



*TBM LeanSigma[®] Institute
welcomes You to the*

Transforming Government - the challenge and opportunity of the 21st century

January 7, 2008



THE COUNCIL FOR
Excellence
IN GOVERNMENT





Who Is TBM / Guidon?



Change agents for rapidly improving responsiveness and increasing value in the new economy for all stakeholders

Using time-based strategies, we help government agencies establish a competitive advantage, which contributes to the economic growth and an efficient & effective utilization of resources while improving quality of life for all the state's constituents.

Transforming Government for Improved Responsiveness



LeanSigma Manufacturing

- **Achieve unprecedented new efficiencies and performance improvement in quality, cost, delivery and service – on the shop floor and in critical business processes**

LeanStrategy™

- **Convert your operational excellence into sales growth and market share, through world-class strategic breakthroughs, implemented at the speed of Kaizen**

LeanSigma Institute

- **Conducting interactive workshops that give your business teams the necessary tools for increasing Lean awareness and skills, at every level of your organization**



- **LeanSigma®**

Streamline and simplify complex business processes and quickly pull dramatic new efficiencies to the bottom line

- **LeanSigma® Information Technology**

Streamline and simplify software development and implementation; improved processes and platform performance

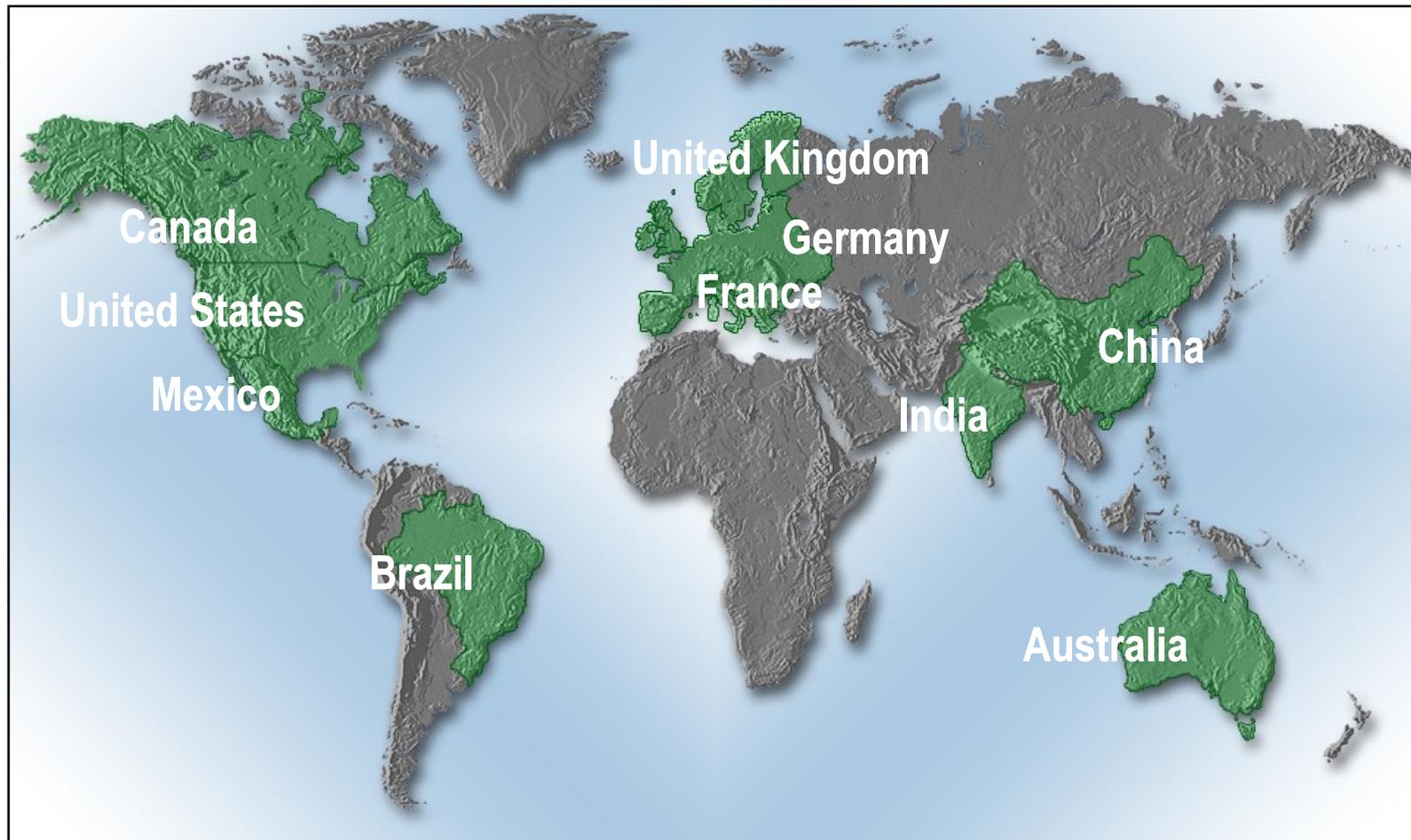
- **GuidonHPC™**

Translate strategies into plans, monitor execution and provide insight to manage and improve financial and operational performance





Global Implementation & Transformation Support





Rapid Business Process Improvement

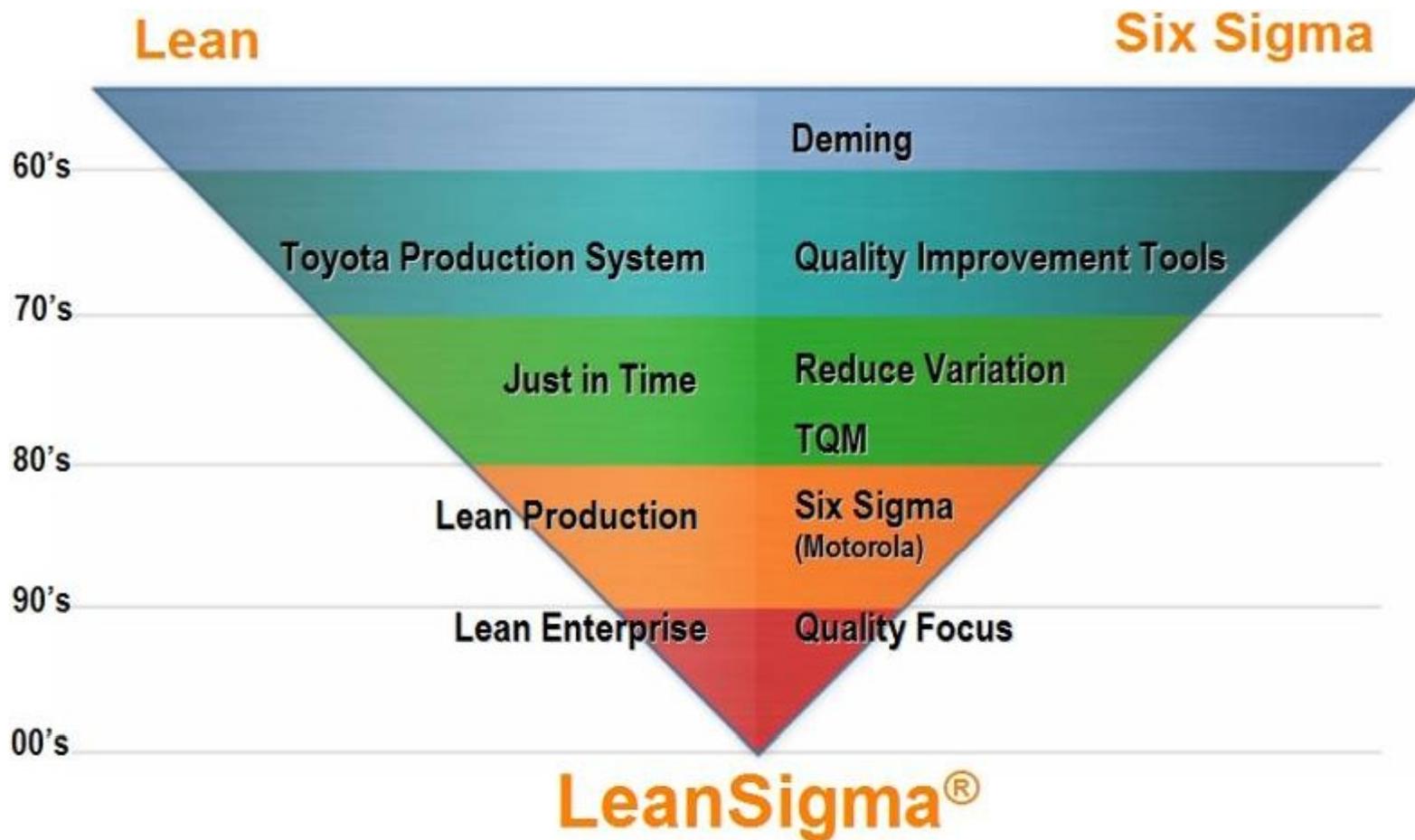
Workshop Objectives

- Recognize your potential to create a more efficient and effective organization
- Introduce the basic tools of business process improvement
- Demonstrate how you and your leadership team can transform your organization to better meet customer needs

**** LeanSigma®: the fusion of Lean and Six Sigma, today's most powerful business improvement tools***



TBM's fusion of today's most powerful improvement programs





Today's Agenda

8:00am – 12:00pm

- Introductions
- The “Corporate Challenge”
- LeanSigma® Overview
- Simulation #1

12:45pm – 5:00pm

- Lunch (12pm)
- Introduction to Lean concepts
- Simulation #2 – run and recap
- What's Next?
- Summary

TBM's Toyota Roots

Toyota Production System



Taiichi Ohno



Shigeo Shingo



Yoshiki Iwata with
Anand

“One thing you can't recycle is wasted time.”

Taiichi Ohno



Introductions

1. TBM

2. You

- Your organization?**
- Your position and your Lean experience?**
- Your expectations from this workshop?**



What is World Class Government?

A organization that is:

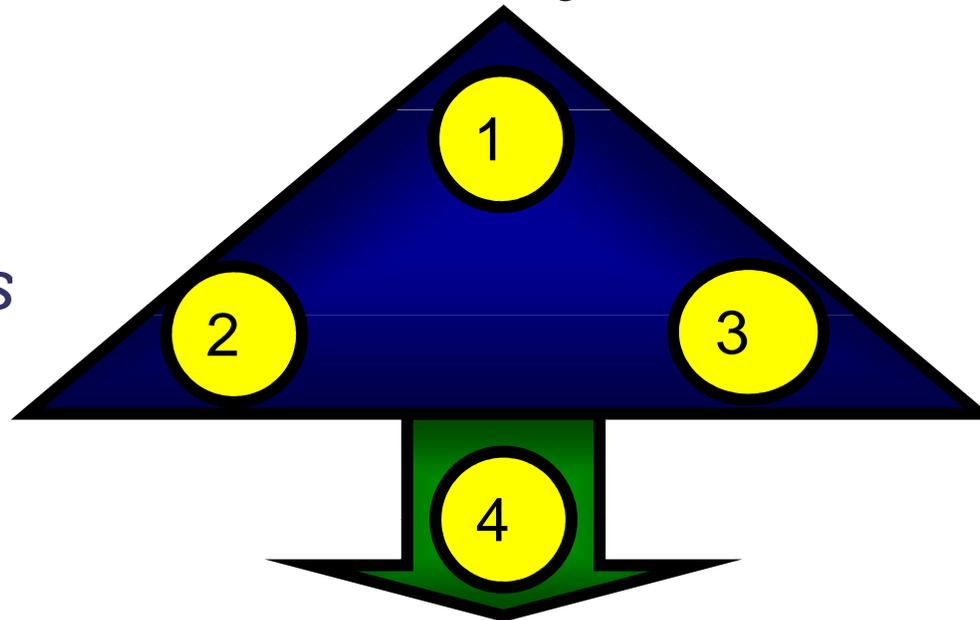
- Lean, agile & connected to the actual constituents demand
- Responsive to the constituents needs for new programs & services
- Improving continuously to enhance all stakeholder values
- Transforming culture to sustain improvements



The New Government Challenge

Constituents

Quality
Responsiveness
Cost advantage



Employees

Job security
Self esteem
Recognition
Rewards

Partners

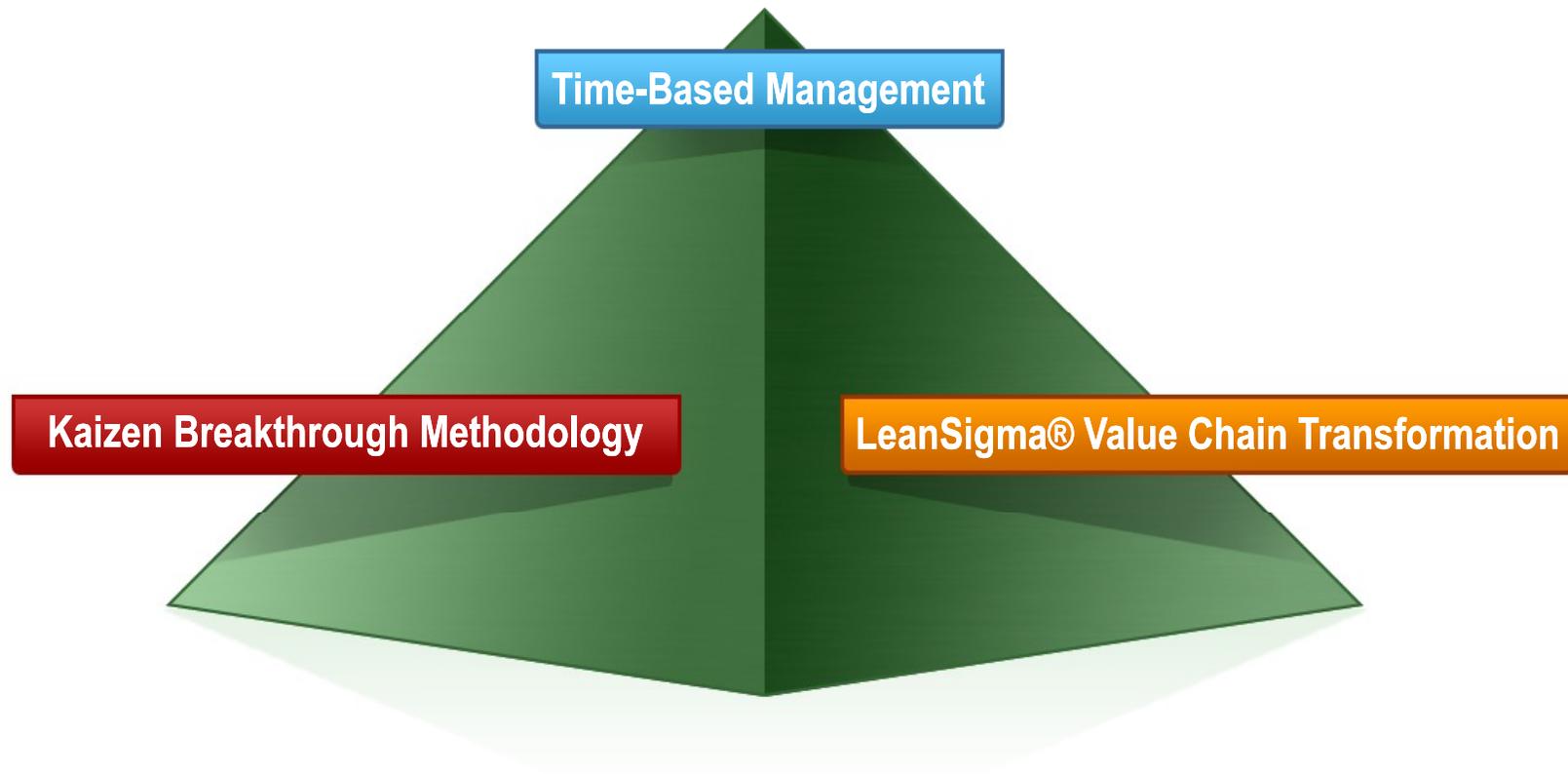
Involvement
Stability

Stakeholders

Financial return • Reliability
Income growth • Survival



Our Consistent Focus



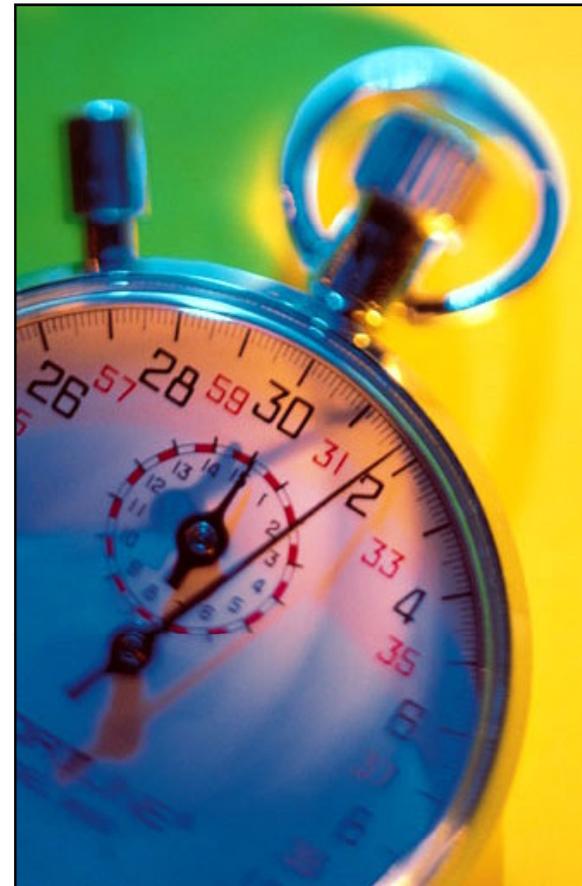


Time: Today's Most Powerful Competitive Advantage

Lean = speed

Lean tools and techniques
are the most effective way to
speed up every part of your
operations

“Today, it’s all about speed.”
Tom Peters

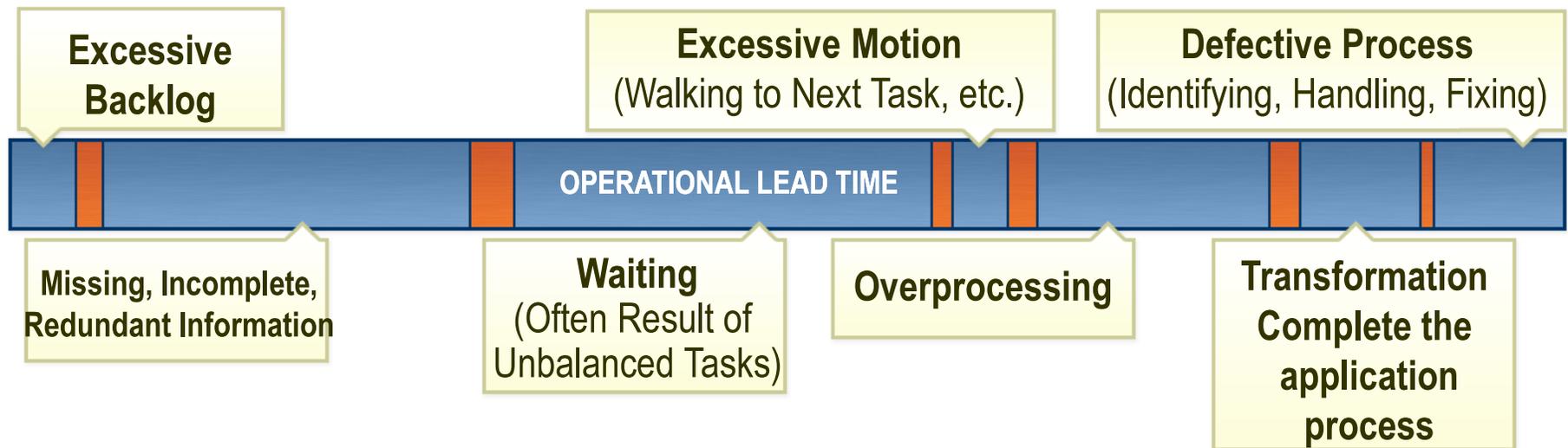




Lead-Time Reduction

The Key is to Reduce Your Processes to Core Value

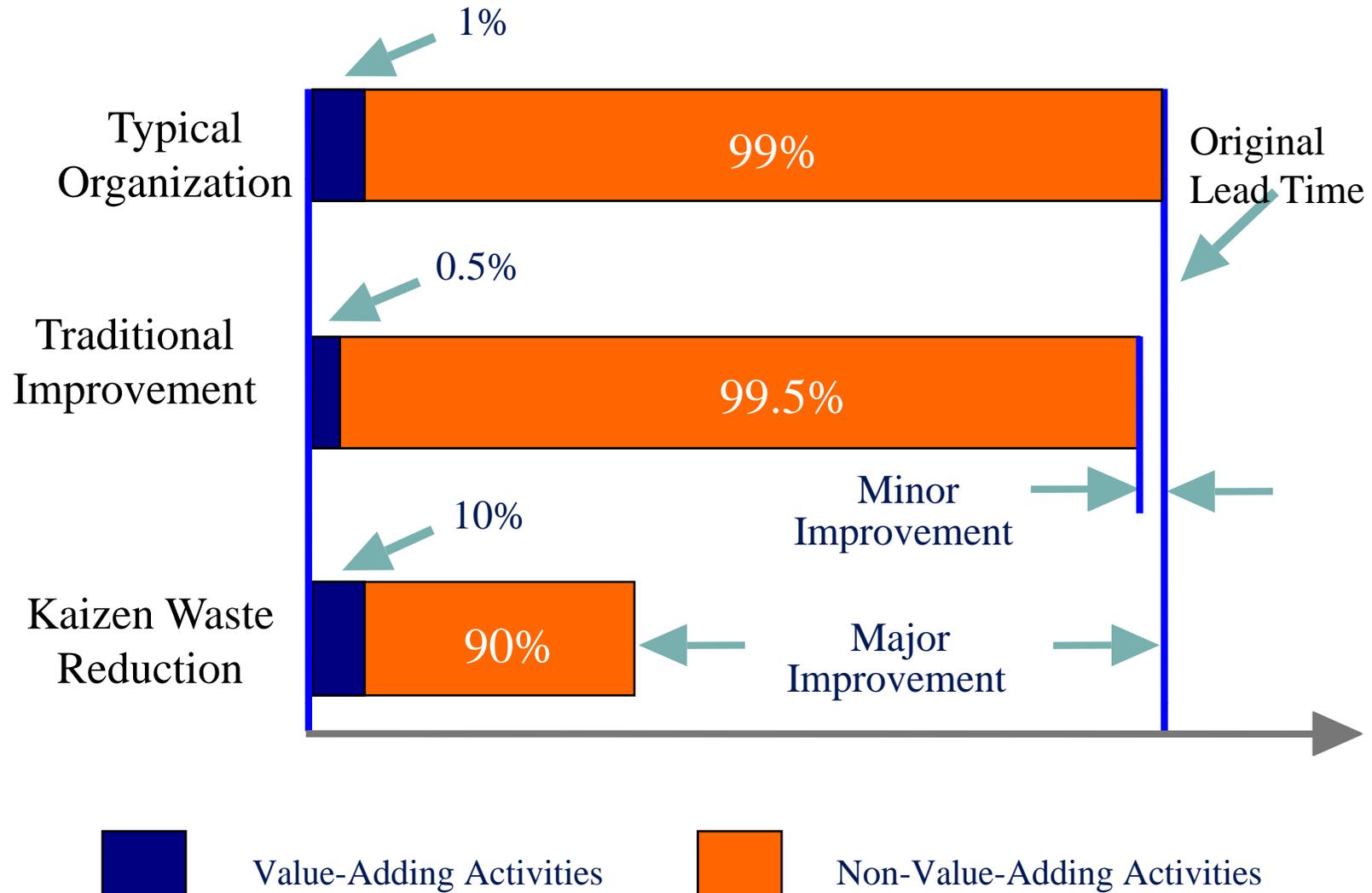
■ Wasted Time and Activity
■ Core Process Value

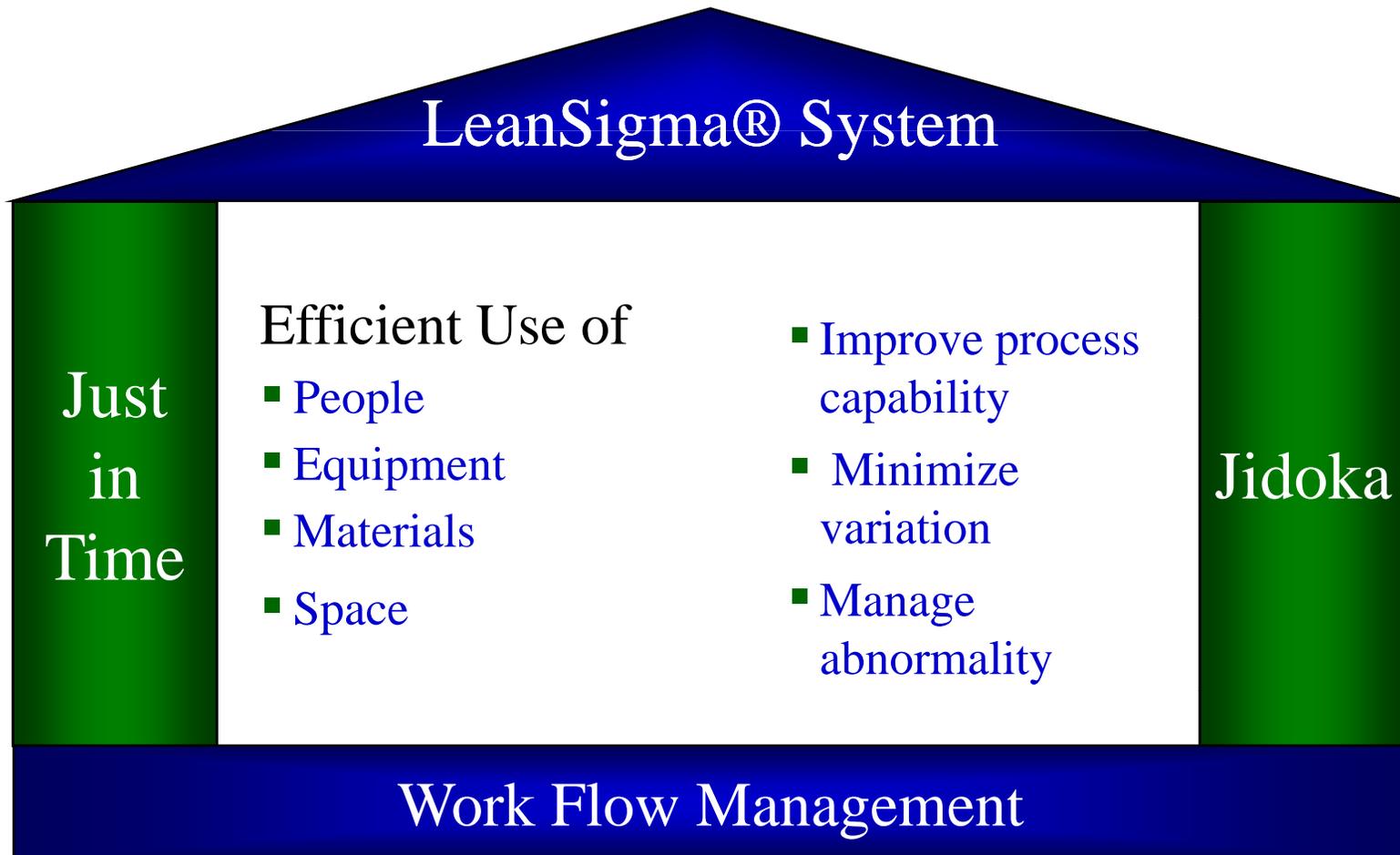


The key is to reduce your processes to “core value”



Introduction to LeanSigma







JIT Principles

- *One-piece flow*
- *Standard WIP*
- *Takt time/cycle times*
- *Pull system*





What is the Kaizen Breakthrough Methodology?

- **A cross-functional team based process for rapid improvement with:**
 - Bias for action
 - Creativity before capital
 - Focus on results

- **Focusing on physical transformation**
 - Learn by doing
 - Overcome resistance
 - Instill change culture

Promote Rapid Change Through Involvement!



Step One – Pre-Kaizen “Preparation”

- **Select project area**
 - Process / program focus
 - Strategic needs
 - Large improvement potential
- **Establish project objectives**
 - Collect base-line data, set quantitative improvement goals
- **Select team members**
 - Enthusiastic Team Leader and Sub Team Leader
 - Team makeup 1/3, 1/3, 1/3
- **Pre-event communication**
 - Full-time, five-day participation
 - Communications session with program team



Kaizen Breakthrough Experience

Team-based energy and creativity drives immediate process improvement

Day 1	Day 2	Day 3	Day 4	Day 5
Conceptual training on: <ul style="list-style-type: none"> - LeanSigma® Transformation - LeanSigma® System - Kaizen Breakthrough Methodology - Standard Operations Cross-functional teams	Determine current state process <ul style="list-style-type: none"> • Team designs new process • Team close gaps between new and old process • One-piece flow implementation 	Continue hands-on workplace improvement <ul style="list-style-type: none"> • Conduct Point Kaizen • Additional process improvements 	Establish standard work results <ul style="list-style-type: none"> • Simulate new process • Create implementation & communication plan • Document new standard operation 	Present results and celebrate

At the end of the week, each Kaizen team has achieved dramatic operational improvements



Step Two - Kaizen Implementation

Key Principles



- Clear objectives
- Team process
- Tight focus on time (one week)
- Quick and simple, action first
- Necessary resources available right away
- Immediate results (new process designed by end of week)



Step Three – Post-Kaizen “Sustainment”

- 30-day home work requires part-time involvement by team leader and selected team members
- Management must provide adequate resources to complete all homework items
- Train area leaders and staff
 - Standard work
 - Visual controls
 - Countermeasures for abnormality and problem resolution
- Post suggestion board in the work area and make sure that they are attended to



Rapid, Sustainable Improvements

Productivity	↑	20 - 30% +
Defects	↓	40 - 50% +
Lead Time	↓	70 - 90% +
Backlog	↓	70 - 90% +
Floor Space	↓	30 - 50% +

Without spending major resources



Simulation Exercise:

Permitting Process





Air Permit Process Implementation

- **Service:**
 - Provide air permits
- **Service composition:**
 - Receipt of application, categorize application, review for accurate and completeness, grant permit
- **Current service load:**
 - Average of 20 Applications per day
- **One day equivalent**
 - 300 seconds or 5 minutes
- **Service operation:**
 - Departmentalized according to function
- **Process/Information transactions:**
 - Mail picked up & delivered twice per day and computer



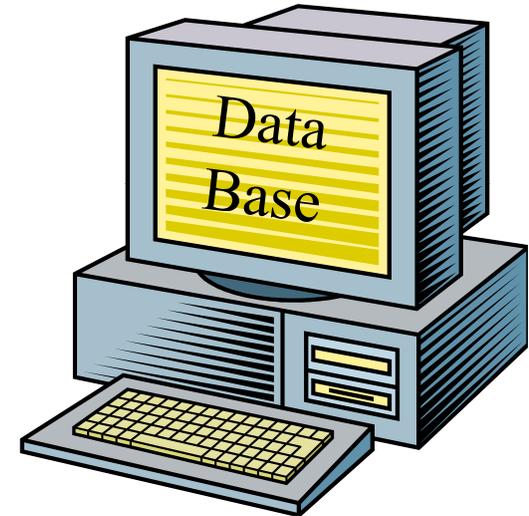
Air Permit Process – Components



Receive Application



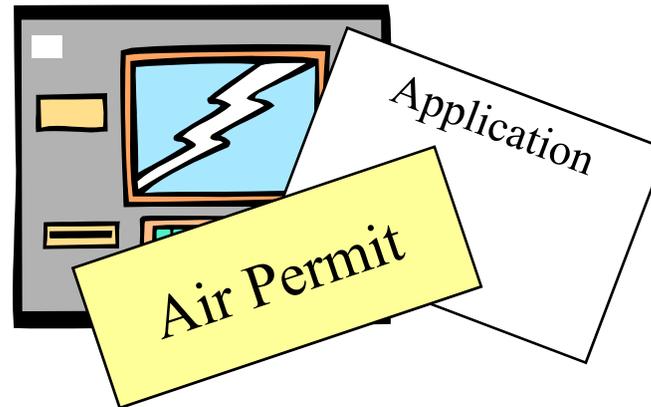
Check if application is complete



Enter applicant Data



Approval Notification



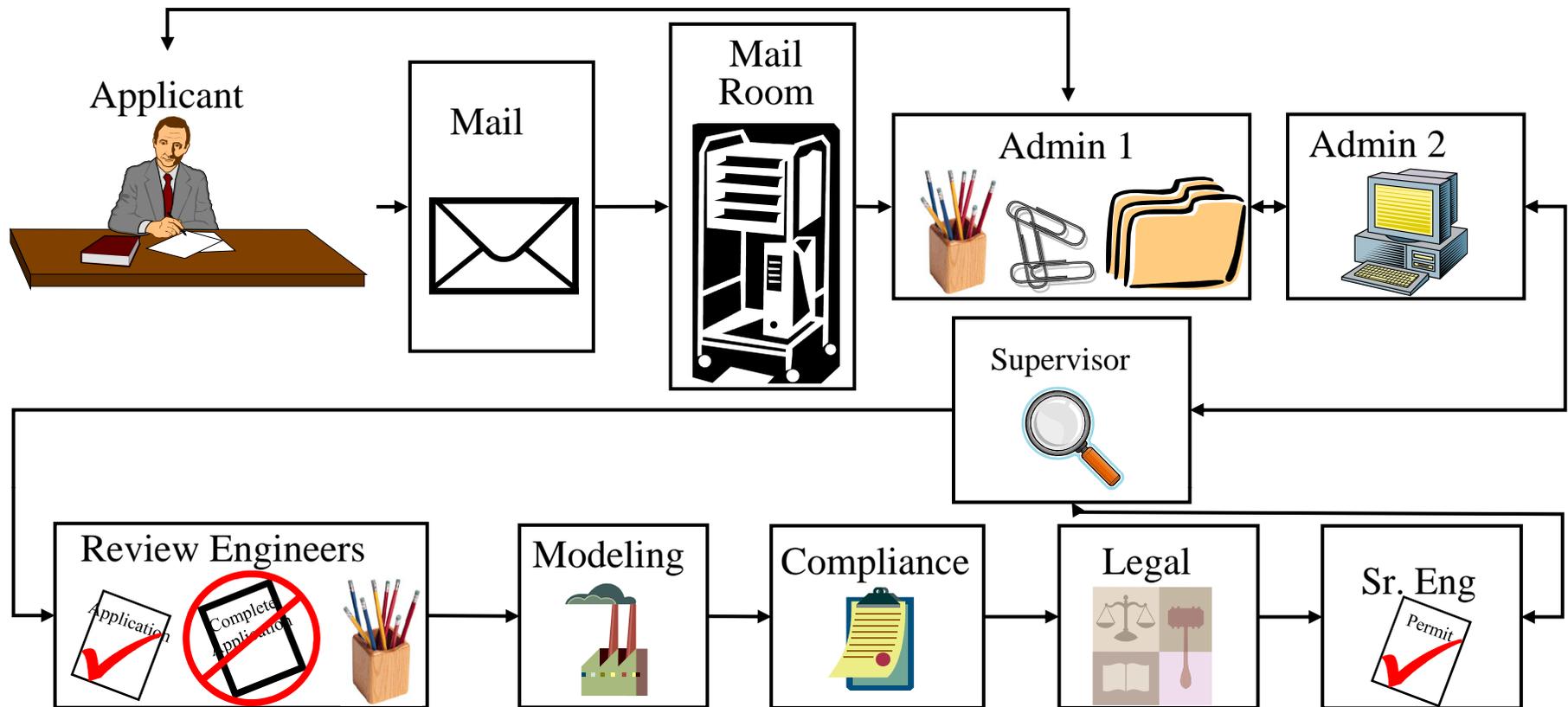
Finalize



Air Permit Process – Layout

Purpose:

To demonstrate the flow of information from the customer through the service line.





Our Goals Today:

- **Complete each process step with the highest quality standard possible**
- **Each department must be as efficient as possible**
- **Everyone must follow their standard work**
- **Everyone must be customer focused to achieve a high level of customer satisfaction**



Air Permit Processing





What Did You See?





Summary of Observations

- *Many non-value added steps*
- *Inefficient transfer of information*
- *No flow or sensitivity to customer needs*
- *Not able to respond effectively to errors / missing information*
- *Long lead time*

"You can observe a lot by just watching" - Yogi Berra



Steps to Implementing LeanSigma

- **Create a business process map to identify areas of opportunity**
- **Identify value adding and non-value adding activities and set new performance targets**
- **Create process flow**
- **Pace work to customer demand**
- **Reduce variation and improve quality**
- **Intense focus on daily performance management and visual control**



Steps to Implementing LeanSigma

- **Create a business process map to identify areas of opportunity**



What is a Business Process Map?

A tool used to:

- **Display the current process and information flow from the customer request through the delivery of the service to the customer**
- **Identify opportunities and establish project priority**
- **Identify and set the vision for the future state Business Process Map.**



Flow Map Shapes



Beginning and end points of the process
Use 3"x3" green post-its.



Any task / activity where work is performed.
Use 3"x5" yellow post-its.



Places where information is checked against established criteria (standards) & decision made on what to do next.
Use 3"x3" blue post-its. Orient post-it as shown.



Any time information is waiting before the next process or decision (i.e. in-baskets, out-baskets, waiting to be batched).
Use 3"x3" pink post-its.



When information / product is placed in inventory (i.e. a file cabinet, directory). It may be used at some point in time.
Use 3"x3" purple post-its.



Flow Map Arrows



Single straight arrow – used between tasks performed by same person or area, but no physical movement has occurred.



Box arrow – indicates physical movement of information / product from one person / function to another.

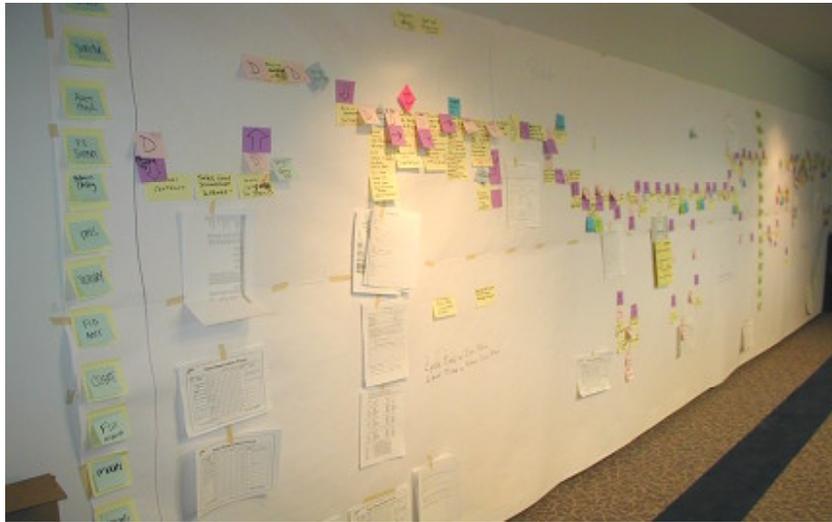


Jagged arrow – indicates electronic movement of information from one person / function to another.

- **Place all arrows on 3"x3" or 3"x5" purple post-its.**
- **Collect and display forms and screen shots used at each task.**
- **Draw an example of how to put in inputs & outputs.**
- **These would be important in understanding information paths and useful in the analysis and resolution of issues.**



Process Flow Map





Steps to Implementing LeanSigma

- Create a business process map to identify areas of opportunity
- **Identify value adding and non-value adding activities and set new performance targets**



Value-Adding Activities

- *Transform materials and information into programs and services the customer wants and it is done right the first time*

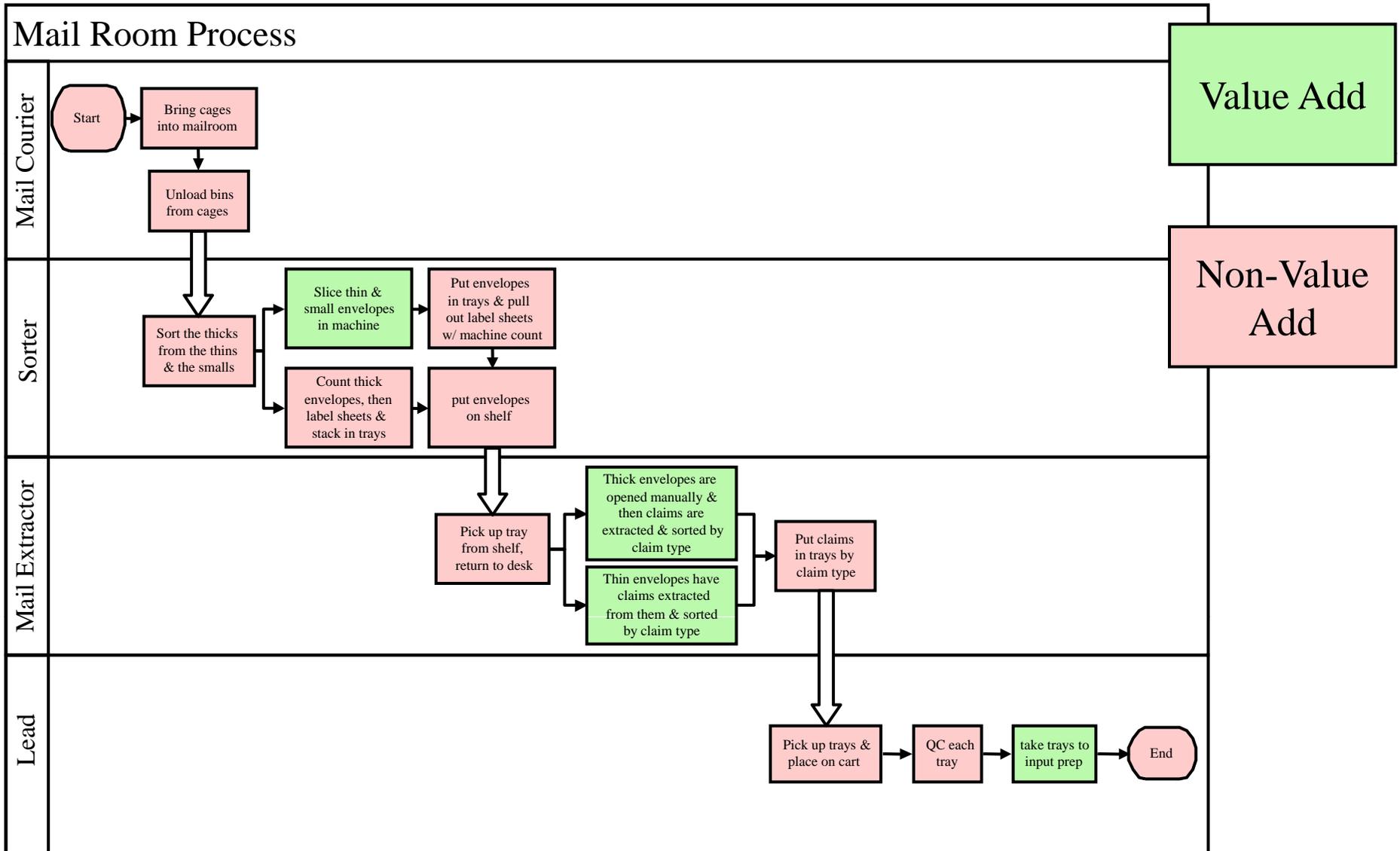
Non-Value-Adding Activities

- *Consume resources, but don't directly contribute to product or service*





Process Flow Map





Lead-Time Reduction

Identify and eliminate waste

- *Defects and loop-backs*
- *Hand-offs*
- *Over-producing*
- *Unnecessary processing*
- *Decisions in process*
- *Excess transportation*
- *Waiting*



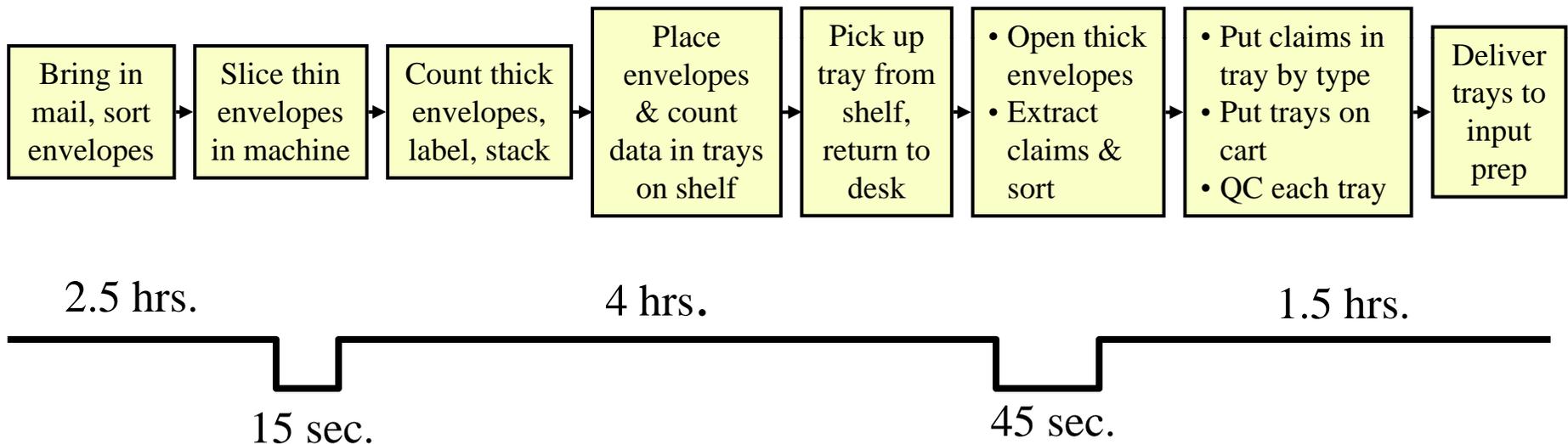


- **Functional Organization**
- **MIS Technology Gaps**
- **Excessive Controls**
- **Dated Process Design**
- **No Back-up/Cross Training**
- **Unbalanced Workload**
- **Computer System Batching**
- **Changing Management Priorities**
- **No Decision Rules**
- **Poor Visual Control**
- **Disorganized Workplace**
- **Lack of Training**
- **Obsolete Forms or Form Design**
- **Poor Layout**



Steps to Implementing LeanSigma

Value Adding by Process



Lead time = 8 hrs.

Value Add time = 1 minute

$$\text{Value Add \%} = \frac{1 \text{ min.}}{8 \text{ hrs.} \times 60 \text{ min.}} = 0.2\%$$



Steps to Implementing LeanSigma

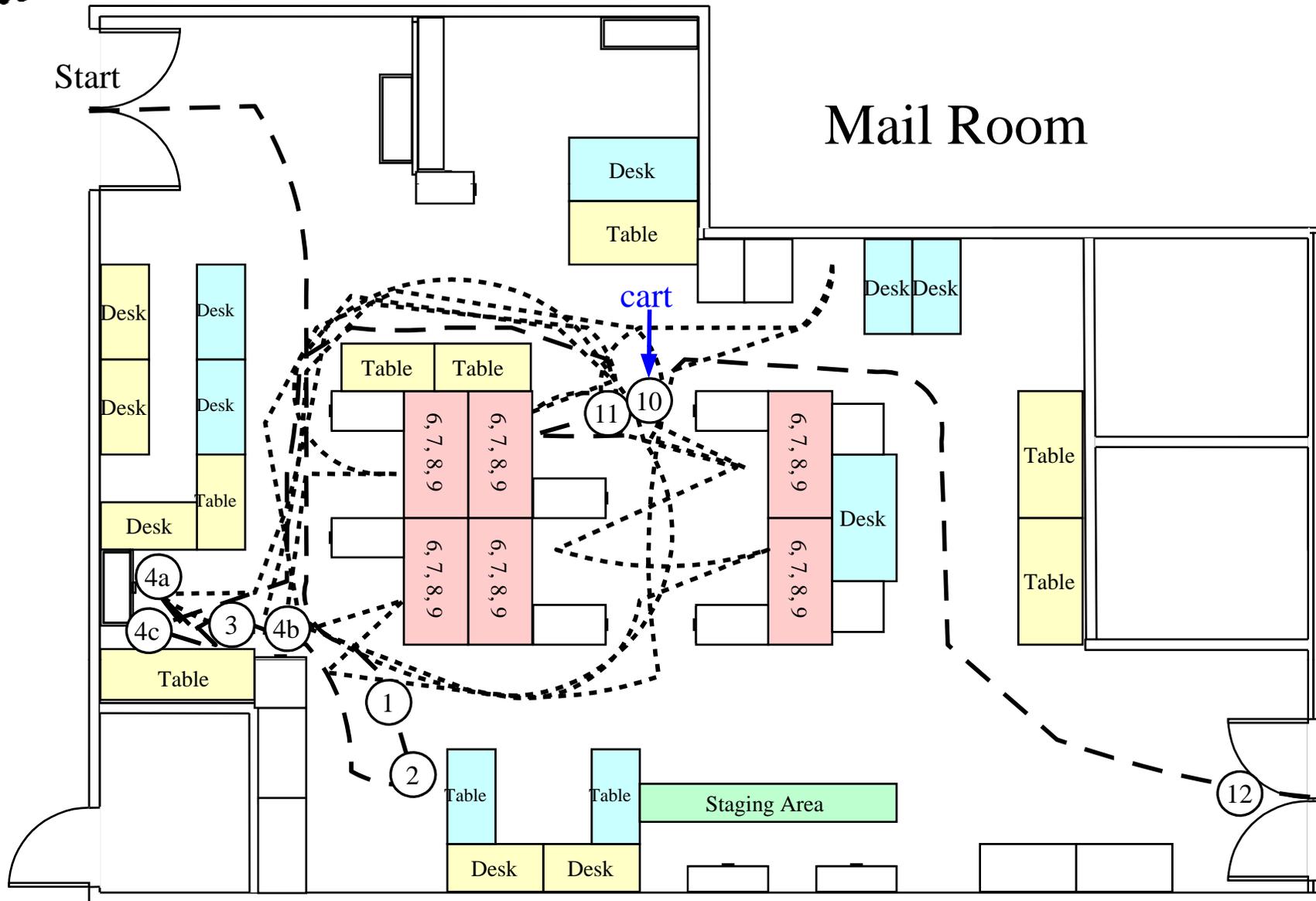
- Create a business process map to identify areas of opportunity
- Identify value adding and non-value adding activities and set new performance targets
- Identify Process Waste
- **Create process flow**



- **Shows information flow**
- **Shows staff flow**
- **Aids in identifying wasteful activities by viewing it from the basis of physical layout**
- **Shows what is actually happening versus what people think happens**
- **Familiarizes everyone with the process**
- **Identifies variations in information handling/storage**

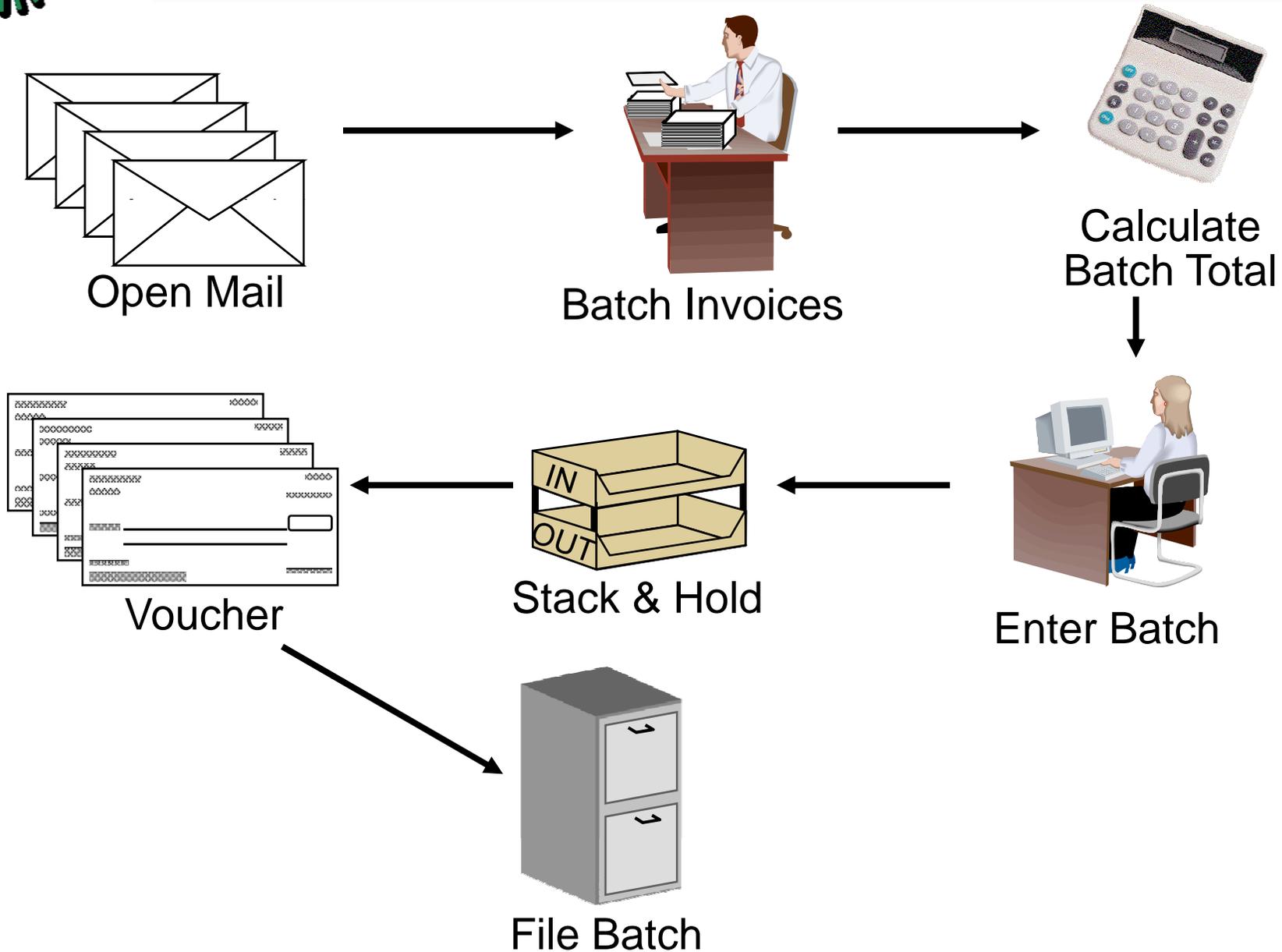


Spaghetti Diagram Example



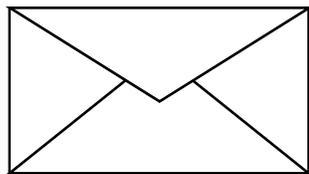


Batch Mode





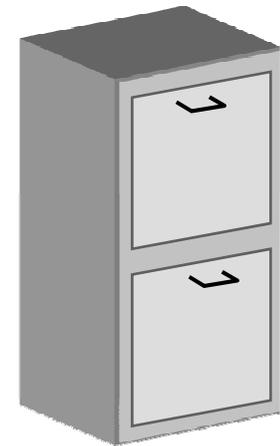
One Piece Flow



Open Mail



Enter



File



Steps to Implementing LeanSigma

- Create a business process map to identify areas of opportunity
- Identify value adding and non-value adding activities and set new performance targets
- Create process flow
- **Pace work to customer demand**



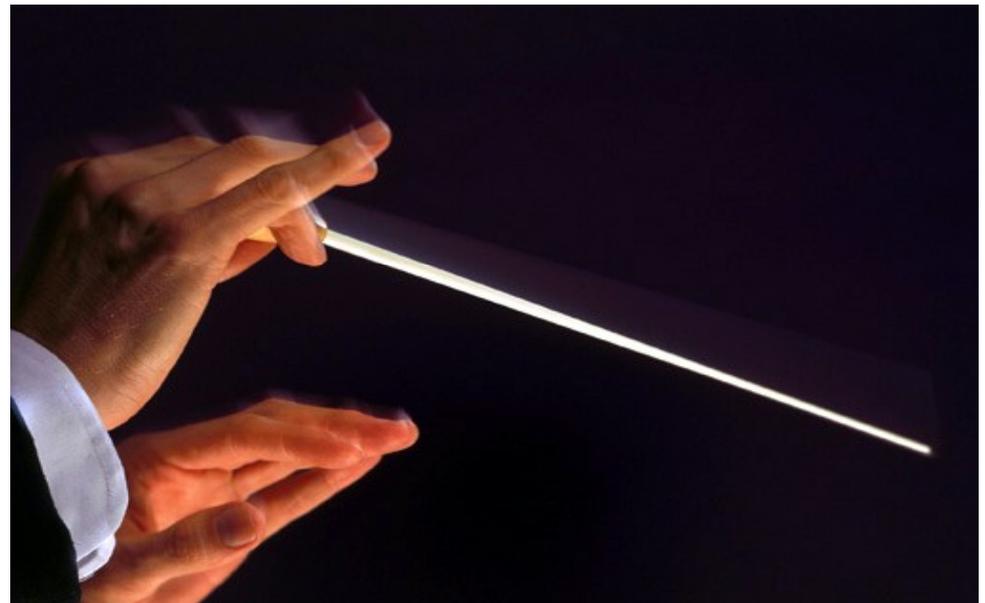
Precisely matches production to customer demand

Daily production rate (in seconds per piece)

Net Operating
Time
per Period*

Divided by

Customer
Requirements
per Period*



* Time periods must be consistent (shift, day, week . . .)



Steps to Implementing LeanSigma

- Create a business process map to identify areas of opportunity
- Identify value adding and non-value adding activities and set new performance targets
- Identify Process Waste
- Create process flow
- Pace work to customer demand
- **Reduce variation and improve quality**



Process Must Be Repetitive

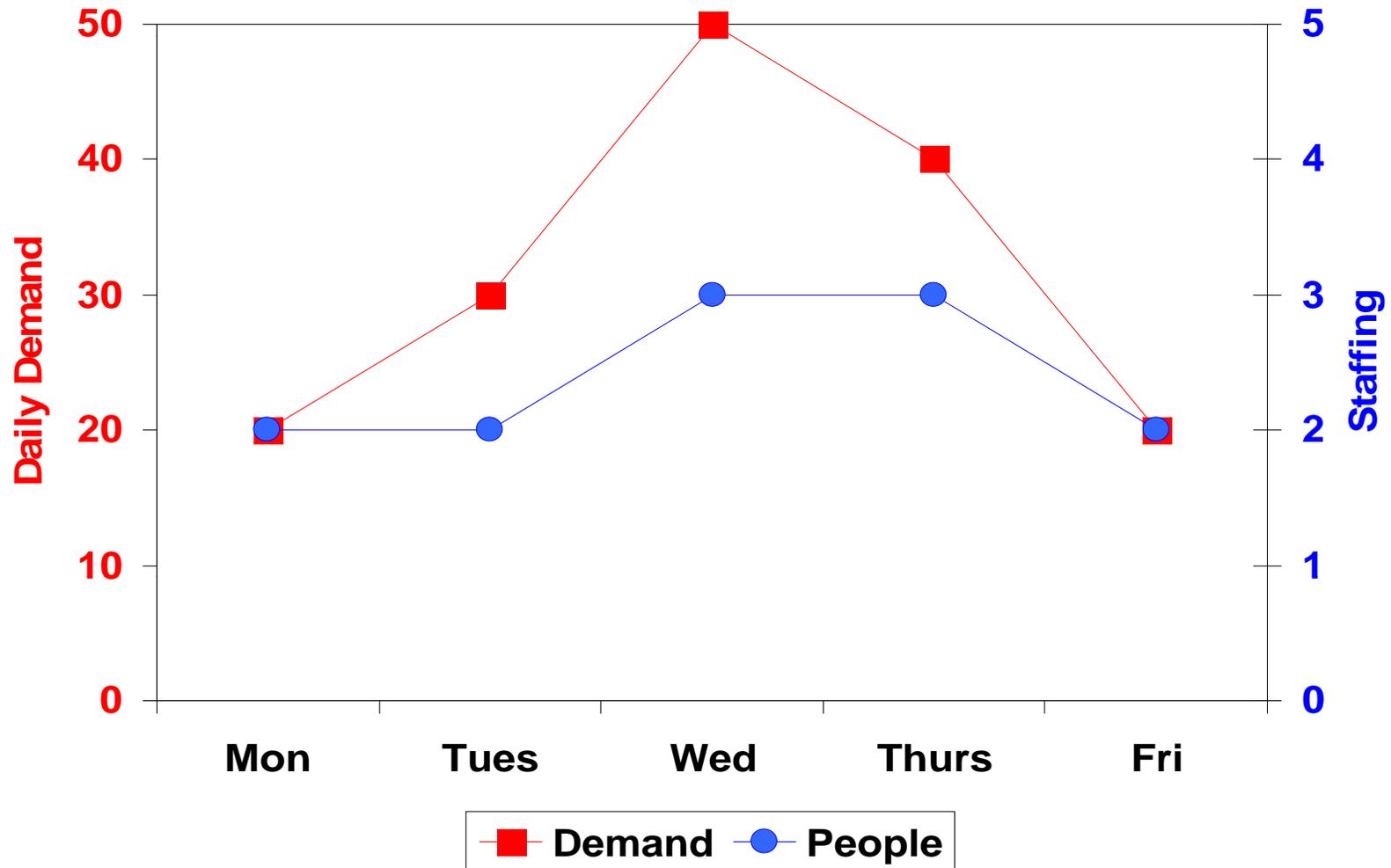
- **Customer must always get the same answer no matter who they ask**
- **Customer must get the same answers no matter what time of the day, or day of the week they ask**
- **Customer must always get on-time, complete, and accurate information**



- **Understand variation in volume**
 - Time of Day
 - Day of Week
 - Week of Month
 - Month of Year



Vary Staffing to Match Demand





- **Sources and causes of variation make standard business processes appear to be random, non-standard work**
 - Missing information
 - Wrong information
 - Wrong work sequence
 - Non-standard training processes
 - Non-standard decision aids



Assuring First-Time Quality Means...

- **Build the system with appropriate information**
- **Build mistake-proofing devices for common problems**
- **Never passing a defect on to the next process;**
 - Detecting abnormalities
 - Responding immediately
 - Eliminating root causes
- **Establish clear decision rules**



Steps to Implementing LeanSigma

- Create a business process map to identify areas of opportunity
- Identify value adding and non-value adding activities and set new performance targets
- Identify Process Waste
- Create process flow
- Reduce variation and improve quality
- **Intense focus on daily performance management and visual control**

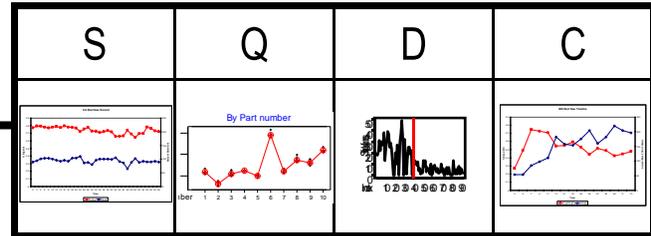
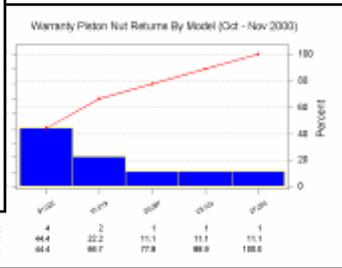
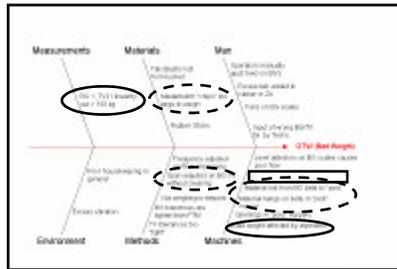
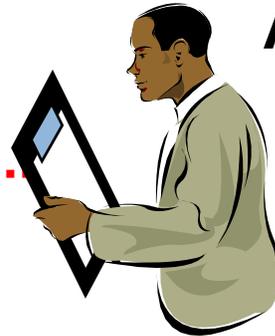


Visual Management

Problem!

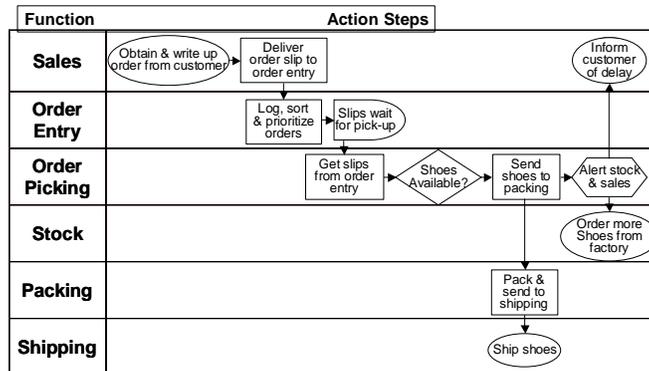


Alert



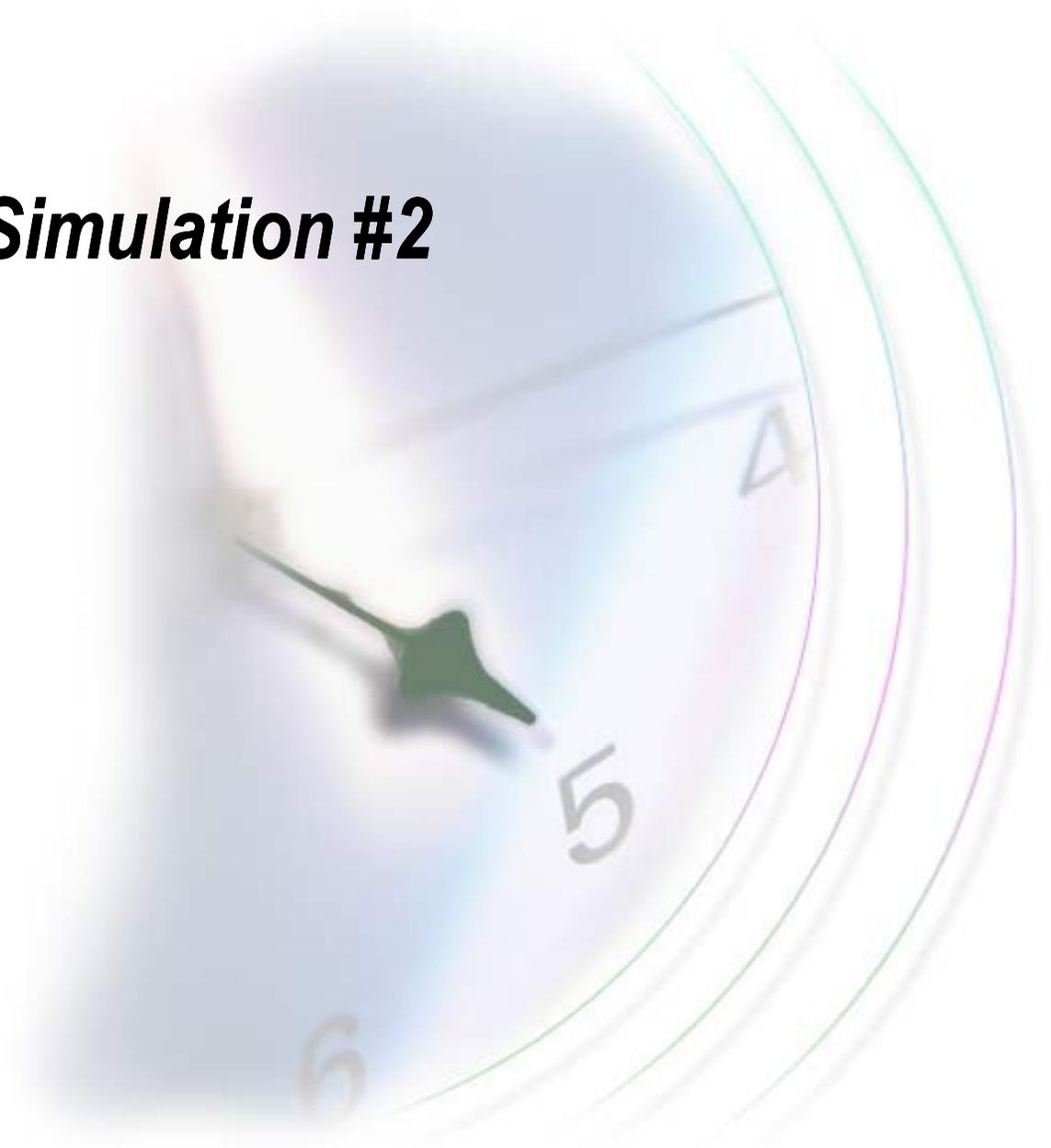
Prevent

React





Simulation #2





What Did You See?





Summary of Observations

- **Linked operations in sequence**
- **Reduced waiting time between process steps**
- **Redundant or rework process steps eliminated**
- **Process paced to customer demand**
- **“Line stop” – Internal defects are not passed on**
- **Paperwork reduced**
- **More opportunity**



Change the Culture





Cultural change: long-term process requiring

- Deliberate change in management attitude
- Participation and empowerment
- Fundamental policy changes

Sustaining change requires

- Align performance measures
- Constant communications

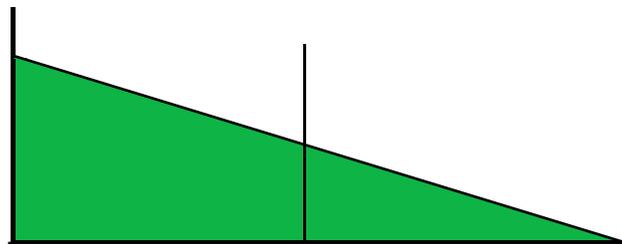
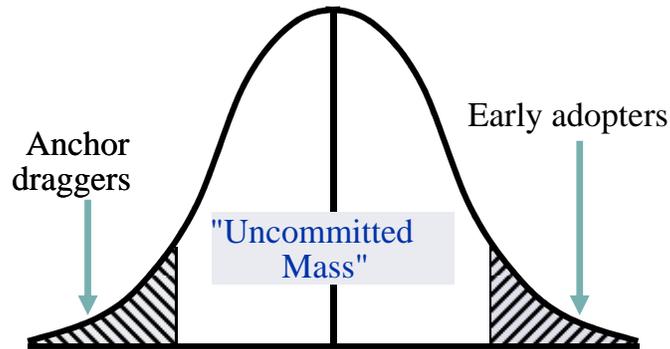




Managing Resistance

Traditional Situation

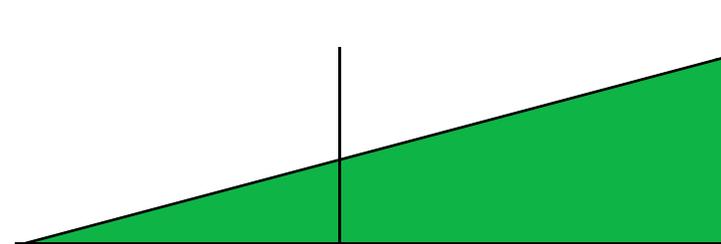
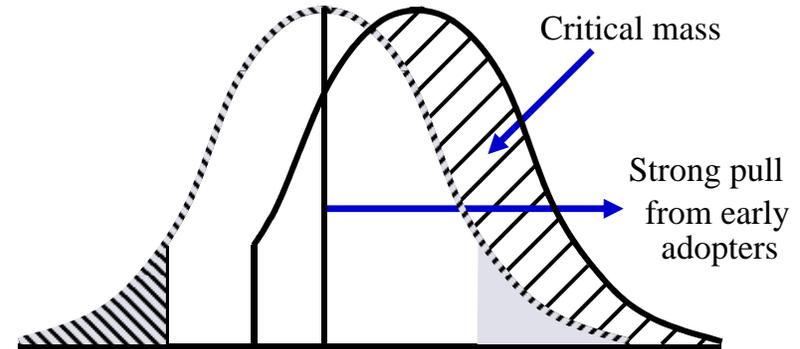
Increasing resistance ← Neutral → Increasing cooperation



Management attention

Promoting Change

Increasing resistance ← Neutral → Increasing cooperation



Management attention



- **Hands-on senior management involvement**
- **Link kaizen projects to agency objectives**
- **Effective performance measures**
 - Aligned to agency plan
 - Linked to kaizen results
 - Daily performance metrics with countermeasures
- **Engage the organization in the change process**
 - Kaizen participation
 - Middle management skill development
 - Communication & promotion



What's Next?





- **Identify areas that can benefit from process improvement**
 - What's the problem
 - What's the impact of improving the process
 - How is success measured
- **Planning the event**
 - Identify stakeholders
 - Determine scope of project
 - Determine timing of the event
 - Determine necessary support



What to Expect from Your LeanSigma Transformation

- **Physical transformation** that improves responsiveness, quality, cost & customer service
- **Cultural Transformation** that energizes the workforce, releases creativity and encourages teamwork to sustain the improvements
- **Efficiency and effectiveness** that delivers excellence to all stakeholders



Questions?

Please fill out an Evaluation Form

