



Defense Advanced Research Projects Agency (DARPA) Strategic Technology Office (STO) Programs Overview

National Cyber Range Proposers' Day

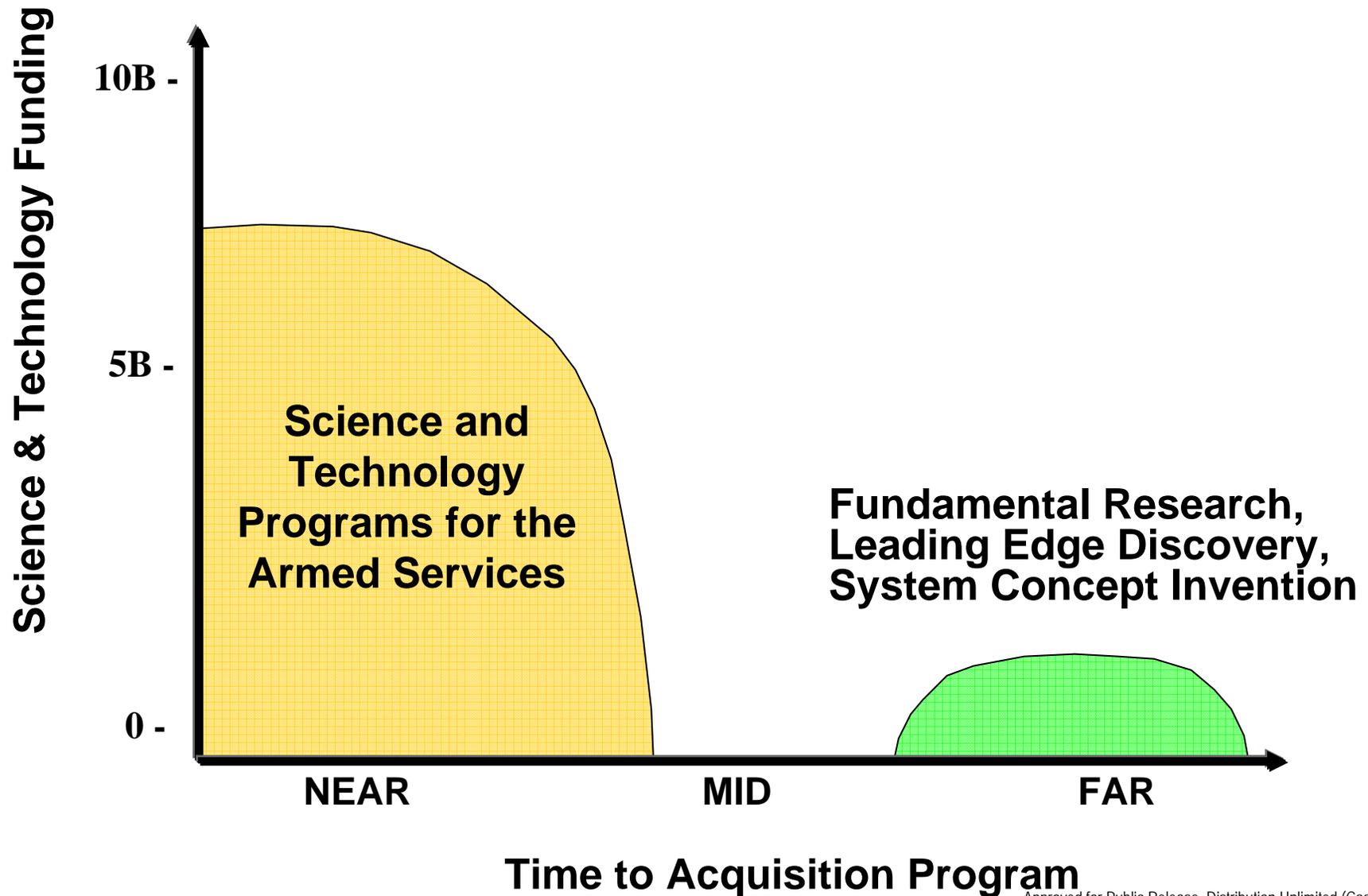
12 May 2008

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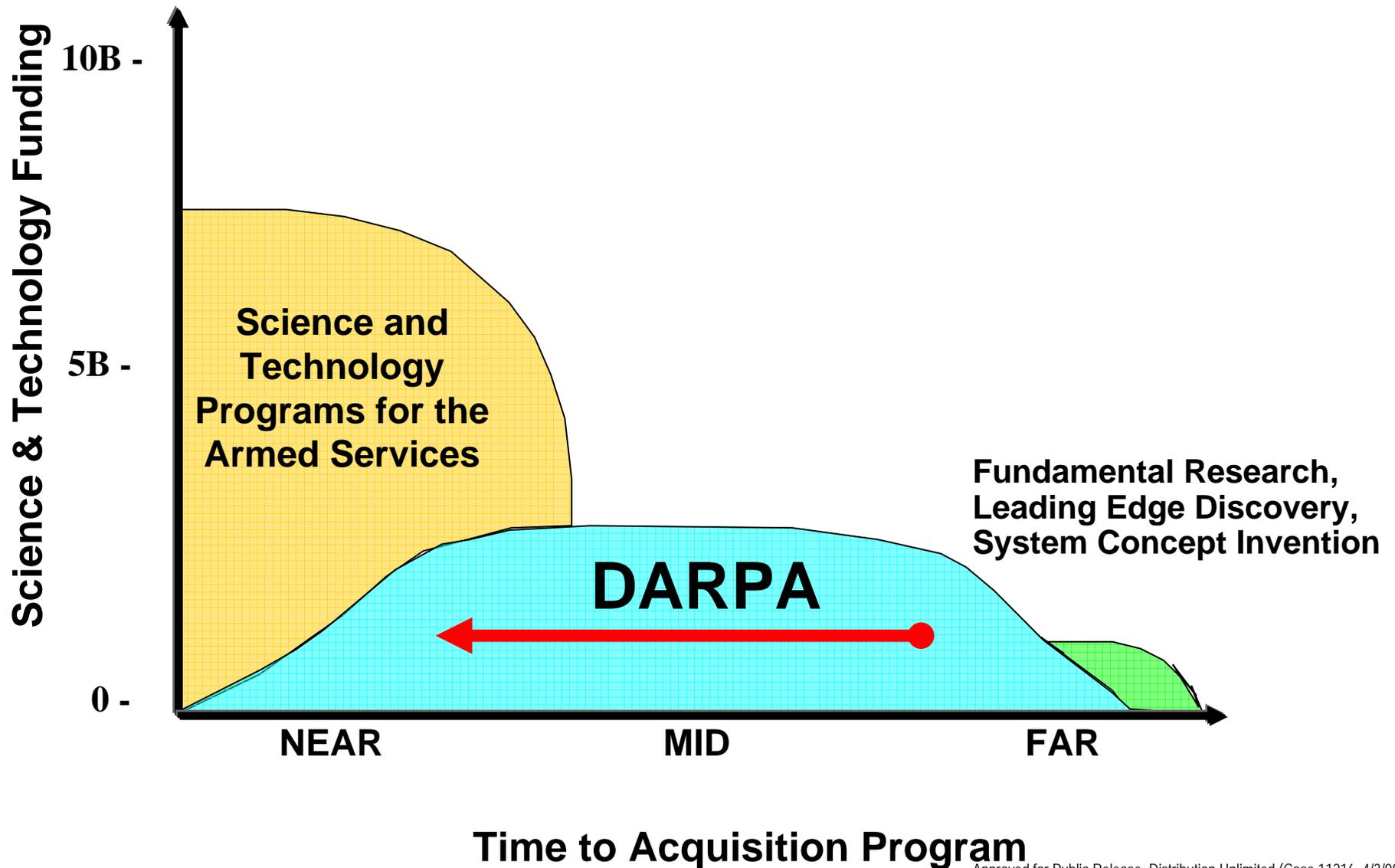
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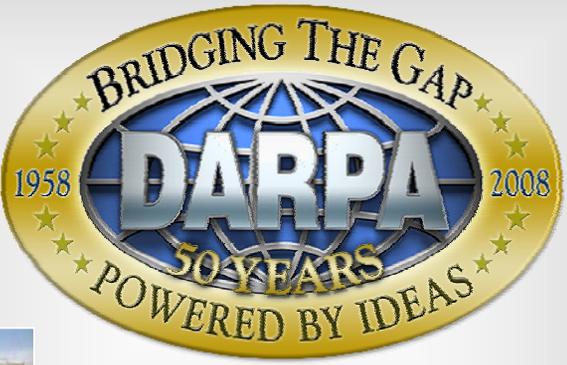
DARPA Role in Science and Technology



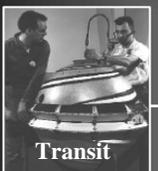
DARPA Role in Science and Technology



DARPA Accomplishments



1960



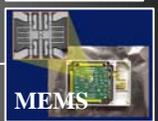
1970



1980



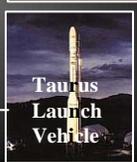
2000



2000



1990



DARPA Technical Offices



Director, Tony Tether
Deputy Director, Bob Leheny

Tactical Technology

Steve Welby
Steve Walker

- Air/Space/Land/Sea Platforms
- Unmanned Systems
- Space Operations
- Laser Systems
- Precision Strike

Strategic Technology

Barbara McQuiston
Larry Stotts, Brian Pierce

- Space Sensors/Structures
- Strategic & Tactical Networks
- Information Assurance
- Underground Facility Detection & Characterization
- Chem/Bio Defense
- Maritime Operations

Defense Sciences

Brett Giroir
Leo Christodoulou

- Physical Sciences
- Materials
- Biology
- Mathematics
- Human Effectiveness
- Bio Warfare Defense

Information Processing Techniques

Chuck Morefield
Mark Davis, Charlie Holland

- Cognitive Systems
- Command & Control Systems
- Computer Language Translation
- High Productivity Computing
- Sensors & Processing

Microsystems Technology

Bob Leheny (Acting)
Dean Collins, Greg Kovacs

- Electronics
- Photonics
- MEMS
- Algorithms
- Integrated Microsystems



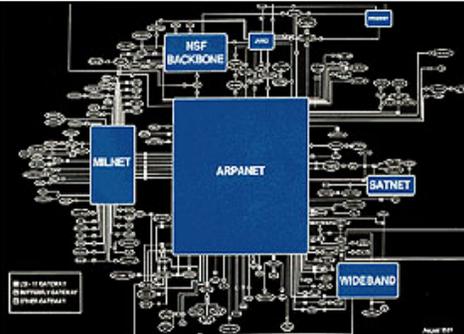
**"The Science of Today is the
Technology of Tomorrow"**

- Edward Teller



**"STO Technology of Today
Enables the Future"**

- STO Management 2008





Information Warfare



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"America is under widespread attack in cyberspace"

Andrew Palowitch, a former CIA official

...37,000 reported breaches of government and private computer systems in FY07.

There were nearly 13,000 direct assaults on federal agencies then, and 80,000 attempted computer network attacks on

Defense Department military systems in

2007 – *Andrew Palowitch cited these statistics from the Joint Chiefs of Staff Vice Chairman Gen.*

James "Hoss" Cartwright





What Next?

