Creating High Performance X-Enterprises
Applying X-Team Theory to Aerospace Programs

High Performance Teams Designed to Manage Across Boundaries are X-Teams

External Activity
Ambassadorial activity involves managing upward to market the team and lobby for resources
Scouting activity to gather information inside and outside the organization
Task Coordination activity manages laterally with other teams and functions

Extensive Ties
Strong Ties facilitate coordination and transfer of complex knowledge
Weak Ties help identify sources of unique knowledge

Expandable Structure
Core Tier maintains team history, strategy, and key decisions
Operational Tier perform on-going work
Outer-net Tier contribute on an ad hoc basis to provide specialized expertise

Flexible Membership
Team members transfer between tiers as well as on and off the team

Mechanism for Execution
Integrative meetings, transparent decision making, and scheduling tools are used to coordinate internally between members and tiers

What Does an X-Enterprise Look Like?

External Activity
• Maintaining credibility
• Involving all stakeholders
• Identifying core competencies and sources of expertise

Extensive Ties
• Utilizing and integrating the knowledge network of the entire enterprise

Expandable Structure
• Core tier: system integrator, customer, major partners
• Operational tier: supplier network
• Outer-net tier: end user, R&D groups, government policy makers and others

Flexible Membership
• Level of activity and involvement based on enterprise needs not organizational boundaries

Mechanisms for Execution
• Accessible information through common information sharing infrastructure
• Distributed leadership based on flow-down of responsibility, authority, and accountability
• Management support mentality to enable execution
• Integration meetings focused on performance metrics and a shared approach to risk management

Internal Integration
• Rigorous application of systems engineering principles
• Single focus on objective of delivering value to the customer instead of various organizational goals
• Relationship building through communities of practice

Research Design

Key Questions
How do X-enterprises differ from X-teams?
Are X-enterprise characteristics indicative of enterprise performance?

Phase 1) Mini-cases (~3 interviews) in 4-6 programs in each sector to identify distinguishing enterprise factors and refine X-enterprise characteristics

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Phase 2) In-depth case studies (20-30 interviews) of 6 programs to explore application of X-enterprise concepts; programs will be selected to set up a paired comparison to investigate X-enterprise characteristics as indicators of enterprise performance

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Contact: Alexis Stanke  astanke@mit.edu
Advisor: John Carroll