



*Lean Manufacturing -
Value Stream Mapping*

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Lean Manufacturing

- The Fundamental Insight & Objective
- Shift the focus of management from existing organization, technologies, and assets to the product!
- Differentiate value from waste
- Enhance value and remove waste by looking down, not up!!!

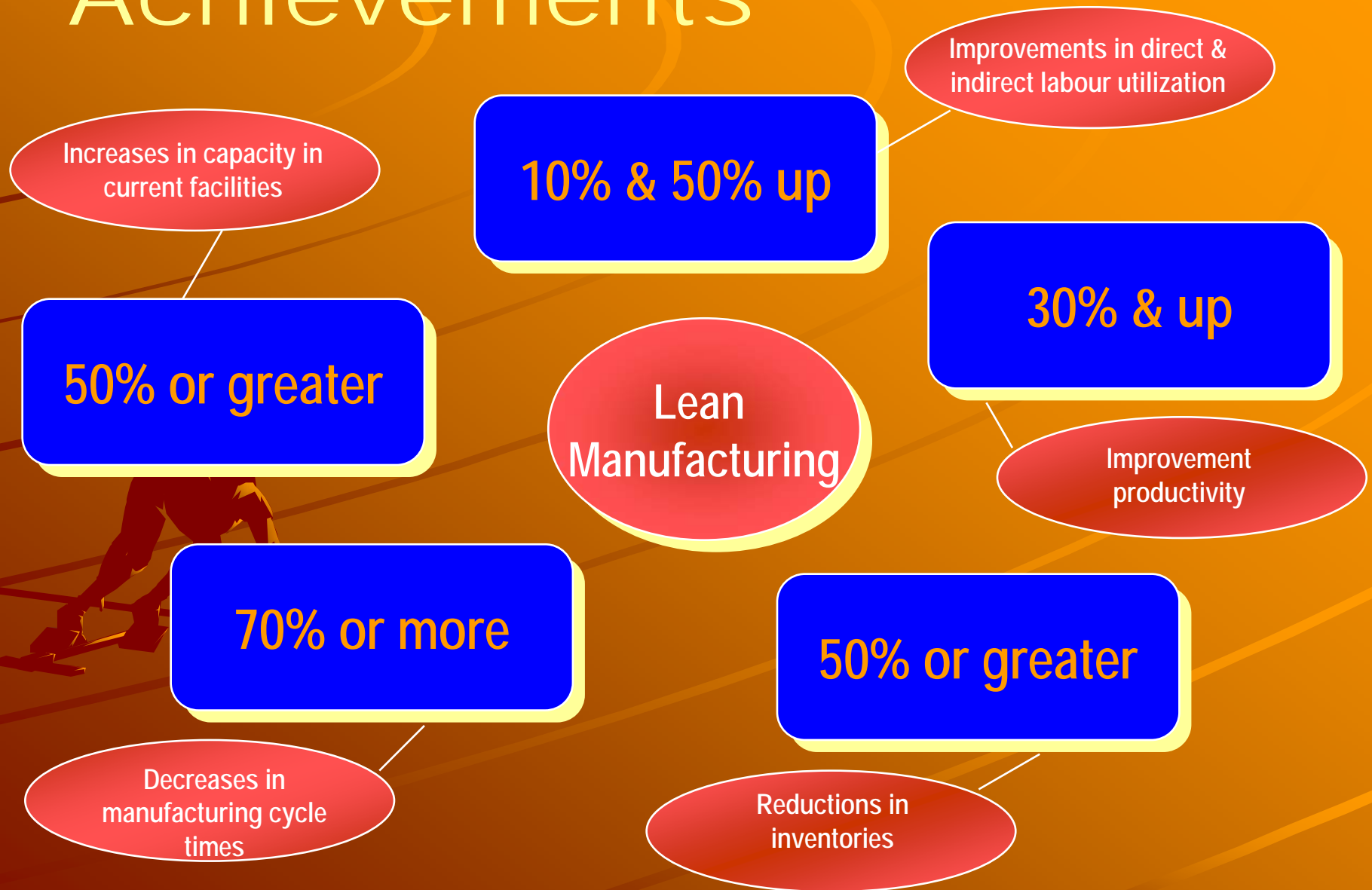
Summary

- Accurately specify value by product
- Identify the value stream
- Make the product flow
- At the pull of the customers
- In pursuit of perfection

Benefits

- Dramatically reduce costs of manufacture
- Improving labour utilization;
- Decreasing inventories;
- Reducing manufacturing cycle times (from order receipt to shipment);
- Increasing capacities without capital expenditure.

Achievements



Major Process Steps

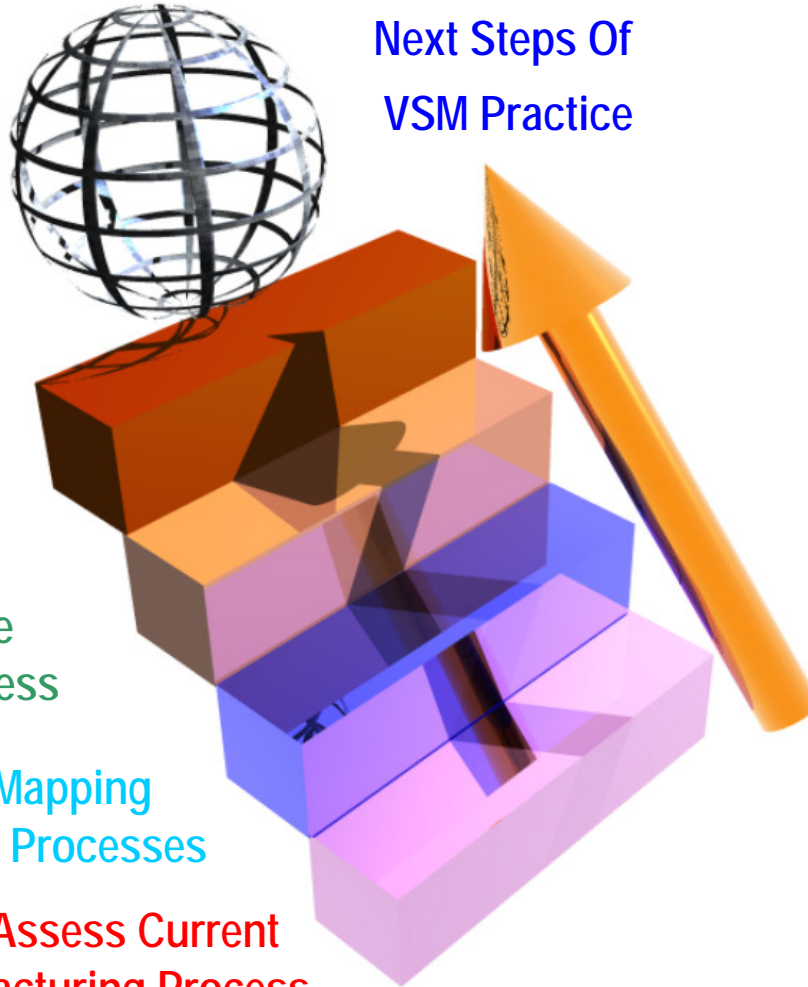
Implementing The
Future VSM Process

Mapping A Future
Value Stream Process

Begin By Mapping
The Existing Processes

Self Assess Current
Manufacturing Process

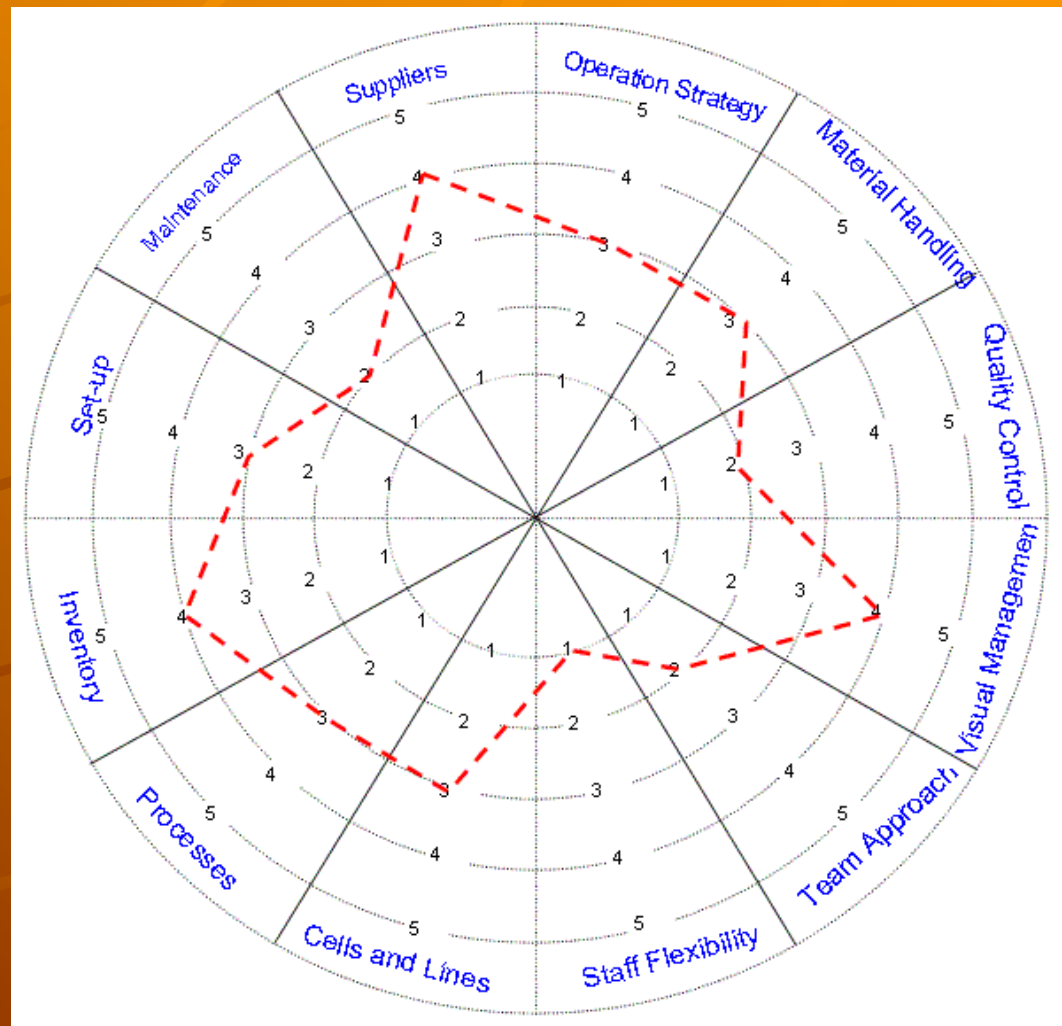
Next Steps Of
VSM Practice



Value Stream
Mapping

Assessment Radar Chart

1. Operation Strategy
2. Layout & Material Handling
3. Quality Control
4. Visual Management
5. Team Approach
6. Staff flexibility
7. Cells and lines
8. Processes
9. Inventory
10. Setup
11. Maintenance
12. Suppliers

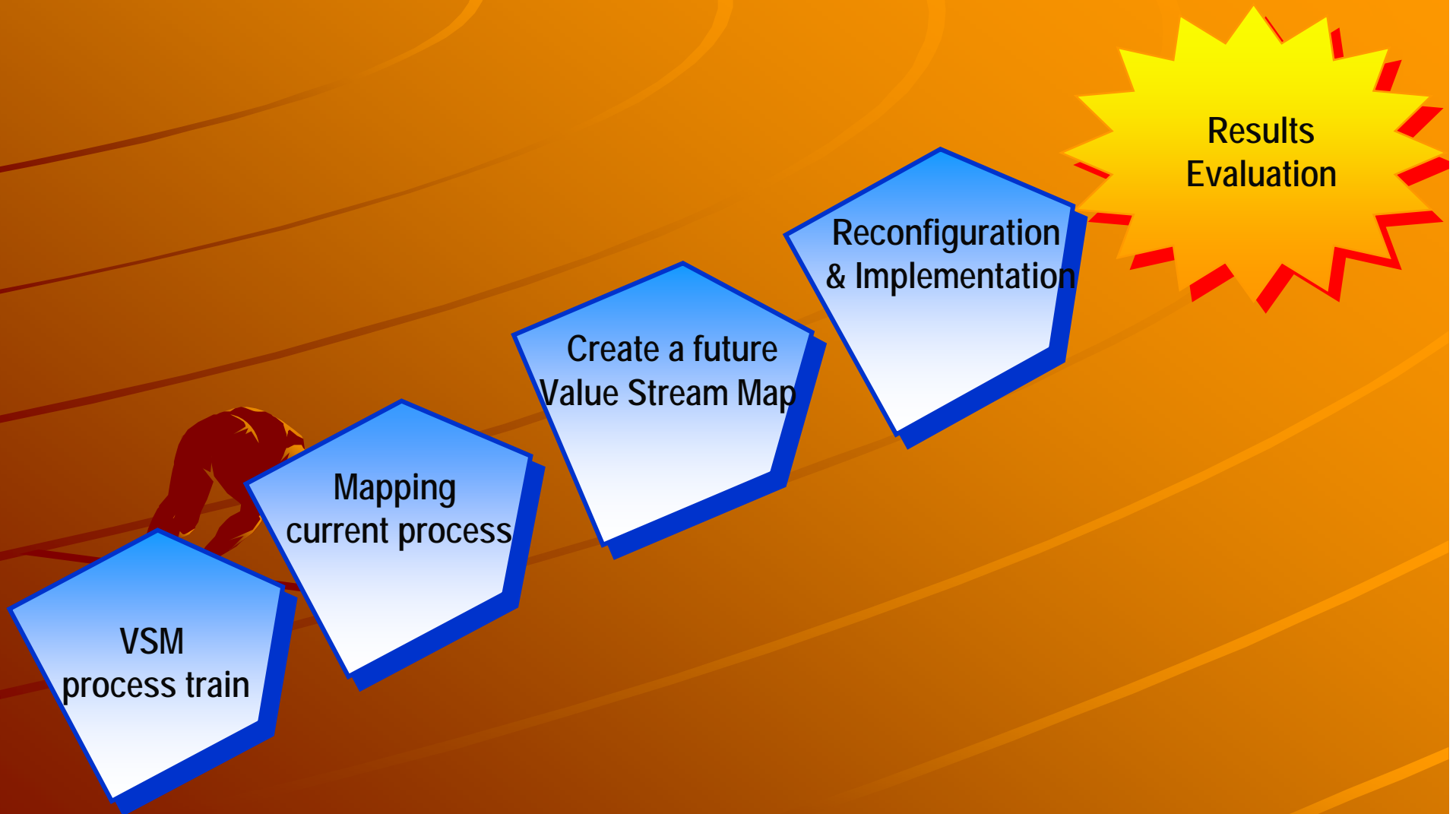


Implementing Process



1. Begin by mapping the existing processes
2. Segment products into families
3. Using process flow chart
4. Review material handling process
5. A great deal of discipline of instill in the cell team
6. An effective lean design utilizes a high level of visual control
7. Select and use measures to gauge project results
8. Implement the project using tracking tools.

Five Major Work Steps



The VSM Team

Project Sponsor

Project
Sponsor



VSM team
Coordinators



VSM Timing

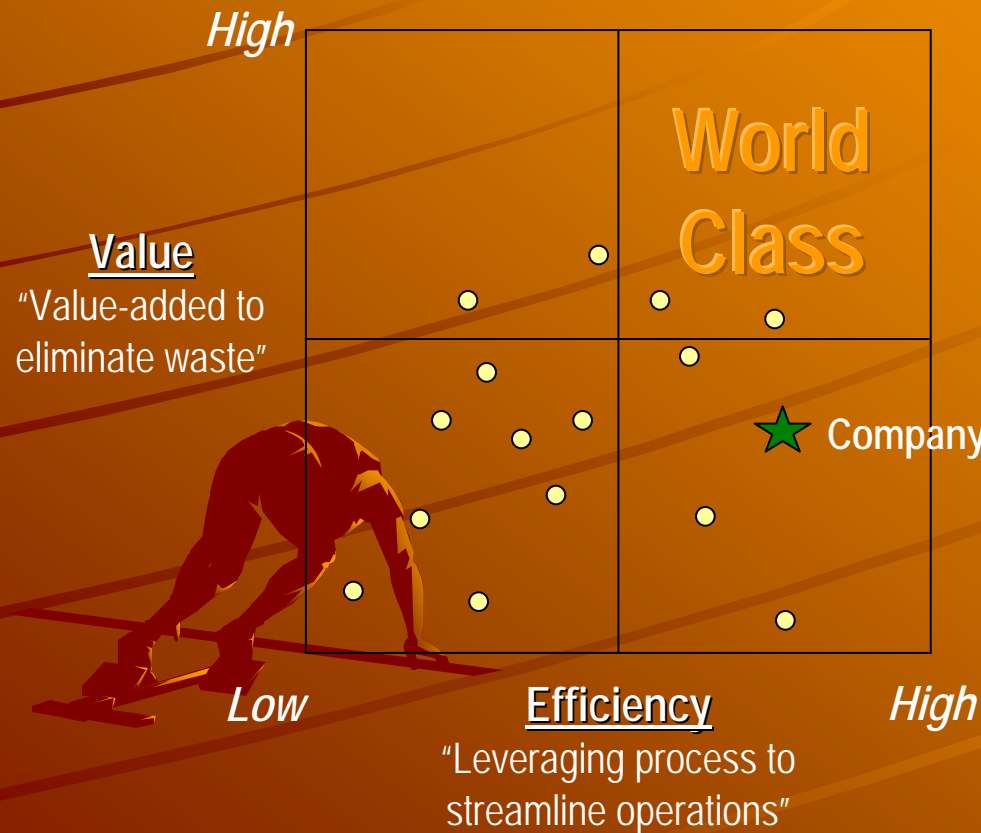
Major Worksteps	Elapsed Days							
	1	2	3	4	5	6	7	8
1. Participate in extensive Lean Manufacturing training session	★							
2. Principal of Lean Manufacturing Theory and one piece flow concepts	■							
3. Mapping current manufacturing process			■					
4. Review process flow, create Future Value Stream Map				■				
5. Workcell Design and Lean Manufacturing plant layout design						■		
6. Reassessment and evaluation achievements								★

A Results VSM



- ◆ Interpret results
- ◆ Apply the conclusions
- ◆ Provide greater insights
- ◆ Discuss implications
- ◆ Identify key areas of improvement opportunity

Lean Manufacturing Grid



Key Drivers

Value

- ◆ Operation Strategy
- ◆ Layout and Material Handling
- ◆ Visual Management
- ◆ Team Approach
- ◆ Setup
- ◆ Suppliers

Total Score 9/30

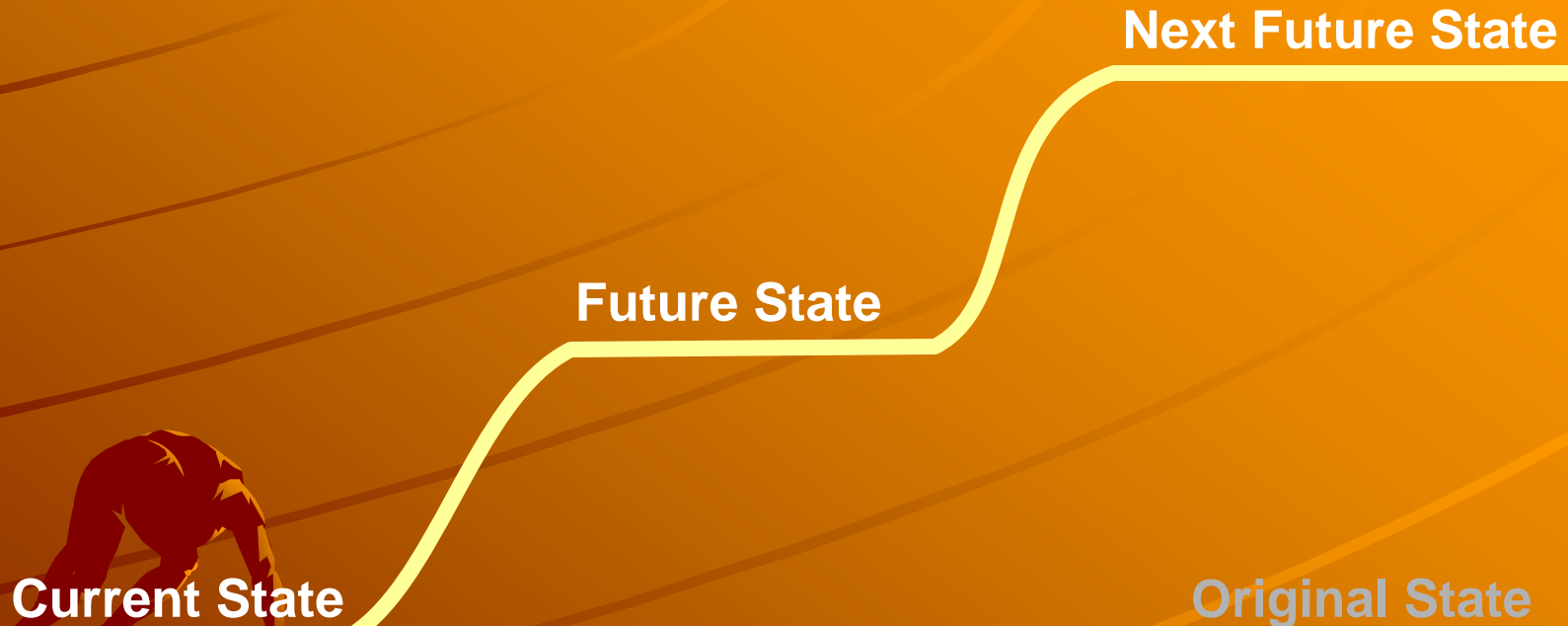
Efficiency

- ◆ Cells and Lines
- ◆ Quality Control
- ◆ Staff Flexibility
- ◆ Processes
- ◆ Inventory
- ◆ Maintenance

Total Score 21/30

Company's Score

Managing Toward Perfection



Practices & Opportunities



Annual Best Practices Conference

Consulting Packages

One day package

- Principles & Lean Strategy

- ✦ Current Process Assessment
- ✦ The Lean Practice
- ✦ Lean Strategy Development

Two days package (include day one package)

- Current Manufacturing Map

- ✦ Kanban Design
- ✦ Lean Scheduling
- ✦ Cycle Counting
- ✦ Rapid Setup

Five days package (include day one and two package)

- Future Value Stream Map

- ✦ Lean Process Layout
- ✦ Workcell Design
- ✦ Future value stream map practice

Special Consulting package

- **Kaizen blitz / 5S / Team building / Pull system**

Contact Information

Lean Manufacturing consulting Project

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