#### **Program Executive Office for** Simulation, Training & Instrumentation

# Convergence of Military Simulation and Computer Game Technologies



Roger Smith US Army PEO STRI roger.smith@peostri.army.mil

SpringSim

Military Modeling and Simulation Symposium Spring Simulation Multiconference March 25-29, 2007 Norfolk, VA

Approved for Public Release. Security and OPSEC Review Completed: No Issues.

SITED STATES AR

PUISITION CO

# "A nation which depends upon others for its new basic scientific knowledge will be slow in its industrial progress and weak in its competitive position in world trade."



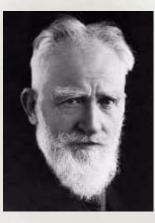
Vannevar Bush Science, The Endless Frontier, 1944





### Vision & Innovation

"The reasonable man adapts himself to the world; the unreasonable one persists in trying to adapt the world to himself. Therefore all progress depends on the unreasonable man."



- Man and Superman, 1903, George Bernard Shaw
- "Where there is no vision the people perish."
  - Proverbs 29:18, 3<sup>rd</sup> Century BC, King Solomon





MAIN

-Delete-

DEL chr lf

^Y line

^G char

MENU

H:INTRO PAGE 1 LINE 9 COL 11

 $\langle \langle \langle \rangle$ 



^Z line down ^W line up | ^C screen up ^R screen down| !----!---!---! ^U Stop a command 1. Introducing WordStar WordStar is highly flexible and very visible. Watch the screens as you give commands, and information in various parts of the screen will guide you. You won't see all the information all the time but it will be there when you need it. Word Processor The s like signposts at the top of your screen, showing you where you are. 1HELP 2<mark>INDENT 3</mark>SET nt Title I NCSA Mosaic Home Pagel

Attchmnt: Subject : ---- Message Text -----

Cancel

ÎD Del Char 🚺 Attach

Get Help

Send



<u>^R</u> Rich Hdr

**3D Game Engine** 

diffield.

OSAIC

tp://www.ncsa.uiuc.edu/SDG/Software/Mosaic/NCSAMosaicHome.htm

CSA Mosaic, an Internet information browser and World Wide Web client. NCSA developed at the National Center for Supercomputing Applications at the of Illinois in ---> Urbana-Champaign. NCSA Mosaic software is copyrighted by f Trustees of the University of Illinois (UI), and ownership remains with the

INSERT ON

-Other Menus-

(from Main only)

^J Help ^K Block

 $\rangle \rangle \rangle$ 

[RETURN End paragraph]^O Onscreen

-Miscellaneous-

^N Insert a REŤURN

^T word rt|^L Find/Replce again|^Q Quick ^P Print

^V INSERT ON/OFF

elopment Group at NCSA has worked on NCSA Mosaic for nearly four years earned a lot in the process. We are honored that we were able to help bring logy to the masses and appreciated all the support and feedback we have return. However, the time has come for us to concentrate our limited other areas of interest and development on Mosaic is complete

tion about the Mosaic project is available from the homepages

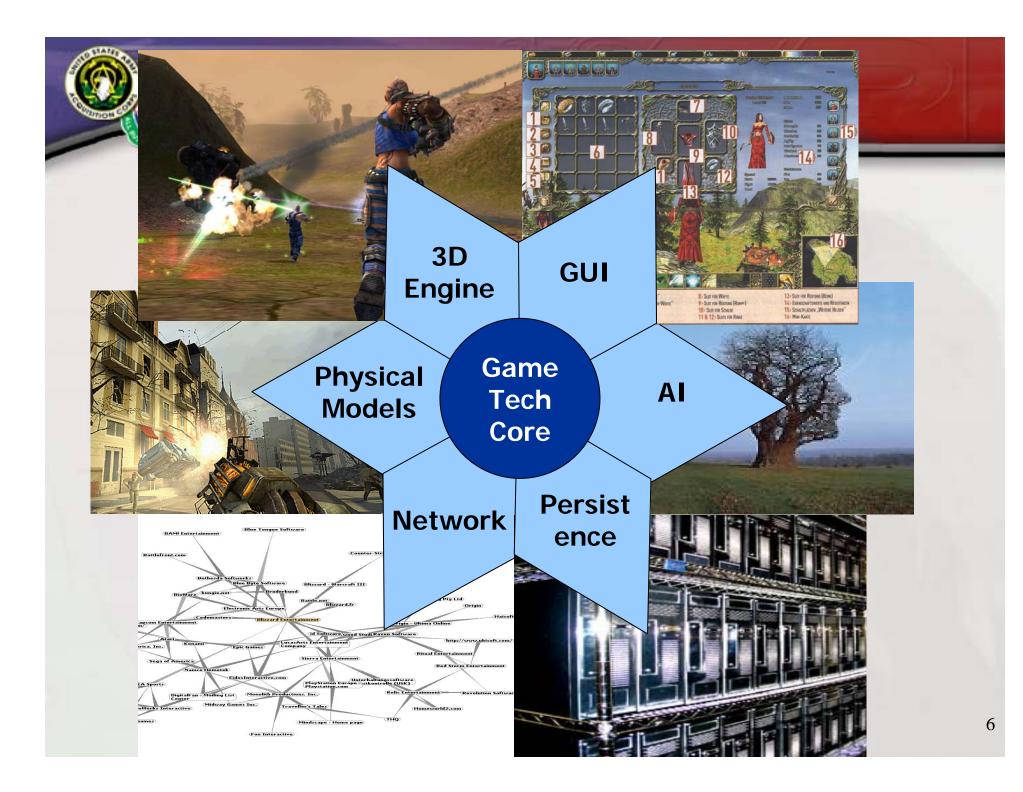


S Access Page to: WWW related Tutorials WWW related Tutorials for persons with disabilities

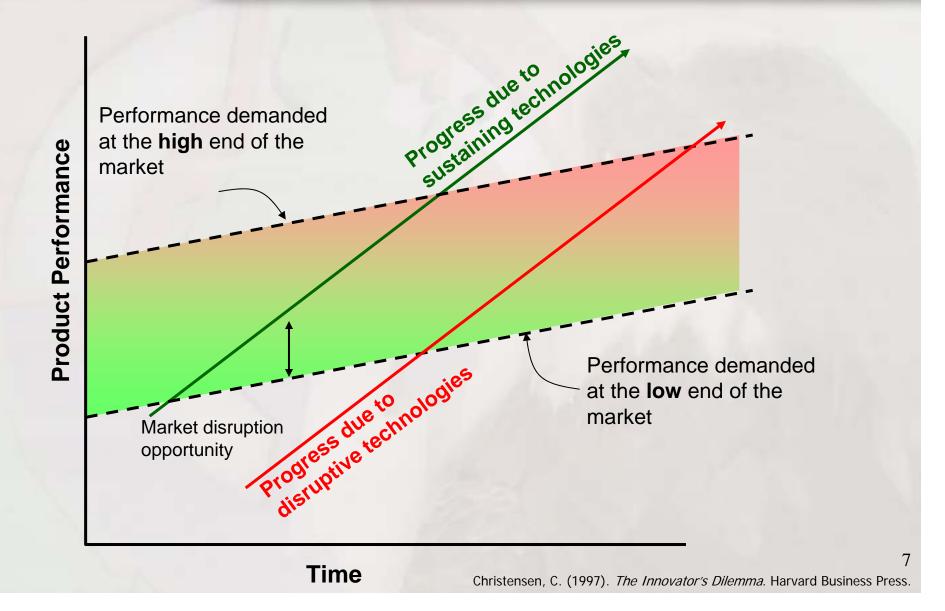
# Leveraging Game Technologies

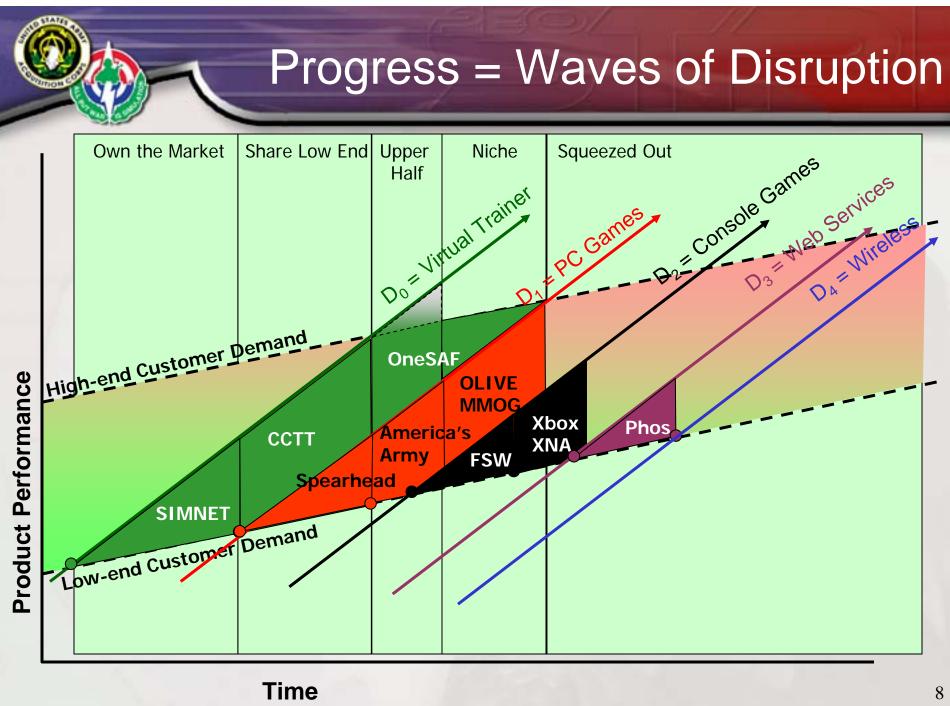
- Game Technology = 21st Century Computer Technology
  - Games are no longer "toys".
  - DOD application of games needs to step beyond modifying a product from Best Buy.
  - Extract key game technologies and use those to create military specific systems
- The real value is in the new customers that we can serve.





# Christensen's Disruptive Innovation





Smith, R. (January 2006). "Technology disruption in the simulation industry". Journal of Defense Modeling and Simulation.

