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The challenges we face in Software Acquisitions are nothing new...

What do we do now?



#### **Bottom Line**



DoD and Congress have a rich history of asking experts to assess the state of DoD <u>software</u> capabilities and recommend how to improve them

To a large extent the problems of the past were not that we did not know what to do, <u>but that we simply were not doing it</u>!



Report ofthe Defense Science Board Task Force on MILITARY SOFTWARE SEPTEMBER 1987 DTIC Office of the Under Secretary of Defense for Acquisition Washington, D.C. 20301 0 50 DISTRIBUTION STATEMENT I for notice rates

"Many previous studies have provided an abundance of valid conclusions and detailed recommendations.

Most remain unimplemented.

If the military software problem is real, it is not perceived as urgent."



AD-A188 561

"Today's major problems with military software development are not technical problems, but management problems."



Report of the

#### DEFENSE SCIENCE BOARD TASK FORCE ON DEFENSE SOFTWARE



NOVEMBER 2000

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Office of the Under Secretary of Defense For Acquisition and Technology Washington, D.C. 20301-3140 "The Task Force determined that the majority of problems associated with DOD software development programs are a result of undisciplined execution."

"Every effort should be made to understand the inhibitors that prevented previous recommendations."

"Numerous prior studies contain valid recommendations that could significantly and positively impact DOD software development programs. However the majority of these recommendations have not been implemented."



DEPARTMENT OF DEFENSE DEFENSE SCIENCE BOARD

#### DESIGN AND ACQUISITION OF SOFTWARE FOR DEFENSE SYSTEMS

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DFFICE OF THE UNDER SECRETARY OF DEFENSE FOR RESEARCH AND ENGINEERING WASHINGTON, D.C. 20301-3140 "Problems associated with software development continue to plague major DoD acquisition programs.

This results in long delays in fielding, significant cost overruns, and, in some cases, program cancellation."

"The problems appear to be caused by the same software development issues that have occurred in programs over the last two decades"



#### Software Is Never Done Refactoring the Acquisition Code

for Competitive Advantage



"I have questioned the usefulness of the myriad studies and reports on technology authorized by Congress and DoD over the years."

"These mandates are often executed in a vacuum and the recommendations rarely seen through to implementation"

"The current approach to software development is broken and is a leading source of risk to DoD: it takes too long, is too expensive, and exposes warfighters to unacceptable risk by delaying their access to tools they need to ensure mission success"



# Looking to the Future

# Software Is Never Done

Refactoring the Acquisition Code for Competitive Advantage



"DoD must be able to develop, procure, assure, deploy, and continuously improve software faster than our adversaries. ....

a large amount of DoD's software takes too long, costs too much, and is too brittle to be competitive in the long run."

"If DoD does not take steps to modernize its software acquisition and development practices, we will no longer have the best military in the world, no matter how much we invest or how talented and dedicated our armed forces may be."

