



Wells Fargo

**Document Management
Operational Excellence**

**Lean Transformation Summit
Break Out Session**

March 6, 2008

Who We Are

Wells Fargo & Company (NYSE: WFC) is a **diversified financial services company** providing banking, insurance, investments, mortgage and consumer finance through almost 6,000 stores, the Internet and other distribution channels across North America and internationally.

We're headquartered in San Francisco, but we're decentralized so every local Wells Fargo store is a headquarters for satisfying all our customers' financial needs and helping them succeed financially. Wells Fargo has \$575 billion in assets and 1XX,000 team members across our 80+ businesses. We're the United States' 25th largest employer. We ranked fifth in assets and sixth in market value of our stock among our peers as of June 30, 2007.

Our vision: We want to satisfy all of our customers' financial needs, help them succeed financially, be the premier provider of financial services in every one of our markets, and be known as one of America's great companies.

Document Management

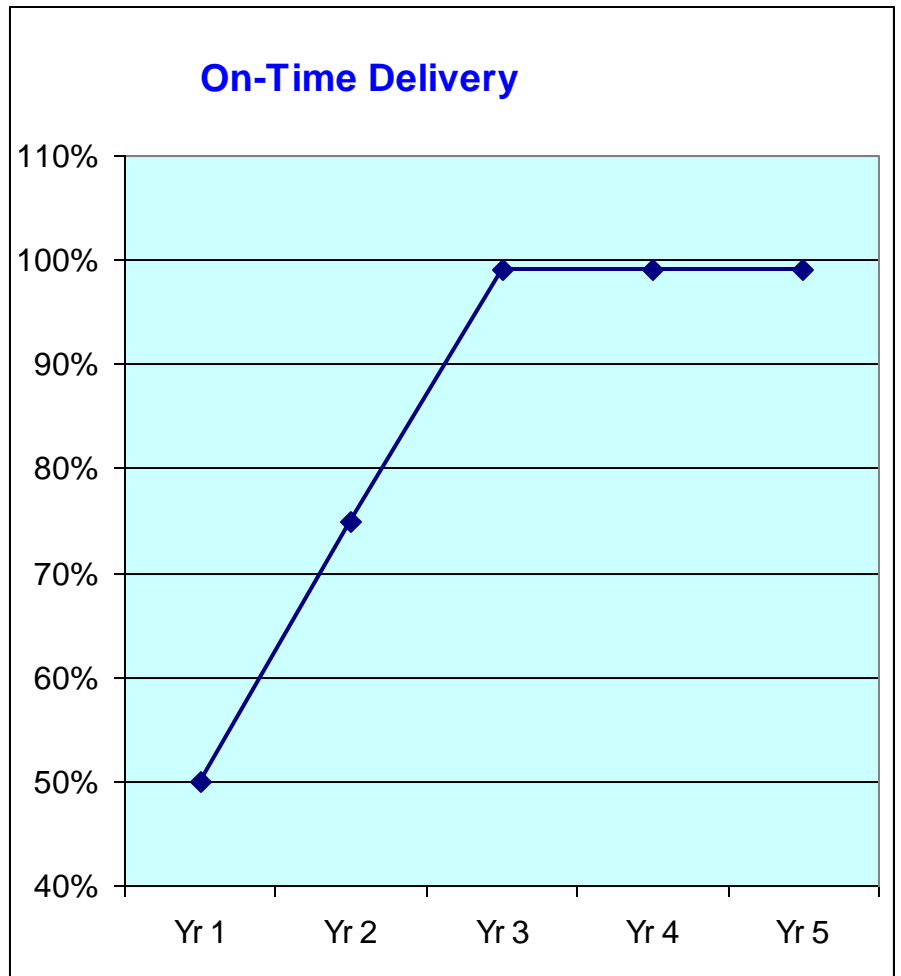
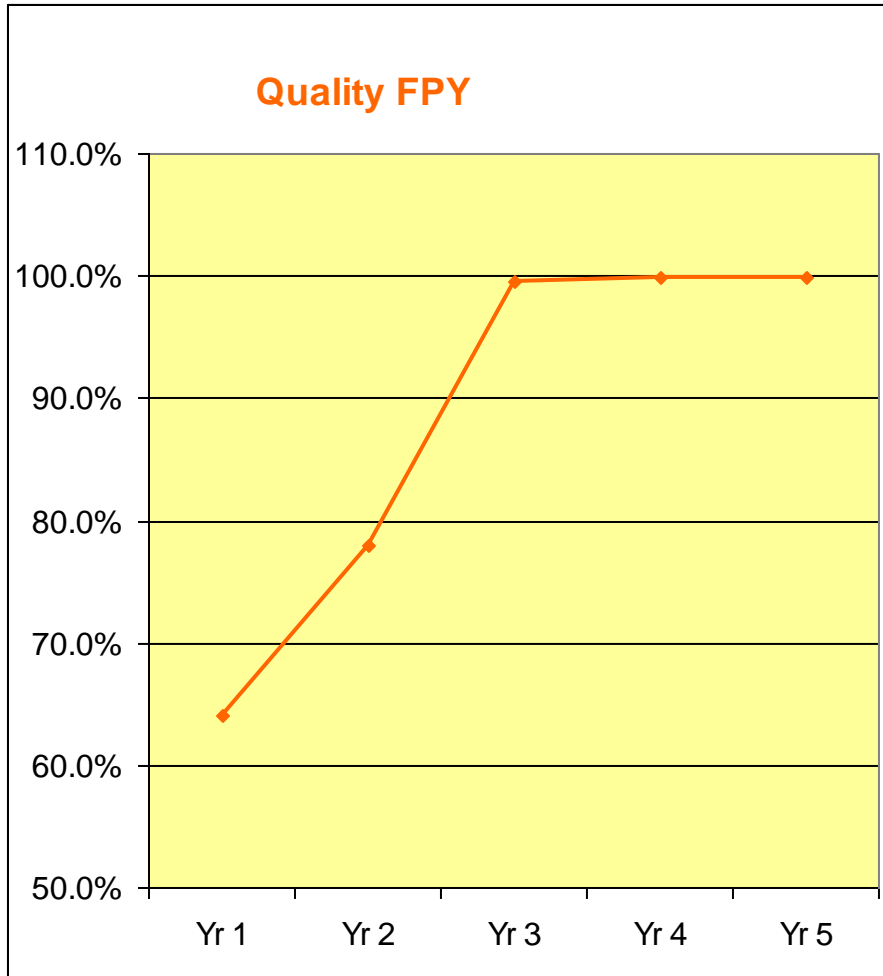
DM is a WF internal service provider of:

- Paper to image conversion
- Electronic document routing
- Data lifting
- Document storage

DM is:

- 600 team members
- Located in NC, MN, and IA
- Producing 30 million document images / month

Rapid Improvement



Rapid Improvement

Cost per Image Reduction

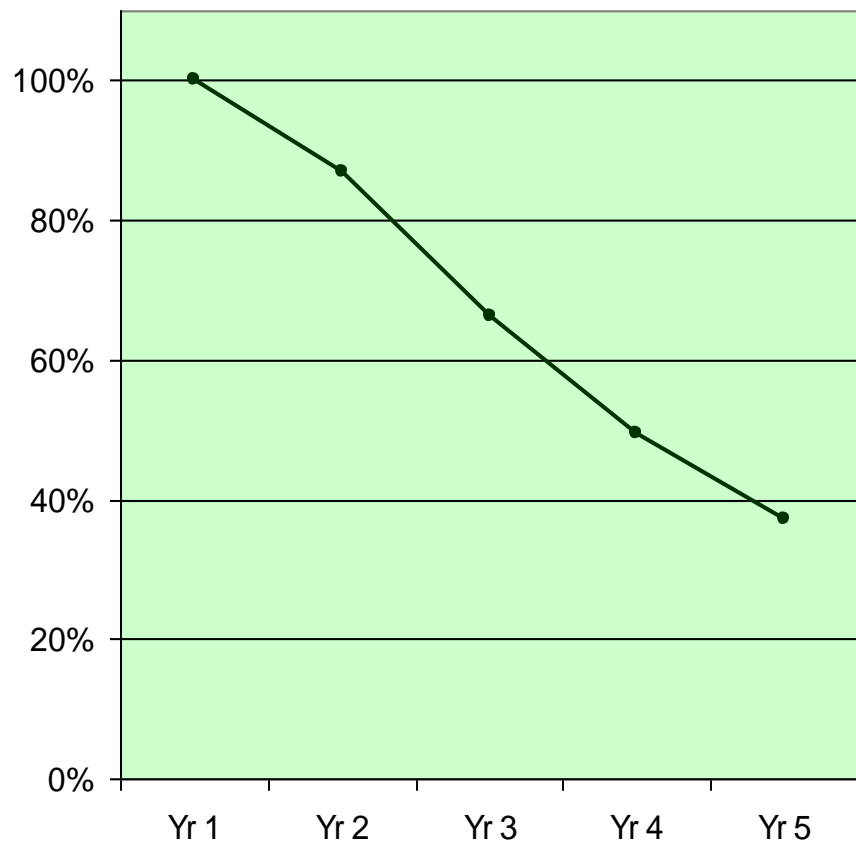
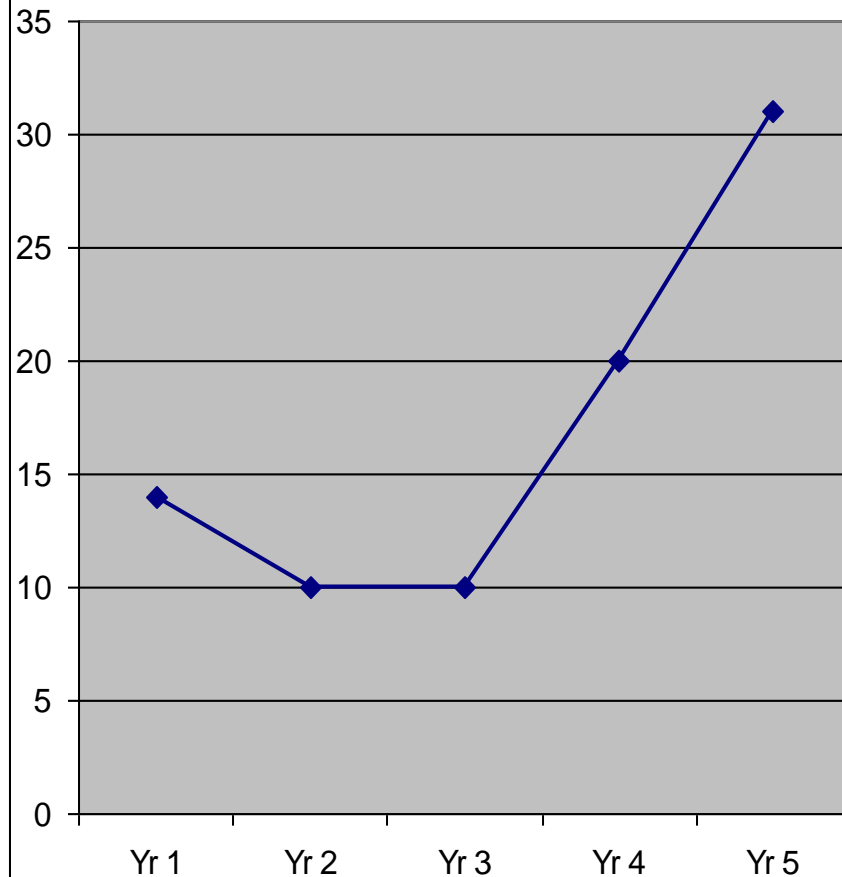


Image Volume (millions)



What We Looked Like: Then and Now

Initial State – What you would see

- People working in cubicles
- People assigned to cubicle
- Work brought to the people
- All work is done sitting down
- Every work station looked different even when the tasks were the same
- Hundreds of carts full of files
- Carpeted office environment
- Extra Equipment

Year 4 – What you would see

- People working in cells
- People move between cells
- Mix of standing and sitting
- Standardized work stations
- One to two days inventory on carts
- Production environment with hard flooring
- Each cell outfitted with exact equipment needed
- Andons, tracking boards, standardized work charts in each cell

Our Journey: Learning and Building Culture by Doing

- Take action to make problems visible
- Learn what you don't know by trying
- Improve Daily
- Embrace the tension between engineering and operations

Initial State

Management System

- Control
- Set Individual Performance Standards
- Personal Accountability
- Technology Solutions
- Get the Work Through and Fix Problems When Business Is Slow

Team's Thought

- All that's required of me is to do as I'm told
- Hit My Standards
- Personal Responsibility
- Solutions Come From Technology And Management People
- Quantity before Quality

Initial State - What We Thought

- On budget = successful
- If there is a problem, it must be someone's fault. It should be handled discretely.
- Inventory protects me from the problems of others.
- We're making record earnings so it must be working

Initial State – How we worked

- Built reports to become more efficient at solving the same problems over and over
- Built reports to measure individual performance to identify people who weren't performing
- Work content was simple and batches large to support standards and reporting
- Process was designed by technologists to support the technologies they chose
- Managed from anecdotes; prioritized based on level of business partner anger
- End-to-end process was not documented or understood

Year 4 – Where We Are Now

Management Vision

- Operational Excellence
- Reduce waste
- Organizational decisions to fit process (not vice versa)
- Create flow
- Make the process visible
- Fact based decisions
- Change Control
- Continuous Improvement
- Involvement of all team members

Team Thinks

- Improve quality and throughput
- Teams and individuals succeed together
- People are the key
- Problems are expected
- Participation from everyone is expected
- Team members share ownership of improvements with management

.....but in Year 1

Management Vision

- Operational Excellence
- Reduce waste
- Organizational decisions to fit process (not vice versa)
- Create flow
- Make the process visible
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Team Thinks

- Management is trying to reduce costs
- Lean = assembly lines = flow
- Inventory protects me from problems
- Visual = scarlet letters
- I need approval to fix problems
- Constant change

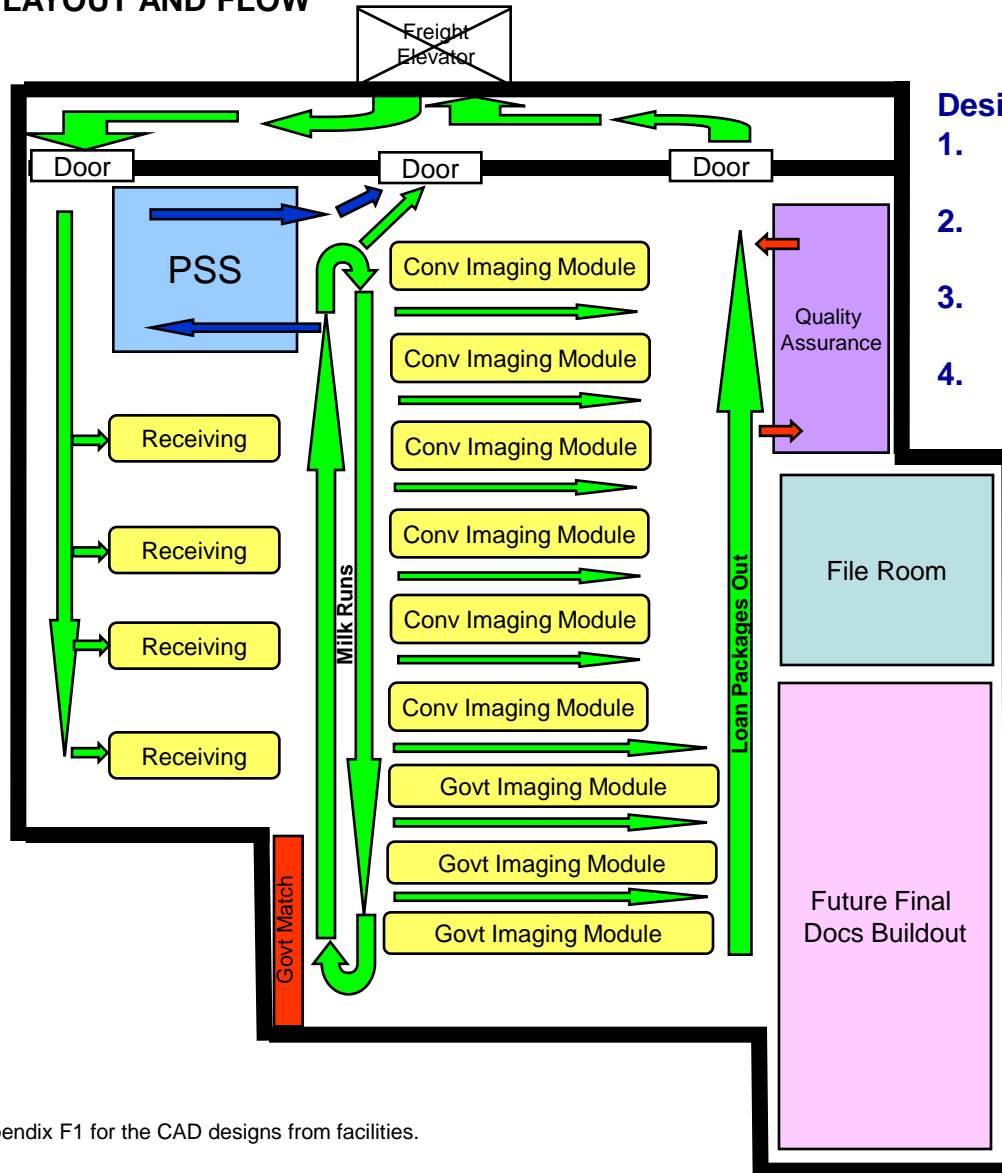
Year 1 - Cultural Disruption

- Rapid Change
- Conflict with prevailing culture
- Sorting out of what beliefs still work
- Can't go back (if not commitment to move forward)
.....and thus:
- Problems viewed negatively
- Struggles to build new barriers to replace dismantled ones
- Communication difficult as terms became meaningless
- Struggle for individualism

However, Wells Fargo's Vision and Values Statement fit well with lean thinking.

First Year Layout Change

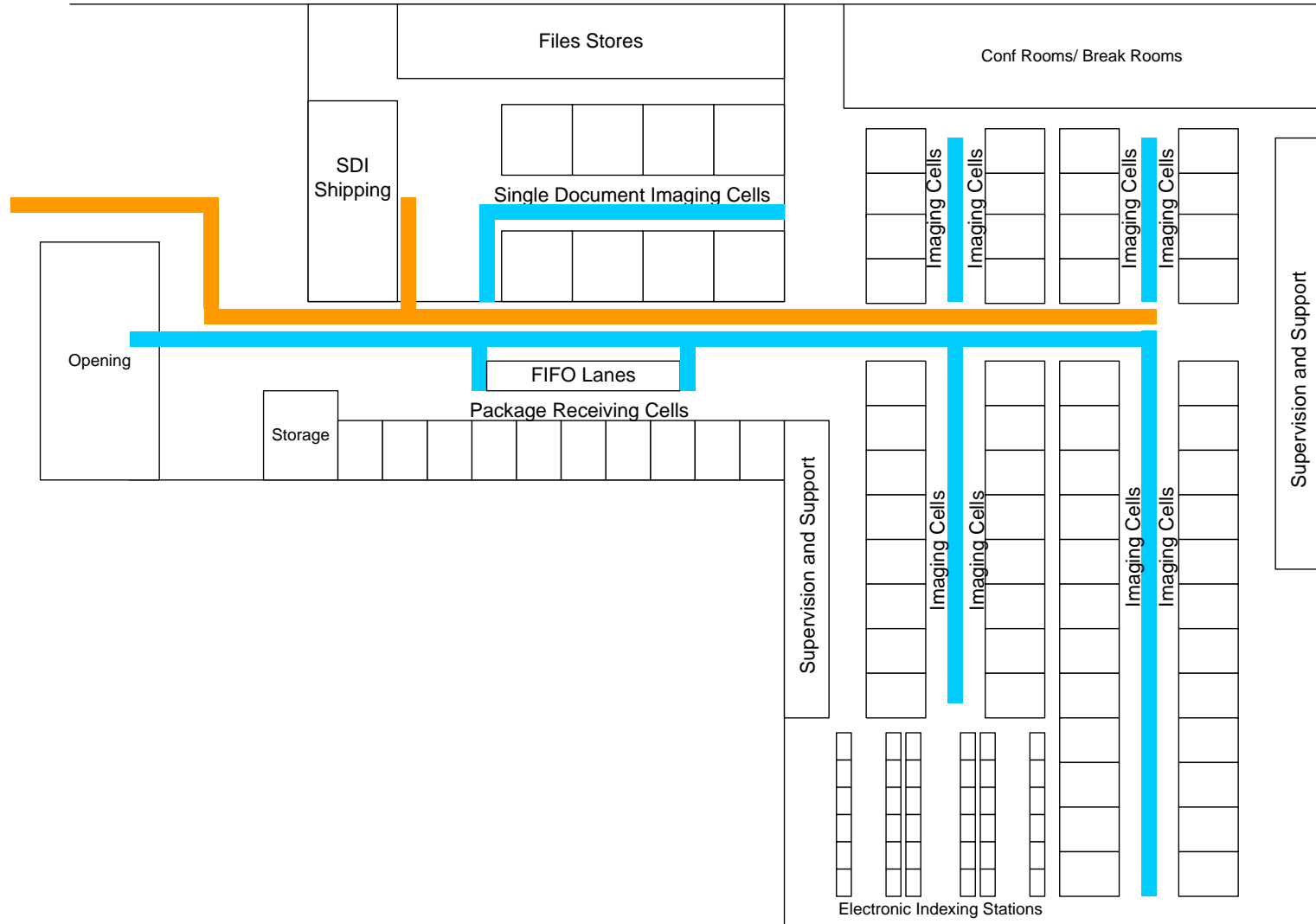
SHOP LAYOUT AND FLOW



Design Objectives:

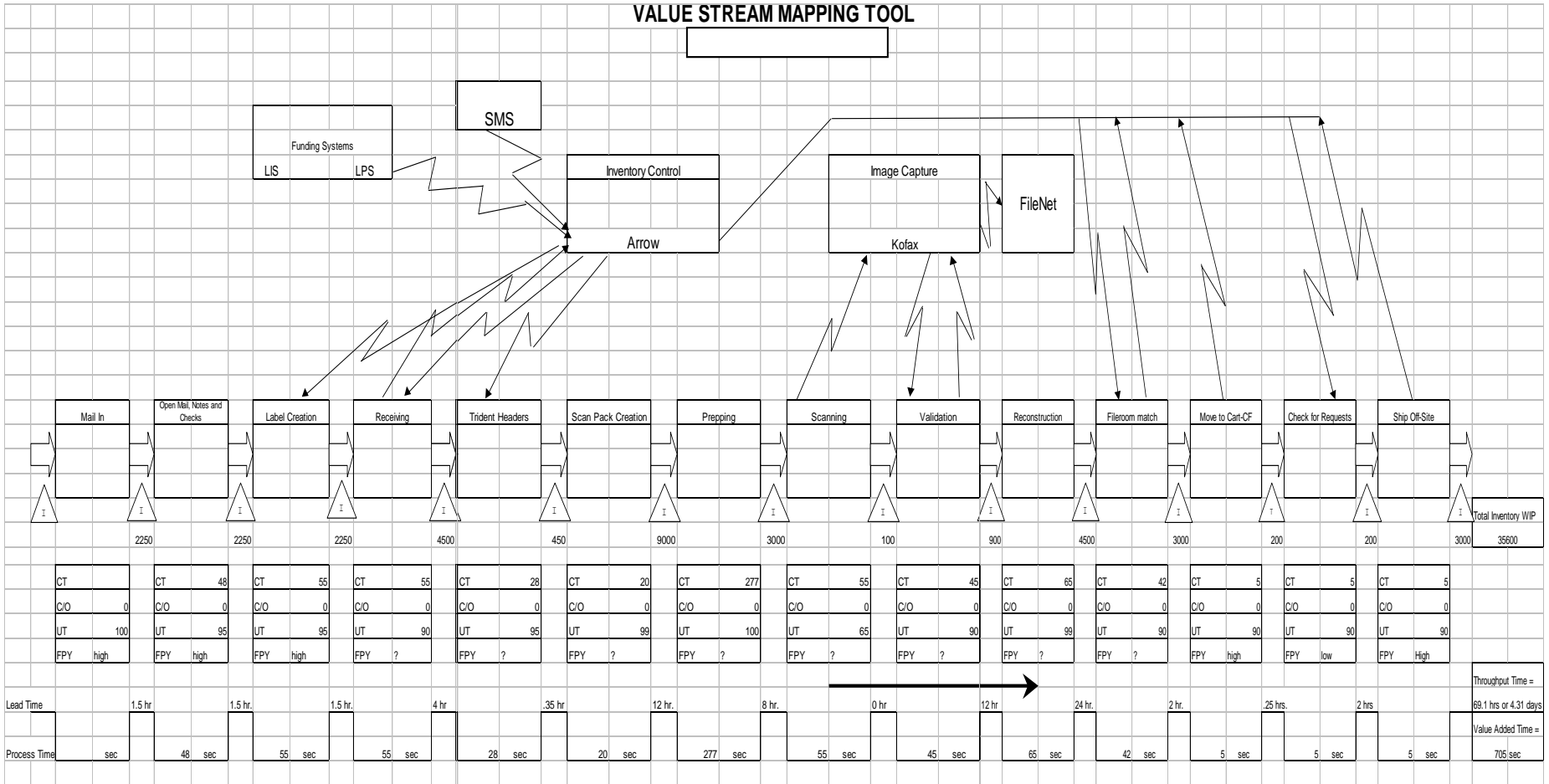
1. Critical path is consolidated into main production space.
2. Elimination of backflows and intersections.
3. Circular flow from monument (freight elevator).
4. 75% reduction in travel.

Year 4 - Layout



Year 1 - Value Stream Map

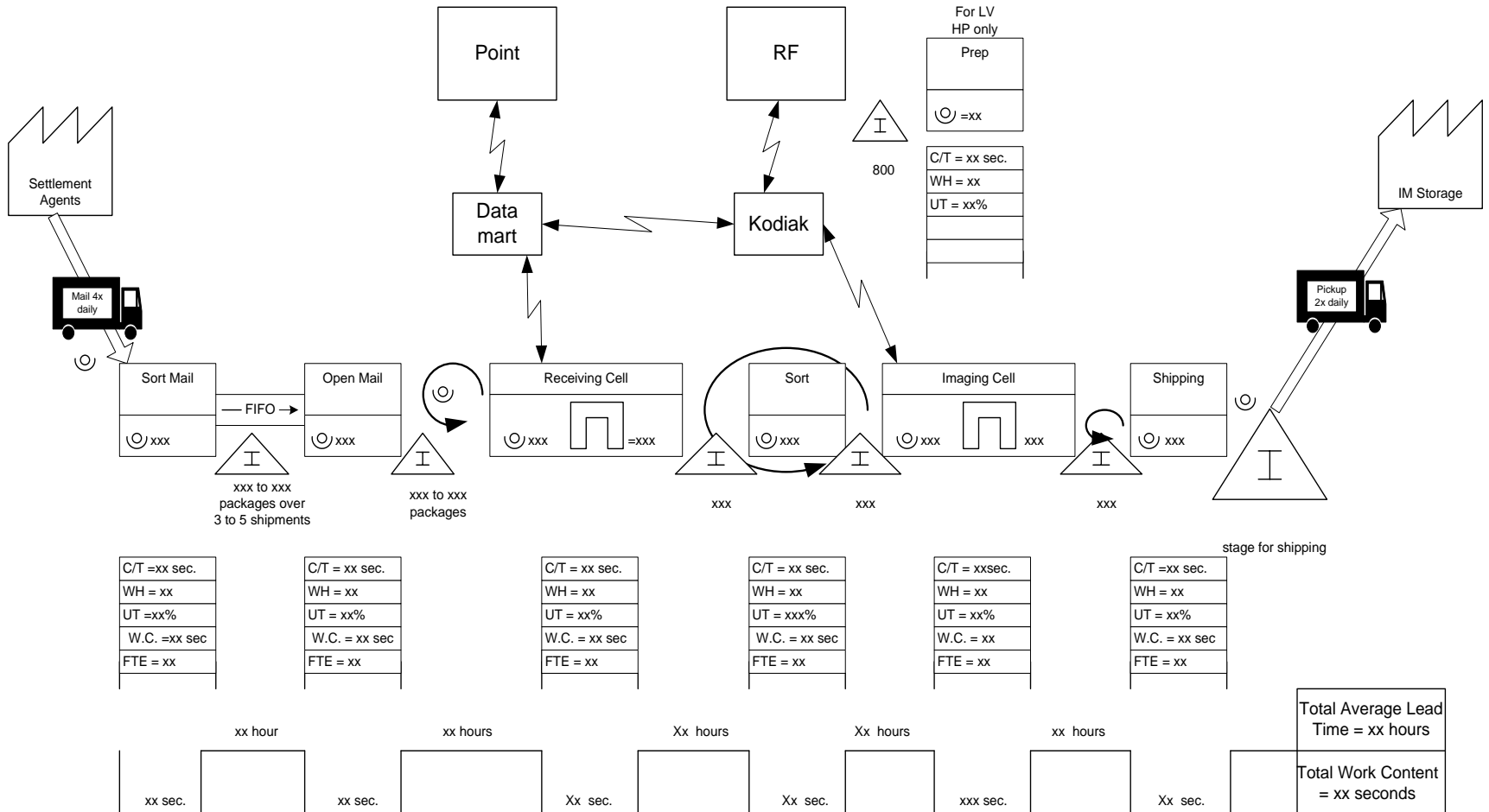
VALUE STREAM MAPPING TOOL



Legend
 CT = Cycle Time
 CO = change over time
 UT = uptime
 FPY = first pass yield

Year 4 - Value Stream Map

Package Imaging VSM



W.C. = x% of leadtime

Changes to the Work Station

Phase

Looked Like

Progress

Initial

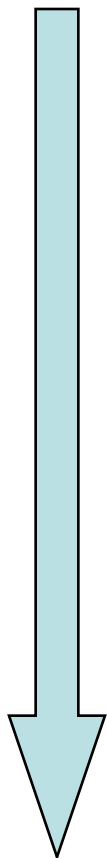
- > Cubicles
- > All sitting
- > Not Standardized

- > Production Lines
- > Conveyors
- > Some Standardization
- > U-shaped Cells
- > Standing and Sitting
- > Work Combinations

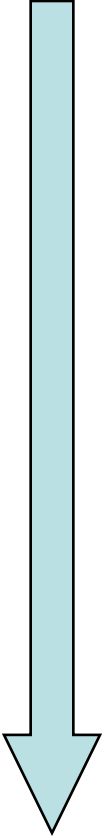
- > Visually Understandable
- > Fake Flow
- > Predictability
- > Efficiency
- > Reliability
- > One-Piece Flow

Year 4

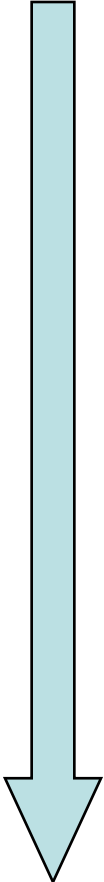
- > Standard WIP



Visual Management

<u>Phase</u>	<u>Looked Like</u>	<u>Progress</u>
Initial	<ul style="list-style-type: none"> > Spaghetti > Inventory Stashed > Process Not Visible 	
	> Straighten Process Flows	> Lack of Flow is Visible
	> Labeled Work Areas & Inv.	> Inventory is Visible
	> Red-Tag 5-S	> Better Flow
	> Tracking Boards	> Visually Understandable
	> Work Directors Initial Tracking Boards	> Problems More Visible
	> 5-S Everyday	> Support Standard Work
	> Andons	
	> Shadow Lines and Signals	> Action against problems
	> Communication Centers	> Team Member Involvement
	Year 4	

Inventory Management

<u>Phase</u>	<u>Looked Like</u>	<u>Progress</u>
Initial	<ul style="list-style-type: none">> Carts of Inventory> Tracking Reports> SWAT Teams	
 Year 4	<ul style="list-style-type: none">> Reduced # of Inventory Queues> Carts in FIFO lanes> Real-Time Tracking Technology Added> Water Spiders> Defined Locations for All Inventory> FIFO Flow for Bins> Precisely Defined Routes> Abnormal Inventory Conditions Quickly Drive Countermeasures	<ul style="list-style-type: none">> Less to Track> Inventory Contained by Process Flow> Less Reliance on Reports> Beginnings of Flow> Process Manages Inventory> Inventory Tracks Itself> Abnormal Inventory Obvious> Smaller Batches Between Cells> More Flow Improvement> Inventory Management Becomes Capacity Management

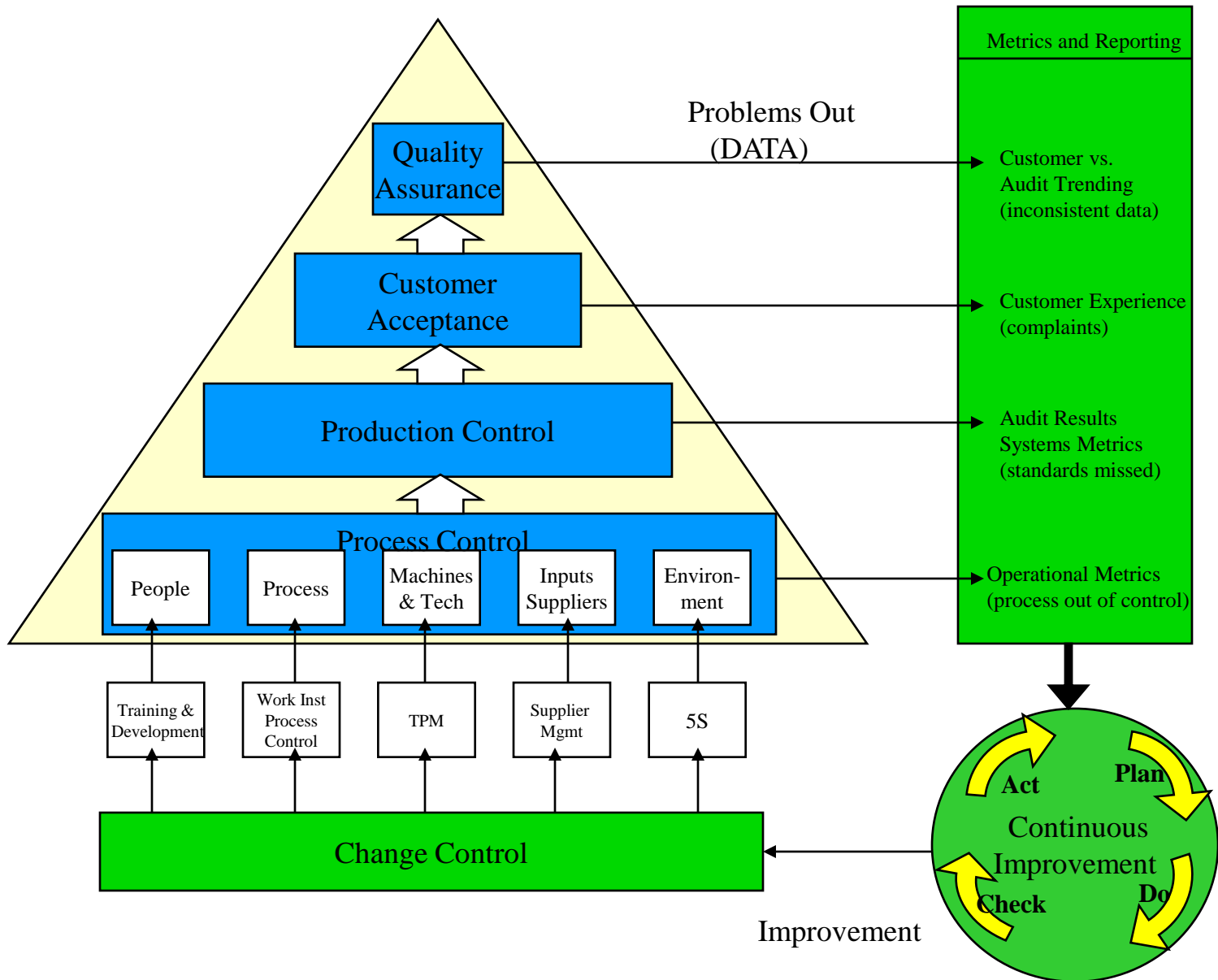
Standardized Work

<u>Phase</u>	<u>Looked Like</u>	<u>Progress</u>	
Initial	<ul style="list-style-type: none"> > Lack of Process Documentation > No WIP Standards > Work Standards / Hour (not cycle times) 		
	> Cycle Times for Cells Defined	> Fake Flow	
	> Basic Work Instructions Written	> Effect of Missing Standards Becomes Visible	
	> Push Processing Defeats WIP	> Some Stabilization of Work Environment	
	> More Elaborate Process Written		
	> Standard Layouts with Less Space Challenges Lack of WIP Standards	> Stabilization of Process	
	> Tools to Control WIP Added to Cells	> Reductions in WIP but Not Standard	
	> Everyday 5-S	> Stabilization of WIP	
	> Tracking Boards Make Abnormal Visible	> Stable Work Environments	
	> Standardized Work Chart in Each Cell	> Unstable Cycle Time More Visible	
	> Standardized WIP in Each Cell	> Repeatable Quality and Productivity	
	> Standard Cycle Times		
	Year 4		

Team Member Involvement

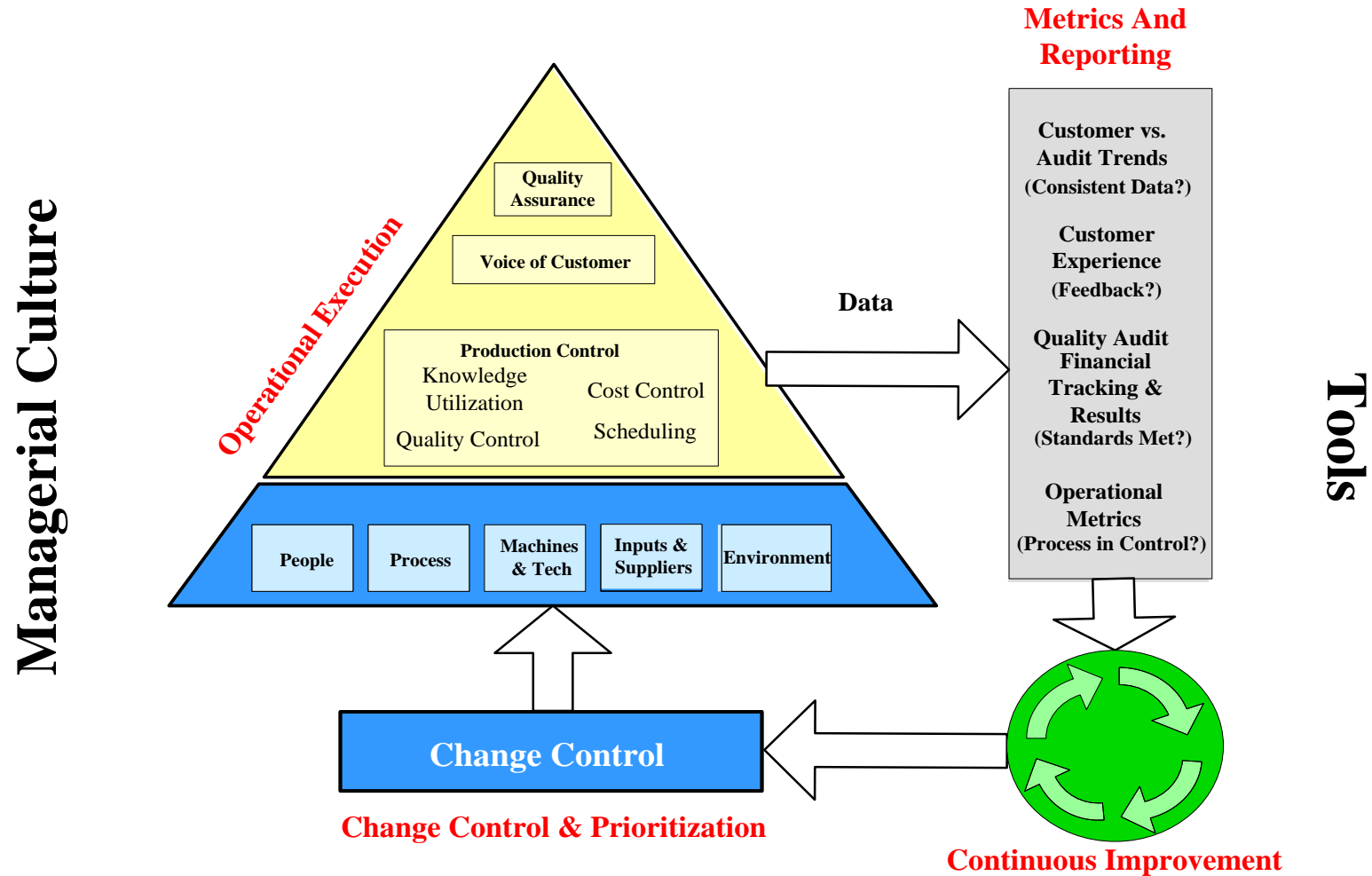
<u>Phase</u>	<u>Looked Like</u>	<u>Progress</u>
Initial	<ul style="list-style-type: none">> Culture that Values People> Management from Conference Rooms> Prioritization Process not Visible	
	<ul style="list-style-type: none">> Flow Simulations	<ul style="list-style-type: none">> Signaled Change
	<ul style="list-style-type: none">> Occasional Gemba Walks	<ul style="list-style-type: none">> Leadership More Accessible Becomes Visible
	<ul style="list-style-type: none">> Production Meetings Moved to Shop Floor	
	<ul style="list-style-type: none">> Leadership Breakfasts	<ul style="list-style-type: none">> More Open Conversation with Staff
	<ul style="list-style-type: none">> Gemba Walks Every Day	<ul style="list-style-type: none">> Planned and Reliable Interaction
	<ul style="list-style-type: none">> Idea / Action Boards Replace Suggestion Box	<ul style="list-style-type: none">> Leadership and Staff Have Shared View of Ideas and Activity Against Them
	<ul style="list-style-type: none">> Communication Centers	<ul style="list-style-type: none">> Ideas and Actions Visibly Linked to Problems and Goals
Year 4		

Early Operations Excellence Model - Year 2



Operations Excellence Model - Year 4

Operational Excellence System



Philosophical Underpinnings

Administrative LEAN

Administrative LEAN

- I. Thought of all our process as production
- II. Reflections:
 - Making Problems Visible
 - Normal vs. Abnormal
 - Exception-based processing
 - Emphasize information flows in value stream maps
 - Value adding and 5S concepts apply to information
 - Pull vs. push applies to gathering and using information
 - Technical support model is as critical for administrative process as it is for production

Questions?

Thank You!