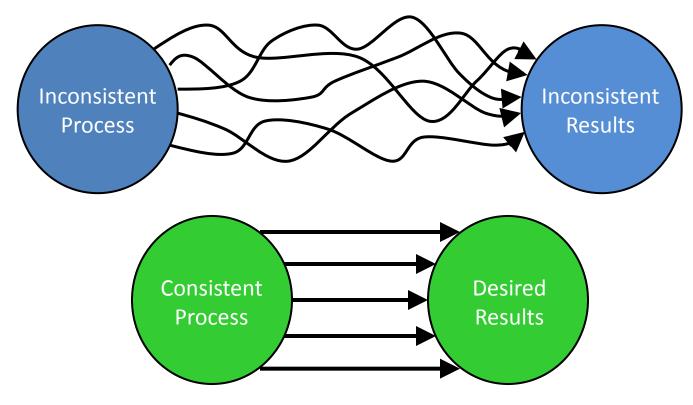








High level definition of tasks required to complete a process





Mill Admin Standard Work

Completed	Daily Tasks (multiple times)
	Enterimaintain orders in DMSI
	Order completion (applying meterial and labor)
	Invoking
	Receive finished product for corporate programs

Completed	Weekly Tasks
	Update corporate PO's
	Run weakly AIP recon report and resolve variances
	Enterirective off-site PO's

Interuptions/Barriers to Flow

	MON	TUES	WED	THURS	FRI
Purchasing					
AutoFlow support					
Expedite gales orders					
Expedite completions					
Corporate Issue					
Office equipment issue					

Date _____

Notes

D onspire to	Daily Tasks (once)
	Resolve AIP recon Filenet discrepancies
	Resolve shipping and receiving discrepancies
	Process time sheets/e-time
	Update vacation calendar(s)
	Process material adjustments for corporate programs
	Process credit returns
	Flun branch transfer involce registers

Completed	Monthly Tasks
	Update truck maintenance receps

Other/Projects
Insight training

Tasks

Priorities



	Monday	Tuesday	Wednesday	Thursday	Friday
7:00 AM		Gemba Wa	lk, Update Produ	uction Board	•
8:00 AM	Monday	Cycle-Counting Review			
9:00 AM	Meeting				
10.00 434					Problems-to-
10:00 AM					Solve Meeting
11:00 AM				Waterspider	
11:00 AM				Review	
12:00 PM		Check	Emails & Place	Orders	
1:00 PM		√	Gemba Walk		
2:00 PM		,			Weekly Report for Shipping
3:00 PM					
3:30 PM	<u>/</u>	Update Targe	et Boards & Send	d Daily Report	
4:00 PM		Continuous Impro	vement, OMEP	HW, Check Ema	ails



В	EAVERTON CUSTOMER CARE STANDARD WORK
	Answer phone with: • Standard open • Standard Close
	Enter orders and quotes: Customer product orders Acuity systems Government
1	Customer e-mail and phone follow-up: Expedite orders Order status Pricing, availability
	Scan customer Purchase Orders
	Update "aux time" control chart
5S "Shine"	Maintain 5S at workstation: • End of day: • All equipment returned to equipment area • All manuals returned to proper places • Overhead shelves closed



Visual Workplace

System Principle #1--Visual Management

Anyone Can Walk in and See:

- The Current Situation (Self-Explaining)
- The Work Process (Self-Ordering)
- If You are Ahead or Behind (Self-Regulating)
- If There is an Abnormality (Self-Correcting)

You have to SEE the problem before you can fix it

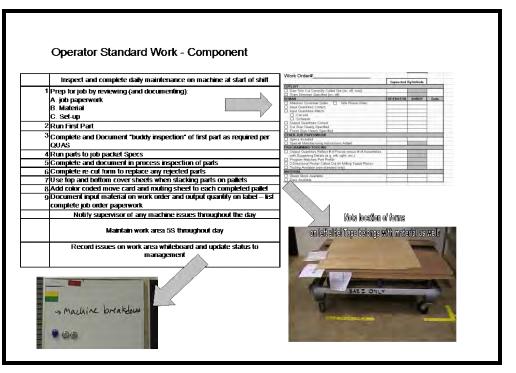


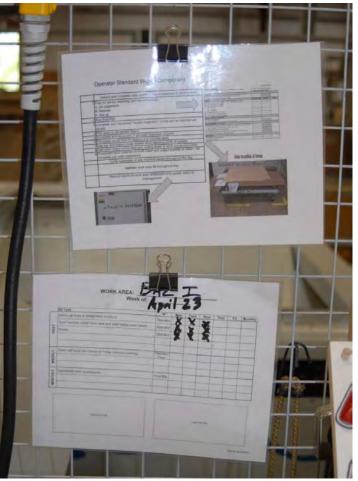
Why Visual Management?

Traditional Management	Visual Management
Limited communication	Better communication at all levels
 Limited understanding of individual contribution to business 	 Everyone understands business needs and their contribution Teamwork
People working in isolationProblems stay hidden	Makes problems visibleVisible continuous improvement
Continuous improvement invisible	culture



Visual Standard Work

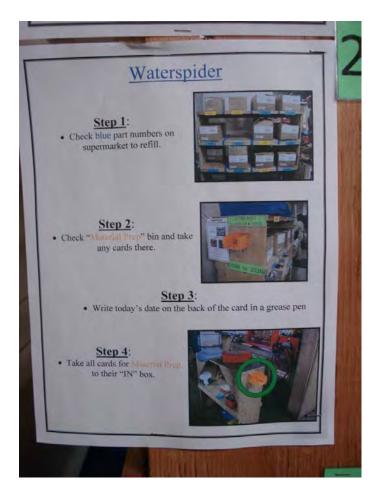






Visual Standard Work







What is a Visual Control?

Anything that enables us to immediately "SEE" problems...
"What should be happening? What is?"

Safety performance
On-time performance
Absenteeism
Cross training
Quality performance
Standardized work
Hourly by hour work progress

Improvement ideas
Issue resolution
Line stops Quantity limits
Locations
Accountability for Leader
Standard Work

Almost Anything!



Visual Control

Call Availability Status

GREEN - Available (in the queue)



RED – Unavailable (in AUX or away from desk)

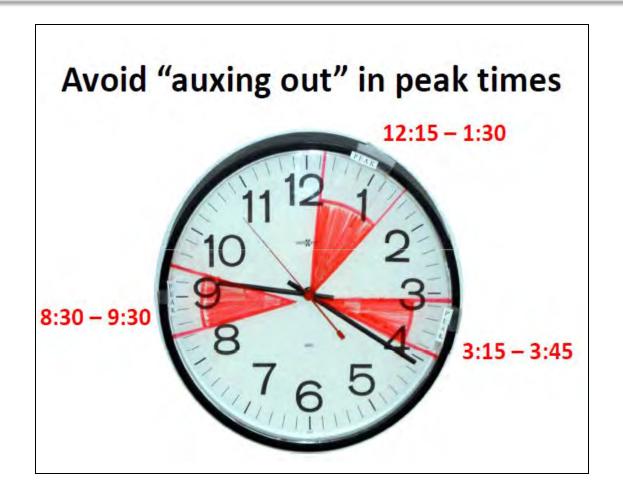


Switch your indicator from GREEN to RED if you will be away from your desk or in AUX for more than 5 minutes.

(Be sure to change your status to RED when you go home for the day!)



Visual Control





Timing and Pace

Parts Per Hour:



Complete by Deadline:





Schedule





Schedule

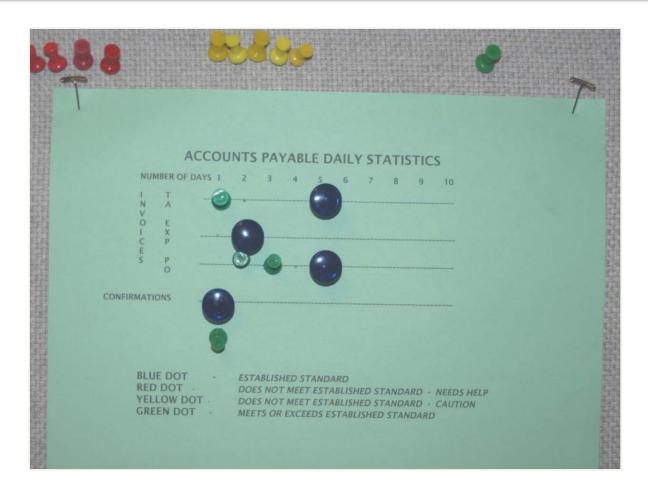
MONDAY		WEDNESDAY	THURSDAY	FRIDAY
-Voice mail	Voice mail	Voice mail	Voice mail	Voice mail
F mail	-B-renti	E-mail	E-mail	E-mail
Calendars	Calendars	√ Calendars	√ Calendars	√ Calendars
Letton paperiormit	Letters paper/email	Letters paper/email	Letters paper/email	Letters paper/email
Assign Part timer	Assign-Part timer	Assign-Part timer	Assign-Part timer	Assign-Part timer
Time of forms	Time off forms	Time off forms	Time off forms	Time off forms
Schedule Mrgs	Schedule Migs	Schedule Mtgs	Schedule Mtgs	Schedule Migs
Verification	Vanification	Verification	Verification	Verification
PTK Student Qs	PTK Student Qs	PTK Student Qs	PTK Student Qs	PTK Student Qs BREAK
BRUTER	BREAK	BREAK 11:00 mail	BREAK 11:00 mail	11:00 mail
11-00 mail	11:00 mail		Subpoenas/Record Req	Subpoenas/Record Req
Subpoenas Record Req	Subpoenas/Record Req	Subpoenas/Record Req	LUNCH	LUNCH
Tring	Filling	Filing	Fililing	Filling
Check requests	Check requests	Check requests	Check requests	Check requests
	Tenant partners	Tenant partners	Tenant partners	Tenant partners
Tenant partners	Enrollment Verf forms	Enrollment Verf forms	Enrollment Verf forms	Enrollment Verf forms
Enrollment Vert forms	BREAK	BREAK	BREAK	BREAK
Type up Minutes	Type up Minutes	Type up Minutes	Type up Minutes	Type up Minutes
Order forms	Order forms	Order forms	Order forms	Order forms
Order supplies	Order supplies	Order supplies	Order supplies	Order supplies
	Write up process	Write up process	Write up process	Write up process
Write up process-	Organize Files	Organize Files	Organize Files	Organize Files
Organize Files		Water plants	Water plants	Water plants
Water plants	Water plants		2:30 Submit Forms	
2:30 Submit Forms	2:30 Submit Forms	2:30 Submit Forms	THE RESERVE TO SERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TO SERVE THE PERSON NAMED IN COLUMN TO	
Clean Office & Desk	Clean Office & Desk	Clean Office & Desk	4:00 Mtg Fran-Minn	
4.30 Cleanup	4:30 Cleanup	4:30 Cleanup	4:30 Cleanup	4:30 Cleanup



Schedule/Pace

























Pace





Accountability

System Principle #2 -- Accountability

Daily Meetings

10 minute, Stand Up

Purpose

Find and solve problems:

- (1) In daily workflow
- (2) In processes





Daily Accountability

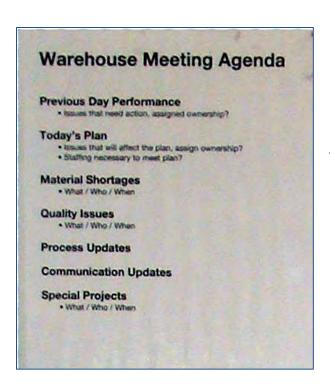
Agenda:

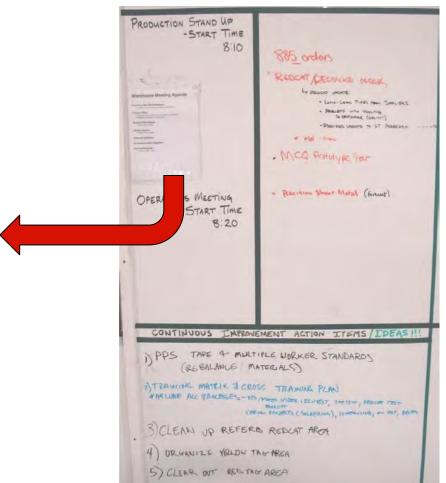
- Assessment "Plan versus Actual" based on visual controls
- Assignment For corrective action or improvement
- Accountability For having completed the previous day's assignments

The primary benefit is to reinforce the lean management system's focus on process and to implement opportunities for improvement.



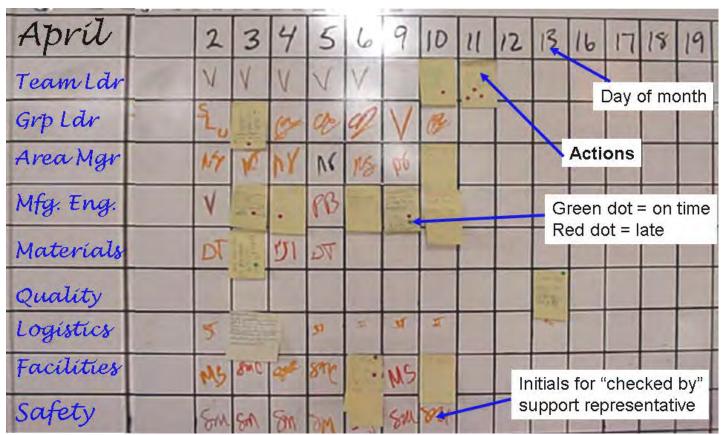
Daily Accountability







Daily Accountability





Improvement Accountability





Gemba Walk

System Principle #3—Real Time

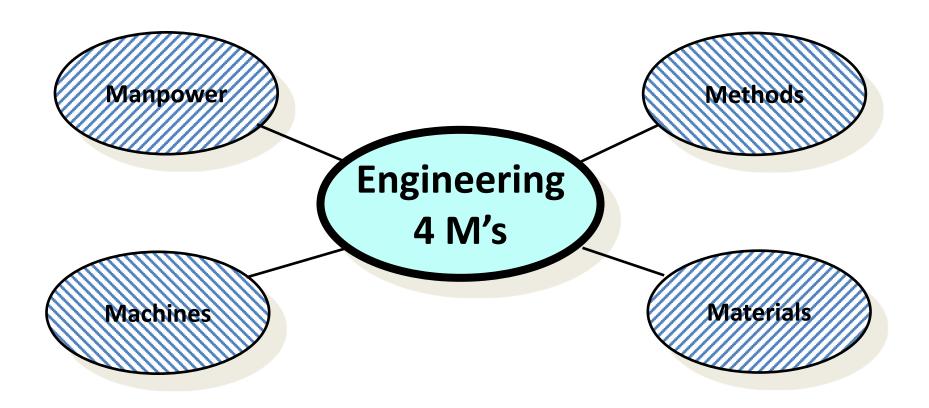
Gemba - "The Real Place"

Gemba Walk -- Specific, predictable effort focused on a review of the visual system and facilitation of problem solving related to flow.





Engineering 4 M's





Engineering 4 M's Breakout

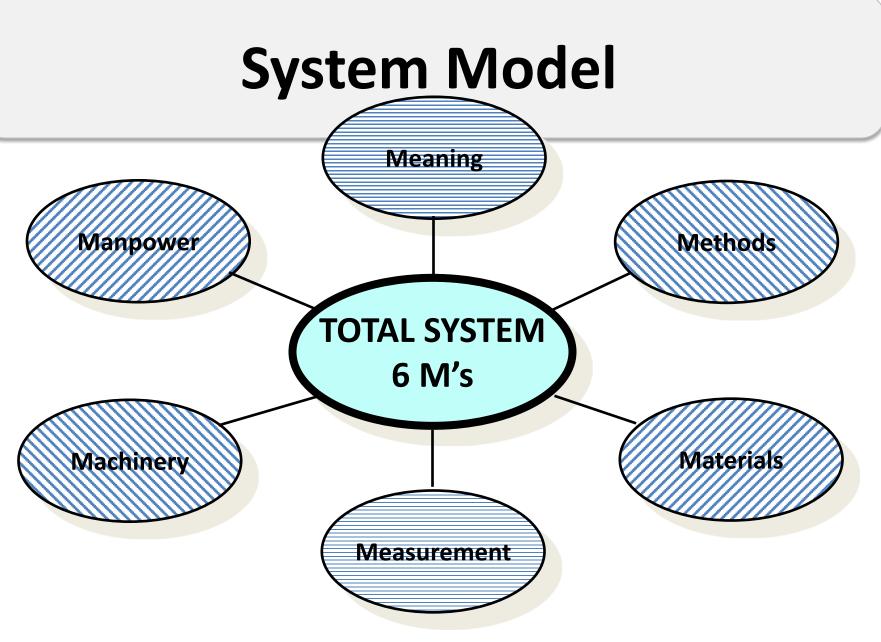
- Manpower
 - People, Teams, Training, Skills, Desire
- Methods
 - Procedures, Protocols, SOP's, Std Work
- Machines
 - Equipment, Facilities, Tools, Energy
- Materials
 - Raws, WIP, Inventory, Product, Resources



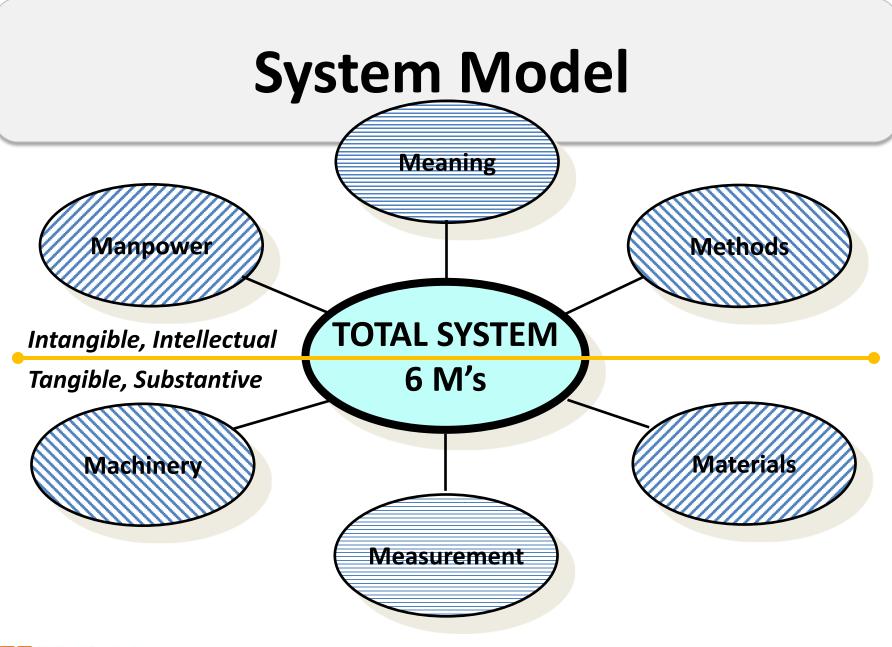
4 M's + 2 M's = System Model Thinking

- Meaning = Culture
 - Your True North
 - Organizational Uniqueness
 - Legally, Morally, Ethically
- Measurement = Performance
 - Financials
 - Metrics
 - KPI's, Dashboard

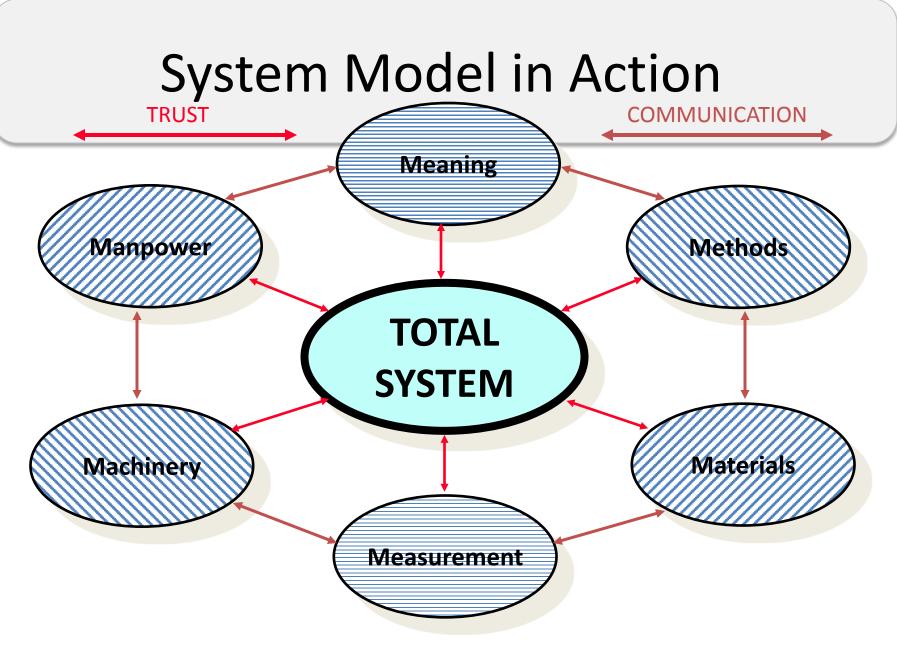














System Model from Your Session





A Purpose...Beyond the Obvious

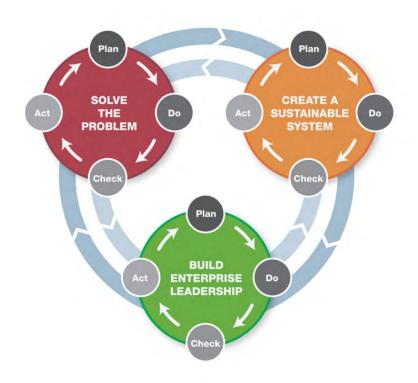
Teaching Moments

- Understanding
- Commitment
- Support
- Fulfillment

- Passion
- Caring
- Enjoyment
- Renewal



Relentless Systematic Approach





A Path Forward

Live with intention.
Walk to the edge.
Listen hard.
Practice wellness.
Play with abandon.
Laugh.
Choose with no regret.
Continue to learn.
Appreciate your friends.
Do what you love.
Live as if this is all there is.

Maryanne Radmacher-Hershey ©1995



Questions/Comments

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Slides will be posted on blog: www.omep.org

