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Beyond CMMI

Flawless Execution In The Information Age

NDIA/SEI
CMMI® Technology Conference and User Group

Presented by:
Dr. John Tracy
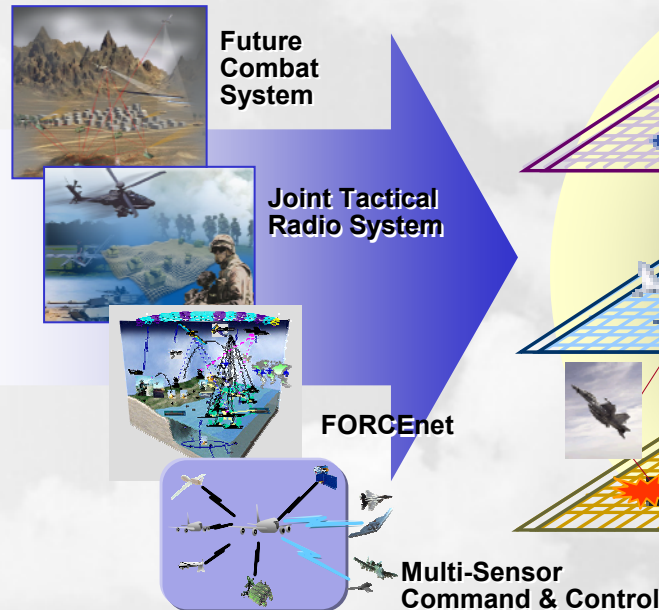**Vice President, Engineering**
Boeing Integrated Defense Systems

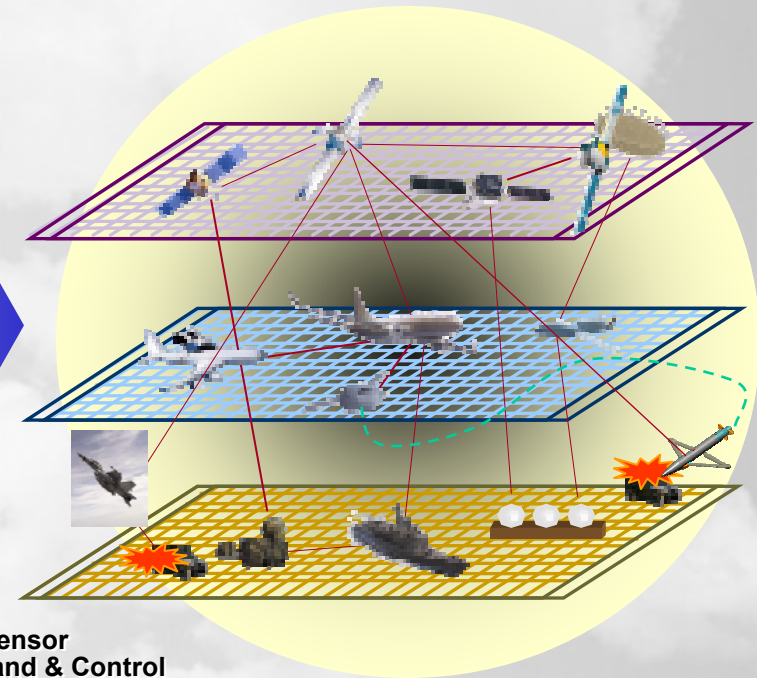**November 16, 2004**

Customers Demand Integrated Systems

Today

Tomorrow

Fighters

Transport

Helicopters

Communication

Surveillance

Bombers

Command & Control

Launch

Weapons

Transformation Programs

Future Combat System

Joint Tactical Radio System
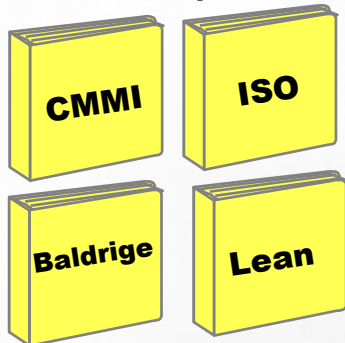
FORCEnet

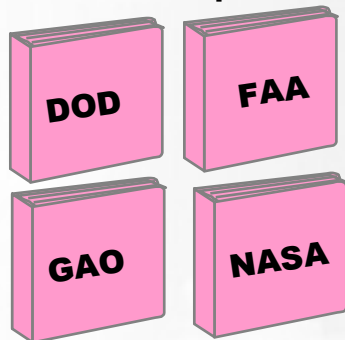Multi-Sensor Command & Control

The resulting System of Systems must work flawlessly

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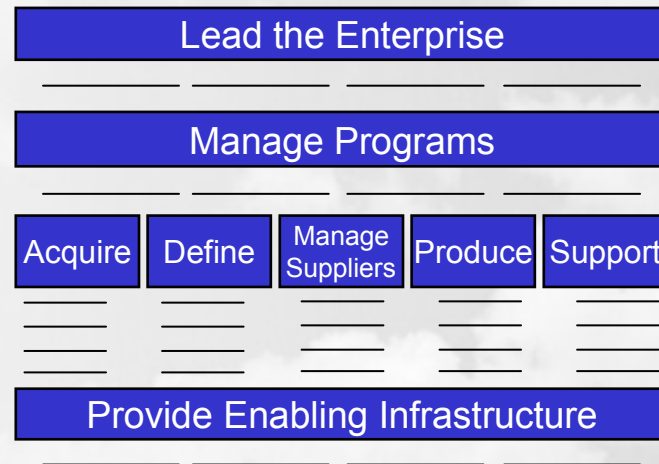# CMMI And Other Process Models Tells Us What To Do To Improve Our Business

External Requirements

CMMI   ISO

Baldrige   Lean

Customer Requirements

DOD   FAA

GAO   NASA

Enterprise Process Model

Lead the Enterprise

Manage Programs

| Acquire | Define | Manage Suppliers | Produce | Support |

Provide Enabling Infrastructure

Product and process teams are provided everything required at start
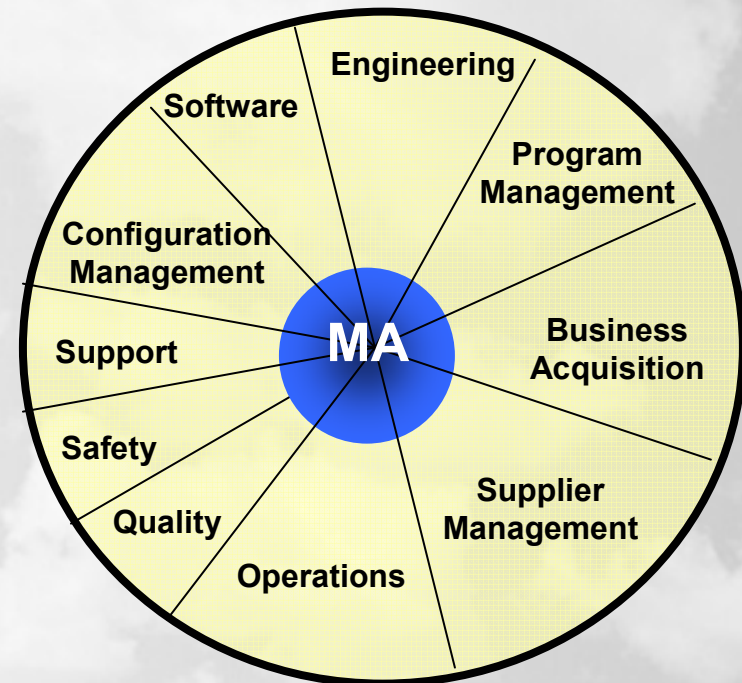
Disciplined performance is the easiest and most efficient way to work

Beyond CMMI We Empower Teams Of Individuals

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Mission Assurance Office Provides the Checks and Balances to Achieve Mission Success

Mission Assurance Office Focus Areas

➤ Assures best practices from each discipline are in use

➤ Aids programs in focusing on key risk areas

➤ Supports programs through independent non-advocate reviews, independent risk assessments, and technical integrity verification

➤ Assists with issue prevention by looking at trends across the enterprise

In the Global sense, Mission Assurance is part of everyone's job: Everyone has personal ownership of their product and shares in the program execution goal of obtaining 100% mission success

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Our Employee Teams Consistently Overachieve

Examples of Fully Engaged Employee Involvement Teams	Problem	Goal	Achieved
Navy systems			
Special Manfacturing Instruction	95%	98%	99.7%
Automated Tool Order	89%	98%	99.0%
Model Based Instruction	92%	98%	100.0%
Aerospace Support			
Drawing Release	53%	98%	99.7%

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Boeing IDS Has Made CMMI A Pillar Of Our Process Improvement Approach

- **Enterprise Goal:**
  - All major sites at CMMI Level 5 using all four components, SE, SW, IPPD, and SS by end 2005

- **Enterprise Status** (13 major sites):
  - Four at Level 5
  - One at Level 4
  - Eight appraisals before December 31
    - Possibly five more at Level 5

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Process Improvement Is Nothing New

- This is Deming – Applied in the information age

- Our systems are more complex and demand integration on a larger scale

- Our need for continuous improvement is the same

We must empower our teams within a system of systems that intrinsically self regulates to create absolute mission assurance

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