Multi-Platform Thinking:
Integrating the Lean Enterprise

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Motivation: Applying Lean Concepts in a Multi-Program Enterprise

- Multi-platform *enterprise level challenges* in the design of system architectures, technologies, manufacturing processes and supplier networks.

- Meeting increased commonality and interoperability needs.

- Managing increased complexity across multiple platforms.

LM – JSF

LM – F-22

Focus: Knowledge Management Across Program Boundaries

- Horizontal *Knowledge Integration* across programs/platforms:
    - Create, Capture, Share and Re-Use Knowledge across programs
    - Integrate Digital Design and Manufacturing Processes

- Fostering Innovation
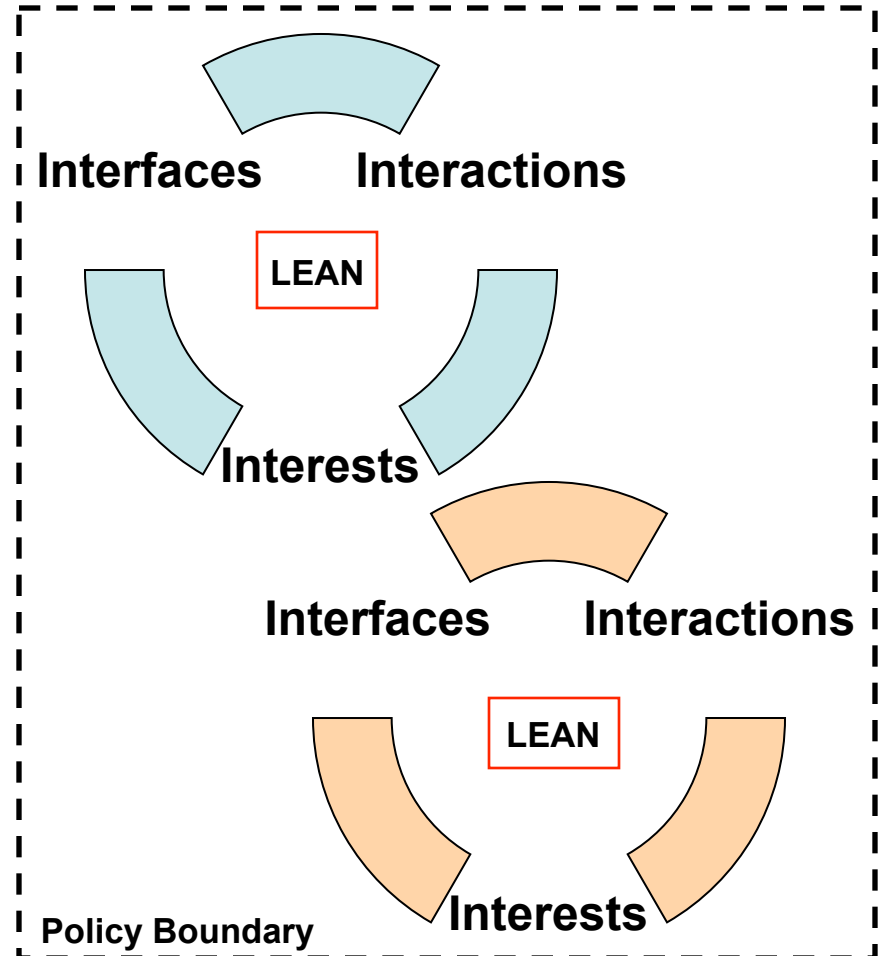
- Interoperability of Solutions
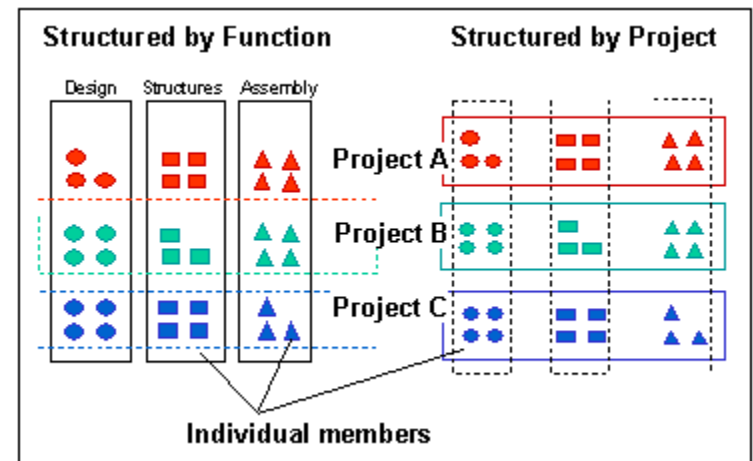
Goals: Best Practices for Architecting Lean Multi-Program Enterprises

Defining and Validating:

- Effective Methods

- Practices

- Metrics

For Integrating the Multiple-Product:

- Development

- Production

- Support

Interfaces   Interactions

LEAN

Interests

Interfaces   Interactions

LEAN

Interests

Policy Boundary

Research Methodology:

- ## Literature Search:
  - Identifying and Integrating Applicable Bodies of Work

- ## Interviews / Survey:
  - Learning Challenges at Enterprise Level

- ## Case Study:
  - Gathering Data at Interfaces of a Multi-Program Enterprise
  - Learning Dimensions: Supply Chain Design, Coordination Mechanisms.

- ## Benchmarks:
  - Comparing against a Standard of Lean Enterprise Architecture

Key: Your Participation and Feedback is Needed

Expected Research Benefits:

Thrust towards:

- Program to Enterprise Lean
  (Global versus Local Optimization)

- Maximizing Learning across the Enterprise

- Integrating on multiple levels

- Commonality in Products and Organizations

- Interoperability in Products and Solutions

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