Technology to Impact

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NDIA S&T Executive's Perspectives: Transitioning Technologies Panel

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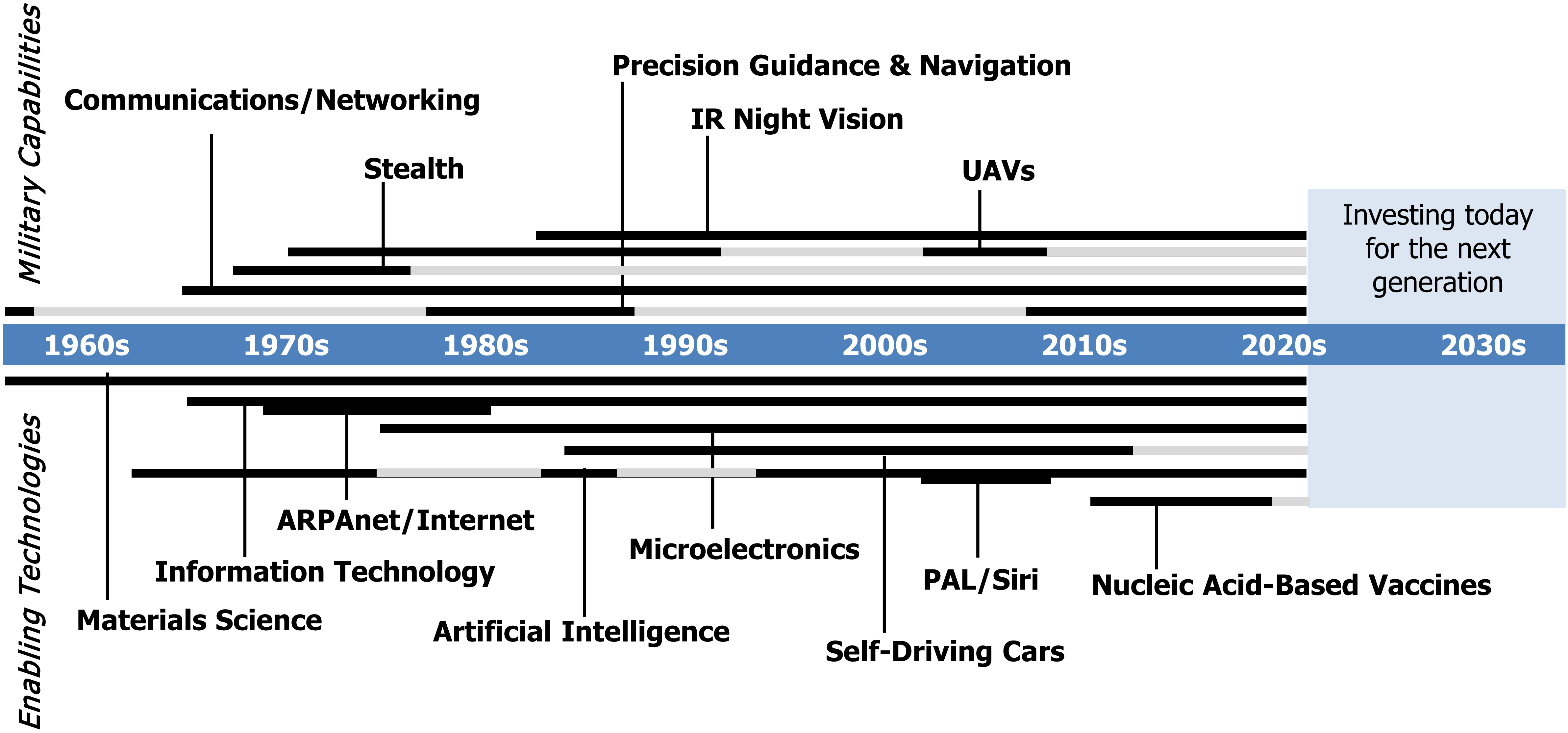
DARPA

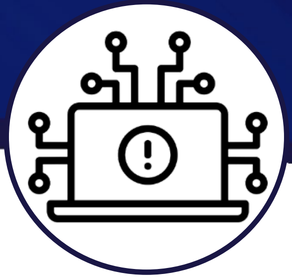
Pivotal early investments that change what's possible



What is “Transition”?

Time definite delivery of national security **capabilities**

MASTER



HACK

Improve competency to navigate:

- **Develop technology leaders**
- **Provide transition expertise**

Pressurize boundaries:

- **Rapid experimentation**
- **Novel transition frameworks**

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Constellation

Problem

- Program office requirements do not always align to technology development
- Research programs must plan for transition before the technology has been developed
- Acquisition timelines force program offices to plan budgets 3 years in advance

Approach

- Developed a consortium of performers using Other Transaction Authority
- Consortium of cyber R&D companies and USCYBERCOM system integrators organized to conduct advanced technology development

U.S. Cyber Command Deputy Commander lieutenant general William J. Hartman (front left) is shown with DARPA director Stefanie Tompkins (front right) and members of Cyber Command and DARPA after signing the Constellation agreement in May 2024. (DARPA)

User-directed, incremental, and iterative pipeline to accelerate the creation, proving, adoption, and delivery of new cyberspace capabilities to U.S. Cyber Command

Impact of Commercial Strategy

Received **~$367.5M** in Government Awarded Contracts

Closed ~**120** Rounds of Private Funding

Raised **~$987.1M*** in Private Capital

Accumulated **~$639M*** in Merger and Acquisition Value

Developing **~21** New Manufacturing Initiatives / Products

Government
Private Market
Manufacturing

In the last 2 years, Performers who have worked with Commercial Strategy have accomplished the above*

*Cumulative, since the EEI's pilot expansion in 2022 to June 2024
*Only reporting publicly available data
*Private investment reported per PitchBook & SCAs
Data as of July 2024

Making software dramatically more secure

Formal methods can work: Verified secure Boeing Unmanned Little Bird

DARPA has delivered tools to

- Ingest data safely
- Block exploitation
- Make secure code easy to write
- Fix bugs in legacy systems

Leveraged together, these tools would make our software significantly more secure

A world without software vulnerabilities is possible