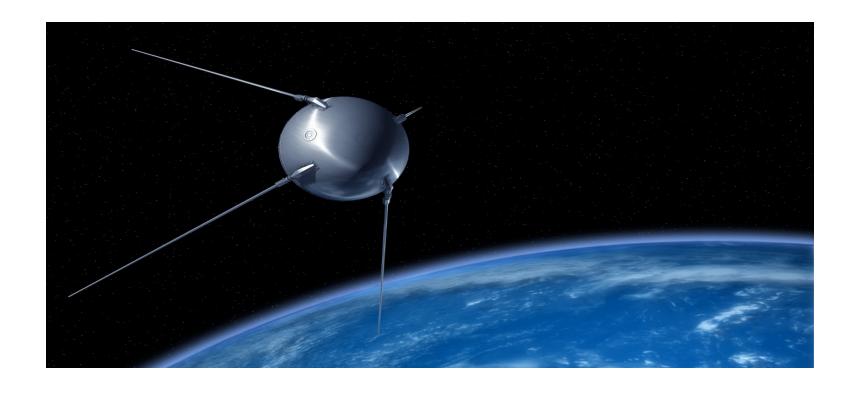
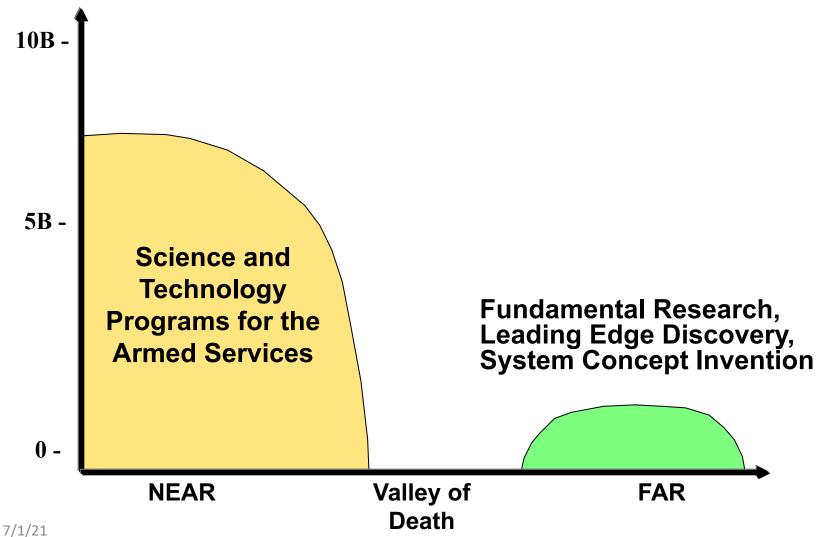
It All Started with Sputnik on Oct 4 1957

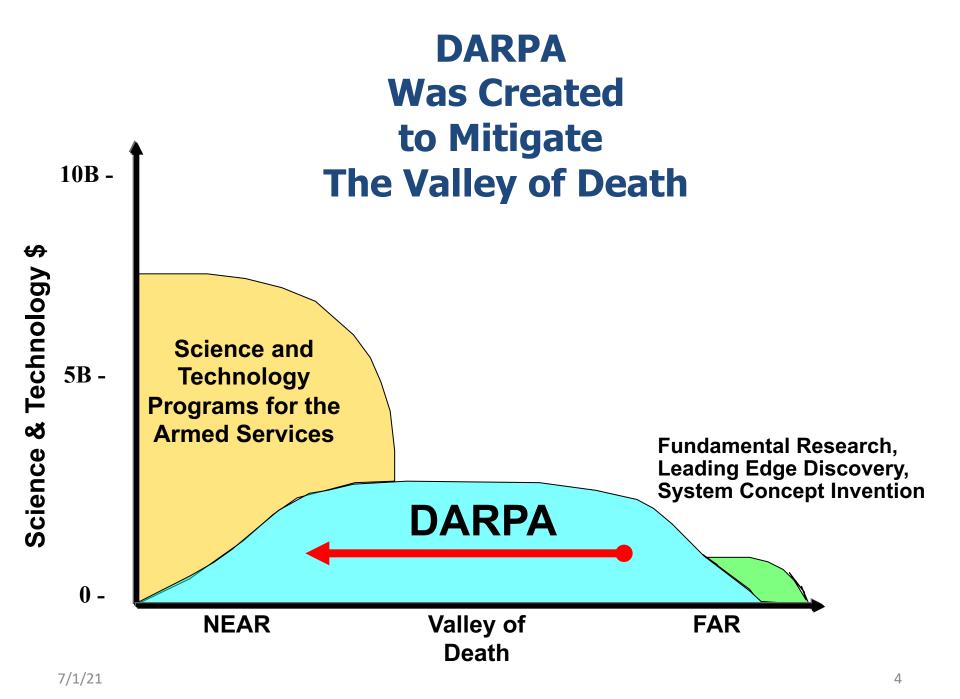


7/1/21

President Eisenhower Asked How did the US Get Beat Going to Space?

He discovered The Valley of Death





DARPA Creation

Created by President Eisenhower in response to the Soviet launching of Sputnik 1 in 1957 DoD Directive 5105.15 dated Feb 7, 1958

February 7, 1958 NUMBER 5105.15

Department of Defense Directive

SUBJECT Department of Defense Advanced Research Projects Agency

I. PURPOSE

The purpose of this directive is to provide within the Department of Defense an agency for the direction and performance of certain advanced research and development projects.

II. RESPONSIBILITY AND AUTHORITY

A. Establishment

In accordance with the provisions of the National Security Act of 19h7, as amended, and Reorganization Plan No. 6 of 1953, there is established in the Office of the Secretary of Defense the Department of Defense Advanced Research Projects Agency. The Agency will be under the direction of the Director of Advanced Research Projects.

B. Responsibility

The Agency shall be responsible for the direction or performance of such advanced projects in the field of research and development as the Secretary of Defense shall, from time to time, designate by individual project or by category.

C. Authority

Subject to the direction and control of the Director:

- The Agency is authorized to direct such research and development projects being performed within the Department of Defense as the Secretary of Defense may designate.
- The Agency is authorised to arrange for the performance of research and development work by other agencies of Government, including the military departments, as may be necessary to accomplish its mission in relation to projects assigned.

- 3. The Agency is authorized to enter into contracts and agreements with individuals, private business entities, educational, research or scientific institutions including federal or state institutions.
- to the maximum extent practicable.

 The Agency is authorized to acquire or construct such research, development and test facilities and equipment as may be approved by the Secretary of Defense, in accordance with applicable statutes. However, existing facilities of the Department of Defense shall be utilized to the maximum extent practicable.

III. ORGANIZATION

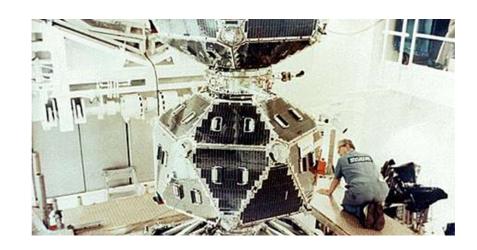
- A. The Director of Advanced Research Projects shall report to the Secretary of Defense.
- B4 The Department of Defense Advanced Research Projects
 Agency shall be provided such personnel and administrative
 support as may be approved by the Secretary of Defense.
- G. Other, officers and agencies of the Office of the Secretary of Defense within their respective areas of responsibility shall provide support to the Director of the Advanced Research Projects Agency as may be necessary for him to carry out his assigned functions.

IV. EFFECTIVE DATE

This directive is effective immediately.

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DARPA Early Accomplishments



Nuclear Explosion

Detection

(Project Vela)

7/1/21

Heilmeier Questions

- A set of questions credited to George Heilmeier that anyone proposing a research project or product development effort should be able to answer.
 - What is the problem you want to solve? Articulate your objectives using absolutely no jargon.
 - How is it done today, and what are the limits of current practice?
 - What's new in your approach and why do you think it will be successful?
 - Who cares? If you're successful, what difference will it make?(transition)
 - What are the risks and the payoffs?
 - How much will it cost?
 - How long will it take?
 - What are the midterm and final "exams" (go/no go criteria) to check for success?

7/1/21