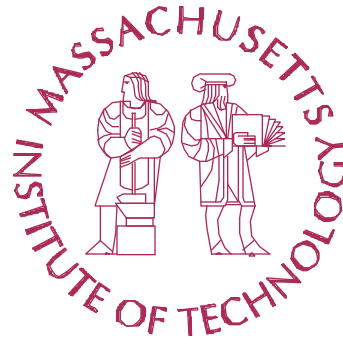


Lean Aerospace Initiative Plenary Workshop

Lean Implementation



October 15, 1998

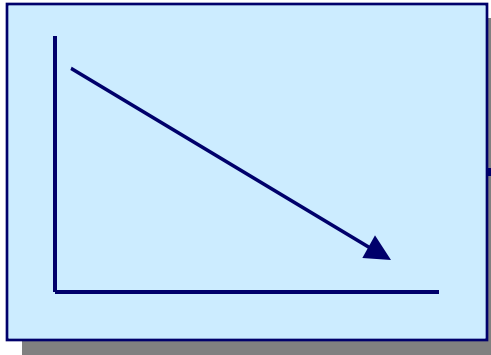
**Presented By:
Debbie Nightingale
MIT**

Research Sponsored By LAI



LAI is Evolving its Focus to Implementation

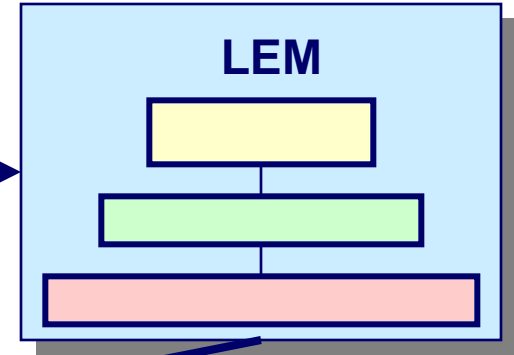
WHY



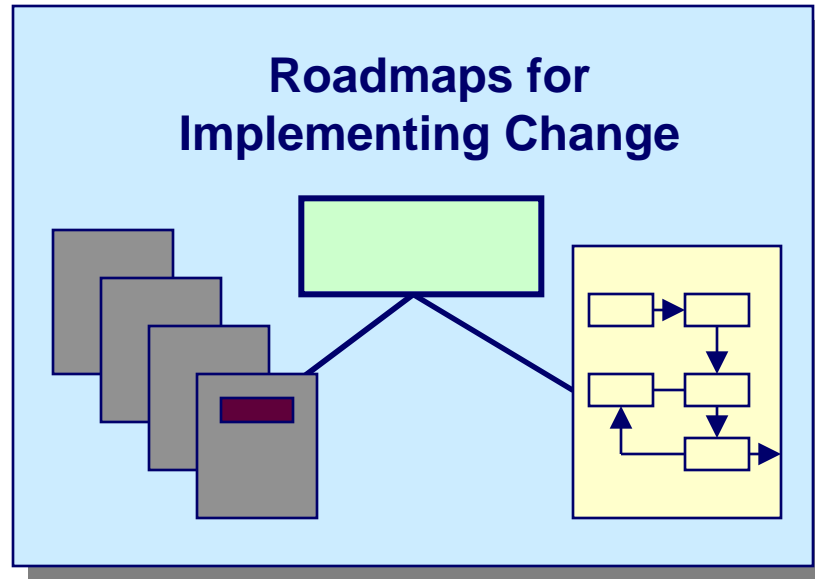
WHO



WHAT



HOW





Key Elements of Implementing Lean

- **Organizational Transformation**
- **Implementation Strategies**
- **Tools/Models**
- **Lessons Learned/Best Practices**
- **Communication**
- **Training**



Key Elements of Implementing Lean

- **Organizational Transformation**

- *Steps Necessary to Produce Viable Culture Change*

Ed Schein, Sloan School of Management

- **Implementation Strategies**

- *Panel Discussion/Group Feedback*

Chris Cool

Ernie Oliveira

Michael Gass

Edgar Schein

- **Tools/Models**

- *LEM Transition-to-Lean Module*

Debbie Nightingale

- *A Rapid Prototype for Lean Transition*

Dan Shunk, Arizona State University



Key Elements of Implementing Lean

- **Lessons Learned/Best Practices**
 - *Implementation IPT*
Joel Cutcher-Gershenfeld, MIT
- **Communication**
 - *Communication IPT*
Deneen Silvano, MIT and Jim Everett, TRW
- **Training**
 - *Lean Training Module*
Bob Reifenberg, ManTech



Lean Implementation Panel

- **Chris Cool, Vice President, Lean Implementation**
 - **Northrop Grumman**
- **Michael Gass, Vice President, Product Operations**
 - **Lockheed Martin Space**
- **Ernie Oliveira, Leader of Manufacturing Initiatives**
 - **General Electric**
- **Edgar Schein, Professor Emeritus**
 - **M.I.T., Sloan School of Management**