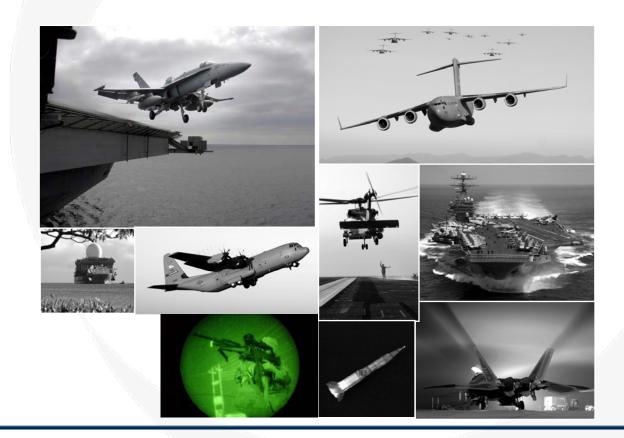


## A Wall St Perspective on the Defense Industry



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## Defense Industry Investment Summary

**2009 Defense** Investing Themes It's Still Cyclical "Defensive" Qualities/Underperforms in Market Rally New Admin/Iraq

Overhang

Budget Pressure

Valuation on Defense Stocks Reflects:

•Decelerating/declining growth environment

•Better than market EPS growth through 2009/10

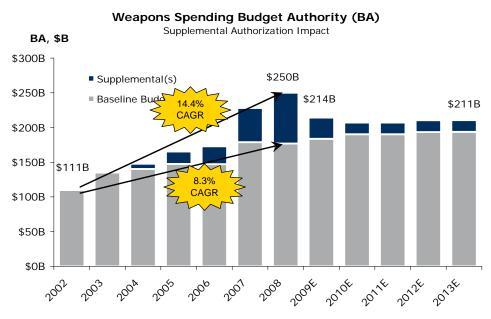
•Long-term visibility from backlogs/budgets

•Free cash flow after dividends of  $\sim$ \$15B over 20009/10 leaves plenty to deploy in acquisitions, dividend increases and share repurchase

•Growth opportunities (acquisitions and organic) beyond typical weapons spending include homeland security, federal IT, and MRO



# Defense Budget Dynamics



BA, \$B \$240B 40% Weapons Other \$200B -% Weapons 30% \$160B \$120B 20% \$80B 10% \$40B \$14B \$0B 0% 2002 2003 2004 2005 2006 2007 2008 2009E Source: Department of Defense and Oppenheimer & Co. Inc.

Supplemental Appropriations (BA)

Weapons Spending Allocation

Supplemental Appropriations have protected baseline budgets, providing a boost to budget authority above and beyond those seen during past conflicts...

...while weapons Spending has garnered an increasing share of them, in stark contrast with past history, when the focus was on Operations & Maintenance

Supplementals protect baseline programs and bolster budgets of war-torn equipment

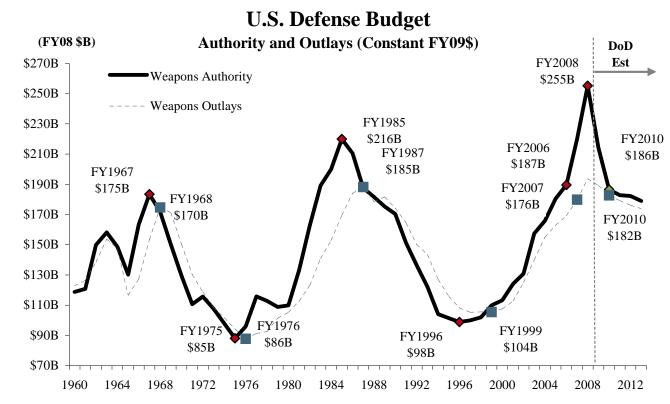


# Our Thinking on Defense Spending Cycles

Drivers to Defense Spending

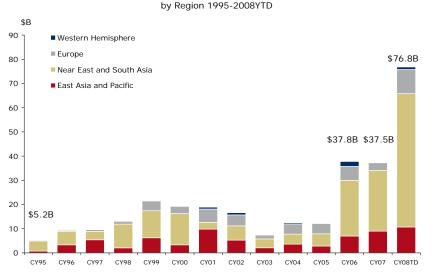
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- 1. Threat: Domestic Fears Take Center Stage
- 2. Available Funds: Scarcity Builds
- 3. Washington World View: Unknown



Cycle Drivers Have Turned Negative

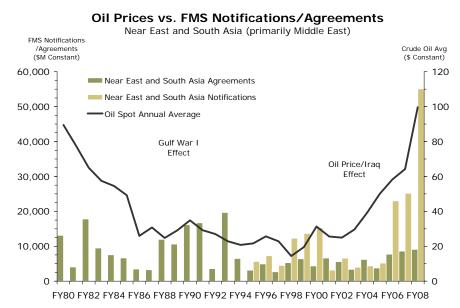
# Diplomacy Through Arms



Foreign Military Sales (FMS) Notifications

Source: Department of State and Oppenheimer & Co. Inc.

FY06 & FY07 FMS notifications exceeded the previous three years combined, doubled again in 2008.



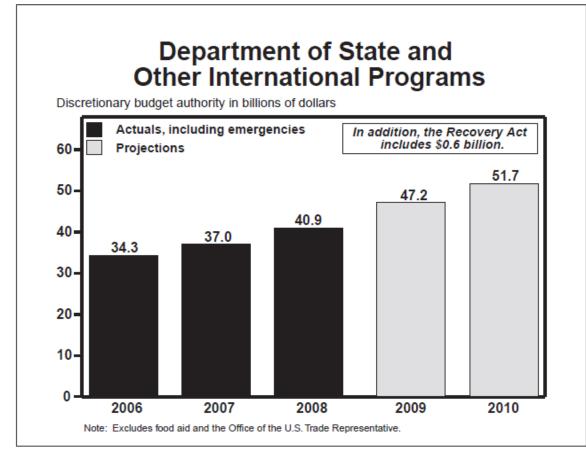
Source: DoD DSCA FY89-05 Fact Books, Congressional Notifications (FY06 estimate), and Oppenheimer & Co. Inc.

Buoyed by surging oil revenue, Middle Eastern countries are leading the pack.

#### International acceleration should dampen downturn



## Soft Power Flowing to State's Empowerment

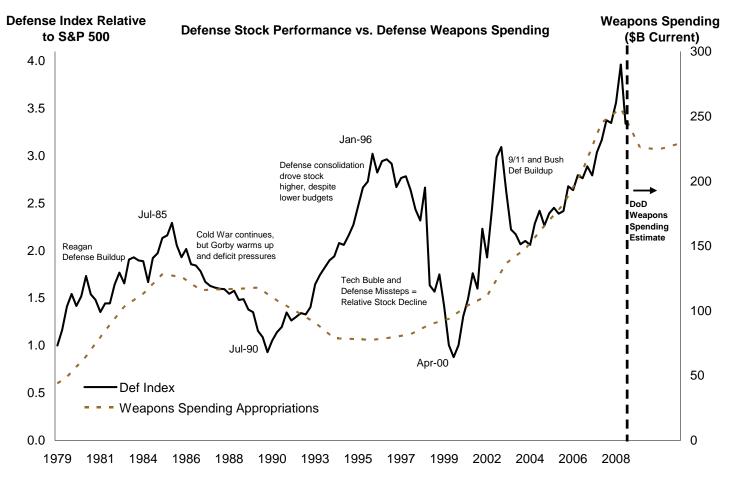


Source: FY09 President's Budget

Increasing Role of The State Department In Both Policy and Budget



## **Budgets and Stocks**



Stocks include: NOC, GD, LMT, RTN, LLL, ATK, McDonnel Douglas, E-Systems, Martin Marietta, Grumman Source: Department of Defense and Oppenheimer & Co. Inc.

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Defense Stocks Poised to Be Source of Funds On Any Economic/Market Rebound

## Investment Positives: Multi-year Visibility

Backlog Analysis						
(\$MM)	2003A	2004A	2005A	2006A	2007A	2008A
General Dynamics Total*	34,332	34,905	34,136	35,974	34,576	51,648
Lockheed Martin Total	76,899	73,986	84,188	75,900	76,700	80,900
Northrop Grumman Total	58,154	58,080	55,983	61,021	63,665	78,052
Raytheon Total*	25,087	29,611	31,248	33,595	36,614	38,884
(% Growth)	2003A	2004A	2005A	2006A	2007A	2008A
General Dynamics Total*	57%	2%	(2%)	5%	(4%)	49%
Lockheed Martin Total	9%	(4%)	14%	(10%)	1%	5%
Northrop Grumman Total	NA	(0%)	(4%)	9%	4%	23%
Raytheon Total*	19%	18%	6%	8%	9%	6%
Yrs B/L on Next Year's Sale	2003A	2004A	2005A	2006A	2007A	2008A
General Dynamics Total*	2.2	2.0	1.7	1.6	1.5	1.9
Lockheed Martin Total	2.2	2.0	2.1	1.8	1.8	1.8
Northrop Grumman Total	1.9	1.9	1.9	1.9	1.9	2.3
Raytheon Total	1.5	1.6	1.6	1.6	1.6	1.6
* Defense Business Only						

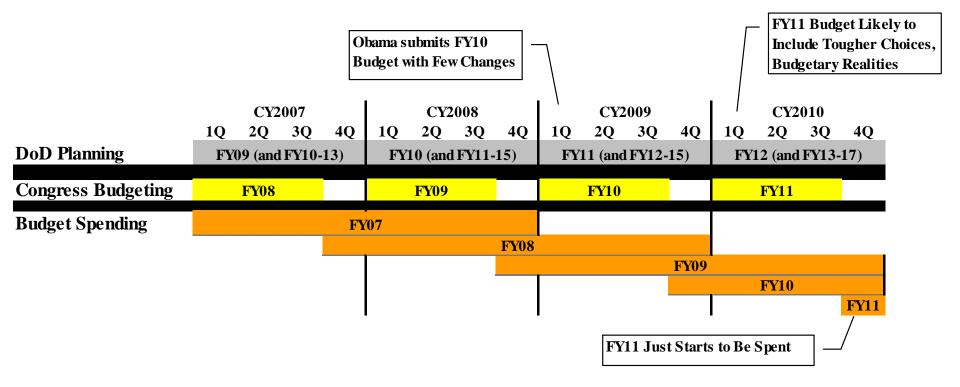
Source: Oppenheimer & Co. Inc. estimates and company reports.

Solid and rising backlogs add to out-year visibility Cash generation remains strong and deployment comes into focus



## Long Tails Extend into Next Admin

#### Long Tails of Defense Budget



Stretch of Backlogs Provides Some Relief From Near-Term Uncertainty



## The Benefit Of Stable/Growing Budgets

Large-Cap Defense Mar	rgin Picture									_	Change
Segment Margins	1999A	2000A	2001A	2002A	2003A	2004A	2005A	2006A	2007A	2008E	1999-2008
General Dynamics	13.4%	12.9%	12.3%	11.4%	8.8%	10.1%	10.3%	10.9%	11.4%	12.2%	(121) bps
Lockheed Martin	6.9%	7.0%	7.1%	7.6%	7.8%	8.4%	9.2%	10.2%	11.2%	11.5%	458 bps
Northrop Grumman	8.7%	8.9%	7.7%	6.0%	7.3%	7.7%	8.0%	9.3%	9.8%	8.6%	(10) bps
Raytheon	10.0%	10.6%	7.8%	9.6%	8.5%	11.3%	11.4%	12.9%	13.2%	12.9%	288 bps
Large-Cap Defense ROIC Pic				<b>2</b> 00 <b>2</b> 1	<b>2</b> 002 i				<b>2</b> 00 <b>-</b> 1		Change
ROIC*	1999A	2000A	2001A	2002A	2003A	2004A	2005A	2006A	2007A	2008E	1999-2008
General Dynamics	18.2%	19.9%	18.2%	16.1%	11.8%	12.7%	13.5%	14.8%	15.5%	16.6%	(162) bps
Lockheed Martin	11.5%	6.4%	7.5%	10.2%	12.8%	15.7%	19.3%	22.9%	25.1%	22.8%	1,131 bps
Northrop Grumman	6.9%	7.4%	6.2%	2.7%	5.3%	6.4%	6.7%	8.3%	9.4%	8.1%	117 bps
Raytheon	4.4%	4.3%	3.1%	5.9%	5.9%	8.0%	8.3%	10.1%	11.5%	12.3%	787 bps

The key to success by defense contractors this cycle has not been a operating margin story as much as it has been a return on invested capital

\*ROIC corrected for pension and unusual items



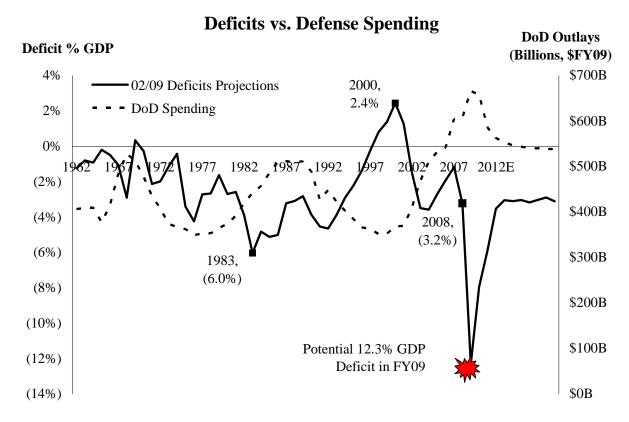
## Doth Protest?

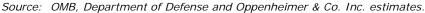
	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>
Cases filed	1204	1352	1485	1356	1327	1411
Cases closed	1133	1244	1405	1341	1274	1393
Merit	256	290	365	306	249	335
% Cases Closed	23%	23%	26%	23%	20%	24%
Sustains	41	50	75	71	72	91
% of Merit	16%	17%	21%	23%	29%	27%
% of Case Closed	4%	4%	5%	5%	6%	7%

- Protests are up 25%, but sustain decisions are up 120% since '02
- When there's no downside to protest, why not?
- \$1,000/hr lawyers likely have the upper hand poking holes
- If we can't have it, no one can is sometimes the best strategy



### How the Credit Crisis Will Affect Defense

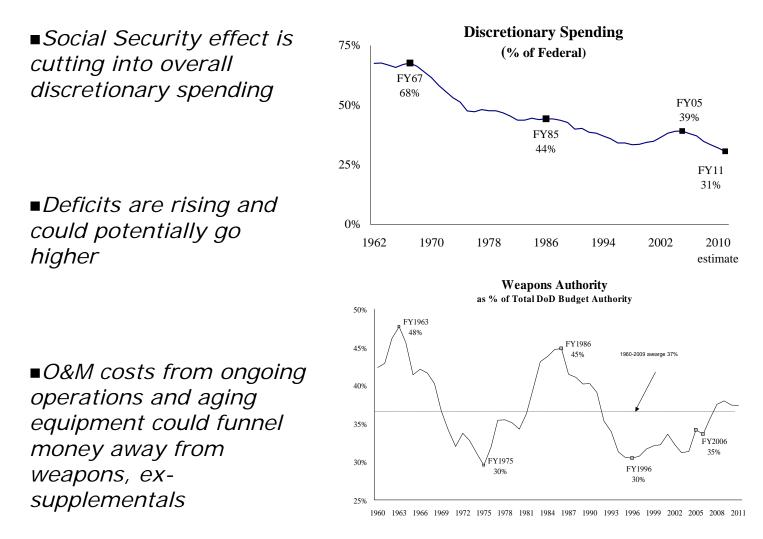




Deficits were the last defense upcycle killer – History looks like it could repeat itself



## Case Against Higher Defense Spending



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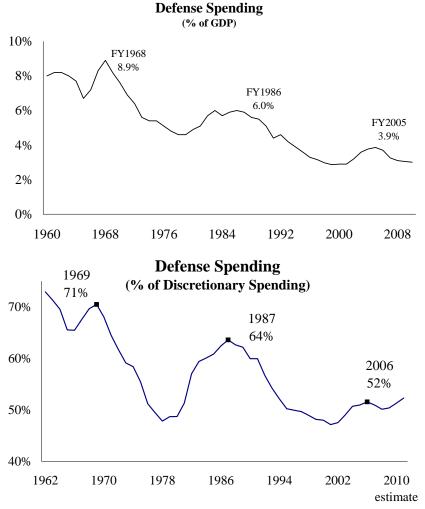
Source: OMB, Department of Defense and Oppenheimer & Co. Inc.

## Case For Higher Defense Spending

■Defense spending is still near historical lows as % of GDP

Defense down to around 50% of discretionary spending

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Source: OMB, Department of Defense and Oppenheimer & Co. Inc.

Sacrificial Lambs, Tough Choices, or Peanut Butter

- Sacrificial Lambs: Programs are killed as examples often as a means to protect higher valued projects, generally targets the weak, lighter backlash...Think Comanche, Crusader, VXX
- Tough Choices: Strategic level reshuffling of priorities with resources available...Think DDG-1000 vs. DDG-51, TSAT vs. AHEF/WGS
- Peanut Butter: Inescapable mandatory cuts across the board; few, if any programs find sanctuary...Think Graham-Hart-Rudman

Sacrificial Lambs are the Easiest, Tough Choices is the Best.... But Peanut Butter is the Most Likely



Dealing with the Downside of a Budget Cycle: Follow the Customer or the Technology?

- Strong Balance Sheets And Declining Addressable Markets Will Test Discipline
- Adjacencies Are Likely to Be Better Forged Through Customer Than Technology Know-How
- "Their death rays, they say, will treat cancer. Their electric rail guns will loft commercial payloads into space and enrich earthling entrepreneurs. Their nuclear reactors, originally meant for war in space, will instead hurl astronauts toward the moon and Mars."
  - NYT, April 8, 1990 on the Military Industrial Base Repositioning



### Dealing With the Downside of a Budget Cycle: Supply Chain and Consolidation

The Bad News: Sharp Drops Will Be Felt the Hardest Down the Chain

(\$USD, Millions)	DoD FY06	DoD FY07	DoD FY08E	DoD FY09E
Procurment, Marines Base Supplemental <b>Total Proc, Marines</b>	330	6 <u>412</u> <b>418</b>	25 <u>288</u> <b>313</b>	35 <u>23</u> <b>58</b>
Other Procurement, Army Base Supplemental Total Other Proc, Army	245	33 <u>266</u> <b>300</b>	43 <u>359</u> <b>402</b>	48 <u>176</u> <b>224</b>
MRAP buys (units) <i>Est shipset content</i> <b>Tot Est Radios in MRAP Budget</b>	1,500 <i>0.03</i> <b>45</b>	6,480 <i>0.03</i> <b>194</b>	7,394 <i>0.03</i> <b>222</b>	2,000 <i>0.03</i> <b>60</b>
Est Company Radios in Budget % Change	\$620	\$912 47%	\$937 <i>3%</i>	\$342 - <i>64%</i>

The Good News: Sellers and Buyers Will Be Motivated to Consolidate



### Best Farm League Outside the Red Sox Organization

	De	Defense-related M&A				
	Year	<b>Transactions</b>	Price/Sales			
	1993	233	NA			
upply base,	1994	243	NA			
ipply ouse,	1995	228	NA			
eals	1996	237	1.04			
	1997	251	1.15			
one	1998	573	1.63			
	1999	173	1.30			
	2000	207	1.30			
	2001	343	1.15			
dation is	2002	252	1.04			
<i><i><i>wwwwwwwwwwwww</i></i></i>	2003	307	1.41			
the top	2004	322	1.24			
	2005	371	0.85			
d chain.	2006	377	0.78			
	2007	334	1.03			
	2008*	273	1.05			

Source: Infobase Publishers, Inc \*Through Aug 2008

Consolidating the supply base **plenty of deals** are still being done ...

...though consolidation is largely over at the top of the defense food chain.

**U.S. Industrial Base** 

BA, GD, LMT, NOC, RTN

CSC, GE, HON, LLL, SAI, UTX

ATK, Booz, Bechtel, COL, GR, KBR, HRS, DCP, HRS, ITT, TXT, URS

ARINC, Battelle, CAI, CUB, EDS, MANT, OSK, TDY (and hundreds of others)

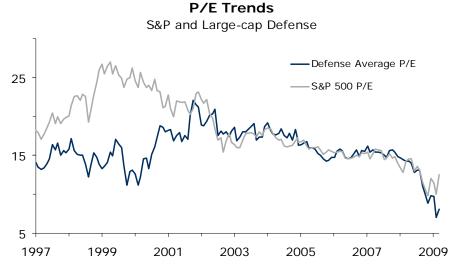
Deal Flow Has Dwindled, Likely Returns with a Vengeance As Top-lines Flatten

### Valuation

Defense Historical P/E Analysis	Current	5 yr	10 yr
	CY09E	Historical	Historical
GAAP P/E			
General Dynamics	7.6	14.5	15.2
Lockheed Martin	10.4	16.6	17.6
Northrop Grumman	9.9	15.2	13.9
Raytheon	<u>9.3</u>	<u>17.0</u>	<u>16.5</u>
Average GAAP P/E	9.3	15.8	15.8
Economic P/E			
General Dynamics	7.6	14.7	NA
Lockheed Martin	10.5	16.7	NA
Northrop Grumman	10.2	15.4	NA
Raytheon	<u>10.3</u>	<u>26.1</u>	NA
Average Economic P/E	9.6	18.2	NA

Source: Oppenheimer & Co. Inc. estimates and FactSet.

Multiples reasonable reflecting budget uncertainty



Source: FactSet and Oppenheimer & Co. Inc.

Post 9/11, the group began to move in line with the market

Defense multiples are reasonable on an historical basis and are now in line with the market despite a better growth profile

