

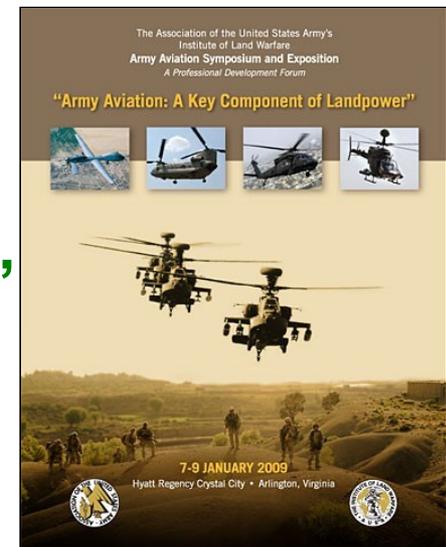


Future Vertical Lift (FVL) Capabilities Based Assessment

James "Raleigh" Durham
Director, Joint Advanced Concepts
OSD (AT&L)

AUSA ILW Army Aviation Symposium
"Evolving Future Technology for Aviation"

9 January 2009





Why We're Doing a CBA

(1) Congressional Request:

"The Congressional Rotorcraft Caucus is concerned about the lack of a strategic plan for improving the state of vertical lift aircraft in the United States."



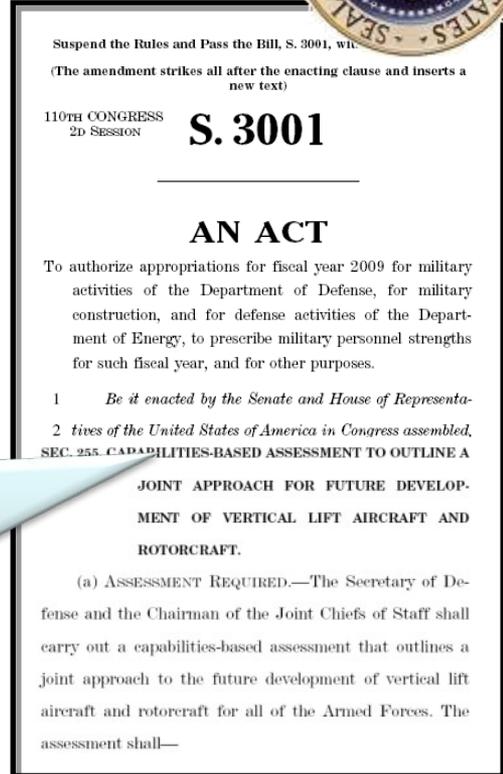
(2) SecDef Direction:

"I have directed the Joint Advanced Concepts Directorate... to lead the development of a CBA"



"Sec. 255. Capabilities Based Assessment. The SecDef... shall carry out a CBA that outlines a joint approach of the future development of vertical lift aircraft for all the military services."

(3) 2009 National Defense Authorization Act:



Suspend the Rules and Pass the Bill, S. 3001, with
(The amendment strikes all after the enacting clause and inserts a new text)

110TH CONGRESS
2D SESSION **S. 3001**

AN ACT

To authorize appropriations for fiscal year 2009 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes.

1 *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,*
SEC. 255. CAPABILITIES-BASED ASSESSMENT TO OUTLINE A

JOINT APPROACH FOR FUTURE DEVELOPMENT OF VERTICAL LIFT AIRCRAFT AND ROTORCRAFT.

(a) ASSESSMENT REQUIRED.—The Secretary of Defense and the Chairman of the Joint Chiefs of Staff shall carry out a capabilities-based assessment that outlines a joint approach to the future development of vertical lift aircraft and rotorcraft for all of the Armed Forces. The assessment shall—

SecDef Direction



THE SECRETARY OF DEFENSE
1200 DEFENSE PENNSYLVANIA
WASHINGTON, DC 20301-1000

MAY 21 2008

The Honorable Joe Sestak
U.S. House of Representatives
Washington, DC 20515

Dear Representative Sestak:

Thank you for your letter of January 18, 2008, requesting a capabilities-based assessment (CBA) outlining a joint approach to the future development of vertical lift aircraft for the Military Services. Our vertical lift capabilities have been a key component in our success in the Global War on Terror, particularly in Iraq and Afghanistan.

In response to your request, I have directed the Joint Advanced Concepts Directorate, Office of the Under Secretary of Defense for Acquisition, Technology, and Logistics, to lead the development of a CBA that will outline a joint approach to the future development of vertical lift aircraft for all Military Services. The Joint Staff, in conjunction with U.S. Transportation Command and the Services, will develop a strategic plan to meet the needs identified in the CBA, with the emphasis on common Service requirements. The Joint Staff will work with the Deputy Under Secretary of Defense for Science and Technology to develop a detailed science and technology plan in support of this strategic plan, including the resources required for implementation. The Joint Advanced Concepts Directorate will provide the results of this assessment no later than the 3rd quarter of Fiscal Year 2010.

Your continued support of our men and women in uniform is appreciated. A similar letter has been sent to Representative Geoghegan.

Sincerely,
R. Gates

Defining the future of vertical lift

21 May 08 Secretary Gates: "I have directed the Joint Advanced Concepts Directorate... to lead the development of a CBA that will outline a joint approach to the future development of vertical lift aircraft for all the Military Services."

A joint collaborative environment for future capability discussions



GWOT

IrW

HA/DR

FEO

2020

2008 2012 2016



Current Ops Highlight Capability Shortfalls

Helos in OIF/OEF



Overall numbers show helos to be lost at a far greater rate per sortie than our Vietnam experience
R/W mishaps have increased 215% since the beginning of GWOT
Defense Science Board 2007

> 371 Americans
> 215 Helicopters



OIF/OEF Aircraft Losses : Helo to TACAIR 19 : 1



Vertical Lift Realities that CBA Must Deal With

- We must change approach if US Vertical Lift DoD / Industry Team are to advance the state of the art
- Must recognize the realities of the acquisition time necessary to develop new capabilities
- Must reduce program risk to better provide needed capabilities to the Warfighter

EXCESSIVE ACQUISITION TIMELINES

MV-22: 27 YEARS TO IOC

COMANCHE: 24 YEARS TO CANCELED

NUNN MCCURDY BREACHES

AH-1Z

UH-1Y

CH-47F

MH-60R

VH-71

ARH-70

CANCELLATIONS

COMANCHE ARH-70A

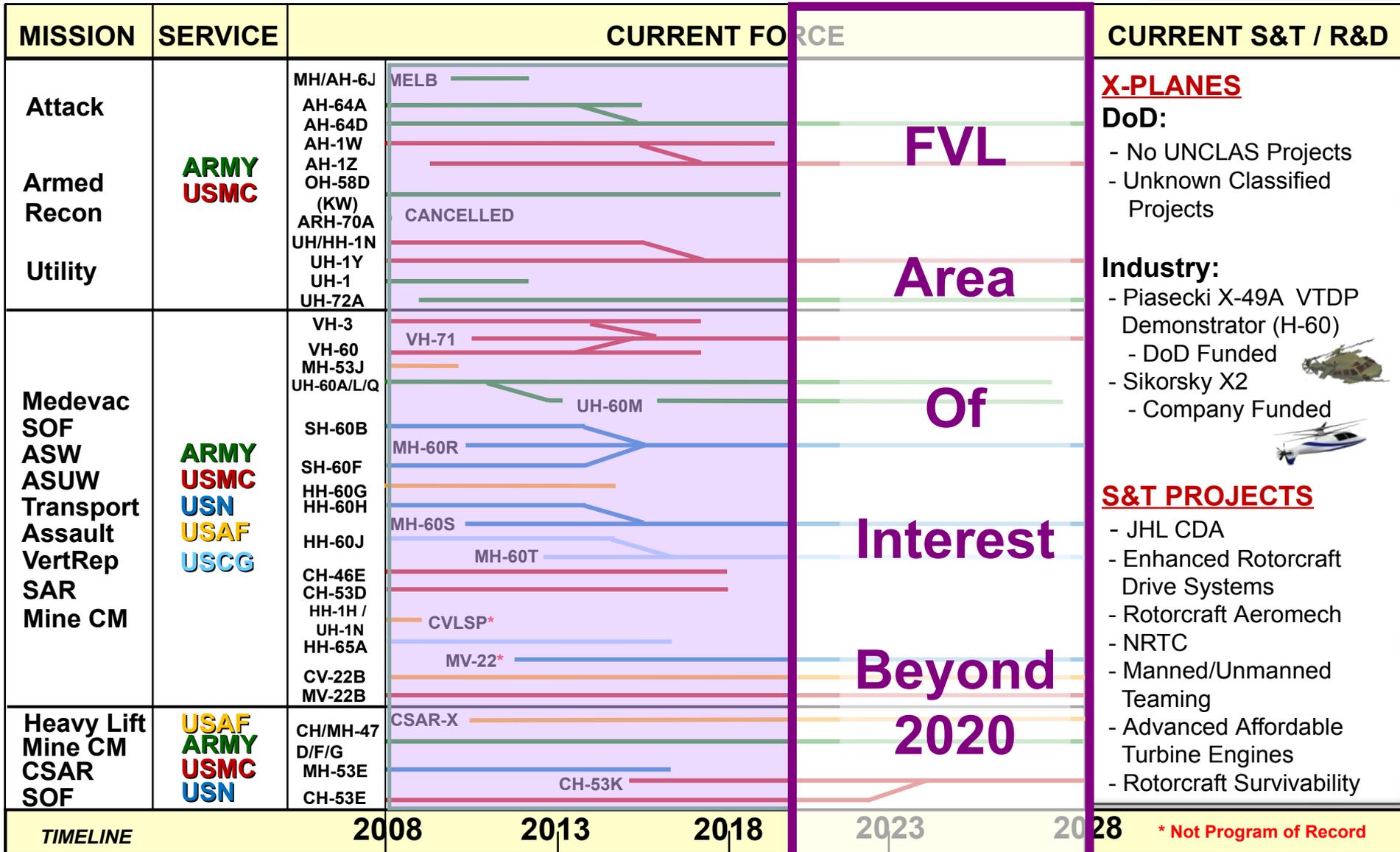
BATTLEFIELD SURVIVABILITY

215 HELICOPTERS LOST



Future Vertical Lift Focus Area

ARMY	
NAVY	
AIR FORCE	
MARINE CORPS	
COAST GUARD	



FVL
Area
Of
Interest
Beyond
2020



Questions

