

***Growing the
Lean Community***
An LAI Plenary Conference

**Lean
Aerospace
Initiative**

Enterprise Transition to Lean Roadmap
April 12, 2001

Presented By:
Deborah Nightingale
LAI

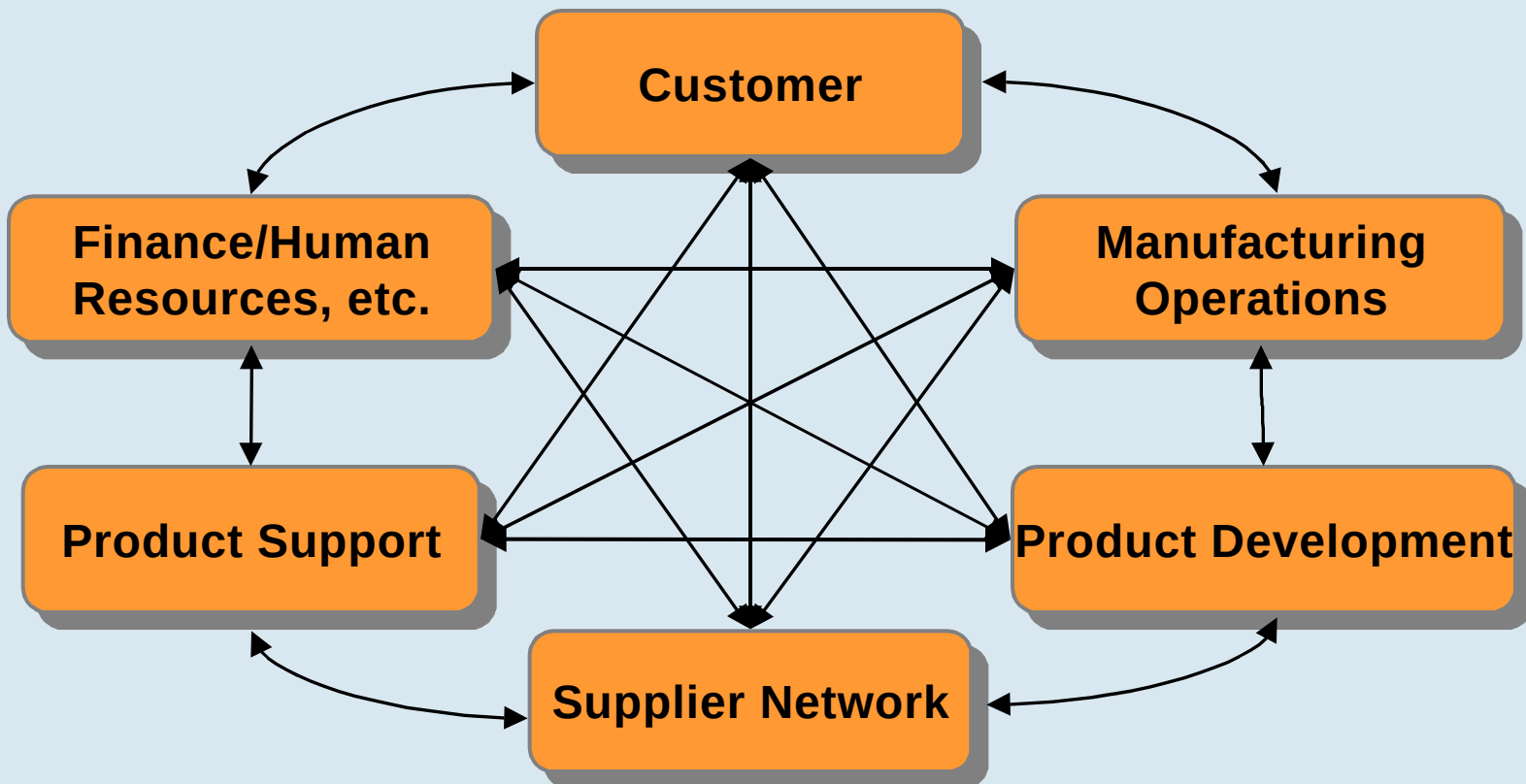
Research Sponsored By LAI

Lean Transformation Issues

- Why do many lean transformation activities fail?
- What are the key success factors in implementing lean enterprise wide?
- How can we better assure that lean will impact bottom line results?
- Are there certain activities that are ideally performed before others?
- What is the role of senior leadership in assuring success?

Issues Motivated Development of Enterprise
Transition to Lean Roadmap

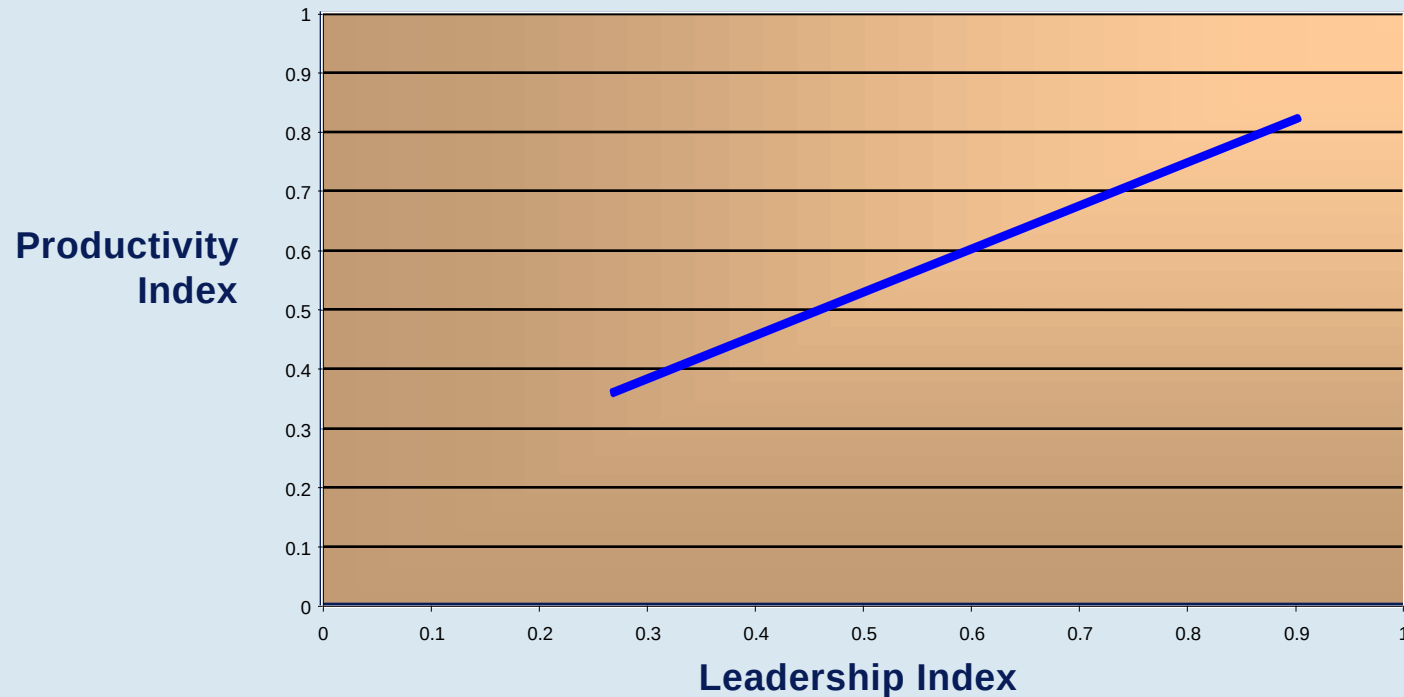
Lean Transformation Requires an Enterprise Approach





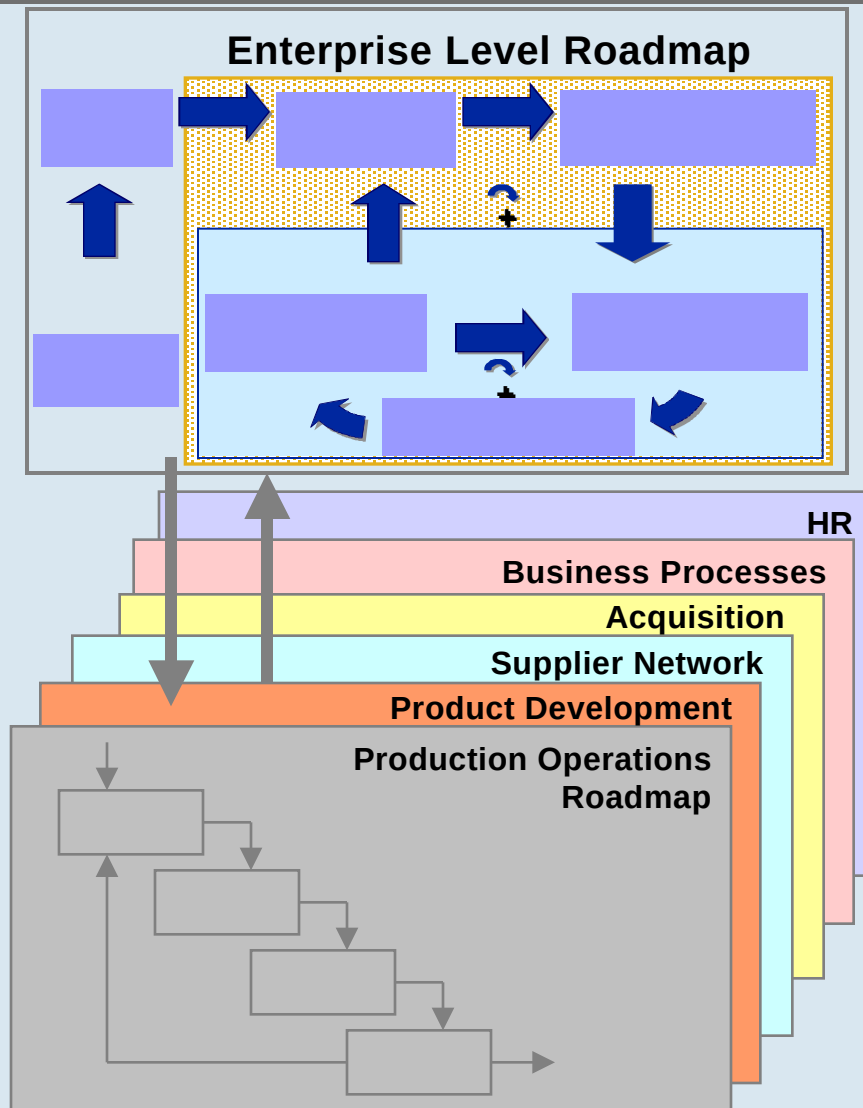
Enterprise Leadership is Key Element of Success

LAI Aerospace Organizations



Source: D. Tonaszuck, MIT Master's Thesis, January 2000

Transition to Lean Module Concept

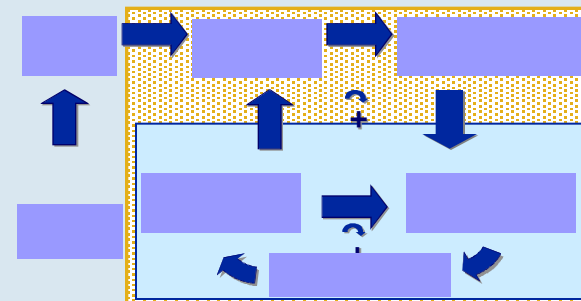


- Priorities
- Sequence
- Key Enablers
- “How-To’s”
- Change Mgmt. Principles

**Transition
to Lean Plan**

What is the Enterprise Level Transition-To-Lean Model ?

Begins with a description of a Top Level Flow of primary activities referred to as “The Roadmap”

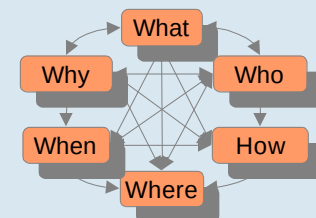


Focus on the Value Stream

- Map Value Stream
- Internalize Vision
- Set Goals & Metrics
- Identify & Involve Key Stakeholders

Then, provides descriptions of key tasks required within each primary activity

Finally, leads discussion of issues, enablers, barriers, case studies & reference material relevant to each task in a common structured framework



Enterprise Level Roadmap Conceptual Framework

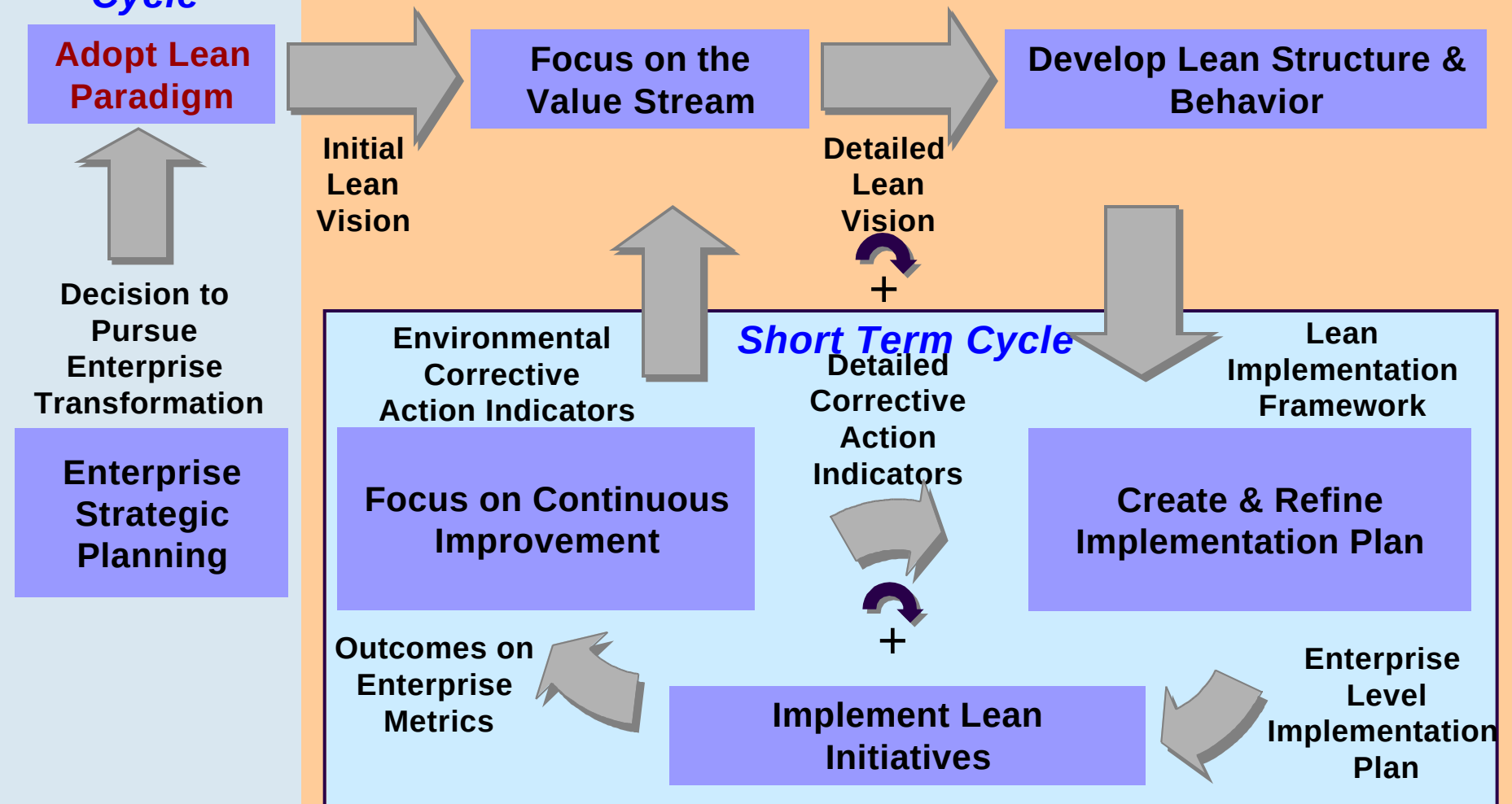
What Does the Enterprise Level TTL Model Provide?

- **A robust path that Enterprise Leaders can follow to transition their organizations to a new plateau of “leanness”**
- **Efficient and effective tool that will improve the quality of thinking and awareness of Enterprise Leaders on the challenge of transitioning their organization**
- **Framework for cultural, organizational & change management considerations**
- **Guidance in making the transition process, itself, a ‘lean’ process**

Enterprise Level Roadmap

Entry/Re-entry Cycle

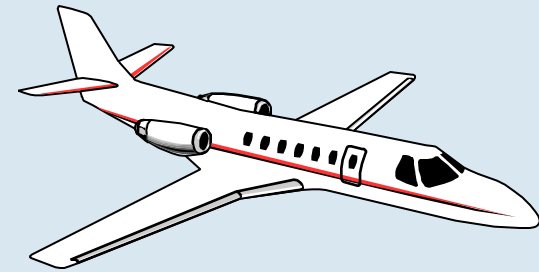
Long Term Cycle





Adopt Lean Paradigm

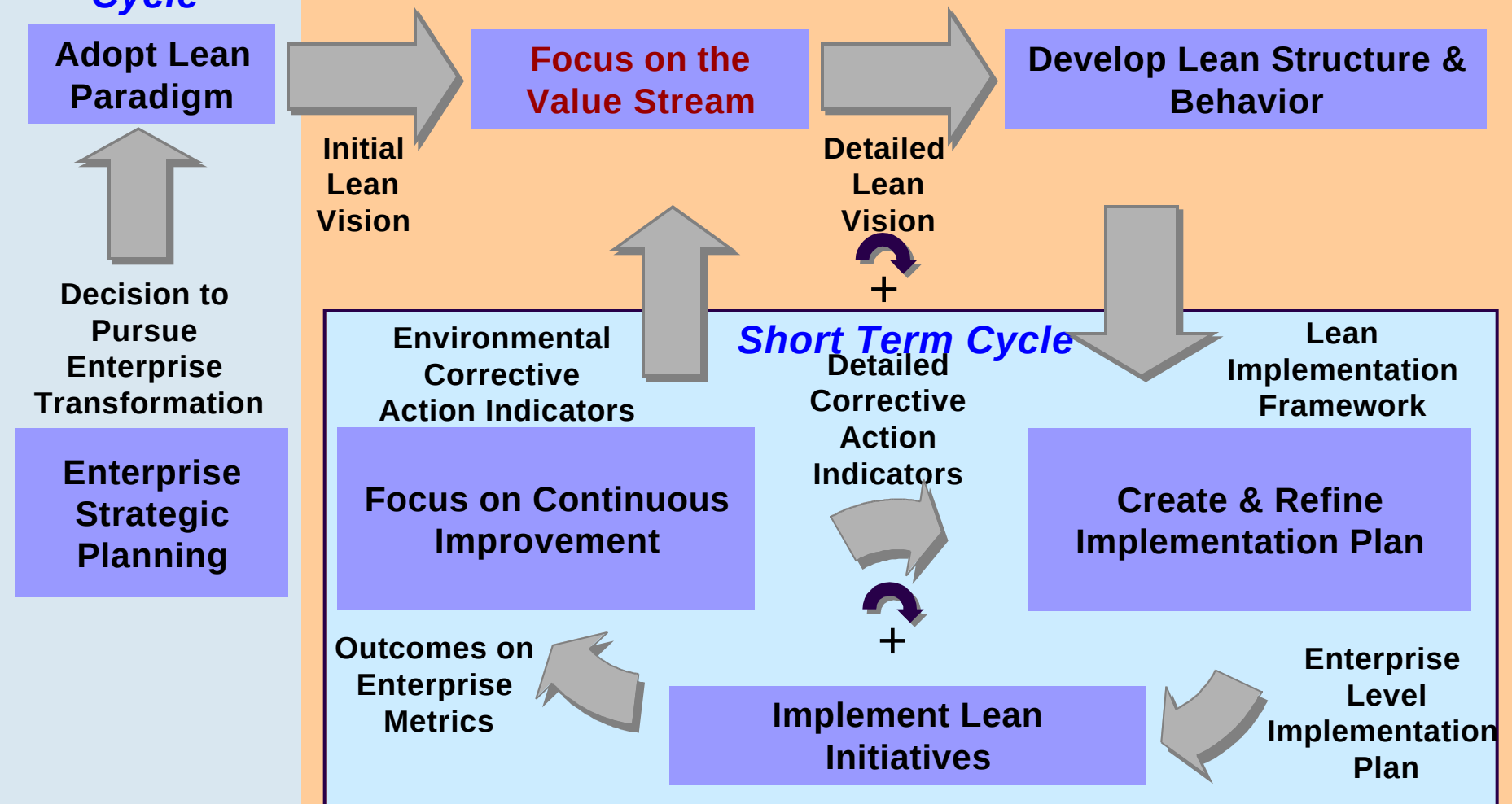
- **Build Vision**
- **Convey Need**
- **Foster Lean Learning**
- **Make the Commitment**
- **Obtain Senior Management Buy-in**



Enterprise Level Roadmap

Entry/Re-entry Cycle

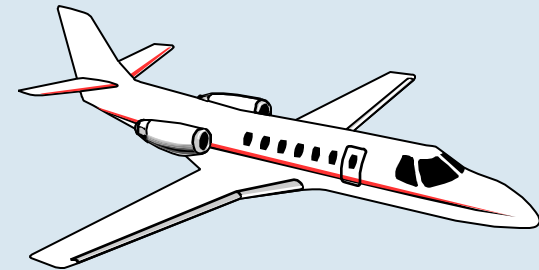
Long Term Cycle





Focus on the Value Stream

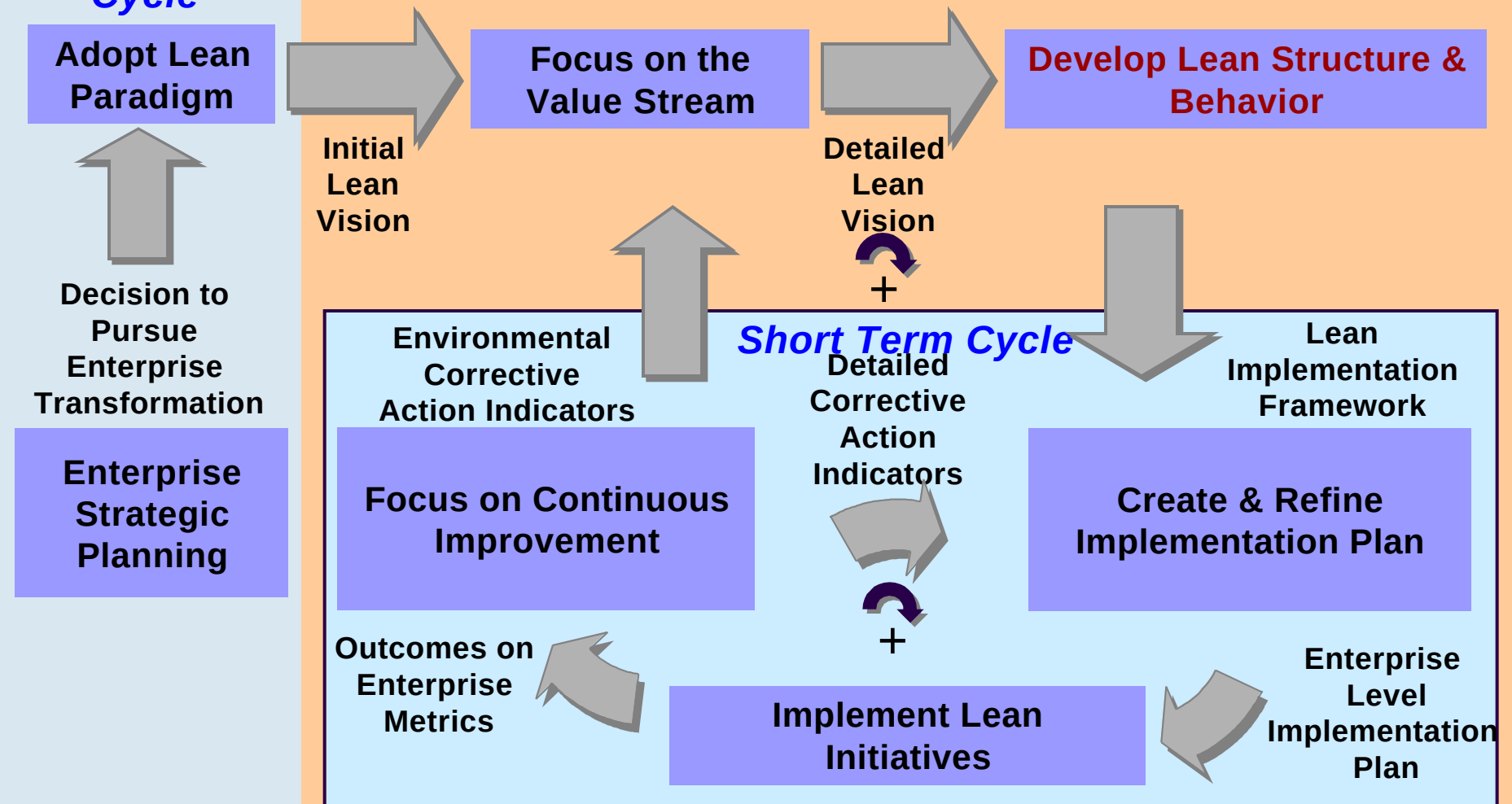
- **Map Value Stream**
- **Internalize Vision**
- **Set Goals & Metrics**
- **Identify & Involve Key Stakeholders**



Enterprise Level Roadmap

Entry/Re-entry Cycle

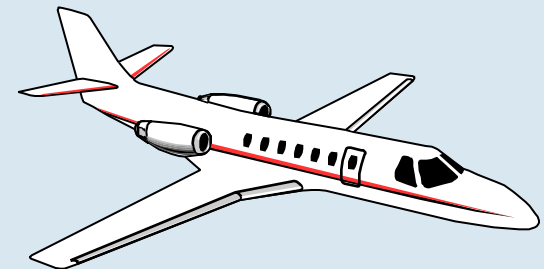
Long Term Cycle





Develop Lean Structure & Behavior

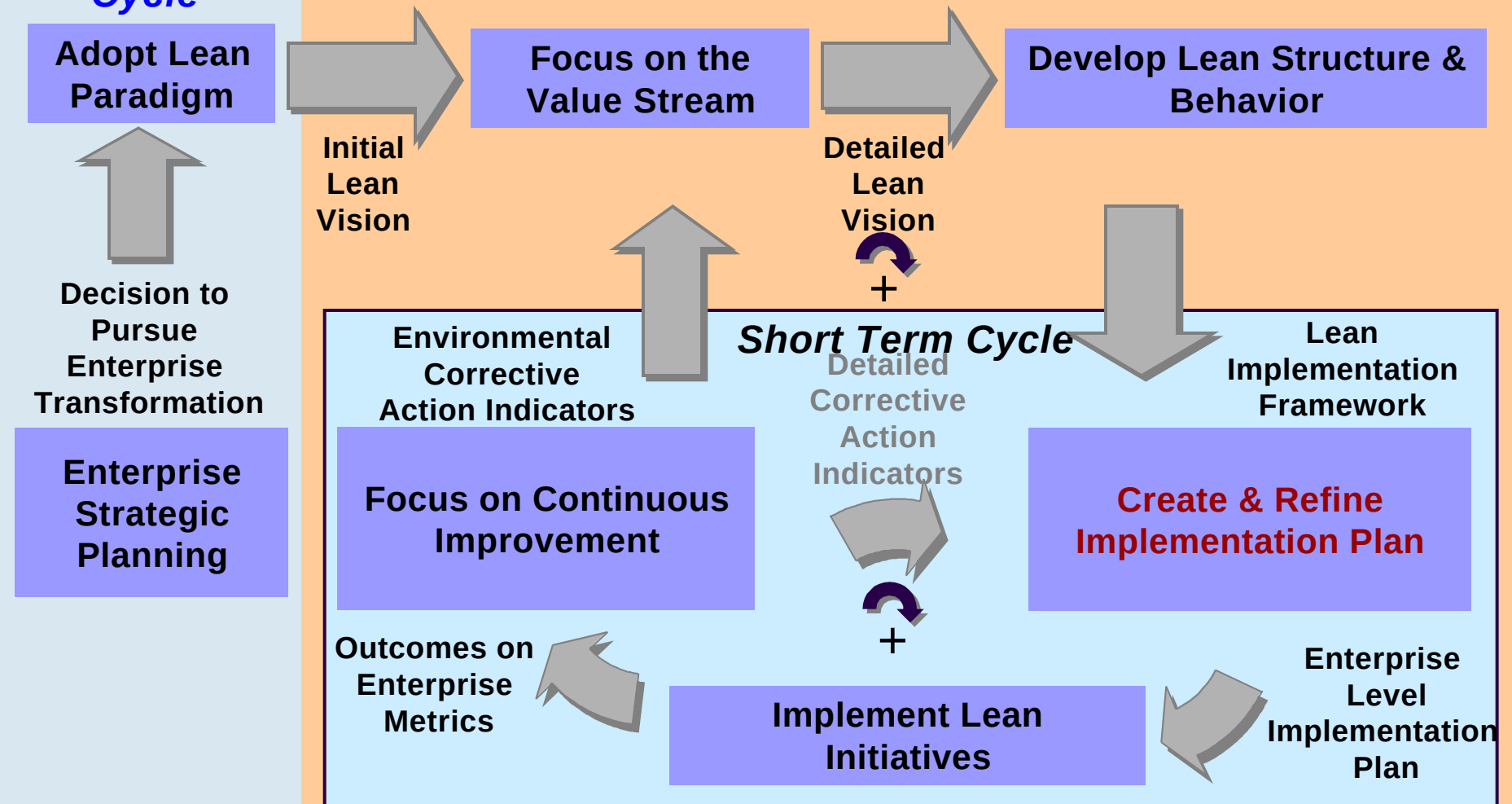
- **Organize for Lean Implementation**
- **Identify & Empower Change Agents**
- **Align Incentives**
- **Adapt Structure & Systems**



Enterprise Level Roadmap

Entry/Re-entry Cycle

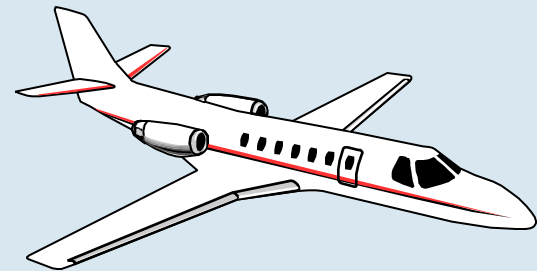
Long Term Cycle





Create & Refine Implementation Plan

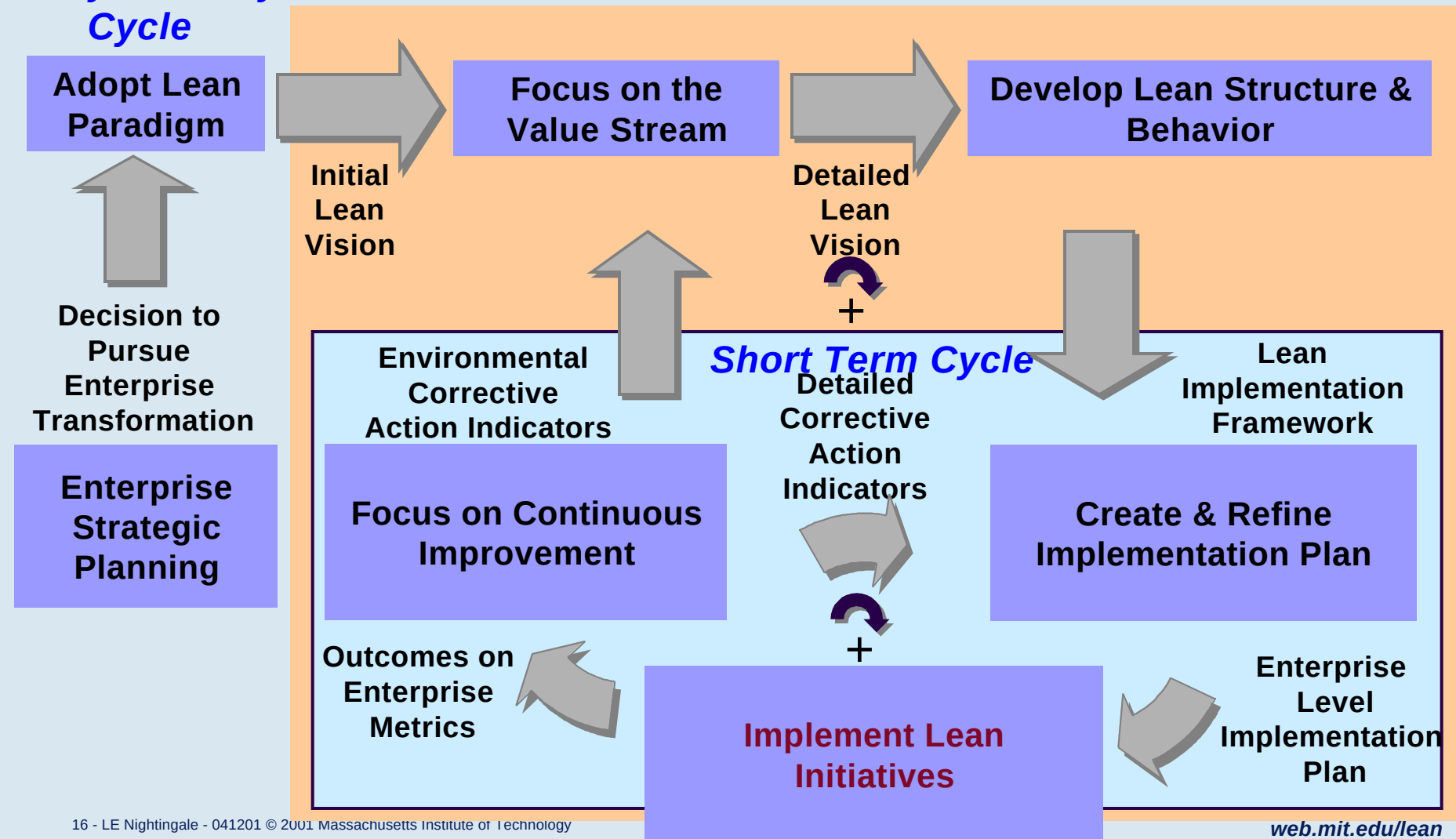
- **Identify & Prioritize Activities**
- **Commit Resources**
- **Provide Education & Training**



Enterprise Level Roadmap

Entry/Re-entry Cycle

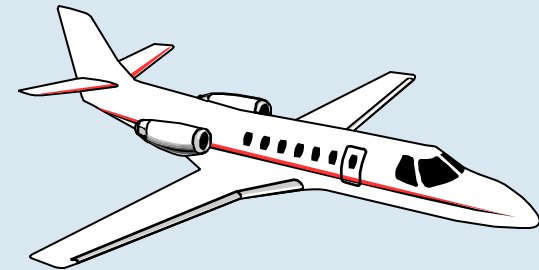
Long Term Cycle





Implement Lean Initiatives

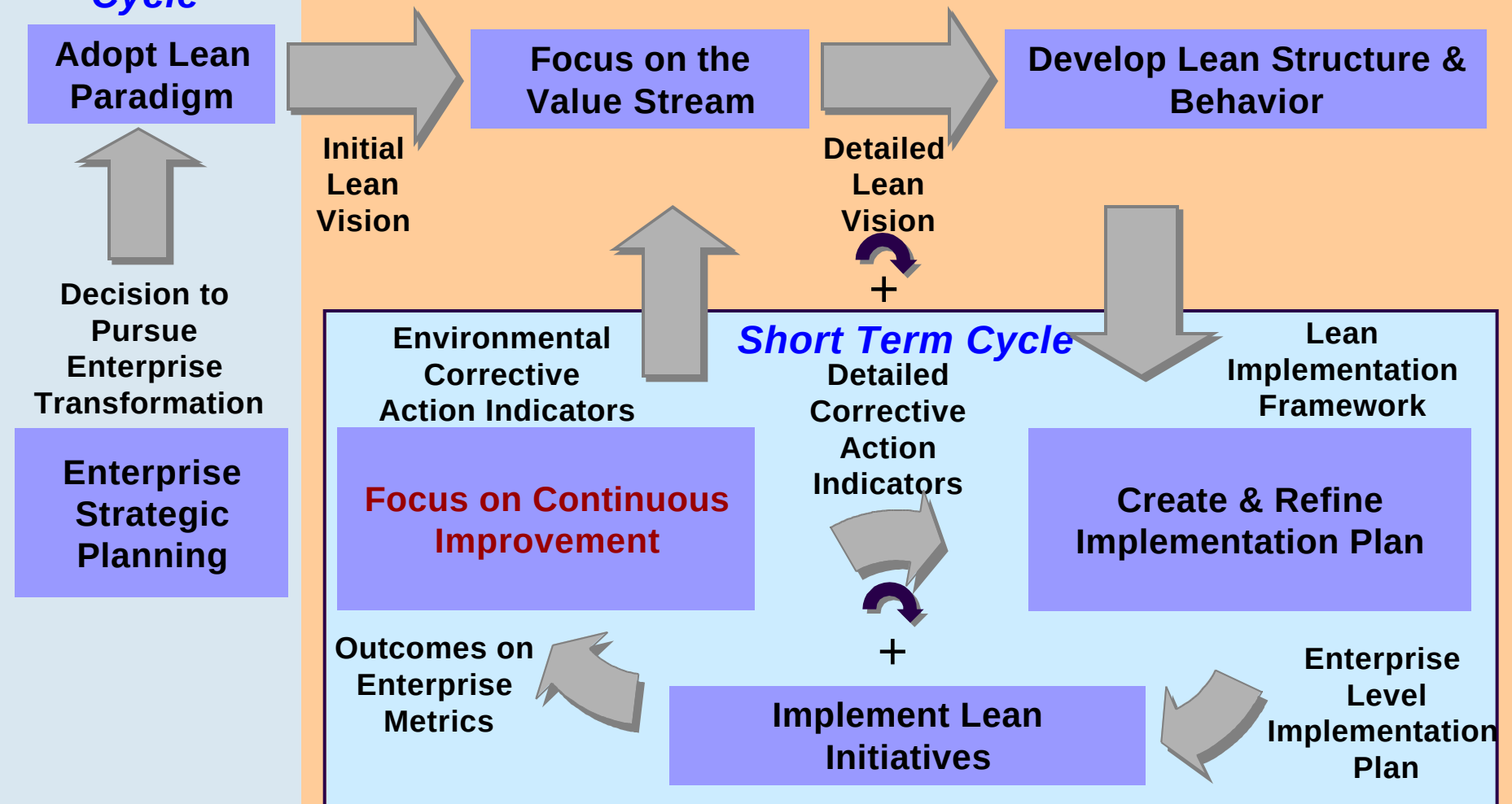
- **Develop Detail Plans**
- **Implement Lean Activities**



Enterprise Level Roadmap

Entry/Re-entry Cycle

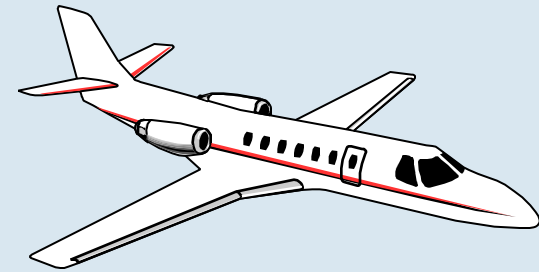
Long Term Cycle





Focus on Continuous Improvement

- **Monitor Lean Progress**
- **Nurture the Process**
- **Refine the Plan**
- **Capture & Adopt New Knowledge**





Enterprise Level Roadmap

Entry/Re-entry Cycle

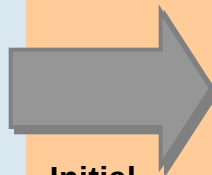
Adopt Lean Paradigm

- Build Vision
- Convey Urgency
- Foster Lean Learning
- Make the Commitment
- Obtain Senior Mgmt. Buy-in



**Decision to
Pursue
Enterprise
Transformation**

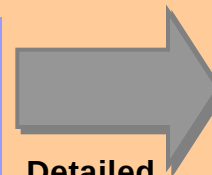
**Enterprise
Strategic
Planning**



**Initial
Lean
Vision**

Focus on the Value Stream

- Map Value Stream
- Internalize Vision
- Set Goals & Metrics
- Identify & Involve Key Stakeholders



**Detailed
Lean
Vision**

Develop Lean Structure & Behavior

- Organize for Lean Implementation
- Identify & Empower Change Agents
- Align Incentives
- Adapt Structure & Systems



Long Term Cycle

Short Term Cycle

**Environmental
Corrective
Action Indicators**

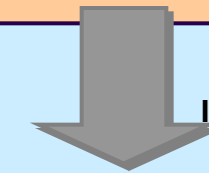
Focus on Continuous Improvement

- Monitor Lean Progress
- Nurture the Process
- Refine the Plan
- Capture & Adopt New Knowledge

**Detailed
Corrective Action
Indicators**



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**Lean
Implementation
Framework**

Create & Refine Implementation Plan

- Identify & Prioritize Activities
- Commit Resources
- Provide Education & Training

**Outcomes on
Enterprise
Metrics**



Implement Lean Initiatives

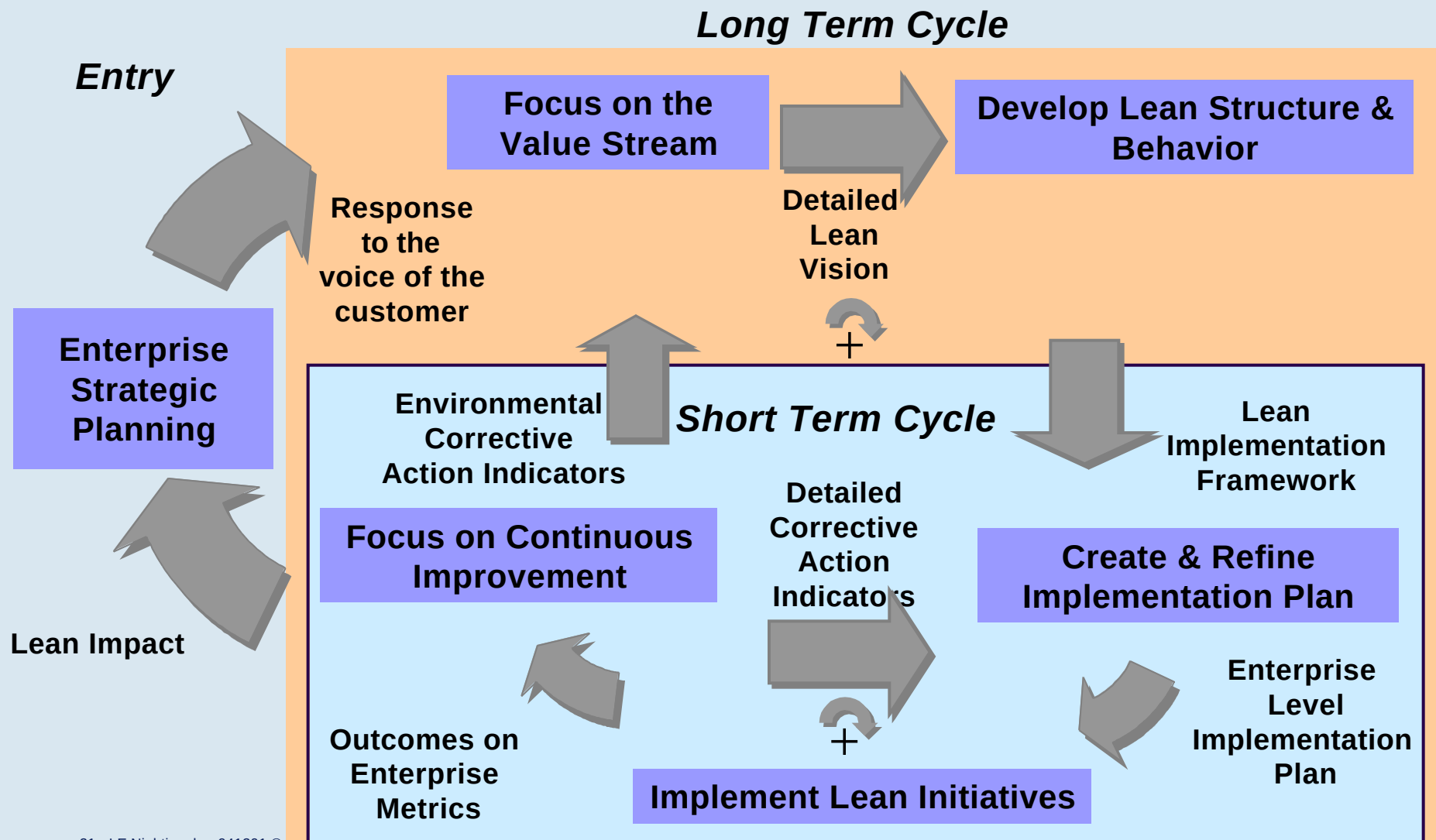
- Develop Detailed Plans
- Implement Lean Activities

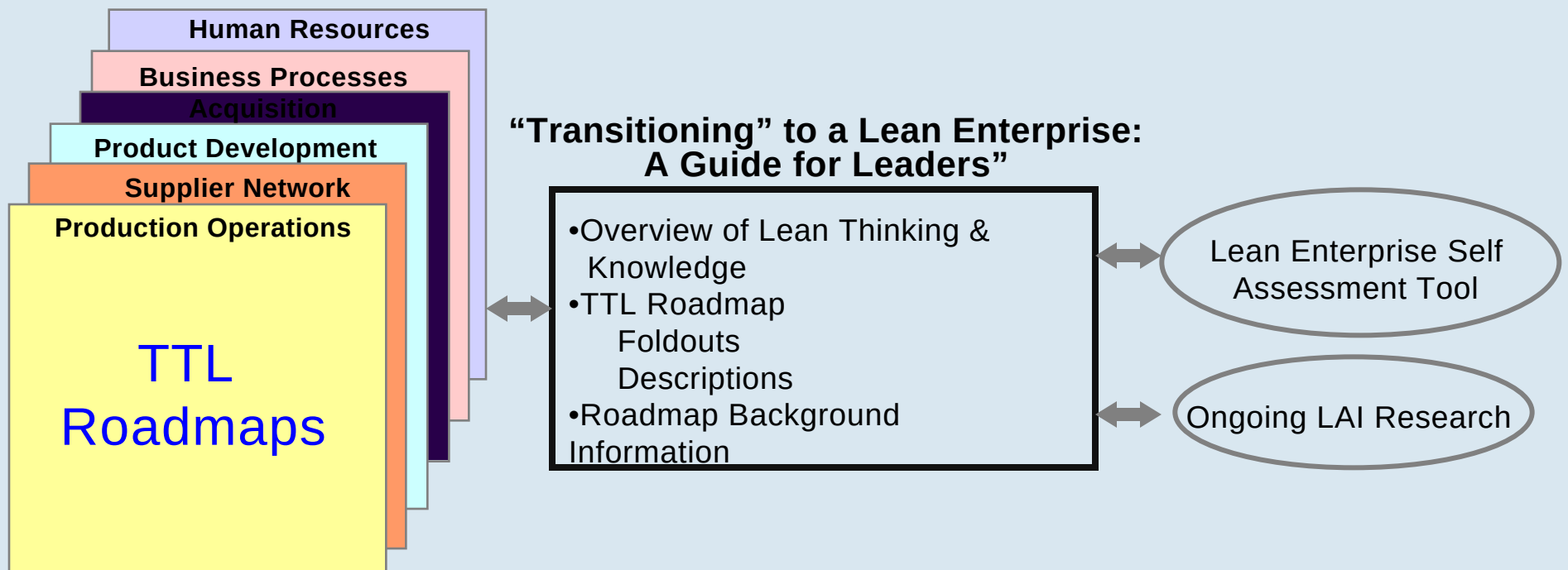


**Enterprise
Level
Implementation
Plan**

Enterprise Level Roadmap

The On-going Lean Enterprise





- **Great tool for facilitating enterprise focus**
- **Consistent with enterprise experience**
- **Increased understanding of “what went wrong”**
- **Liked focus on people/leadership issues**
- **Being used as enterprise-wide transition framework**