

Technology Transition

Challenges From An Industry Perspective

Greg Churchill March 5, 2003





- Transformation is Changing the Way of Doing Business
 - Transition to a Capability verses
 Program/Platform Focus
 - Institute Streamlined Acquisition/Spiral Development
 - Accelerate Delivery of Technology to the Warfighter
 - Move Towards a Network-Centric Warfare Construct



- Protect Homeland and Bases
- Project Power
- Deny Sanctuary
- Protect Information Networks
- C4ISR Interoperability
- Unhindered Access to Space

- Secretary of Defense Donald H. Rumsfeld

Implications for Industry: Responding to Military Transformation

- Develop Greater Understanding of Military's CONOPS
 - Get Involved Early
- Actively Participate in Requirements Definition
 - Not Only Understanding How the System Must Operate <u>But Also</u> . . .
 - The Environment in Which the System Must Operate

Implications for Industry: Responding to Military Transformation

- Design Today's Systems to Meet Evolving Future Requirements
 - Open Architectures: Quicker Upgrades
 - Commercial-Off-The-Shelf: Cheaper
 - -Flexible: Accommodates Growth
 - -Network-Enabled: Interoperability
 - -Security: At Multiple Levels

Old Paradigm: Program/Platform Centric

- -Military
 - Defines Requirements
 - Develops Detailed Specs
- Industry
 - Responds to Specs
- -Results
 - Single-Point Solutions



- Transformation Paradigm: Capabilities Centric
 - Military and Industry Team to Define
 Operational Effects and Capabilities to
 Achieve Them
 - Dynamic Specifications Accommodate Future System Growth

– Results

Open, Flexible Solutions

Military and Industry Must Change Our Thinking and Behavior

Joint Tactical Radio System (JTRS): A Transformational Program

- Army Held an Extensive Dialogue With Industry
 - Described Program Requirements
 - Sought Feedback to Shape the Procurement
- Army Established the Procurement on "Performance-Based Requirements"
 - Allowed Industry Freedom to Define the Solution
- Rockwell Collins, as Part of the Boeing Team, Proposed an Innovative, Modular Solution
 - Will Save the Army Several Billion Dollars in Life Cycle Costs



JTRS: A Transformational Program

✓ Awarded

Vehicular & Rotary Wing Cluster (U.S. Army)



Follow-On Applications

Airborne Cluster (U.S. Air Force)

Maritime Cluster (U.S. Navy)

Handheld Cluster (All U.S. Forces)

- Open Architecture
- Programmable/Reprogrammable
- Dynamic Specifications
- Flexible Design
- Network Centric (WNW)
- Reduced Life-Cycle Cost

Questions?



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