SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 20549

FORM 8-K

CURRENT REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE

SECURITIES EXCHANGE ACT OF 1934

Date of Report (date of earliest event reported): February 13, 2003

Northrop Grumman Corporation

(Exact Name of Registrant as Specified in Charter)

1-16411

95-4840775

(State or Other Jurisdiction of Incorporation)

(Commission File Number)

(IRS Employer Identification No.)

www.northropgrumman.com

1840 Century Park East, Los Angeles, California 90067

(Address of Principal Executive Offices and internet site)

(310) 553-6262

(Registrant's telephone number, including area code)

Delaware

Item 7. Financial Statements and Exhibits

(c) Exhibits

99.1 Conference Presentation Materials

Item 9.

Pursuant to Regulation FD, Northrop Grumman hereby furnishes the information contained in Exhibit 99.1 attached hereto, which is incorporated herein by this reference.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: February 13, 2003

NORTHROP GRUMMAN CORPORATION (Registrant)

By:

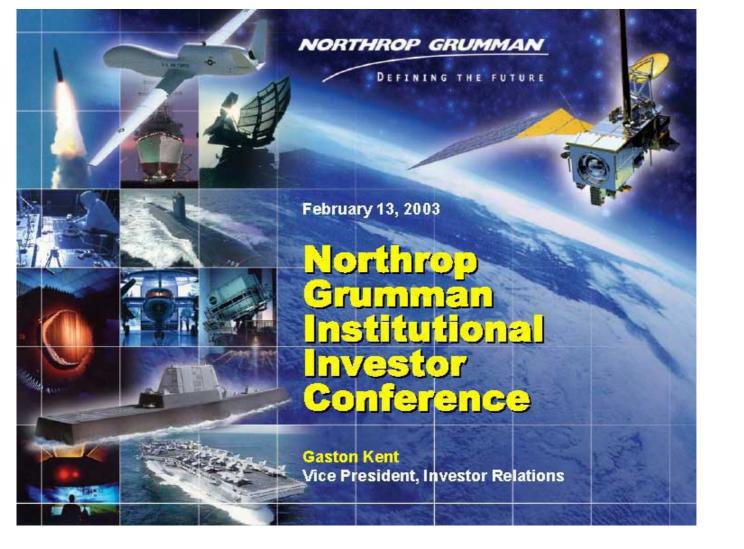
John H. Mullan, Corporate Vice President and Secretary

/s/ JOHN H. MULLAN

Exhibit No. Description

99.1 Conference Presentation Materials

Exhibit Index





Safe Harbor Statement

Certain statements and assumptions in these materials contain or are based on "forward-looking" information and involve risks and uncertainties. Such "forward-looking" information includes, among other things, the impact of the TRW Inc. acquisition on revenues and earnings. Such statements are subject to numerous assumptions and uncertainties, many of which are outside Northrop Grumman's control. These include Northrop Grumman's ability to successfully integrate its acquisitions including TRW, to realize the preliminary estimates for accounting conformance and purchase accounting valuations for TRW which will be finalized in the 2003 fourth quarter and which may materially vary from these estimates, to close its announced sale of the TRW automotive business, assumptions with respect to future revenues, expected program performance and cash flows, returns on pension plan assets, the outcome of contingencies including litigation, environmental remediation, divestitures of businesses, successful reduction of debt, successful negotiation of contracts with labor unions, timing and amounts of tax payments, and anticipated costs of capital investments. Northrop Grumman's operations are subject to various additional risks and uncertainties resulting from its position as a supplier, either directly or as subcontractor or team member, to the U.S. Government and its agencies as well as to foreign governments and agencies; actual outcomes are dependent upon factors, including, without limitation, Northrop Grumman's successful performance of internal plans; government customers' budgetary constraints; customer changes in short-range and long-range plans; domestic and international competition in both the defense and commercial areas; product performance; continued development and acceptance of new products; performance issues with key suppliers and subcontractors; government import and export policies; acquisition or termination of government contracts; the outcome of political and legal processes; legal, financial, and governmental risks related to international transactions and global needs for military aircraft, military and civilian electronic systems and support, information technology, naval vessels, space systems and related technologies, as well as other economic, political and technological risks and uncertainties and other risk factors set out in Northrop Grumman's filings from time to time with the Securities and Exchange Commission, including, without limitation, Northrop Grumman reports on Form 10-K and Form 10-Q and the company's recently filed amendments to Form S-4.

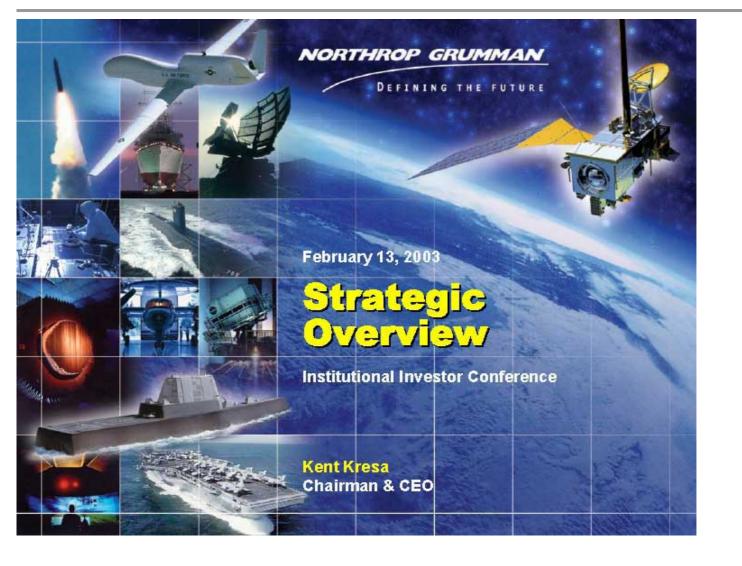


Agenda

8:00 Welcome Gaston Kent 8:05 Strategic Outlook Kent Kresa **Budget Overview** 8:35 Bob Helm 9:00 **Operations Overview** Ron Sugar **Electronic Systems** 9:30 Bob lorizzo 10:00 Break 10:15 **Newport News** Tom Schievelbein 10:45 Ship Systems Phil Dur Information Technology 11:15 Herb Anderson 11:45 Lunch 12:30 **Mission Systems** Don Winter 1:00 **Integrated Systems** Scott Seymour • 1:30 Space Technology Wes Bush **Financial Overview Dick Waugh** 2:00 2:30 Wrap-up & Final Q&A



Video Presentation





Northrop Grumman = New Powerhouse

- Sustainable growth in defense spending
- Best positioned portfolio
- Purest defense play
- Strong relationships with all DoD & Intelligence customers
- Strengthened system-of-systems integration capabilities
- Strong acquisition integration track record
- Solid financial performance & balance sheet
- Excellent, highly visible, double-digit growth prospects

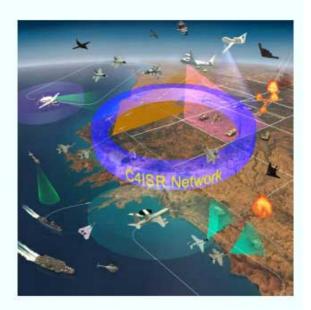


Focused on Growth in Shareholder Value



Our Persistent Strategy

- Build portfolio of technologies essential to system-of-systems, network-centric warfare across all platforms and services
- Aggressively pursue emerging opportunities
- Apply advanced technologies and human capital across the company
- Constantly improve program and financial performance



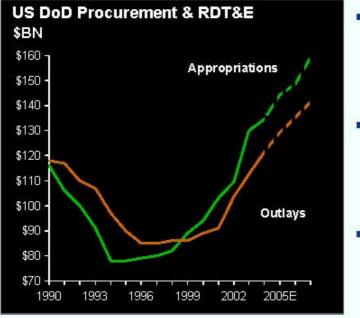
TRW Added the Last Major Building Block







Strong Defense Outlook Benefits NOC



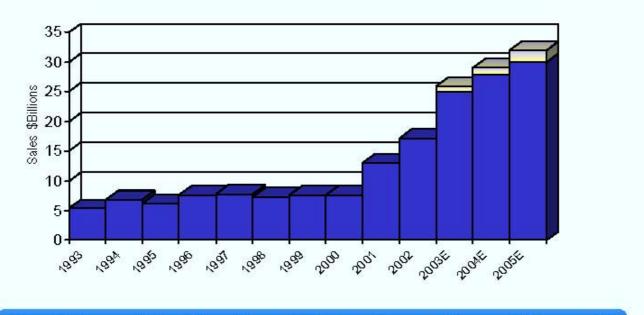
- 6% 8% CAGR (2002-2007E) in appropriations and outlays
- NOC positioned in high priority, faster growing sweet spots – C⁴ISR, Space, NMD, Ships
- Homeland Security initiatives provide additional growth

Source: President's 2004 Submittal

Positioned to Capture Growth





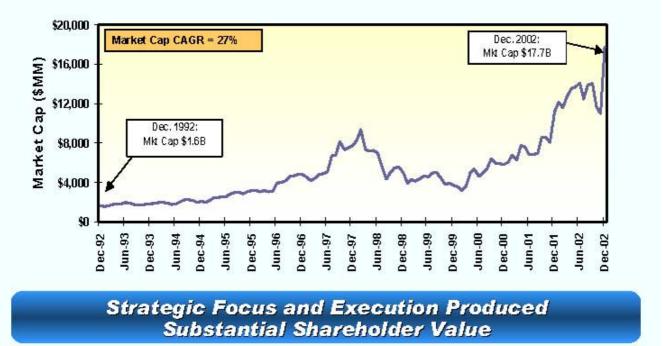


Positioned to Capture Transformational Growth



NOC Market Capitalization

December 1992 - December 2002





2002 Accomplishments...

- Newport News sector "stand up"
- DD(X) win
 - Largest naval procurement in U.S. history
- Deepwater win
 - Establishes NOC as key Homeland Security contractor
- \$500M in new Global Hawk contracts
- NSA "Trailblazer" win w/SAIC
- Immigration and Naturalization Service win
- CVN 21 Decision





2002 Accomplishments – TRW Acquisition...

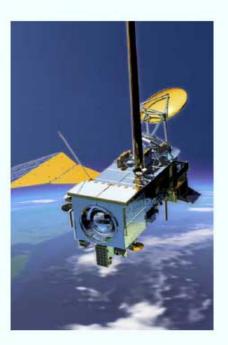
- Objectives
 - Space node completes system-ofsystems transformation
 - Aligns NOC more closely with customer's vision of networkcentric warfare
 - Strengthens missile defense capabilities
 - Adds new customers & technology leadership
 - Leverage TRW's leading technologies to win increasingly complex programs





2002 Accomplishments...TRW Acquisition

- Negotiated sale of TRW Auto
- TRW acquisition closed 12/11/02
 - Two new sectors:
 - Mission Systems
 - Space Technology
- TRW 2002 wins
 - Space Tracking and Surveillance
 System
 - NPOESS
 - James Webb Space Telescope





2002 – Another Record Year

Top Line Revenue Growth

- \$17.2B
- 32% YoY growth
- All sectors met plan

EPS/EEPS

- EEPS \$6.29 (share adjusted)
- Beat \$6.10-\$6.20 guidance
- EPS \$5.85 (share adjusted)
- Beat \$5.65-\$5.75 guidance
- Converting to GAAP only

Segment Operating Margin

- \$1.3B
- 31% YoY growth
- Q3 charges moderated growth

Cash from Operations

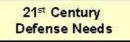
- \$1.7B
- \$1B available for debt paydown
- All sectors exceeded plan



NOC Ideally Aligned with Future Defense Needs...

Core Competencies

- Large-Scale Integrated Systems
- Design and Manufacture of Sophisticated Electronic Sensor Systems
- Naval Shipbuilding & Propulsion Systems
- Air Vehicle Design / Systems Integration
- Stealth Technology
- Information Operations
- Navigation & Guidance Systems
- Space Systems
- Lasers



GLOBAL FORCE PROJECTION / PRECISION STRIKE

SURVEILLANCE

TARGETING

SURVIVABILITY

INFORMATION WARFARE

MISSILE DEFENSE

HOMELAND SECURITY

Programs

Aircraft Carriers, Attack Subs, B-2, F/A-18, F-35, Destroyers, Amphibious Assault Ships, ICBM

Satellites, JSTARS, E-2C, Guardrail, AWACS, Hunter, Global Hawk

F-22, F-35, F-16, Longbow, B-1B, Air Defense Radars, LITENING

Electronic Warfare Aircraft, Radar and IR Jamming Systems

Intelligence, Infrastructure Protection, Information Assurance, Advanced EHF, Milstar, Deepwater

STSS, SBIRS High, Integrated ISR, Battle Management, Laser Weapons NORTHROP GRUMMAN

DEFINING THE FUTURE

Leadership in Key Business Areas

Electronic Systems	Information Technology	Mission Systems	Integrated Systems	Ship System <i>sl</i> Newport News	Space Technology
2003E Revenue ~\$6.1B	~\$4.7B	~\$3.9B	~\$3.7B	~\$5.2B	~\$2.5B
 Airborne Radars C⁴ISR Electronic Warfare Navigation & Guidance Military Space Homeland Security 	 C⁴ISR Government IT Infrastructure Science & Technology Information Security / Assurance Enterprise Solutions Homeland Security 	 Command, Control and Intelligence Digitized Battlefield ICBM Sys. Mgmt. Missile Defense BMC³ Defense/Civil Software Application Dev. Information Warfare Homeland Security 	 Tactical Aircraft Long Range Unmanned Airborne Early Warning & Surveillance Air-to-ground Surveillance Air-to-ground Jamming 	 Naval Systems Integrator Aircraft Carriers Attack Submarines Surface Combatants Amphibious Assault Ships Auxiliary Ships 	 Intelligence, Surveillance, Reconnaissance Laser Weapons Military SATCOM Scientific Satellite Military Avionics Cutting-edge Micro-electronics



Today's Northrop Grumman

- System-of-systems network-centric warfare capable across all platforms & services
- DoD & government 90%+ of revenue
- Second largest defense contractor
- One of top three space & missile defense contractors
- Premier airborne radar & electronic warfare systems provider
- Largest federal government IT provider
- Largest military shipbuilder

Most Diversified and Balanced Portfolio in the Defense Industry







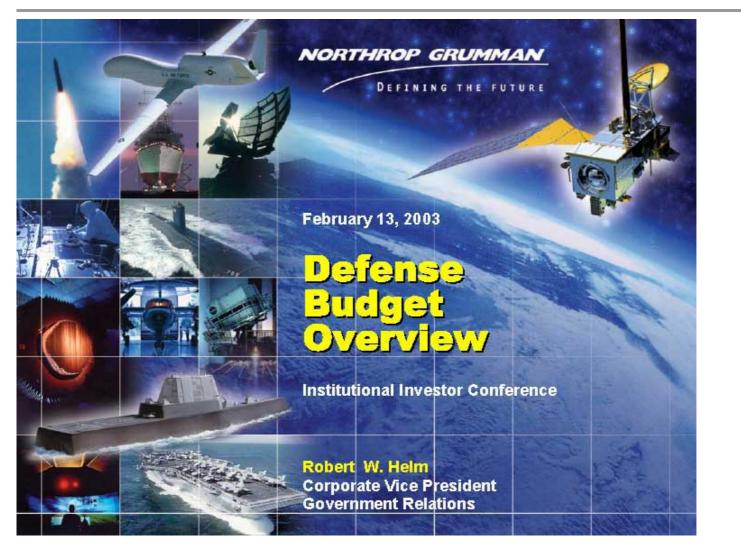
Northrop Grumman = New Powerhouse

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Focused on Growth in Shareholder Value





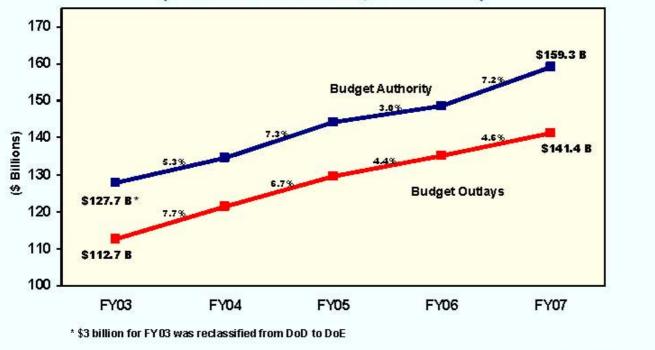
Overview of FY04 DoD Budget Request

- The President's DoD budget request for FY04 is \$379.9 billion
- Increase in defense spending by \$15.3 billion over FY03
- Modernization program on track
- Initiates transformational spending
- \$41 billion for Homeland Security spending

Key Northrop Grumman FY04 Programs Fully Supported



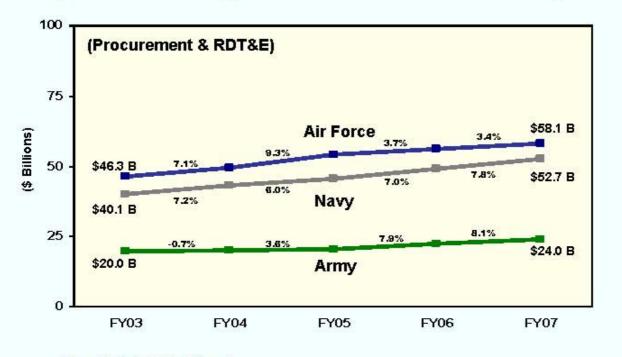
Growth of the Department of Defense Budget (RDT&E & Procurement, FY03 – FY07)



Source: Do D budget briefing, 31 Jan 03

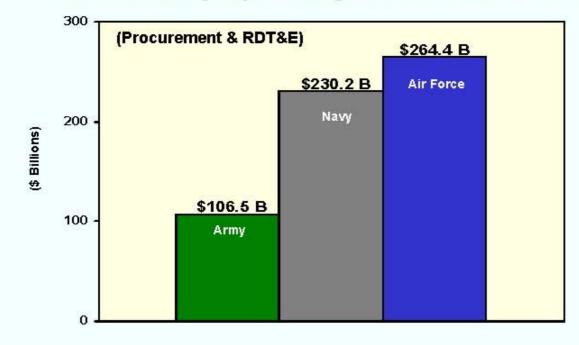


Military Services Budgets Continue to Grow Through FY07



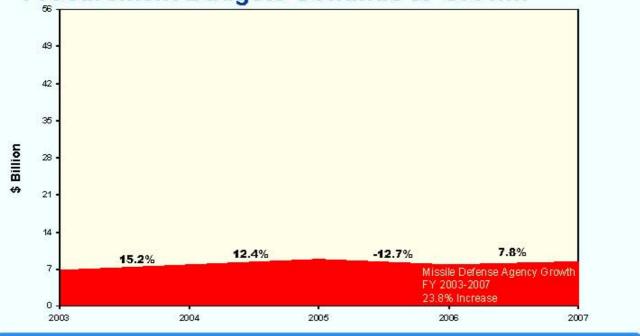


Total Military Spending from FY03 – FY07





Procurement Budgets Continue to Grow...

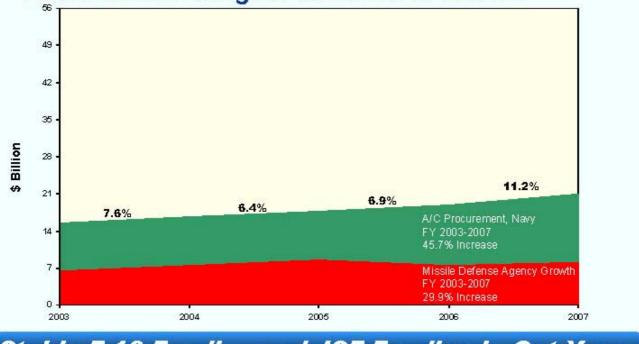


Strongest Bi-Partisan Support Ever for Missile Defense

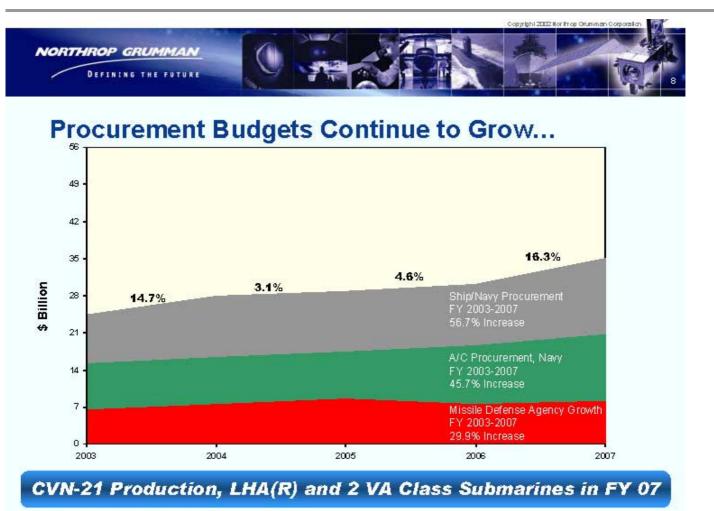
Source: MDA FY04 - 05 Biennial Budget Press Release

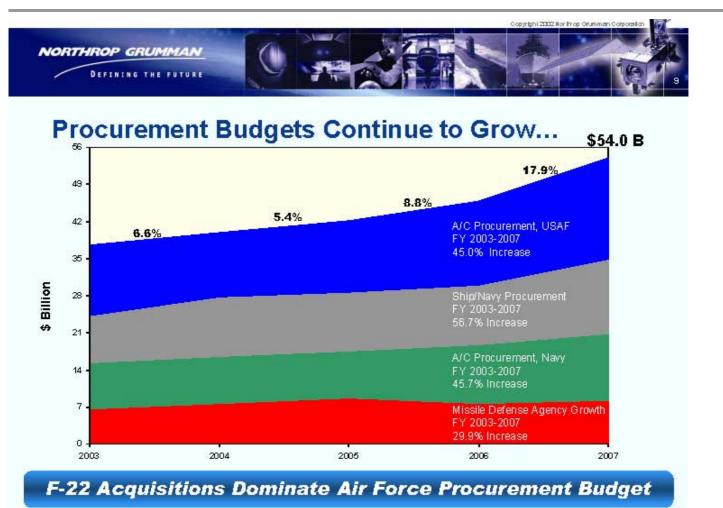


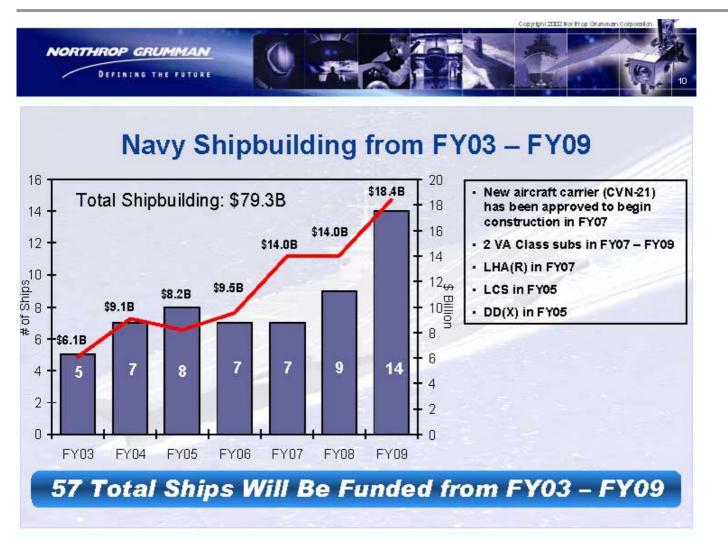
Procurement Budgets Continue to Grow...



Stable F-18 Funding and JSF Funding in Out Years







	Navy		raft F ^{Million}	undi	ng		
F-35 Quantity	<u>FY04</u> \$2,171	<u>FY05</u> \$2,226	<u>FY06</u> \$744 ^{≭≭} 4	<u>FY07</u> \$1,293 8	<u>FY08</u> \$3,550 29	<u>FY09</u> \$5,496 52	
F/A-18E/F/G Quantity	\$3,210 42	\$3,104 42	\$3,119 42	\$3,299 42	\$3,550 42	\$3,339 42	
E-2C Hawkeye Quantity	\$238 2	\$252 2	\$255 2	\$221 2	\$177 *	\$733 5	
BAMS***	\$25	\$224	\$299	\$242	\$205	\$225	
Fire Scout	\$4	*	*	×	×	*	
Navy UCAV	\$57	\$172	×	*	*	×	

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* DoD Data Not Yet Available ** Joint procurement dollars with Air Force, FY06 – FY09 *** Based on NOC projection data

Air Force Aircraft Funding \$ Million

yright 2002 Nor itrop Grumman (

<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	
\$363	\$550	*	÷	*	an state	
lawk \$253	\$303 4	*		*		
\$2,194 V	\$2,242	**	**	**	**	
rades \$260	\$363	×	*	×	*	2
\$5,170 y 22	\$5,087 24	*	*	×	*	
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* DoD Data Not Yet Available ** Figures represented in previous Navy Aircraft Funding slide – Joint Air Force and Navy program



Other Northrop Grumman Programs Faired Well in FY04 DoD Budget

(RDT&E and Procurement)

<u>Program</u>	FY04 Funding
Advanced Seal Delivery System (ASDS)	\$64.3M
Large Aircraft Infrared Countermeasure (LAIRCM) \$46.7M
Apache Longbow	\$762.5M
Comanche	\$1,079.0M
High Energy Lasers	\$83.1M



Northrop Grumman is a Major Contract Award Winner (Based on FY 2002 Data including Legacy TRW)

- #1 for Navy prime contract awards
- #1 provider of Federal Government IT Services
- #3 for Air Force prime contract awards
- #5 for Army prime contract awards

Source: CoD News Release, January 23, 2003 Note: The numbers reflective most currentrankings available from DoD based on FV02 numbers.



Northrop Grumman's Programs are Fully Funded

Prime Contractor

LPD-17

CVN 21

- DDG-51
- CVN 76 & 77
- DD(X)

- EA-6B

E-2C

ICBM

IR Counter-

Measures

NPOESS

JWST

- LHD
- Deepwater (JV)
 B-2
 - Global Hawk
 - Joint STARS
 - IT Programs
 - Aerial Common Sensor
 - ASDS
 - RTIP
 - STSS
 - Restricted Programs

Major Subcontractor

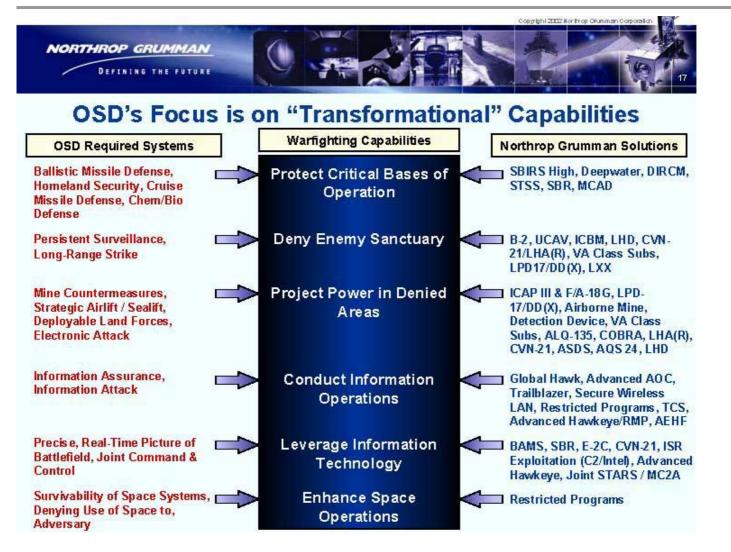
- F/A-18E (Boeing)
- F-35 JSF (Lockheed/BAE)
- VA Class Subs (Electric Boat)
- AEHF
- F-22 Radar (JV with Raytheon)
- TCS
- SBIRS High
- Restricted Programs



Defense Spending Driven by Threat Perceptions

- The rise of regional hegemons
- Proliferation of weapons of mass destruction and the necessity for ballistic missile defense
- Terrorism domestically and abroad

DoD Budget Should Have Long-Term Sustainability





Source: Dept. of Homeland Security



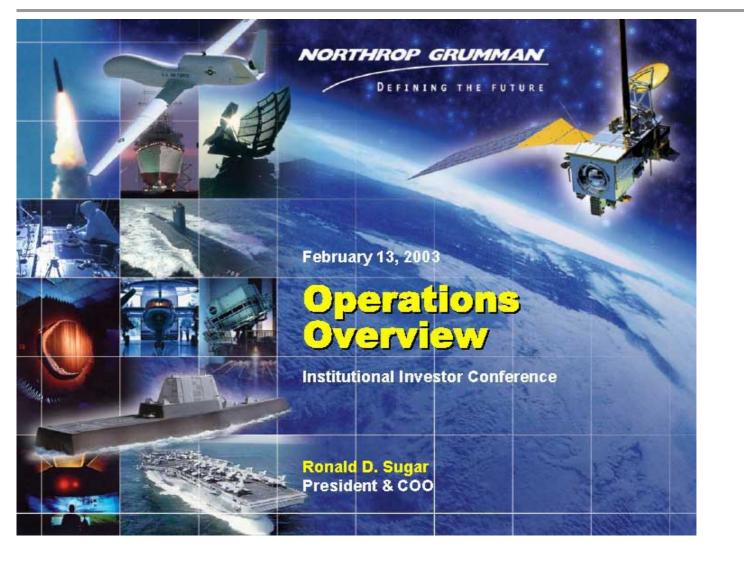
NOC is Well Positioned in Other Program Areas

- Information Technology
- Intelligence Community
- NASA
- National Oceanic and Atmospheric Administration (NOAA)



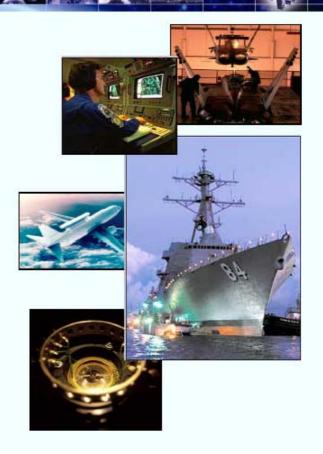
Summary

- DoD budget maintains strong growth through the fiveyear defense plan
- Threat of regional hegemons and war on terrorism continues focus on defense preparedness
- Northrop Grumman positioned for double-digit growth



Operations Overview

- Powerful Portfolio
- Operating Focus
- Cross-company Leverage
- Strong Management Team

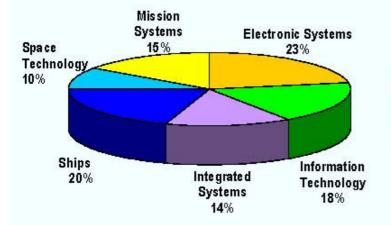


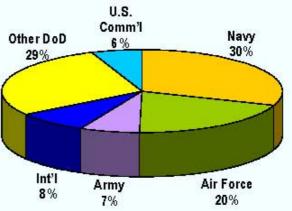


Northrop Grumman Business Portfolio 2003E Revenues ~ \$25 - 26B

By Sector

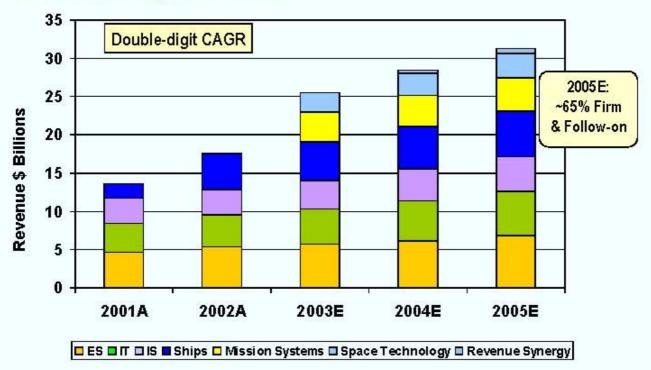
By Customer





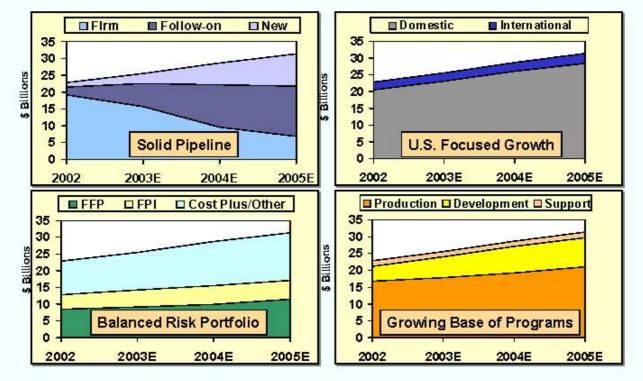


Double-Digit Growth





Positioned for Predictable Growth





Best-Positioned Program Portfolio in the Industry

Production Programs

- = Aircraft carriers
- = DD G-51
- = F-18
- Submarines
- = B-2
- = LHD
- Fire control radars
- Surveillance radars
- Apache Longbow
- ICBM
- Surveillance satellites

Growth Drivers

• F-35

- Global Hawk
- = DD(X)
- Deepwater
- = LPD
- International air defense
- Trailblazer
- Immigration Service
- SBIRS High
- STSS
- C⁴ISR Networked Systems
- NPOESS

Force XXI BCBB

Future Programs

- Advanced Hawkeye
- Space-Based Radar
- Littoral Combat Ship
- Navy UCAV
- NATO AGS
- International air defense
- Homeland Security
- Information operations
- Advanced laser weapons
- Major systems integration
- Advanced sensors

Pipeline Drives Growth in Sales and Profits



Northrop Grumman's Strong National Presence





Major Programs & Markets

Electronic Systems	Information Technology	Mission Systems	Integrated Systems	Ship Systems/ Newport News	Space Technology	
2003E Revenue ~\$6.1B	~\$4.7B	~\$4.7B ~\$3.9B		~\$5.2B	~\$2.5B	
- F-16	- DoD	- ICBM	• F-18	- CVN	Advanced EHF	
• F-22	INS	Missile Defense	• F-35	- CVN(X)	Restricted	
- F-35	- GTN-21	BMC3	- MC2A	 SSN 	F-22 CNI	
- AWACS	Deepwater	 JTRS 	- MP/RTIP	• DDG	F-35 CNI	
- MESA	- DD(X)	 Joint National Integration Center 	Advanced	- DD(X)	NPOESS	
• MP/RTIP	Intelligence	and the second sec	Hawkeye/RMP	 Deepwater 	JWST	
Longbow	Agencies	 Treasury Communications 	 E-2C Hawkeye 	- LHD	 STSS 	
Comanche	NSA	Centers for Disease	 B-2 Upgrades 	- LPD		
- LAIRCM	NRO	Control	 JSTARS upgrades 	⁶ TAK <i>I</i> R		
• Trailblazer	Civil / Federal	- Force XXI BCBB	 Global Hawk 	Tankers		
 SBIRS High 	State / Local		FOSJ / ICAPIII			
 STSS 	Commercial					



Program Priorities for 2002 – Report Card

Operating Focus

- 🖌 F-35
- ✓ Global Hawk
 F-16 UAE
- 🗸 F-22 Radar
- 🗸 ICAP III
- SBIRS High
- MP-RTIP
- Wedgetail
 BAT P3I
- 🖌 LPD 17
- Polar Tanker
- CVN 76

New Opportunities

- ✓ DD(X)
- ✓ Deepwater
- ✓ Joint STARS Follow-on
- ✓ International Electronics International IT
- ✓ Homeland Security







2002 Integration Report Card

- Litton
 - Complete
 - Targets achieved
 - Internal systems on schedule
- Aerojet
 - Complete
- Newport News
 - Complete
 - Sector stand-up March 2002
 - Internal systems on schedule

All Integration Activities are Complete





2003 Operating Priorities

- Operating excellence
- Outstanding financial performance
- TRW integration
- TRW Auto and Component

Technologies sale



Execute and Integrate



Program Priorities for 2003

Operating Focus

- F-35
- Global Hawk
- Advanced Hawkeye
- F-16 UAE
- Wedgetail
- SBIRS High
- CNV 76/77/21
- LPD 17
- DDX
- Deepwater
- Polar Tanker
- NPOESS
- STSS
- JWST
- ICBM
- Trailblazer

New Opportunities

- Kinetic Energy Boost Phase Intercept
- Targets, Payloads and Countermeasures
- Information Warfare
- Infrared Countermeasures
- Classified space
- Joint-STARS follow-on (MC2A)
- Virginia-class follow-on
- Taiwan subs, destroyers, ATDL
- Littoral Combat Ship
- Homeland Security
- Watchkeeper



Cross Sector Initiatives

	IS	ES	Π	SS	NN	MS	ST
Taiwan ATDL	~	~	~				
· UCAV-N	1	1			1		
· DD(X)	V	1	v	1	~		
 Littoral Combat Ship 	 Image: A second s	1	-	1			
Aerial Common Sensor	V	1	1			1	
• MC2A	V	×	V			×	
 KE Boost Phase Intercept 	×	-	-	×		~	1
Classified Satellites		1				-	v
Deepwater	V .			1			
• F-35	V	-					~
 Battlefield C⁴ISR 	V	-	V			-	1
 Space-Based Radar 		~				~	1
Watchkeeper	 Image: A second s	~	V				

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TRW Integration Plan

- Complete TRW Automotive sale
 - ✓ HSR approval
 - ✓ EU approval
 - Expected close Q1 2003
- Stand up two new NG sectors by April 2003
 - Mission Systems (\$3.9B 2003E)
 - Space Technology (\$2.5B 2003E)
- Transition corporate functions by Q4 2003

Integration is Straight Forward











Sector Standup Complete When...

- NOC management policies and procedures implemented by the sector management team
- Sectors meet NOC standards of financial, operational, legal and regulatory risk management
- NOC corporate office has visibility into sector financial and operational performance.
- All identified optimization opportunities, including synergies, are addressed
- Checklist of ~300 mandatory process steps

Operation and Conduct Aligned With The Northrop Grumman Business Model



Program Risk Management Process

Pre-Contract Phase

- Non-advocate review
- Independent cost evaluation
- Corporate office review

Contract Performance Phase

- Risk management baseline
- Company-wide Earned Value Management System
- Program management visibility at all levels
- Regularly scheduled executive reviews

Northrop Grumman Employs a Rigorous Review and Approval Process



Behaviors and Actions

- Live the company values
- Focus on operating excellence
- Act with speed
- Communicate openly
- Collaborate across the company

The Right Behavior Creates Shareholder Value



Bob lorizzo PRESIDENT

Herb Anderson PRESIDENT

Don Winter

PRESIDENT PRESIDENT

Scott Seymour Tom Schievelbein PRESIDENT

Phil Dur

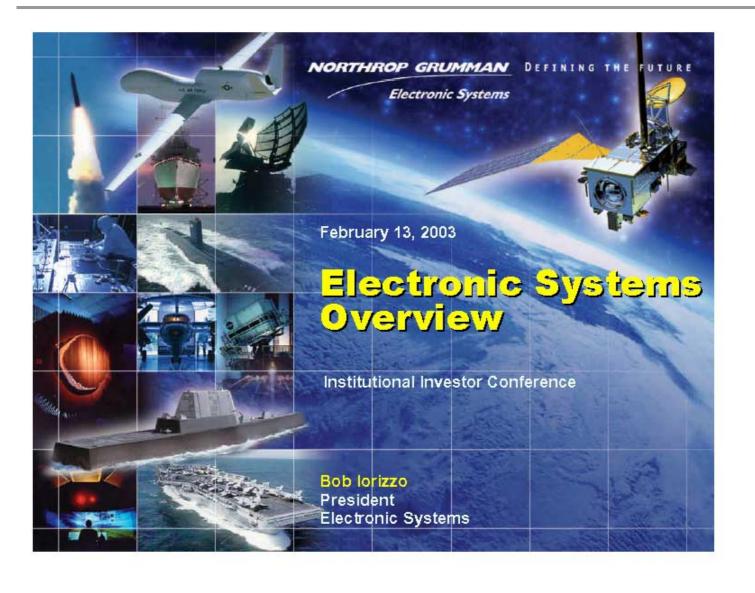
PRESIDENT



Wes Bush PRESIDENT

Very experienced incumbents

- Deep bench for the future
- Management compensation aligned with value creation





Litton, Aerojet and Solystic acquisitions add \$ 1.7B to ES Sector

EDD / Ruggedized Displays divestiture

Dramatic portfolio expansion

Cov't Systems Division Formed

10 10

\$ 4.7B 2001

sales

\$ 6.1B 2003E

\$ 5.3B 2002 Electronic Systems

Electronic Systems ... From Underseas to Outerspace

- ⊯ 24,000 Employees
- **∞** 51 Major Operating Locations

- Cover 200 Key Programs
- More than 12,000 Active Contracts

\$6B Backlog Across Product Base



Proven Leader in Defense Electronics







2004E

2005E

Note: 2002 & CAGR adjusted for EDD & San Diego Divestiture

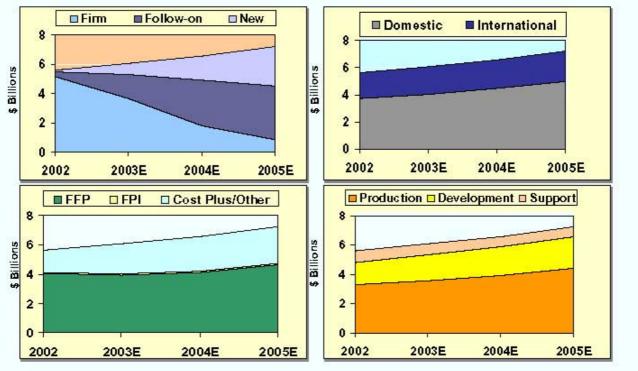
2003E

2002

ES 2003 Investors Briefing -FINAL

NORTHROP GRUMMAN Electronic Systems

Sales Mix





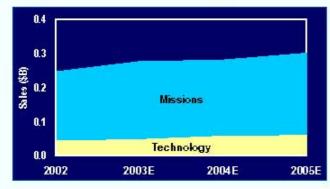
Strategic Actions

- Customer satisfaction (presently 94% blue / green)
- Preserve lead position in key markets
- Strongly participate in missile defense & homeland security
- Transition development programs to production
- z Double digit profitability
- Manage the portfolio (43 businesses)
- Support the new Northrop Grumman

Double-Digit Growth & Profitability

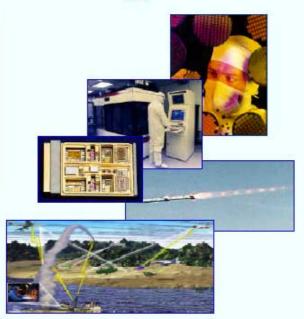


Systems Development & Technology



`02 Win Rate ... 80%

- Intelligence, Surveillance & Reconnaissance
- 😹 Strike and Combat

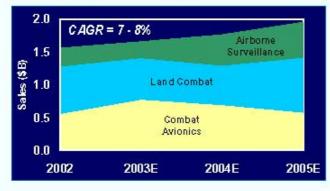


Securing Our Future

ES 2003 Investors Briefing -FINAL



Aerospace Systems



Key Programs

- 🔊 F-16 🛛 🖉 JSTARS
- 🔊 F-22 🛛 😹 MP-RTIP
- ន F-35 ន Longbow
- 🔊 AWACS 🛛 🔊 Comanche
- 🔊 Wedgetail 🛛 🔊 Classified



Strong Heritage . . . Bright Future



F-16 Block 60 Program Update

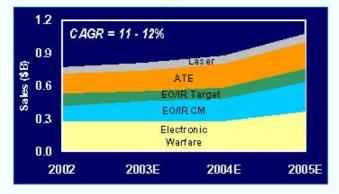


- Service Program on track
- K Financial reserve holding
- ⊯ 1st EMD radar system delivered Jan '03
- ✓ 1st EMD EO system scheduled for delivery 1st Qtr '03
- ✓ 1st EMD EW system scheduled for delivery 4th Qtr '03
- Flight test (ABR & EO) 1st Qtr '03

Customer Satisfaction High

NORTHROP GRUMMAN Electronic Systems

Defensive Systems

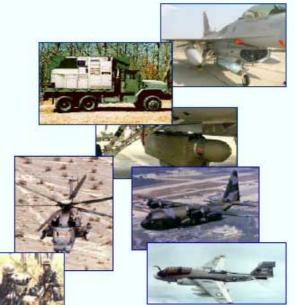


Key Programs

æ	MH-53 IRCM	8
æs	LAIRCM	8
es	F-35 EW	1

- 😹 Laser Systems
- 😹 LITENING

e	ICAP III	
es	ALQ-135	
జ	ALQ-131	

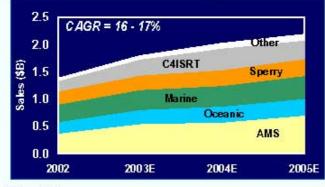


Proven Defense

Note: 2002 & CAGR adjusted for EDD Divestiture

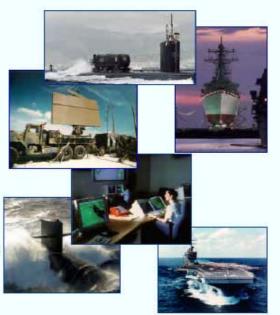


C⁴ISR & Naval Systems



Key Programs

- 😹 Int'l Air Defense
- *⊯* ASDS
- 😹 TES / NFN
- ✗ Trident / SSGN
- 😹 CVN-77 / CVN-21
- 😹 Ship Mgmt Systems
- ∠ DD(X)
- - ⊯ DDG

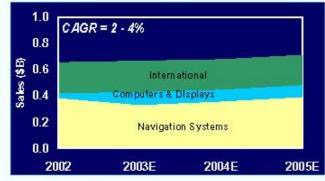


Strong Competitor

ES 2003 Investors Briefing - FINAL



Navigation Systems



Key Programs

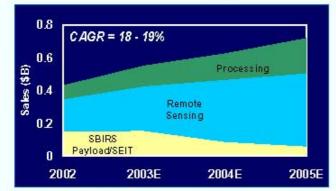
- 😹 Civil Aviation
- 😹 Eurofighter
- 😹 Helicopter Cockpits

Proven Military & Commercial Solutions

Note: 2002 & CAGR adjusted for San Diego Divestiture

Electronic Systems

Space Sensor Systems



Key Programs

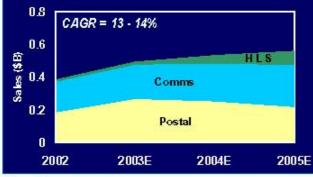
- Space Tracking & Surveillance System (STSS)
- 😹 SBIRS High
- S Defense Meteorological Satellite Program
- S NPOESS Weather Satellite



Payloads of the Future



Government Systems

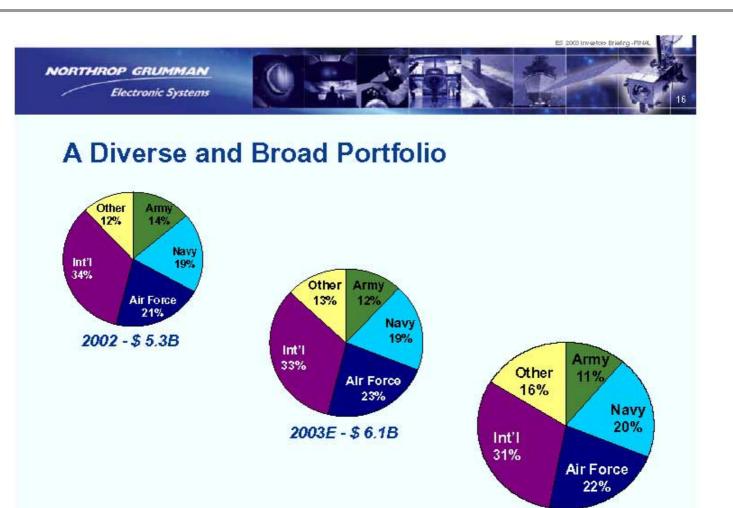


Key Programs

- Advanced Flats Sorting
- s International Mail Sorting Centers
- S Voice / Data Switching
- 😹 Secure Comms

Automation & Communications for the Future

888 B



2005E - \$ 7.2B

\$6B in 2002 Acquisitions

- 🗷 Trailblazer
- 😹 Int'l Air Defense
- 😹 STSS
- 🗷 TES / NFN
- 🗷 Aerial Common Sensor
- 🖉 Other Classified
- *⊯* LITENING ER
- ⊯ Solystic Material Handling
- K F-15K ALQ-135





Pipeline Remains Healthy

In Production

- + F-22 Radar + F-16 V-9
- · AWACS RSIP
- Joint STARS Radar
- Longbow
- DIRCM / LAIRCM
- TES
- Base BAT .
- Virginia Class Sub *
- ASDS
- SPQ-9B
- Blue Storm
- MH-53 IRCM
- MH-60





In Development

- F-35
- CVNX
- STSS
- SBIRS High
- BAT P³I Seeker
- F-16 Block 60
- Wedgetail *
- MP-RTIP .
- . Comanche
- E-2C RMP
- Trailblazer
- LSI 2000
- SSGN MAC Launcher
- Classified



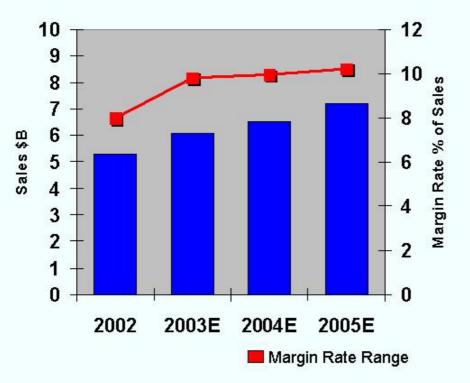
Key Opportunities

- 737 AEW&C (Turkey)
- **Aerial Common Sensor**
- IRCM P³
- Homeland Defense
- **BMDS Boost Phase** .
- DD(X) BMC⁴I *
- *
- Common Missile
- BAMS .
- SBR ÷
- **Bio-Detection**
- Deepwater EMALS
- Classified 4





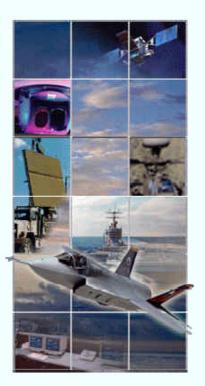
A Solid Financial Future





A Growing Base ...

- ⊯ \$6B in backlog across product base
- Right products on the right platforms
- Litton and Aerojet integrations complete
- Focused on operational execution to increase profit
- Well positioned for DoD budget trends



... and an Expanding Future





Newport News Overview

- Sole designer, builder and refueler of Navy aircraft carriers
- Some of two companies that build nuclear submarines
- Leading provider of engineering and design services
- ✓ Growing fleet maintenance business
- Solution States and designers and designers







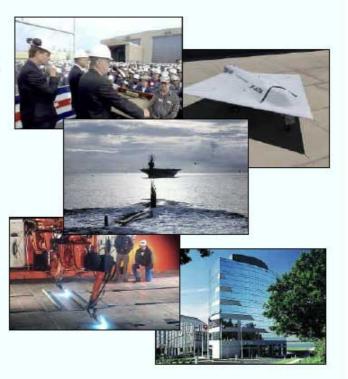


NORTHROP GRUMMAN Newport News



2002 Highlights

- Record year for sales, cash flow, environmental compliance and safety
- Sector stand-up and integration complete
- Cross-sector synergy opportunities emerging
- Cost savings initiatives ahead of plan





Strategic Wins: CVN 21

- Reaffirmed Navy and DoD commitment to large deck, nuclear powered aircraft carriers
- \$4.5 billion engineering and
 \$7 billion ship construction
 estimate



CVN 21 Illustration

- ⊯ Ship delivers 2014
- First new aircraft carrier class in 40 years



Strategic Wins: CVN 21

- Major transformational technologies
 - Improved nuclear plant
 - Improved sortie rate
 - Improved weapons handling
 - Reduced manning
 - Additional electric power for new transformational weapons



CVN 21 Illustration



Strategic Wins: Virginia-class Submarine

- ⊯ DoD/Navy decisions
 - Fully fund the next flight of submarines
 - Authorize multiyear procurement
 - Increase submarine construction to two per year beginning in 2007



Virginia (SSN-774) Bow Section

Navy SCN Budget Supports Newport News Programs

(\$ Millions)	<u>2003</u> *	<u>2004</u> *
CVN 21	484	1,187
Virginia-Class	2,427	2,787
CVN Refueling	217	368
SSGN	996	1,167
SSN Refueling	490	164
Total Nuclear Shipbuilding	4,614	5,673
Non-Nuclear / Other	4,459	5,766
Total SCN	9,073	11,439

Blue = Newport News Programs * Navy February 2003 P-1 Budget Document NORTHROP GRUMMAN

2003 Focus: Enterprise/Reagan

Enterprise (CVN 65)

\$219 million maintenance contract

Reagan (CVN 76)



Enterprise (CVN 65)



Reagan (CVN 76)

NORTHROP GRUMMAN

2003 Focus: Aircraft Carrier Refueling and Overhaul

- ≪ \$1.5 billion contract on *Eisenhower* (CVN 69) with redelivery in 2004
- \$2 billion contract planned for Vinson (CVN 70) from 2004 to 2007
- ✓ Future Nimitz-class refueling overhauls represent a hidden backlog of \$12-15 billion



Eisenhower (CVN 69)



2003 Focus: CVN 77 George H. W. Bush

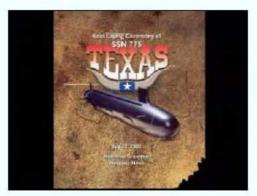
- \$3.7 billion construction contract
- ⊯ Ship delivers 2008
- Tenth and final Nimitz-class nuclear aircraft carrier





2003 Focus: Virginia-class Submarine

- \$2.6 billion construction contract for first four submarines
- ✓ FY 2003 submarine is fully funded
- Contract for next five Virginia-class submarines and two options with a \$3-5 billion value – expected by 3rd quarter 2003
- Co-production partnership between Newport News and GD's Electric Boat





2003 Focus Area: Fleet Maintenance

- Minneapolis St. Paul (SSN 708) is first submarine maintenance availability at Newport News in 10 years
- Newport News manages aircraft carrier availabilities on both coasts
- 😹 \$300 million annual revenues



Minneepolis St. Paul (SSN 708)



Nimitz (CVN 68)



Cross Sector Collaboration

- Platform integration/centers of excellence
- Shipyard operations/cost savings
- Sharing best practices between sectors
- Provide opportunities for other sectors to participate in CVN 21
- Modeling and simulation of flight deck operations
- Developing DDX electric drive propulsion system



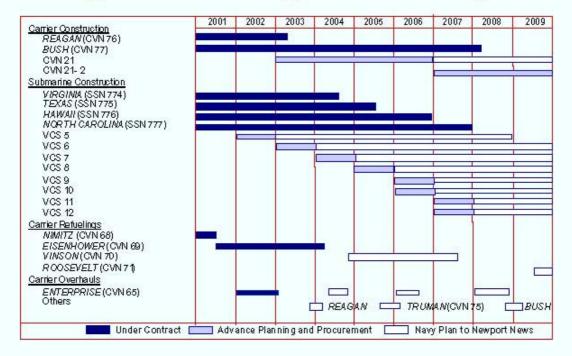
Pegasus UCAV



DDX Concept

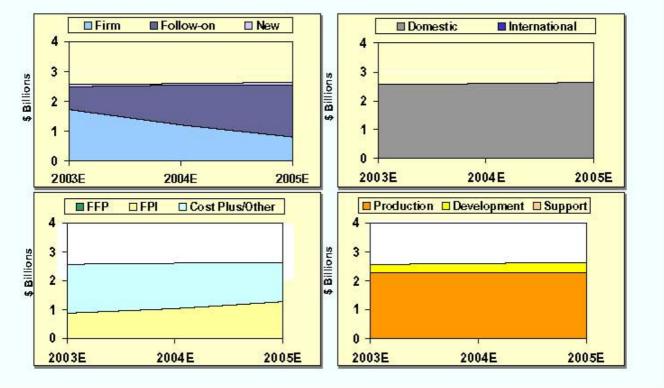


Backlog Provides Long-Term Stability





Sales Mix



NORTHROP GRUMMAN

Great Results



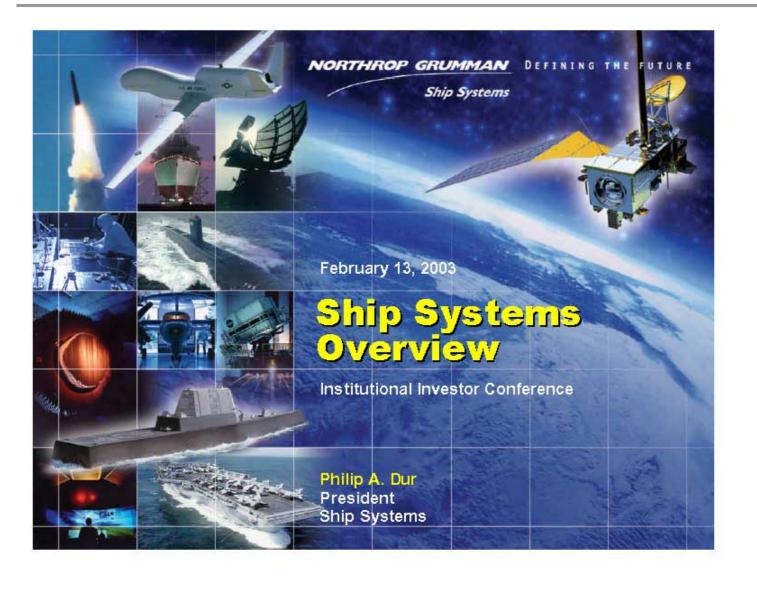
NORTHROP GRUMMAN

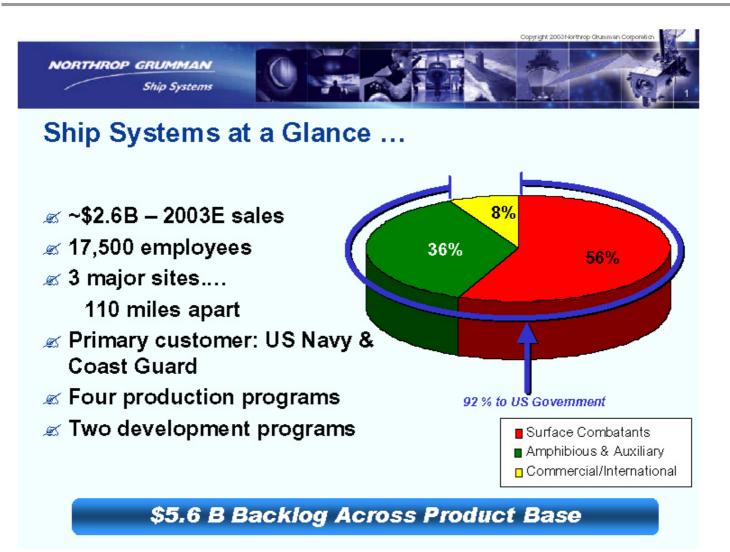
Building Shareholder and Customer Value

- Securing programs for our future
- Driving improved efficiencies and cost reductions
- Continued excellent cash and earnings performance

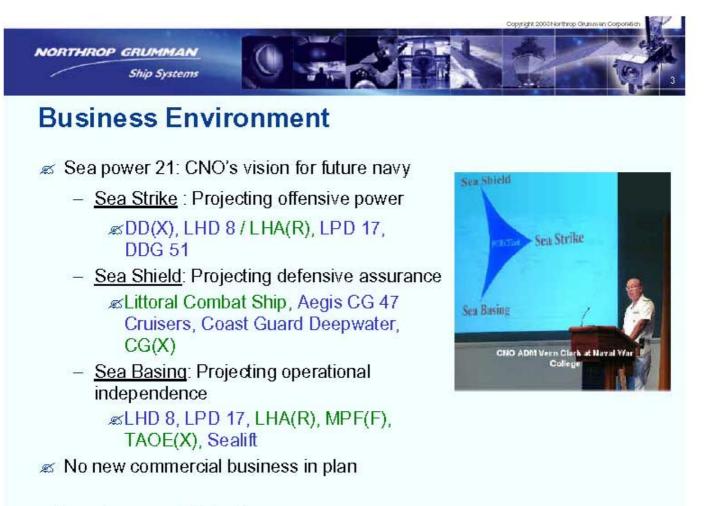












SCurrent Programs SFuture Programs



NGSS Ship Profile Planning Assumptions

06	07	08	09	Total
1	0	0	0	4
0	1	1	2	5
0	0	1	2	4
2	2	2	0	8
IF	0	0	0	1
0 /	AP	1	1	2
0	0	1	1	2
0	0	1	1	2
3	3	7	7	28
0	2	2	0	5
1	1	1	1	6
			-	-

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NORTHROP GRUMMAN Ship Systems

Operating Strategies

Execute current programs - increase efficiencies

- -Reduce Avondale operations turnover
- -Capitalize on workstation management at Avondale operations – implemented in 2002
- -Optimize workforce across sector
- -Extend lean / 6 sigma
- -Maximize cross-site modular construction

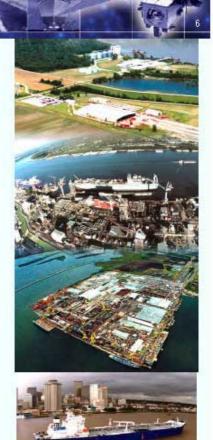
scincrease diversity of management team

Continue inter & intra sector synergies

-Consolidated purchasing

-Safety

SRecapitalize & modernize with state cost share



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NORTHROP GRUMMAN Ship Systems

Operating Strategies

Execute current programs - increase efficiencies

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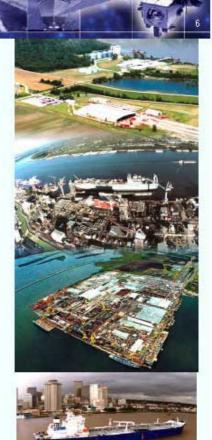
scincrease diversity of management team

Continue inter & intra sector synergies

-Consolidated purchasing

-Safety

SRecapitalize & modernize with state cost share









Polar Tanker Program

ships under contract / 2 ships delivered

- First environmentally safe, OPA '90 compliant design
- Trans-Alaskan pipeline system trade

≈\$87M charge in 2002

- Labor turnover and churn at Avondale operations
- Limited production tracking system until common systems implementation (September 2002)

SProgram stabilization & improvement

- Human resource retention initiatives (28% reduction in turnover)
- Common systems implementation
- Recapitalization and modernization plan

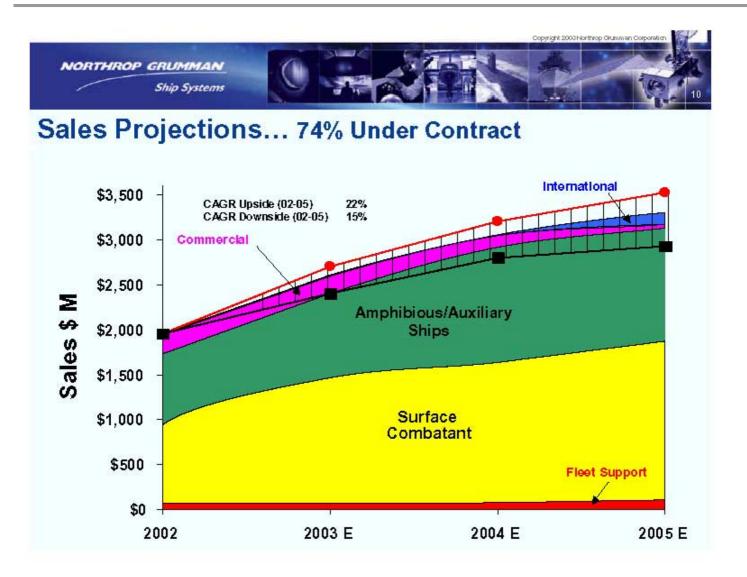
Financial Reserve Holding



Recapitalization and Modernization Program

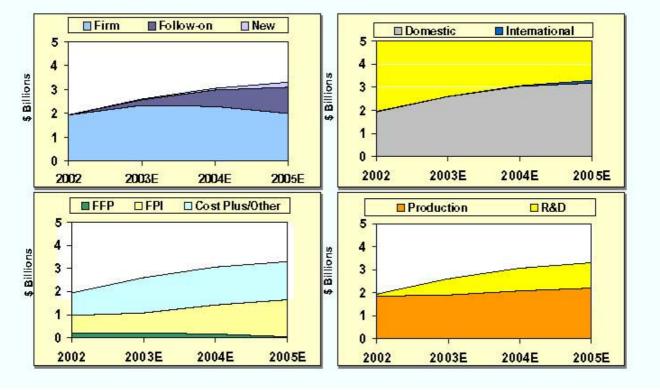
- ✓ Targeted to improve
 - Safety/environmental
 - Production efficiency
 - Capacity
 - Track extensions/ composite facilities
- 😹 2003 to 2007 modernization
 - 50/50 cost share with state governments





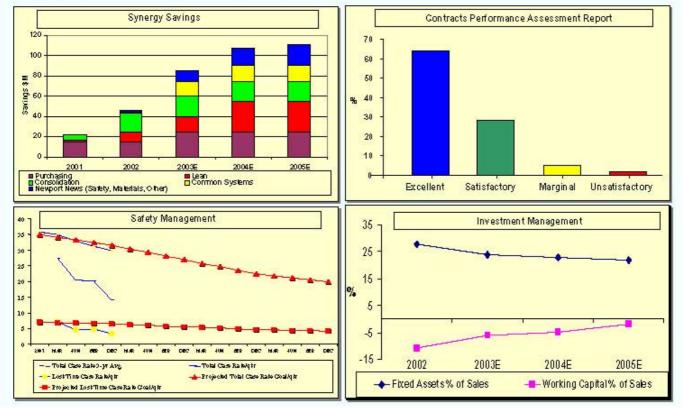


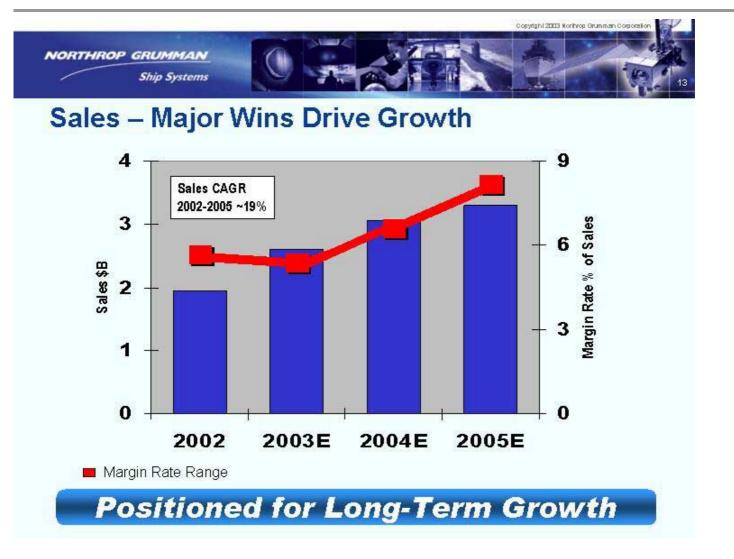
Sales Mix



NORTHROP GRUMMAN Ship Systems

Operational Metrics







\$5.6B Backlog with Solid Growth Prospects Ahead

In Production

- + 11 x DDG 51 Arleigh Burke Class Aegis Guided Missile Destroyer
- + 1 x LHD 8 Wasp Class Amphibious Assault Ship
 4 x LPD 17
- San Antonio Class Amphibious Landing Dock
- Bob Hope Class Strategic Sealift Ships
 3 x Polar Tankers
- Environmentally Safe Design for Alaskan Trade

In Development

- DD(X) Family of Surface of . Combatants Engineering Development Modules
- -Design US Coast Guard .
- Deepwater National Security Cutter Offshore Patrol Cutter Israeli Navy SA'AR 5 .
- Enhanced
- -Leveraging Successful SA'AR 5 Design

Key Opportunities

- Littoral Combat Ship
- LHA(R) MPF(F) TAOE(X)
- CG(X)
- Cruiser Conversion
- **Composite HSF**
- Israeli Corvettes
- Non Nuclear Submarines R&D Efforts 4
- Advanced Composites
 Integrated Propulsion Systems
 - Transformational Hull Forms





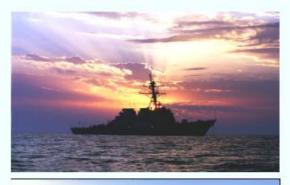






DDG 51 Program Milestones

- 11 Ships Under Contract
- FY '02 Multiyear Contract
 - 4 Ships \$1.9B
- DDGs for LPD Swap
 - MOU Signed June 2002
- NGSS Award Fees
 - 2002 > 90%
- USS Cole
 - Returned to Fleet April 2002
 - NGSS Received 100% Award Fee







DD(X): Transformation of USN Surface Combatants

- states \$2.9B contract ≤
 - National team (NOC, GD, RTN, LM, UDI)
 - NGSS prime
 - Raytheon electronic systems integrator
- ⊯Family of surface combatants
 - Design agent for future surface combatants
 - Spirals to CG(X)
- - Preliminary design review Jan '04
 - Integrated propulsion system testing - May '05
 - Critical design review July '05
 - Lead ship award FY '05



DD(X): Potential to Equal DD 963 Class...

Key Ship Systems 2002 Win

NORTHROP GRUMMAN

Deepwater Program JV with Lockheed Martin

NOC work scope

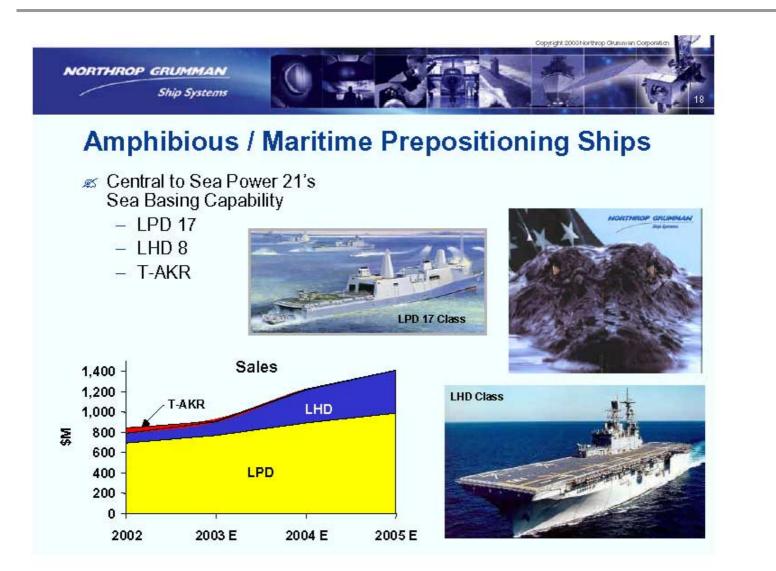
- Recapitalization of Coast Guard cutter fleet – ship assets \$4.5B
- Congressional support for Homeland Security
- Section Collaborative effort with Navy LCS program
- S FMS derivatives



Offshore Patrol Cutter (OPC) and National Security Cutter (NSC)



Key Ship Systems 2002 Win



NORTHROP GRUMMAN Ship Systems

LHD 8 Program

- - Awarded 19 April '02
 - Contract delivery '07
- - Hybrid gas turbine propulsion
 - C⁴ISR improvements
- - Potential 4 ships
 - LHD derivative most likely solution
 - NGSS awarded \$2.8M study contract



NORTHROP GRUMMAN Ship Systems

LPD 17 Program

#12 ship program / 4 ships under contract

- LPD 17 55% complete
- LPD 18 (New Orleans) 13% complete
- LPD 19 (Pascagoula) –
 9% complete
- LPD 20 (New Orleans) material procurement
- LPD 21 & 22 long lead time material received

Will incorporate 10 tons of WTC steel



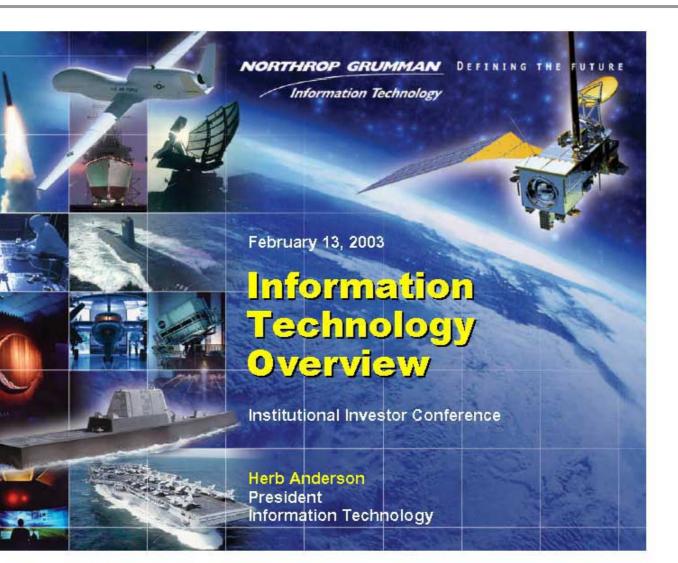




Summary

- - Program centric organization
 - Responding to customer's requirement for transformational capabilities
- Military shipbuilding is core
 - US Navy & Coast Guard
 - International navies & profitable commercial work
- Service And America Antices An
 - 20 ships under contract
 - 4 ship development / design programs under contract

Program Execution is Our Focus



NORTHROP GRUMMAN

Information Technology ...

- ⊯ ~\$4.7B 2003E sales
- ⊯ Over 22,000 employees
- Cover 300 separate operating locations
- 17 international offices
- More than 8,000 active contracts



Backlog > \$10B Across Sector

NORTHROP GRUMMAN

Information Technology Summary

- Trusted leader in information-based systems, integration, solutions & services
 - Mission
 - Enterprise
 - Infrastructure
 - Security

Differentiated by:

- Incumbency & geographic reach
- People, their technical knowledge, clearances, and domain expertise
- Ever-improving business and technical processes (CMM, CMMI Level 5, ISO)
- Technology in emerging markets (e.g., biometrics, secure wireless, and smart cards)



- Strategic actions to sustain competitive advantage
 - Continued excellent program performance
 - Business model refinement for efficiency
 - Recruiting, training, & retention of people
 - Cross-sector collaboration
 - Aggressive cost management
 - Mature BD & account management processes
 - Providing enabling infrastructure for network-centric warfare
 - Expanding CMMI Level 5 certification





02-E0050 V-1 01/24/03





- ##1 Non-OEM supplier to the Federal Government under GSA schedule (GSA)
- ##1 Federal Government computer hardware reseller (Government Executive)
- ##1 Government-wide Acquisitions Contract vendor (Washington Technology)
- #2 Top 100 Federal IT prime contractors (Washington Technology)
- «Quality supplier award winner for USPS selected over 2,000 companies
- Capability Maturity Model Integration (CMMI[™]) Level 5 in one Northrop Grumman IT business unit and Software Engineering Institute (SEI) CMM Level 3 certified across Sector
- Customer satisfaction blue/green
- #72% college degrees; 60% employees with security clearances; voluntary attrition <10%</p>



Business Highlights in 2002

& Key Wins

- INS TEAMS Managed Services
- Several restricted programs (NRO, NSA)
- NASA Base Support Follow-on at Kennedy and Patrick AFB
- Army Land Information Warfare
- Air Force Global Transportation Network for the 21st Century (GTN-21)
- Multiple States Electronic Benefits Systems Integration and others

- Federal Government: INS, U.S. Coast Guard, Navy (DD(X) Program)
- New states and localities (IL, ME, AK, LA, CA, Fairfax County, VA)
- Important contracts in almost all agencies migrating to the Department of Homeland Security
- With integration of Litton now complete, well positioned to maximize revenue in many markets, especially homeland security and networkcentric warfare

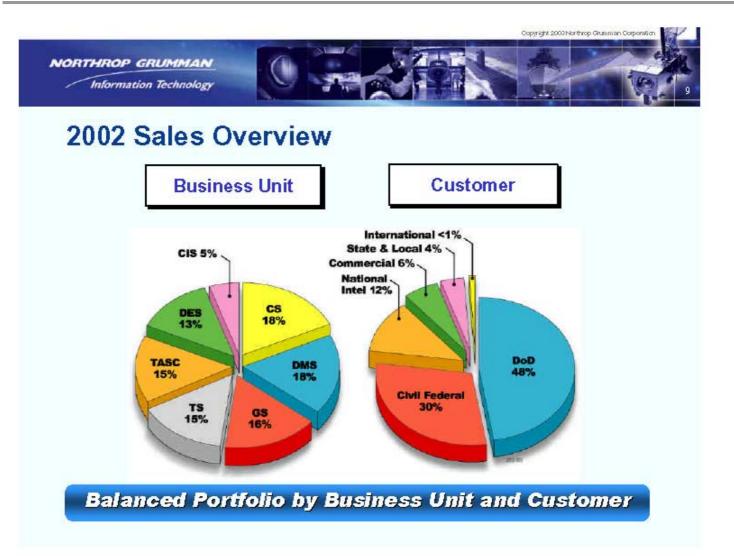
Improved business systems (BD, Financial, HR, account management)

- & Excellent program performance across the board
- Record backlog, bookings, and excellent cash improvement during 2002 which was earmarked as a re-branding year from Logicon to Northrop Grumman IT

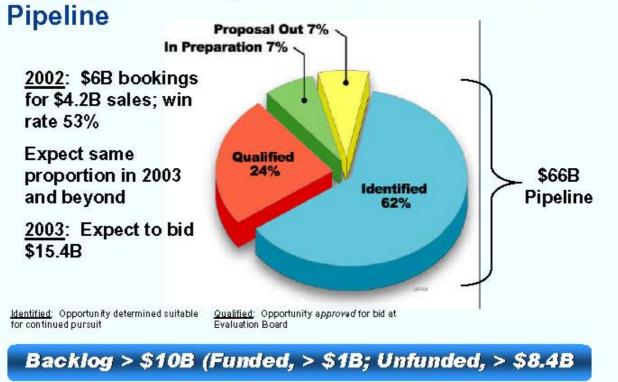


Improved Operational Efficiencies

 Integration processes
 SEI capability maturity model integration level 5
 Uniform business development acquisition process across sector
 All major programs blue/green
 Common ERP system
 Sustained/low voluntary turnover rate
 Eliminated 2/3 of legal entities









IT Market Trends





2003 Overview

sInformation Technology's Objectives

 Deliver double-digit sales and solid earnings growth with strong cash flow SOverall Strategy

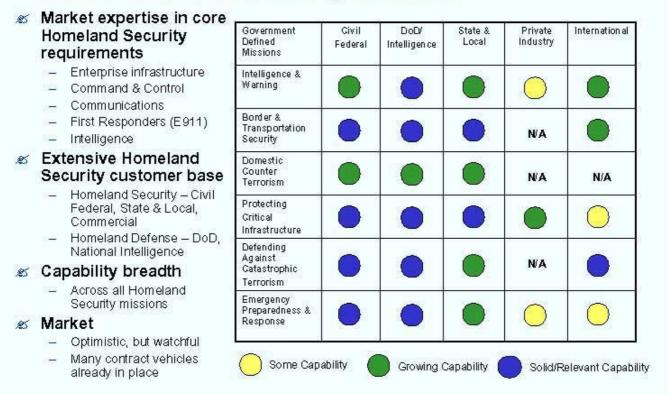
 Be the trusted leader in systems integration, solutions, and services for our evolving customer set as well as for the Northrop Grumman Corporation

- Sustained program performance
- Build network-centric and information warfare capabilities
- Exercise strong (#1) leadership position with flexible contract vehicles
- Maximize revenue/margin across all IT business models
- Keep voluntary attrition below 10%
- Aggressively manage costs
- Maximize sales in growth areas
- Optimize cross-sector business development

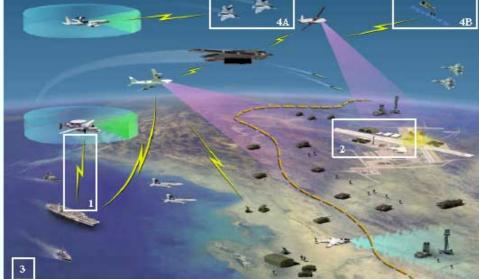
Sustained Commitment to Profitable Growth

NORTHROP GRUMMAN

2003 Homeland Security Outlook





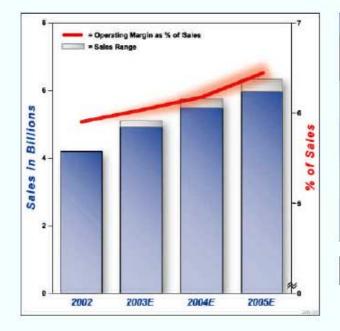


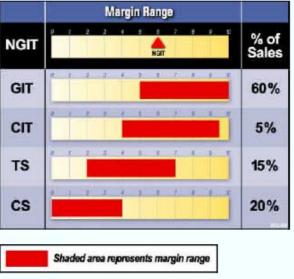
- I Tactical Data Links → ROBE → NILE
- 2 Command & Control + USMC C4I
 - · Army LIWA
- 3 System Architectures · GTN-21 · CECOM SSES
- 4 Mission
 - Planning
 - · A JMPS · B – SOMMS

Across the Conflict Spectrum, Northrop Grumman IT Provides State-of-the-Art Network Centric Warfare Solutions for all Military Constituents



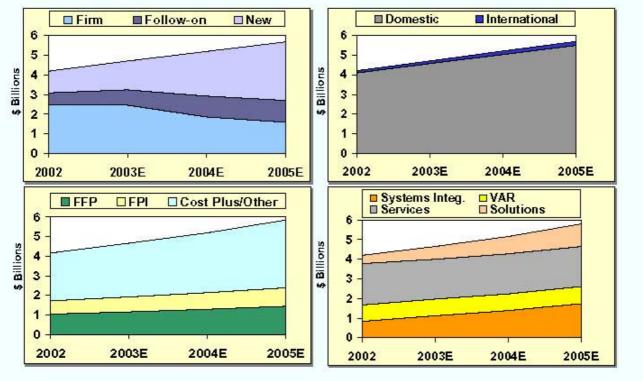
Financial Performance

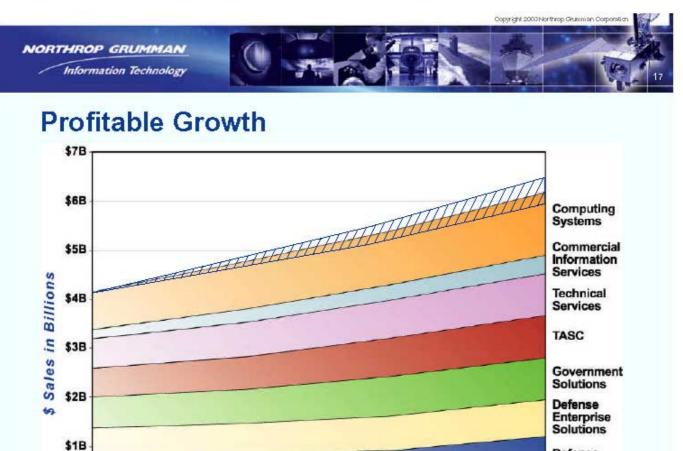




NORTHROP GRUMMAN

Sales Mix





2004E

2003E

0

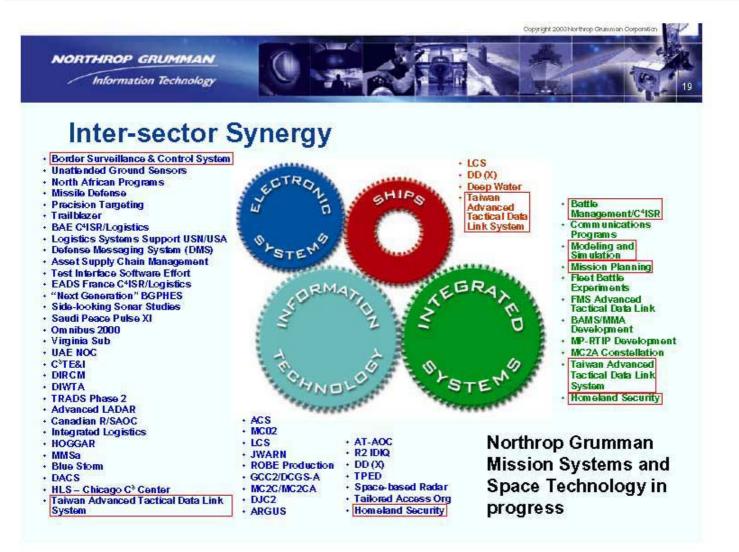
Defense Mission Systems

2005E

Strategic Opportunities

Customer Domain:	Major 2003/04 Opportunities:
Defense/National Intel	 Defense-wide single HR system: \$500M
	 Air Force Advanced Technology Air and Space Operations Center (AT-AOC): \$800M
	 Talwan Advanced Tactical Data Link: \$750M
	 Significant restricted opportunities
	 Air Force Arnold Engineering Development: \$2.0B
Civil Federal	 NASA Program Information Systems Mission Services (PRISMS): \$1.6B
	 DoJ/INS Entry/Exit National Border Surveillance/Protection: \$400M
	 NASA Marshall Space Flight Center Operations: \$100M
	 DHS Network, E-mail, system infrastructure
State & Local	 NYC Metropolitan Transit Authority Security: \$200M
	 Virginia Data Center Consolidation: \$100M
	 Texas Outsourcing: \$50M

Win Large/Strategically Important Targets



NORTHROP GRUMMAN

Well Positioned for Double-Digit Growth

S 11 -

Mission Systems Enterprise	C4 Enterprise/Infrastructure Systems and Services	H O M E	\$800M
		Distance of the	
		L	\$550M
ent Solutions	Civil Federal Systems Integration & Services	A N	\$650M
	National Intelligence Systems Support & Services		\$650M
l Services	Base & Range Support; State & Local Information Systems	E G U	\$650M
cial Information	Commercial Systems & Services	R I T	\$200M
ng Systems	Value-Added Reselling & Enterprise Architecture	Ý	\$750M
	I Services cial Information ng Systems	National Intelligence Systems Support & Services I Services Base & Range Support; State & Local Information Systems cial Information Commercial Systems & Services ng Systems Value-Added Reselling	National Intelligence Systems Support & Services D I Services Base & Range Support; State & Local Information Systems E cial Information Commercial Systems U ng Systems Value-Added Reselling Y

NORTHROP GRUMMAN



Defense Mission Systems (GIT)

Market

- Network-centric warfare
- Command and control
- Military Intelligence
- Military communications
- Information warfare systems engineering
- C⁴I systems and Interoperability engineering

Products/Offerings

- C³I systems development and integration
- Battle management and mission planning systems
- Intelligence support to operations; intelligence data correlation and fusion applications; combat information systems
- Military communications solutions: Tactical data links products; Secure wireless network solutions
- Warfare systems & platforms engineering, T&E, and life-cycle support

Key Customers

- U.S. Navy: NAVSEA, SPAWAR, NSWC
- U.S. Air Force: ESC, ACC
- DoD and Joint agencies: DISA, MDA, STRATCOM, TRANSCOM

2002 Total Sales:

\$800 M

- National Missile Defense: Ground-based Midcourse Defense Command Launch Equipment C² segment
- GTN-21
- AEGIS Test & Evaluation (T&E)
- DISA NEXGEN
- JITC
- GCCS & COE

- C⁴I systems integration and interoperability engineering
- Network centric environment services/frameworks tactical data links integrations
- Combat systems support

\$550 M

NORTHROP GRUMMAN



Market

- Infrastructure systems and services
- Applied sciences and technology
- Public safety and citizen services information systems

Products/Offerings

- Information assurance
- Enterprise communications and infrastructure systems
- Simulator/Simulation development
- Training support services
- Logistics and mission support systems
- WMD threat reduction
- Laser and Imaging systems
- High performance computing
- Systems analysis and modeling

Key Customers

- U.S. Air Force, Army, and Navy
- DoD (DLA, DISA)

- GSA

Major Programs

 Information Technology Services (GSA Blanket Purchase Agreement)

2002 Total Sales:

- Defense Threat Reduction Agency, Advisory and Assistance Services (DTRA AS&S)
- Joint Analytical Support Program (JASP)

- Leading provider of smart-cards
 - CMMI Level 5
- Standardized and mature processes, methods, and tools for infrastructure modernization and enterprise transformation
- Best-of-breed asset management solutions, training & simulation
- 15 years of strong performance in military HR system migration/support
- Over 30 years of WMD threat reduction experience

Government Solutions (GIT)

Market

- Homeland security
- Emergency management systems/public safety
- Health Information systems and solutions

Products/Offerings

- IT managed services
- Altaris[™] emergency management systems
- PeopleSoft and SAP ERP system Implementations
- Perceptics license plate reader, cargo container scanning and underbody vehicle inspection systems
- Weather Information Integration systems
- Integrated smart-card, blometrics and physical security

Identification/authentication solutions

Key Customers

All Civil Federal agencies

2002 Total Sales:

\$650 M

Major Programs

- INS TEAMS Managed services
- IRS PRIME IT services and integration
- Treasury HR Connect PeopleSoft HR ERP system
- ITSS USPS IT support
- AWIPS Software Integration and life-cycle support for the National Weather Service, Dept. of Commerce

- Integrated smart-card, biometrics and physical security solutions
- Altaris[™] emergency management systems
- Managed services best practices
- CMM/CMMI/SA level 3
- Port and border security solutions (license plate, cargo container and underbody readers/scanners)

TASC (GIT)

Market

- Strategic security
- National Intelligence, Surveillance, and Reconnaissance (ISR) solutions and services

Products/Offerings

- Systems engineering
- Systems Integration
- Information operations and assurance
- Signal processing
- Intelligence operations support

Key Customers

- National Reconnaissance Office (NRO)
- NSA
 - U.S. Air Force
- U.S. Army

2002 Total Sales:

\$650 M

∞Major Programs

- RHAPSODY (NRO)
- VOYAGER (NRO)
- Land Information Warfare for the Army (LIWA)

- High-end systems engineering services/solutions
- Strong technology base (computer network, software, data information and knowledge management, modeling & simulation)
- Systems technologies (communications, remote sensing, signal processing, visual computing, and security)
- Branded processes (InfoShelldTM, Lightning SolutionsSM, Accelerated Process Improvement)

NORTHROP GRUMMAN

Technical Services

Market

- Federal
 - Operations & maintenance
 - Training & simulation
 - Technology services
- State & Local
 - Information technology support services

Products/Offerings

- Base & range operations support
- Logistics support services
- Training support services
- Aerospace technology services
- Information technology resource management

Key Customers

- Department of Defense (U.S. Alr Force, U.S. Army)
- Civil Federal (NASA)
- State & Local (TX, IL)

2002 Total Sales:

\$650 M

Major Programs

- U.S. Air Force/NASA Joint Base Operations Support Contract (J-BOSC)
- U.S. Army battle command training
- NASA sounding rocket operations contract
- Illinois electronic benefits transfer

- Cost competitiveness
- Efficient resource utilization
- Innovative bidding models
- Developed training methodologies
- Innovative application of key technologies

\$200 M



Commercial Information Services

Market

- IT outsourcing
- IT Infrastructure support services

Products/Offerings

- IT managed services (outsourcing)
- Help desk services
- Network operations and management
- Field support (hardware maintenance, deskside software support)
- Data center services
- IT architecture consulting

Key Customers

- Federal agencles (INS)
- Commercial (Vought Aircraft, Unocal, Hewlett -Packard)
- State & Local (TX, LA)

⊯Major Programs

- INS TEAMS Support
- Vought Aircraft Industries
- State of Texas Protective and Regulatory Services

2002 Total Sales:

- Northrop Grumman brand and values
- Ability to leverage Northrop Grumman IT technical solutions (information assurance, systems engineering, etc.) to commercial marketplace
- Quality service track record with commercial and government accounts and high customer satisfaction ratings

NORTHROP GRUMMAN

Computing Systems

2002 Total Sales:

\$750 M

Market

- Networking and security
- Computing systems
- Storage solutions

Products/Offerings

- Cisco (networking)
- Sun Microsystems (computing systems)
- Hewlett Packard (computing systems)
- Oracle (software)
- EMC Corporation (storage)

Key Customers

- U.S. Army
- Dept. of Treasury
- Social Security Administration

Major Programs

Multiple Government-wide contracts for DoD and Civil Federal (e.g., SEWP III, ECS III, SSA BPA)

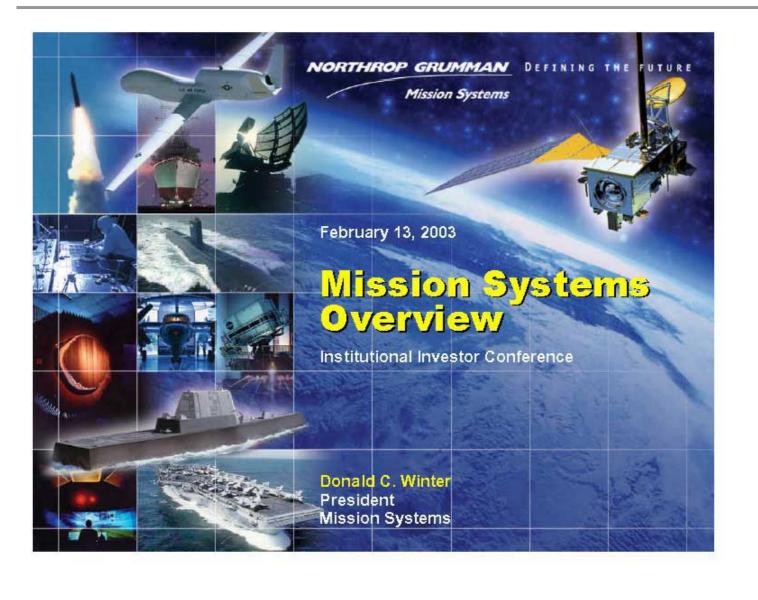
- Qualified, highly certified technical staff
- Best in class partnerships
- Strong past performance across a broad customer base

Northrop Grumman IT Positioned to Meet Growth Goals

- *x*Litton integration complete with outstanding results
- Domain expertise across the board in all growth markets
- Provide customer flexibility through various contract vehicles
- ⊯Technology and process leadership
- Sustained, superb program performance
- Excellent people with low turn-over
- Seasoned management team that delivers
- Significant cross-sector cooperation and business growth

Glue for Network Centric Warfare

Will Deliver Double-digit Sales and Margin Growth



NORTHROP GRUMMAN Mission Systems

Mission Systems ... End-to-End Solutions

- ⊯ 15,000+ employees
- ⊯ Diverse business base
 - ✓ Presence in over 20 countries and 50 states
 - ≈ 2,000 active contracts and task orders



Guardrail

Leading Integrator of Complex, Mission-Enabling Systems



Business Highlights in 2002

- Source Won Centers for Disease Control Information Technology support contract
- Solution with the second secon
 - Joint National Integration Center
 - Space Control Mission Area Prime Integrator Contract
 - Air Force Airborne Signals Intelligence
- Established significant positions with new customers (e.g., U.S. Marine Corps, U.S. Coast Guard, Air Force Weather Agency)
- 😹 Successful BMC3 role on Missile Defense team
- ✓ ICBM full rate production ramp-up

NORTHROP GRUMMAN

Mission Systems

Operational Effectiveness

CMMI (Capability Maturity Model Integration)	Six Sigma		
Process improvement models for product and service development and maintenance	Disciplined, data driven methodolog for decision making and process improvement		
 A competitive discriminator We have made great progress: Process assets in place Successful external Level 3 assessments Initial Level 4 assessments complete 	 Incorporated into "the way we work" at Mission Systems Dashboards, quarterly reviews, strategic plan, etc. Excellent customer participation and value 		
<u>Future</u> – Leveraging Six Sigma projects f – Complete external assessments			

Process Improvements Are Key to Operational Effectiveness

Business Environment/Market Trends

😹 Defense/Intelligence

- Net increases in spending with solid funding in Mission Systems legacy/expansion markets (e.g., ICBM, Missile Defense)
- Some customers engaged in major changes (e.g., NORTHCOM, STRATCOM, Department of Homeland Security)

😹 Civil Federal

Selected growth areas, focused in security-related niches

😹 State & Local

- Recession has/will reduce civil, state & local expenditures over next few years
- Expected flow of federal funding has yet to occur

Balancing Portfolio Is Key to Continued Success





Mission Systems Objectives

⊯Deliver long-term double-digit annual sales and earnings growth with strong cash flow

Overall Strategy

Se a leading global system integrator of complex, mission-enabling systems

Major Themes

- ⊯Meet commitments
- ⊯Pursue new business opportunities with vigor
- SMove forward with process improvement initiatives

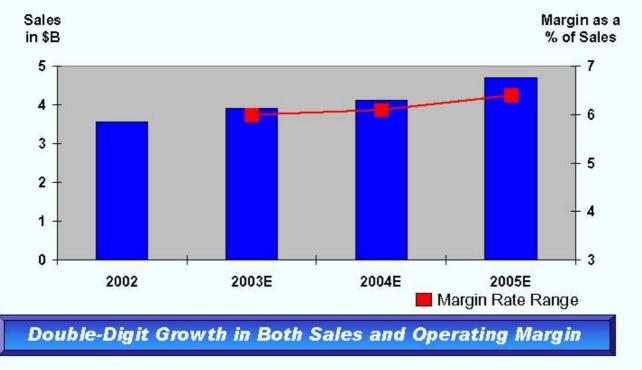


Sustained Commitment to Performance



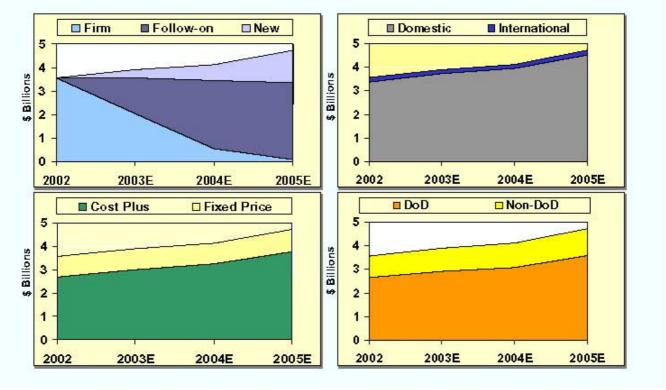


Financial Performance



NORTHROP GRUMMAN Mission Systems

Sales Mix





2003 E

0.0

2002

Command, Control & Intelligence

2004 E

2005 E

NORTHROP GRUMMAN Mission Systems

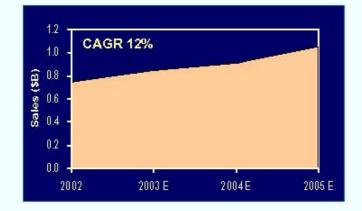
Command, Control & Intelligence

*⊯*Mark et

- Command, Control, & Intelligence Systems

@Products/Offerings

- Signals Intelligence & Exploitation Systems
- Data Collection Modeling & Product Generation
- System Engineering; Simulation, Integration & Test
- Spacecraft C2 Systems & Payload Software





- l≪Key Customers
 - Intelligence Community
 - U.S. Air Force
 - U.S. Army
 - U.S. Navy
- ⊯Major Programs
 - Guardrail
 - Restricted
- *⊯*Key Differentiators
 - Domain expertise in Signals, ELINT, and Information Warfare

NORTHROP GRUMMAN Mission Systems

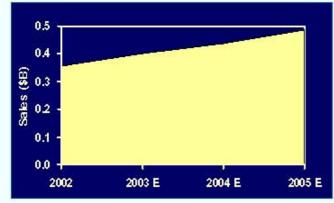
Tactical Systems

*∞*dMark et

- Command, Control, Communications & Computer Systems
- UAVs and Vehicular System Integration
- Battlefield Logistics System Automation

*⊯*Products/Offerings

- Battle Command and Information Systems
- Tactical Operations Centers
- Tactical UAVs/Ground Control





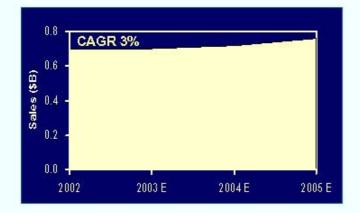
- ∠Key Customers
 - U.S. Army
 - U.S. Marine Corps
- Major Programs
 - Force XXI Battle Command Brigade-and-Below
 - Nuc/Bio/Chem Reconnaissance System
 - Tactical Operations Centers
 - Operation Enduring Freedom
- - Command & Control Product Portfolio
 - Patents & Technology

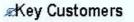
NORTHROP GRUMMAN Mission Systems

ICBM

eMarket

- Intercontinental Ballistic Missile (ICBM) Program for U.S. Department of Defense
- *⊯*Products/Offerings
 - Program management, systems engineering & integration, sustainment & modernization and ICBM domain knowledge





- ICBM System Program Office
- U.S. Air Force
- U.S. Strategic Command

Major Programs

 ICBM Prime Integration Contract

- System Engineers for ICBM since program inception
- Program Management



NORTHROP GRUMMAN Mission Systems

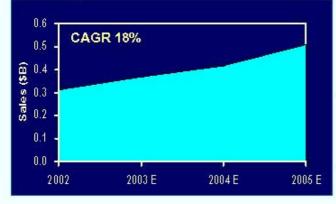
Missile Defense

*⊯*Market

- Integrated Missile Defense system & test support for U.S. Military

*⊯*Products/Offerings

- Battle Management Command & Control Systems
- Wargames, Modeling & Simulation
- Systems Engineering & Integration
- Target Vehicles



*e*Key Customers

- Missile Defense Agency
- Boeing
- Lockheed Martin
- Major Programs
 - Ground-Based Midcourse Defense Segment
 - Joint National Integration Center
 - BMC³ Systems Engineering and Integration
 - Liquid Booster Target Vehicle

*e*Key Differentiators

- Software: Discrimination algorithms
- Ballistic missile domain knowledge

Major Opportunity

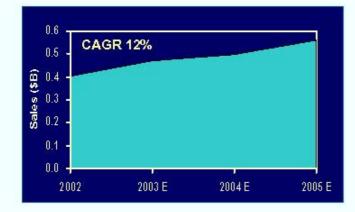
- KE Boost Phase Interceptor



Information & Technical Services

eMarket

- Quality Differentiated Services
- @Products/Offerings
 - Information Technology
 - Systems Engineering and Analysis
 - Military Training Modeling & Simulation
 - Test & Evaluation and Technical Support





Key Customers

 U.S. Department of Defense (including Joint Forces)

Major Programs

- Defense Travel System
- Joint Warfare Fighter Center
- Balkan Linguists
- - Excellent technical staff
 - Joint training & simulation

NORTHROP GRUMMAN Mission Systems

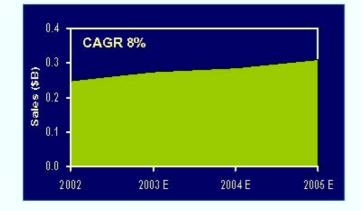
Enterprise Management Services

Market

 Operations and Maintenance (O&M), and training services

Products/Offerings

- Foreign Military Training and Staff Support
- Facility Operations & Maintenance
- Education and Vocational Training





- U.S. Army
 - U.S. Air Force
 - U.S. Department of Labor
 - U.S. Department of Justice

Major Programs

- Ft. Irwin Logistics Support Services
- Turkey Base Maintenance
- Saudi Arabian National Guard
- INS Application Support Centers

- Strong past performance and long term customer relationships
- OCONUS operations



NORTHROP GRUMMAN Mission Systems

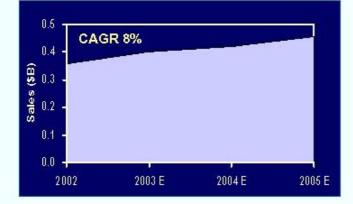
Civil Systems

#Market

- U.S. and U.K./Europe Public Safety
- U.S. Human Services, Public Administration & Aviation

∠Product/Offerings

- Command centers
- Communications systems
- Integrated Justice Information Systems
- Systems Engineering & Technical Assistance





- Key Customers
 - State and large city/county Governments
 - U.S. Federal Aviation Administration
 - Police Information Technology Organisation

- Ohio Communications System
- FAA Technical Assistance Contract
- U.K. Fingerprint Identification System
- - DoD command center experience

NORTHROP GRUMMAN Mission Systems

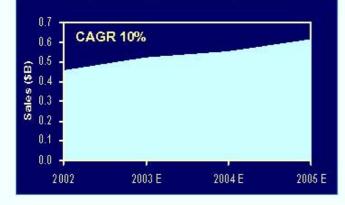


ø Market

- Federal Enterprise Networks & Information Technology
- Commercial (including Healthcare)

Service Servic

- Enterprise Network Engineering & Operations
- Enterprise Information Systems
- Integrated Physical Security Solutions





- - U.S. Department of Treasury
 - U.S. Department of Health & Human Services
 - American Red Cross
- Major Programs
 - Treasury Communication System
 - IRS Integration Support Program
 - EDGAR
 - Centers for Disease Control
- - Converged large-scale, secure networks
 - Integrated Physical Security Solutions

NORTHROP GRUMMAN

Mission Systems

Strategic Opportunities

Major 2003 Opportunities Being Pursued

Intelligence	PROGRAM	ESTIMATED <u>VALUE</u>	
	☐ ≪Restricted Programs		
Defense	KE Boost Phase Interceptor	~ \$4.0B	
	(for Missile Defense) ≪Targets, Payloads and Countermeasures (for Missile Defense)	~ \$1.5B	
Civil Federal	SIDENT 1 (United Kingdom)	~ \$250M	

Major Opportunities Across Multiple Markets





NORTHROP GRUMMAN Integrated Systems

Integrated Systems...

- ≈\$3.7B 2003E Sales
 ≈13,000 Employees
 ≈4 Major Development Centers
 2 Multiple Billion Dollar + Development Programs
- **∞4 Major Production Locations**
 - 2 Major Multi-Year
 Production Programs
- Souble Digit CAGR Across
 Entire Product Base

Poised to Meet the Future







Enabling Tomorrow's Information Centric Combat Environment NORTHROP GRUMMAN

Strategic View

Operational Excellence

Competitive Posture
Competitive Posture

メロジョン by Anticipating Customer Needs – Provide "Best Value" Solutions

Sharing Knowledge to Deliver Capabilities Enabling Integrated Military Concepts of Operations



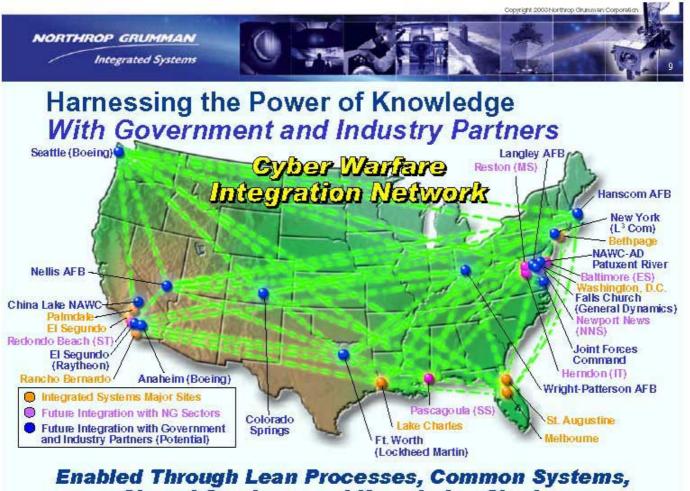
Enabled Through Lean Processes, Common Systems, Shared Services, and Knowledge Sharing



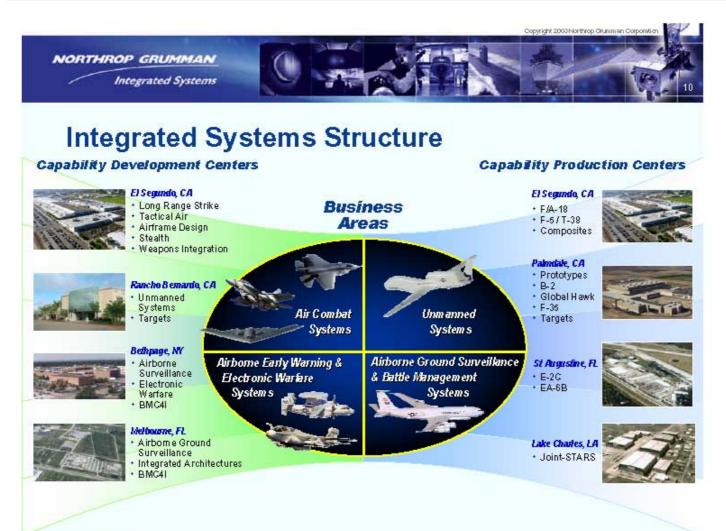
Enabled Through Lean Processes, Common Systems, Shared Services, and Knowledge Sharing



Enabled Through Lean Processes, Common Systems, Shared Services, and Knowledge Sharing



Shared Services, and Knowledge Sharing



02-E0050A 11/15/2002





Proven Leadership in Key Defense Markets

- Leading Market Positions
 - Surveillance Systems and Battle Management Capabilities
 - Airborne Standoff
 Electronic Jamming
 Systems
 - Long Range Strike Systems
 - Unmanned Systems

	Sales	
2001	2002	2003
\$3.0B	3.3B(E) 3.3B	3.7B(E)
	3.36	



2002 Accomplishments

- **∞**Program Performance
 - High Customer Satisfaction (CPAR and Award Fee Ratings)
- Mew Business Awards
 - Global Hawk EMD / LRIP
 - MP-RTIP / 767 Integration
 - Pre-SDD Funds for Advanced Hawkeye / Radar Modernization Program (RMP)
 - Pre-SDD Funds for Follow-On Support Jammer (FOSJ)
 - First Phase Funding for the B-2 Radar Modernization Program



Optimizing Our People and Physical Resources to Achieve Strong Operating Results

2001

2004E

2001

2002

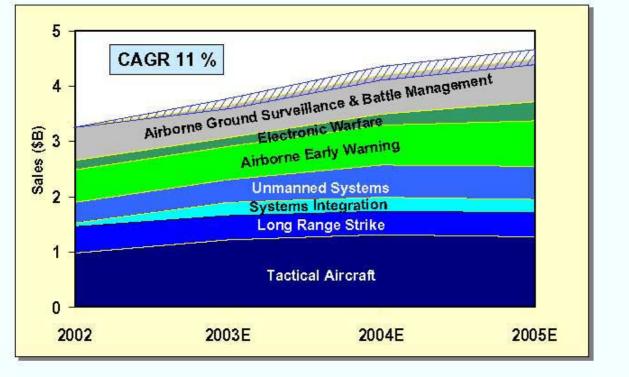
200BE

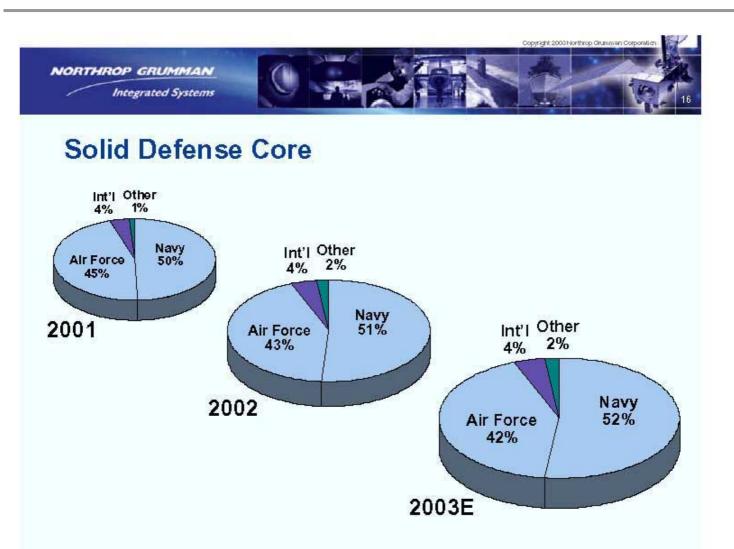
2004E

2005E



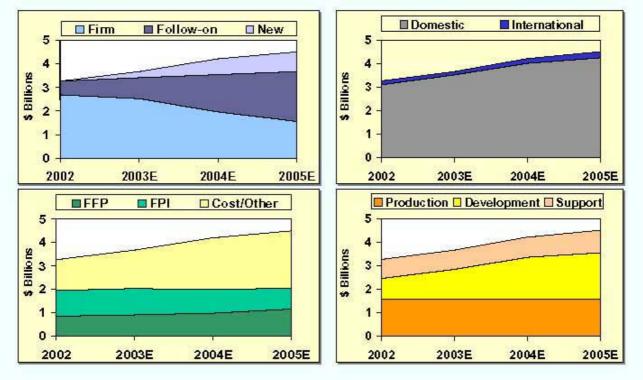
Revenue Forecast 2003-2005

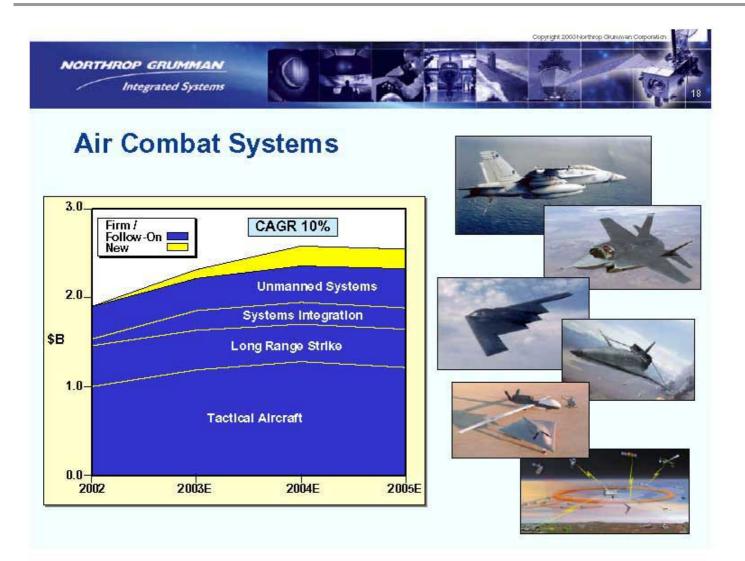




NORTHROP GRUMMAN

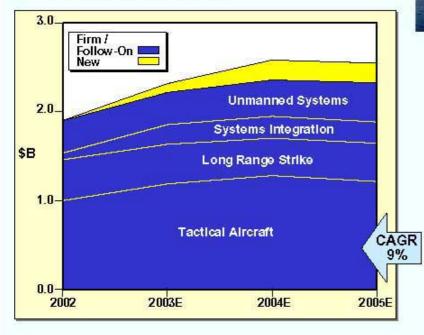
Sales Mix





NORTHROP GRUMMAN

Air Combat Systems Tactical Aircraft





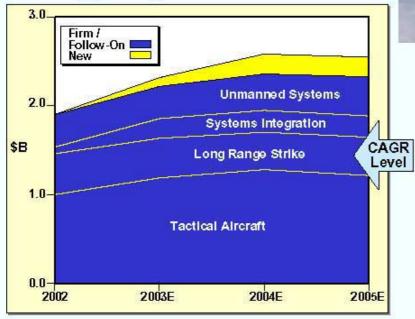
Key Programs ≪F/A-18E/F ≪F-35 SDD ≪F-5/T-38

Future Thrusts

 ☞F-35 Full Production
 ☞F/A-18E/F MY2
 ☞Unmanned Combat Air Vehicles



Air Combat Systems Long Range Strike

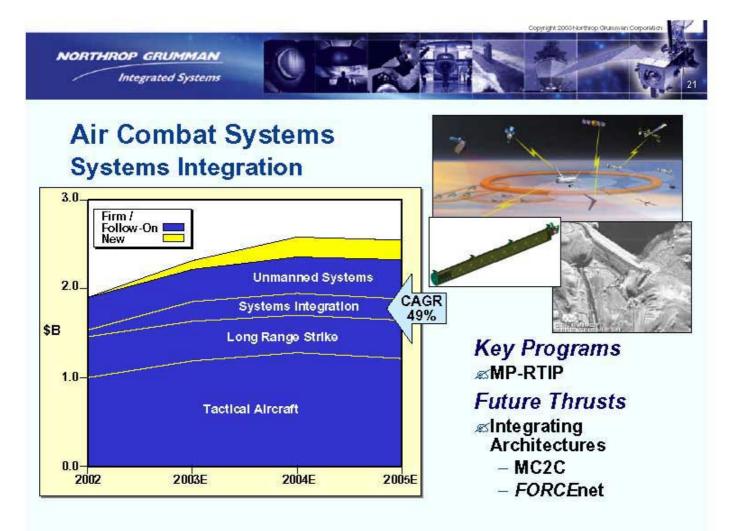




Key Programs ≪B-2 Sustainment ≪B-2 Upgrades

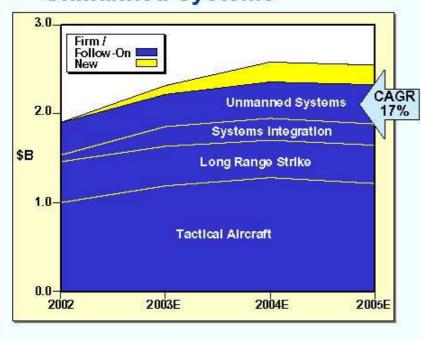
Future Thrusts

✓Preparedness for Next Generation Strike Capability – Manned or Unmanned





Air Combat Systems Unmanned Systems

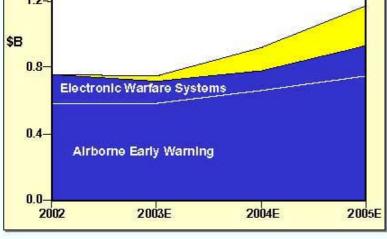


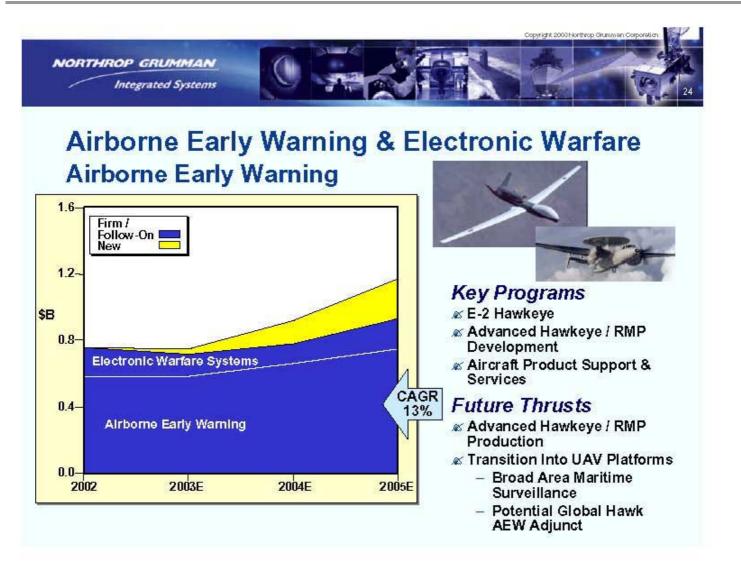


Key Programs S Global Hawk Fire Scout Targets Future Thrusts Broad Area Maritime Surveillance (BAMS)

- SNew Missions / Customers
- ≝ Unmanned Combat Air Vehicles (UCAV)
- International Opportunities

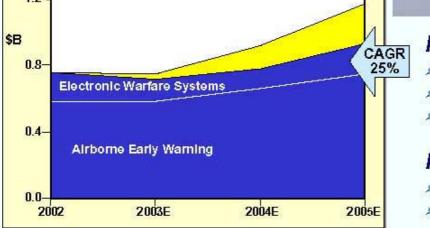






Airborne Early Warning & Electronic Warfare Electronic Warfare Systems

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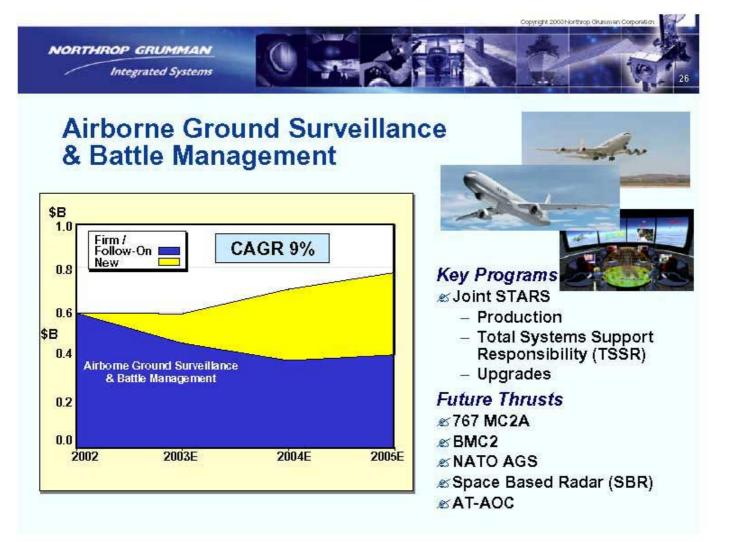


Key Programs ≪EA-6B ICAP III ≪EA-6B ≪Aircraft Product Support & Services

Future Thrusts

⊯EA-18 (FOSJ)

Solution Stributed Jamming Concepts (UCAV/MALD)



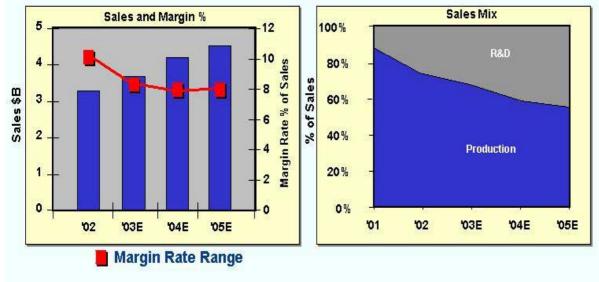




Northrop Grumman



New Capabilities Drive Growth



Balanced Risk and Return While Growing



Pipeline Remains Healthy

- moler

In Production / Service

- + F/A-18E/F
- + E-2C Hawkeye 2000
- + Joint STARS
- * B-2
- Global Hawk
- * EA-6B
- * Fire Scout
- * BQM-74
- * BQM-34
- + F-14
- + C-2
- + F-5 / T38

In Development

- + F-35
- + MP-RTIP
- * MP-RTIP/767
- Global Hawk Spiral Development
- * Fire Scout
- * Advanced Hawkeye / RMP
- * EA-6B ICAP III
- * B-2 Radar Upgrade
- + ALMDS
- + COBRA
- * RAMICS
- * BQM-74F

Key New Opportunities

- + EA-18 (FOSJ)
- · MC2A-BMC2
- + UCAV
- * Global Hawk Derivatives (BAMS)
- + Global Hawk International
- + Watchkeeper
- * MALD
- + NATO AGS
- * Fire Scout International
- + SBR
- + DJC2
- + AT-AOC
- * MC2C





2003 Objectives

Continue to Perform:

- Meet all Contract Commitments
- Deliver Excellent Financial Results
- Continue High Level of Customer Satisfaction and Award Fees
- *⊯*Capture New Business
 - -Advanced Hawkeye / RMP SDD
 - EA-18 Follow-On Support Jammer (FOSJ) SDD
 - MC2A Weapon Systems Integration (WSI) Pre-SDD
 - -Global Hawk Broad Area Maritime Surveillance
 - Secure Fire Scout Production
 - Win UCAV Contract
 - Win U.K. Watchkeeper Down-Select

NORTHROP GRUMMAN Integrated Systems

A Solid Track Record...

 A Firm Business Base
 Strong Product Portfolio
 Focused on Performance
 Sound Business Objectives
 Capabilities Well Aligned to DoD Needs
 Realizing Growth Potential

...and an Exciting Future



- ~\$2.5B 2003E sales
- 8,500 employees

NORTHROP GRUMMAN

Space Technology

- Over 4,000 scientists & engineers
- Headquartered in Redondo Beach, CA
 - 13 locations across the U.S.
- Broad advanced technology portfolio
 - 2,850 issued and pending patents

Well Positioned for Strong and Profitable Growth



Space Technology Value Perspective

Demonstrating Growth

- New contracts for \$6.4B in 2002
- >20% sales growth in 2003 to \$2.5B

Outstanding Performance

- 93% award fee score in 2002
- 2003 margin projected at 6.5% to 7%
- Six Sigma driving continued operational improvement

Market Leadership

- Advanced technology space systems
- Laser weapons
- CNI avionics

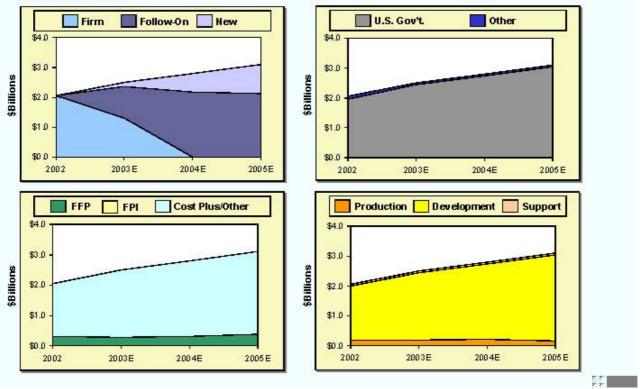
Strategic Focus

- Broad technology capability
- Expansive talent base
- Systems integration and technology leader
- Trusted provider



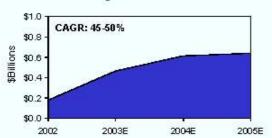


Sales Mix





Civil Space



Market Position

- Leader in high-energy astronomic observatories
- Leader in advanced earth sensing missions
- Outstanding program performance history

Opportunities

- Geostationary Operational Environmental Satellite-R (GOES-R)
- Space Science



Major Programs



Crab Nebula (Chandra)



Nobel Laureate Riccardo Giacconi



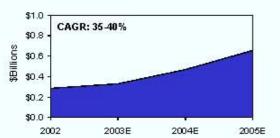
Earth Observing System



National Polar-orbiting Operational Environmental Satellite System (NPOESS)



Missile Defense



Market Position

- Complex system prime contractor
- World leader in high-power lasers for defense
- Mission expertise

Opportunities

- ABL Block 08
- STSS Cycle 2
- Tactical Lasers, e.g., Mobile Tactical High Energy Laser (MTHEL)

Major Programs



Airborne Laser (ABL)



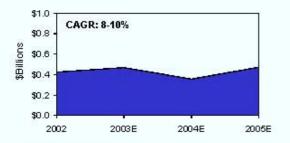
Opportunity



Tactical Lasers



Satellite Communications



Market Position

- Outstanding track record of program performance
- Leader in complex satcom systems
- Performance/price leader in broadband payloads

Opportunities

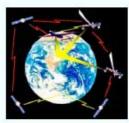
- TCS
- AEHF Follow-Ons

Advanced Extremely High Frequency (AEHF) Payload



Major Programs

Milstar Payload

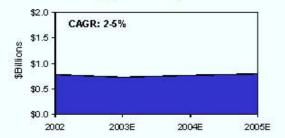


Opportunity

Transform ational Communications System (TCS)



Intelligence, Surveillance & Reconnaissance



Market Position

- Decades of consistent, excellent on-orbit performance
- Leading developer of advanced recon systems
- Decades of space/ground operational expertise

Opportunities

- Restricted
- SBR

Major Programs



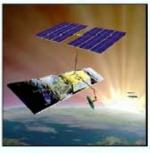
Multiple Restricted Programs

Opportunity

Space Based Radar (SBR)



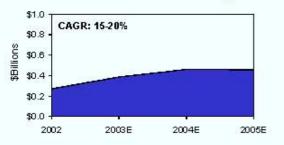
Defense Support Program (DSP)



I



Avionics/Military Radios



Market Position

 Leading provider of integrated communication, navigation, identification avionics

Opportunities

- JTRS
- Aircraft upgrades



RAH-66 Comanche



Major Programs



Opportunities

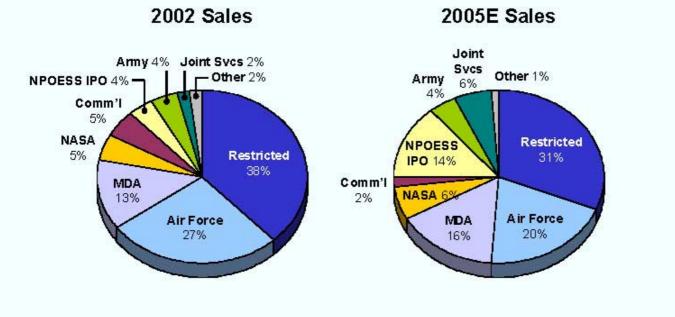


Joint Tactical Radio System (JTRS)



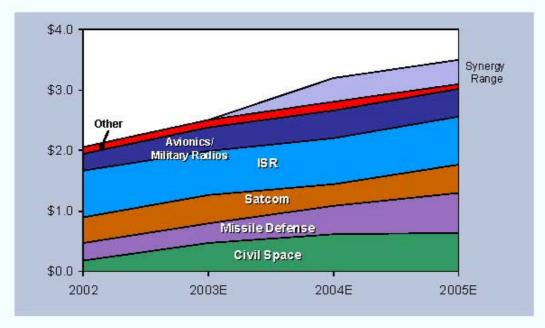


Broad Customer Portfolio



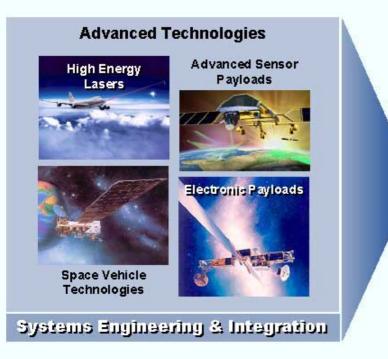


Sales Projections (\$Billion)





Technology Aligned with Future Defense Needs



Defense Transformation

- Leverage to the intelligence community and the warfighter
- Need for solutions that are complex and technologically-driven
- Demand for improved execution



Technology Bank

Original Strategy

- Develop technology base
- Patent aggressively
- Use for government business
- Grow commercial sales
 - License where sales growth not feasible
- Profit investments to drive commercial growth
 - \$30M in 2002

Current Strategy

- Develop technology base
- Patent aggressively
- Use for government business
- Capture commercial value externally
 - Favor licensing
- Investment focused on government applications
 - Minimal impact in 2003

Six Sigma Management Framework Drives Operational Improvements

NORTHROP GRUMMAN

Space Technology

wight 2003 Northcas Grunn

Accomplishments	Measurable Results	Looking Forward
 2001 – Business transformation 	 High program capture rate 	 Accelerate transformation
 Six Sigma selected 	Cost savings	• Focus on:
 Uniquely tailored Demonstrated improvements 	 1,300 employees trained Active customer involvement 	 Program execution Operating efficiencies Broader customer engagement

Legacy Programs Position Us for Future Opportunities

	Past	Present	Future
Satcom	Milstar	AEHF	TCS
Civil Space	Gamma Ray Observatory Chandra	EOS NPOESS JWST	GOES-R Space Science
Missile Defense	DSP Chemical Laser Weapons	STSS Cycle 1 THEL ABL	STSS Future Cycles Solid State Laser Weapons ABL Follow-On
ISR	Addressed Cold War Target Set	Addressing Evolving Threat	Increasing Threat Capability Drives Need for Advanced Technology Solutions
Avionics/ Military Radios	Integrated Communi- cation, Navigation, Identification Avionics	F-35 JSF F/A-22 Comanche	JTRS Future Clusters Aircraft Upgrades





Major Wins Drive Profitable Growth



*Subject to purchase accounting & conformance adjustments

🗖 Margin rate range



On Schedule to Achieve Full Integration

- Successful "Day One" event—over 7000 attendees
- Sector standup complete by April
- Cross-sector synergy activities underway



Employees are Excited About the Future As Part of Northrop Grumman



Opportunities for Cross-Sector Synergies

NGST Market Areas	Electronic Systems	Information Technology	Integrated Systems	Mission Systems	Newport News	Ship Systems
Intelligence, Surveillance, Reconnaissance	*	1	4	1	•	1
Satellite Communications	*	*	*	*	*	*
Missile D <i>e</i> fense	×	1	1	1		1
Civil Space	1		1	1		
Avionics/Military Radios	1		*			

Merger Provides an Untapped Potential to Grow the Business



2003 Objectives

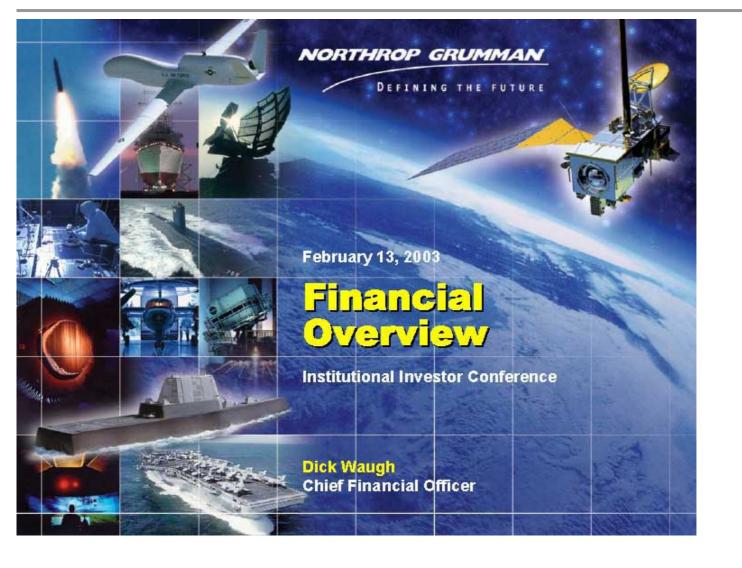
- Program performance across entire portfolio
- Financial performance
- Growth through new opportunities and synergy
- Continued transformation of the business through Six Sigma
- Full integration as a key part of Northrop Grumman



Summary

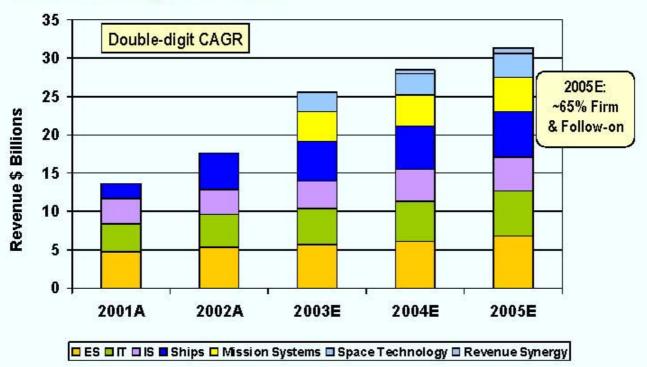
- Focused on defense markets with substantial growth opportunities
- Substantial contract acquisition backlog
- Technology leadership drives continued growth
- Demonstrated outstanding track record of financial performance
- Program execution excellence is our first priority

Strong Contributor to Northrop Grumman Value Growth





Double-Digit Growth





Northrop Grumman Will Grow Significant Value

- Revenue Growth
 - Portfolio of stable production programs
 - Strong win rate in 2001 and 2002
 - Support for increasing defense-related budgets
 - Significant new opportunities
- Stable to increasing margin rate
- Strong cash from operations
- Tight focus on asset management
- Improving balance sheet
- Options available to enhance shareholder value



FAS Pension Accounting Does Not Drive Value

- Funding driven by ERISA not FAS
 - Different actuarial methods
 - Much smoother results
 - Less short-term market sensitivity
 - Better visibility of future funding
- Cash contributions are allowable costs in Government contracting
- Recoverability method
 - Cost reimbursable: all costs recoverable
 - Fixed price: priced to recover contributions

2003 Cash Contributions Included in Contract Pricing



Pension Elements – 2002 versus 2003

- 2003 FAS 87 will be finalized in Q1 2003
- \$90 million FAS 87 income for 2002 vs. preliminary estimate of \$600 million expense for 2003:
 - \$424 million: (9%) plan return versus 9.5% expected rate of return
 - \$58 million: Expected rate of return lowered to 9% from 9.5%
 - \$59 million: Discount rate lowered from 7% to 6.5%
 - \$145 million: TRW
- CAS add back estimate of \$260 million
 - \$145 million: TRW



Discontinued Operations

- TRW Automotive
 - HSR approval
 - EU approval
 - Expected close Q1 2003
 - ~\$3.9B cash
 - ~20% equity position
 - \$600M PIK note @ 8% - 10%

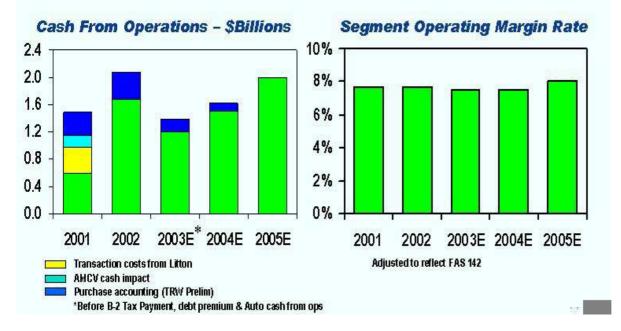
- Component Technologies
 - ✓ VEAM sold to ITT
 - Multiple transactions
 - Expected completion through Q3 2003

Proceeds Used Primarily for Debt Reduction



Strong Financial Performance

- Strong cash generation continues near-term purchase accounting
- Stable margin rate on growing revenues potential for rate expansion



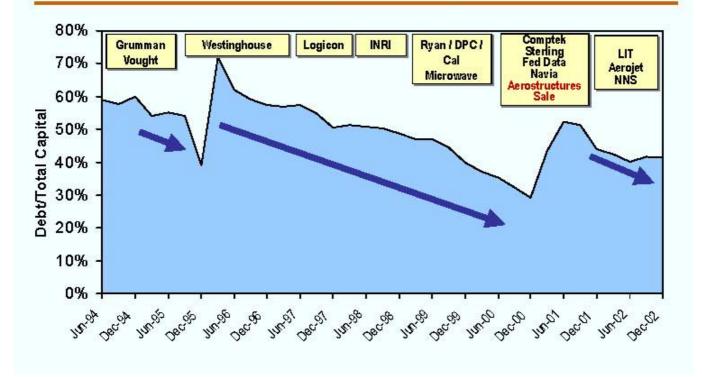


2003 Estimated Cash From Operations (\$millions) Guidance

ons)	Guidance		
00000	Low	<u>High</u>	
Sales	25,000	26,000	
Segment Margin Rate	~ 7.5%	~ 7.5%	
Segment Operating Margin	1,875	1,950	
Add:			
Depreciation	520	520	
Amortization	264	264	
Subtotal	2,659	2,734	
Less:			
Taxes Payable (excl B2 Payment)	(525)	(550)	
Unallocated Expenses	(100)	(100)	
Net Interest Payable	(370)	(370)	
Subtotal	1,664	1,714	
	<u> </u>	\sim	
Increase in Working Capital	(600 - 400)		
Cash from Operations (before B2 Tax Pmt)	1,100 - \$1,300		

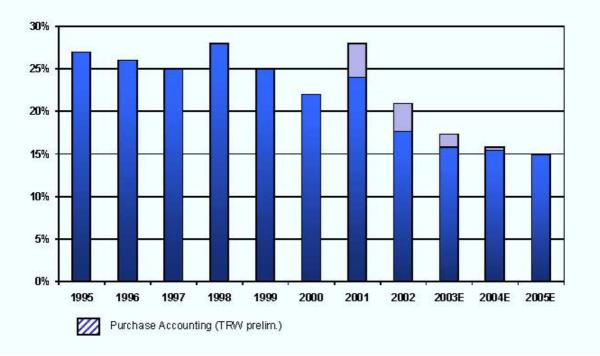


Demonstrated Ability to Manage Debt





Working Capital % Sales Ongoing Cash Management Emphasis



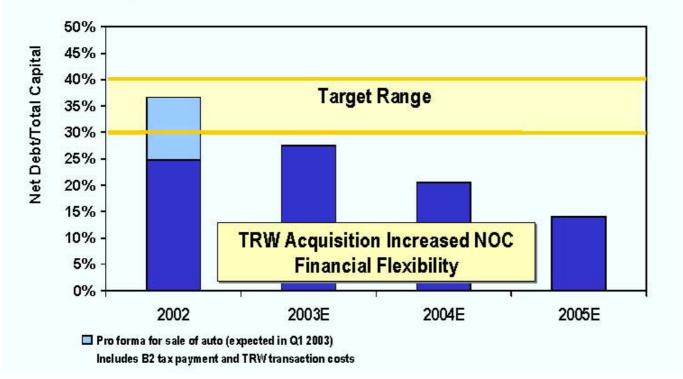


Company-Wide Focus on Cash Management

- Focus on operating margin
 - Basis of operating cash generation
- Focus on working capital
 - Contract terms
 - Performance-based payments
 - Progress payments
 - Advance payments
 - Operational efficiencies, e.g., Lean
- Leadership, incentives and training
 - Cash focus from senior management
 - Cash goals in incentive compensation
 - Company-wide training links cash flow to Shareholder Value



Strong Balance Sheet





Potential Uses of Cash

- M&A portfolio shaping
- Debt reduction
- Stock repurchase
- Dividends



NOC = Value for Shareholders

Top Line Revenue Growth

- ~\$25B to \$26B in 2003
- ~\$28B to \$29B in 2004
- ~\$30B to \$32B in 2005

EPS

- 2003 between \$4.00 and \$4.50
- 2004 revenue growth, steady margins and reduced net debt
- 2005 revenue growth, margin expansion and reduced net debt

Segment Operating Margin

- 2003 mid 7% range
- 2004 mid 7% range
- 2005 rate expansion

Cash from Operations

- 2003 \$1.1B to \$1.3B before B-2 tax payment
- \$1.5B+ in 2004
- Approximately \$2B in 2005 and growing thereafter

Capital Structure Allows Value Enhancing Actions



Northrop Grumman = New Powerhouse

- Sustainable growth in defense spending
- Best positioned portfolio
- Purest defense play
- Strong relationships with all DoD & Intelligence customers
- Strengthened system-of-systems integration capabilities
- Strong acquisition integration track record
- Solid financial performance & balance sheet
- Excellent, highly visible, double-digit growth prospects





Focused on Growth in Shareholder Value



Safe Harbor Statement

Certain statements and assumptions in these materials contain or are based on "forward-looking" information and involve risks and uncertainties. Such "forward-looking" information includes, among other things, the impact of the TRW Inc. acquisition on revenues and earnings. Such statements are subject to numerous assumptions and uncertainties, many of which are outside Northrop Grumman's control. These include Northrop Grumman's ability to successfully integrate its acquisitions including TRW, to realize the preliminary estimates for accounting conformance and purchase accounting valuations for TRW which will be finalized in the 2003 fourth quarter and which may materially vary from these estimates, to close its announced sale of the TRW automotive business, assumptions with respect to future revenues, expected program performance and cash flows, returns on pension plan assets, the outcome of contingencies including litigation, environmental remediation, divestitures of businesses, successful reduction of debt, successful negotiation of contracts with labor unions, timing and amounts of tax payments, and anticipated costs of capital investments. Northrop Grumman's operations are subject to various additional risks and uncertainties resulting from its position as a supplier, either directly or as subcontractor or team member, to the U.S. Government and its agencies as well as to foreign governments and agencies; actual outcomes are dependent upon factors, including, without limitation, Northrop Grumman's successful performance of internal plans; government customers' budgetary constraints; customer changes in short-range and long-range plans; domestic and international competition in both the defense and commercial areas; product performance; continued development and acceptance of new products; performance issues with key suppliers and subcontractors; government import and export policies; acquisition or termination of government contracts; the outcome of political and legal processes; legal, financial, and governmental risks related to international transactions and global needs for military aircraft, military and civilian electronic systems and support, information technology, naval vessels, space systems and related technologies, as well as other economic, political and technological risks and uncertainties and other risk factors set out in Northrop Grumman's filings from time to time with the Securities and Exchange Commission, including, without limitation, Northrop Grumman reports on Form 10-K and Form 10-Q and the company's recently filed amendments to Form S-4.