

Annual Investor Conference  
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Missile Defense SBA

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# Missile Defense SBA Overview

## Description & Definition

- Partner with MDA Customer to Shape the Future of Ballistic Missile Defense
- Develop and Oversee Execution of Coordinated, One-Company Strategy to Maximize Raytheon's Opportunity in the Marketplace

## Current Environment

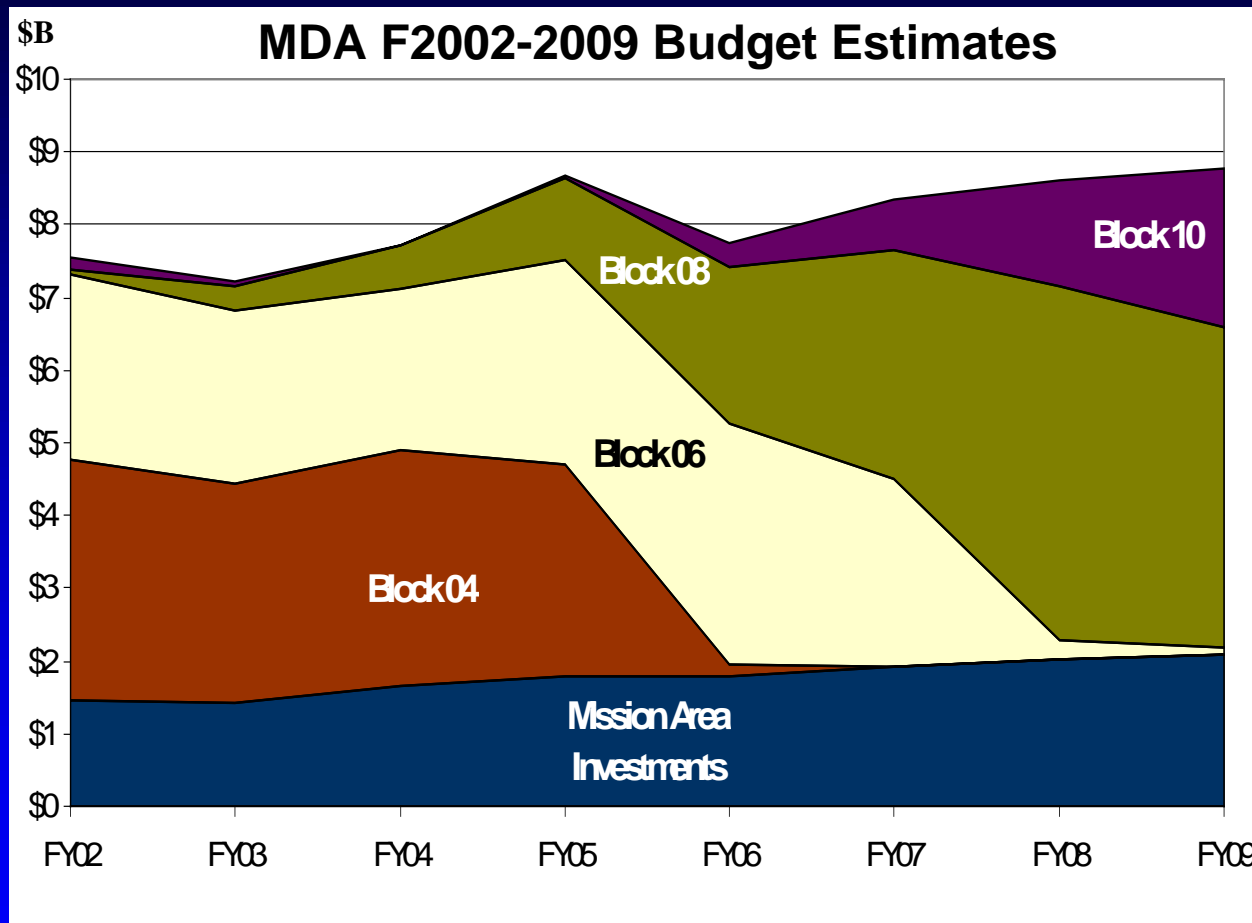
- Major Threats
  - Korea
  - Asymmetric Threats
- Opportunities
  - ABM Treaty abrogation
  - Targets and Countermeasures
  - KE Boost
  - Forward and Sea-based architecture development

## 2002 Accomplishments

- Sea-Based XBR
- Project Hercules

**Customer Partnering Creates Success**

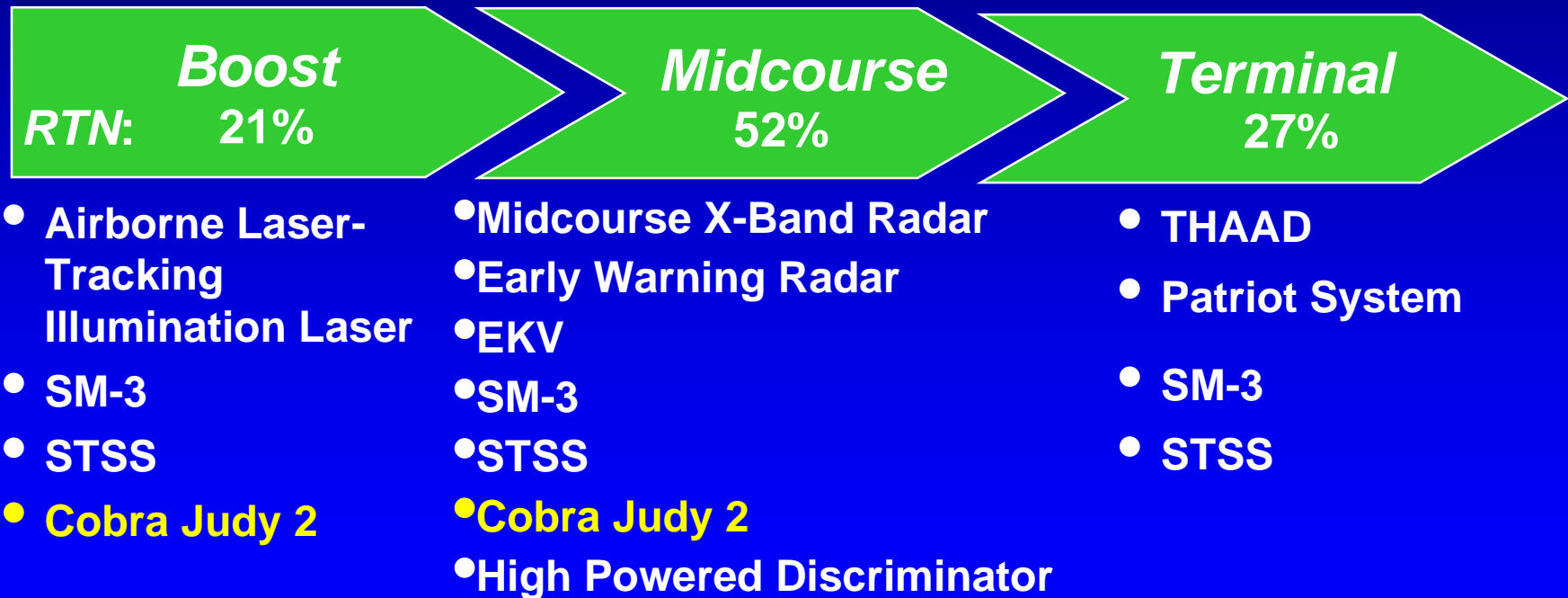
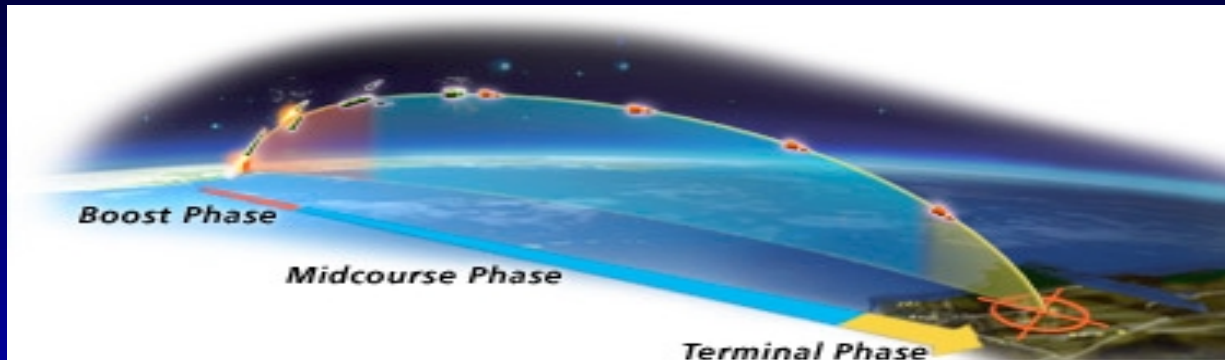
# Missile Defense Opportunity



- Raytheon is 15% of MDA Budget
- Initial Capability for 2004-2005 Requires \$1.5B in Additional Funding
- Near-Term Focus on Development of Block 2004 Test Bed
- Emphasis on Development vs. Deployment
- Architectures in Flux – MDA moving Toward Boost

**Major Opportunities in 2003 & Beyond**

# Mission Value Chain



**Raytheon Products and Technology Span the Entire Mission**

# Raytheon's MD Portfolio

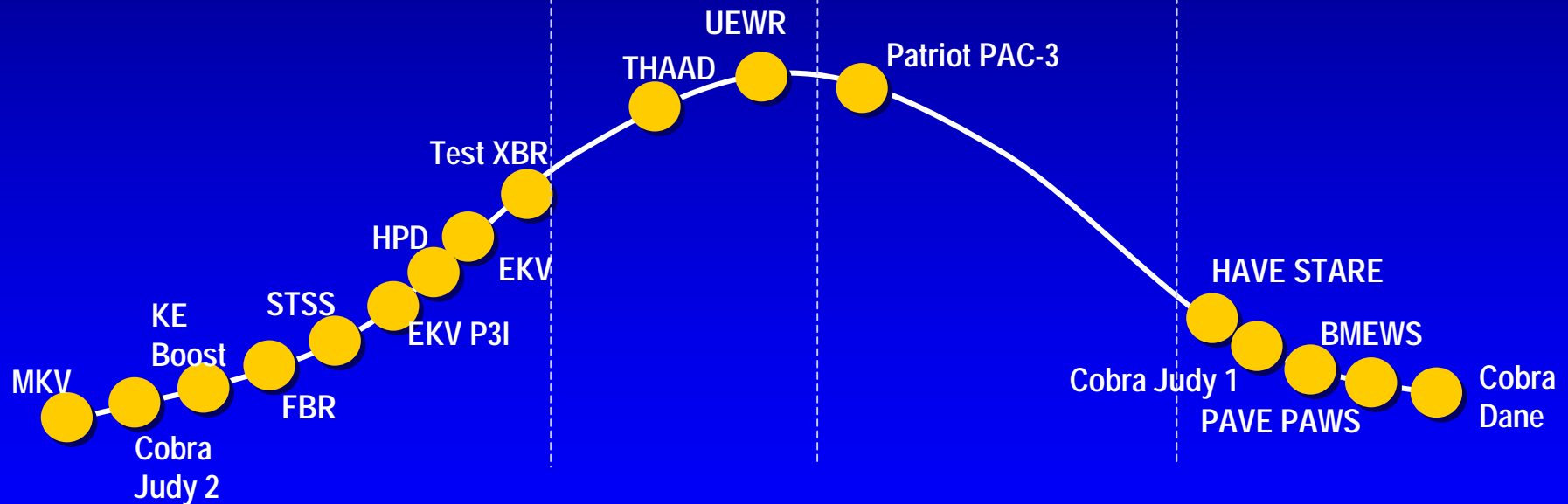
## Program Portfolio\*

**R&D**

**EMD/  
LRIP**

**Full-Rate  
Production**

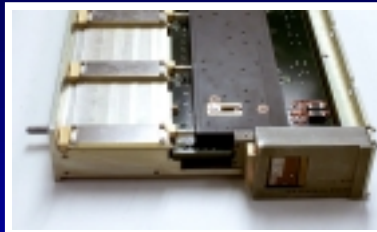
**Sustainment**



\*Selected programs only

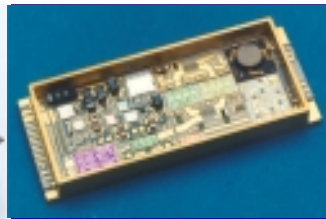
**Raytheon Well Positioned to Grow**

# Technology Migration



## 3-5 Years Ago

- T/R Modules
- Initial Real-Time Demonstration of Discrimination
- Kill Vehicle First Intercept



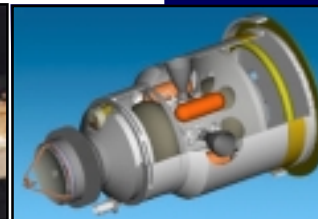
## TODAY

- Best of Breed T/R Module
- Radar/Missile Handover
- Independent Radar & Missile Discrimination Capability



## 3-5 Years Ahead

- Common Interceptor
- Advanced Counter-Countermeasures
- Alternate Architectures
- Open Architectures
- Semi-Active Discrimination
- Advanced Radars, T/R Modules, Power Systems
- Solid State Lasers
- High Density Electronics

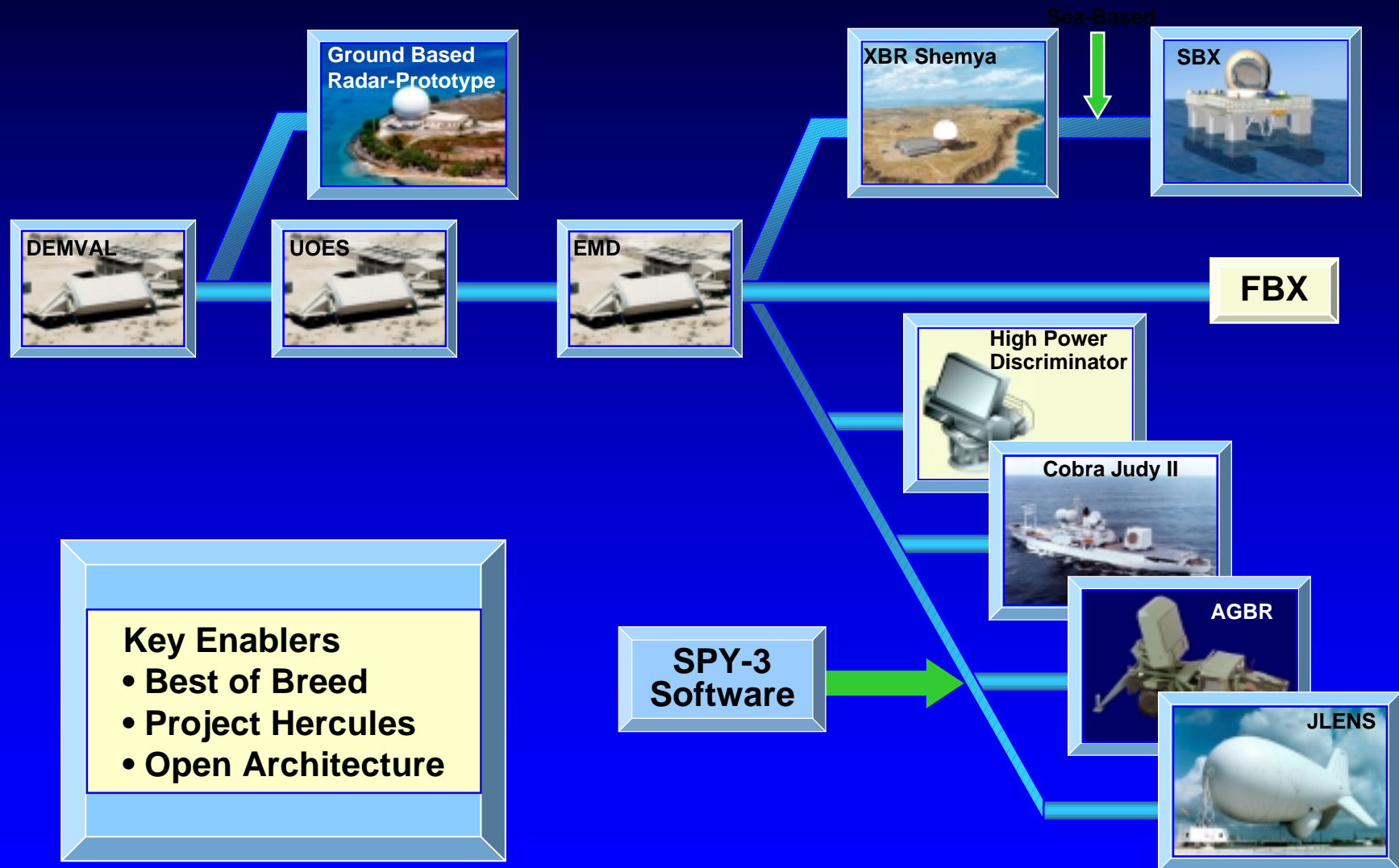


## Next Generation

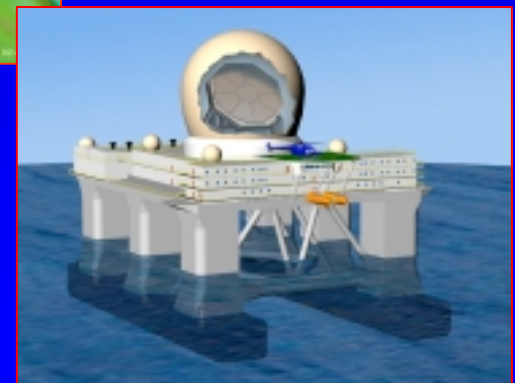
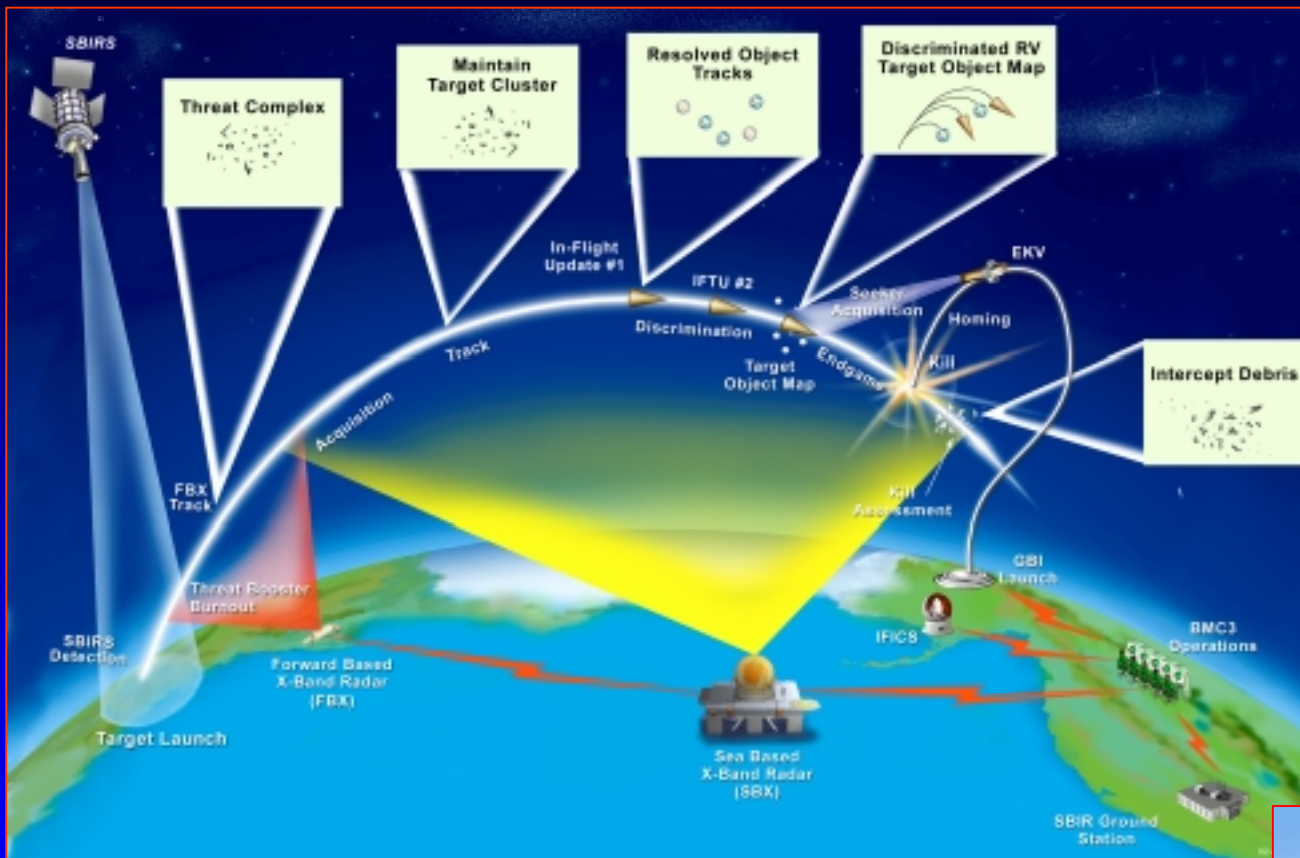
- Miniature Kill Vehicles
- Interactive Discrimination
- New System Concepts
- LADAR
- Space-Based Radar
- Space-Based Laser

**Building on a Heritage of Innovation**

# Radar System Evolution Fuels Growth

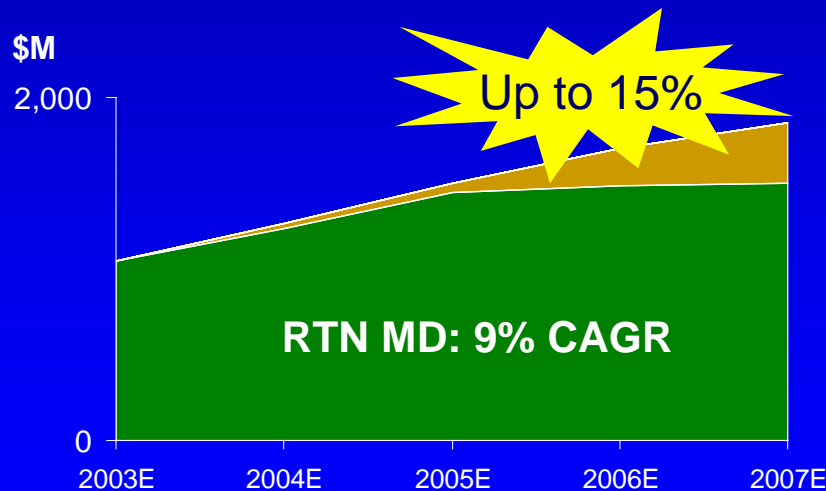
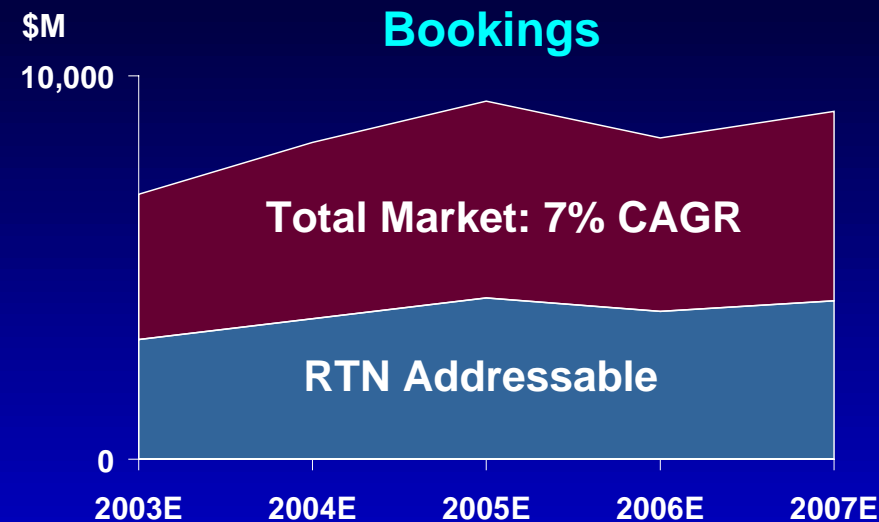


# Sea Based Test X-Band Radar





# Missile Defense SBA Opportunity



## 2003 Focus

- Execution/Quality/Costs
- Capability-based
- MDA Common/Family of Radars
- Alternative Architectures and Basing Strategies
- Boost Phase Intercept

## Major Future Activities

- Block '04 Testbed
- Block '06 and beyond expanded capability
- Targets & Countermeasures
- KE Boost
- Project Hercules
- Forward & Sea-based Architecture Development

**Raytheon is Well Positioned for Growth in MDA**

# Integrated Defense Systems (IDS)

# IDS Business Overview

- Provide Air and Missile Defense, Naval and Maritime War-Fighting Systems
- Streamlines the Organization and Creates “Families” of Products and Systems that Provide Unique Customer Solutions
- Combines the Former A/MDS and N&MIS
- 10,000 employees
- Major sites
  - Tewksbury, MA (Hdq)
  - Andover, MA
  - Bedford, MA
  - Sudbury, MA
  - Portsmouth, RI
  - Huntsville, AL
  - New Orleans, LA
  - San Diego, CA
  - Keyport, WA
  - Sidney, Australia
  - Kiel, Germany
- 34 countries
- 2,200+ contracts
- 2002 revenue \$2.4B



**Increase Focus on Customers And Position the Business for Growth**

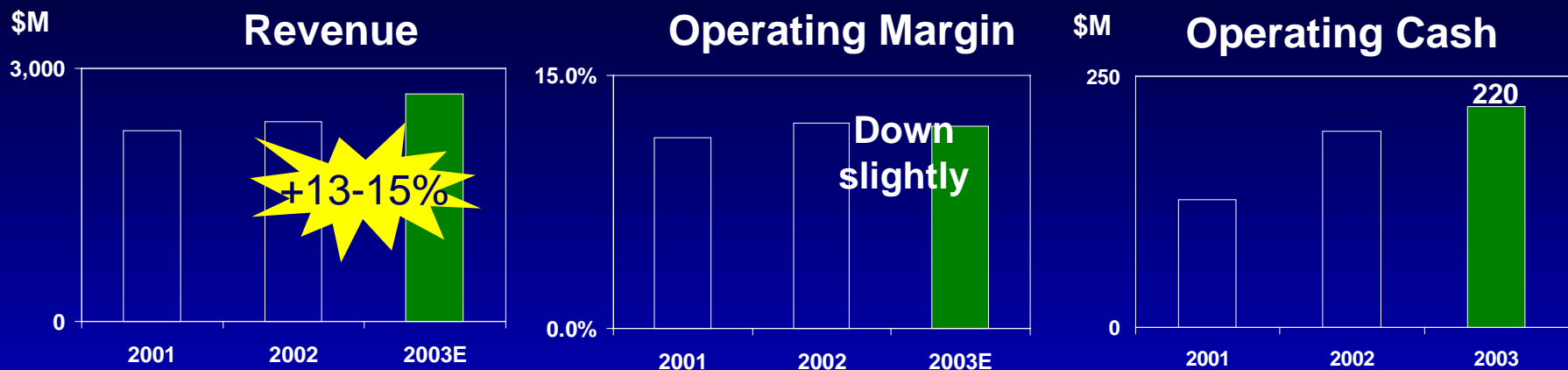
# DD(X)

- Partnering led to program win worth \$1.3B and will lead to successful execution and Best of Breed technologies for the U.S. Navy
- Unique business model to engage partners and promote collaboration
  - Northrop Grumman
  - Raytheon
  - Bath Iron Works
  - Lockheed Martin
  - Boeing
  - UDLP
  - Navy Labs
  - Small Business
- Fully compliant spiral design
- EDM technology validation across a nationwide distributed text network
- At sea demonstration of innovative features aboard demonstrator



**Key Technologies to the Navy's Family of Ships Vision**

# 2003 Outlook



## Growth Drivers

- DD(X) Ramp up and international ship electronics integration program
- Missile Defense programs/initiatives
- Capture of international pursuits
- Ground combat programs

## Key Program Pursuits

Bookings Target \$2.7B

- SBX
- Cobra Judy
- MDA targets and countermeasures
- Saudi HPSSC

\$669M

**Execution, Innovation and Growth**