Productivity improvement leverage

- **Reduce Complexity**
  - Productivity: 2x – 10x
  - Timeframe is Years
  - Cost to Implement: 25%-50%
  - Much culture change

- **Increase Agility**
  - Productivity: 25-100%
  - Timeframe is Quarters
  - Cost to Implement: 10%-35%
  - Some culture change

- **Improve Collaboration**
  - Productivity: 15-35%
  - Timeframe is Months
  - Cost to Implement: 5%-10%
  - Predictable

- **Add Automation**
  - Productivity: 5-25%
  - Timeframe is Weeks
  - Cost to Implement: <5%
  - Very predictable

**Economic Impacts**

- Organization
- Project
- Team
- Individual
Model-Based System Engineering Leverage

Reduce Complexity
- Feature anatomy
- Reusable assets
- Simplify views
- Separate concerns
- Integrate behaviors

Increase Agility
- Measured trends
- Reduced cycle time from model to code
- Change management

Improve Collaboration
- Semantically rich representations
- Consistent language
- In-context review

Add Automation
- Automated instrumentation
- Automated testing
- Automated traceability
- Automated change propagation

Opportunities
- Systems growth
- Reuse governance
- Legacy architectures and assets

Challenges
- Regulatory constraints
- Procurement inertia
- Team distribution
- Buyer-customer inclusion
- Platform integration
- Security assessment