

OFFICE OF THE DIRECTOR OF NATIONAL INTELLIGENCE



Intelligence Advanced Research
Projects Activity Quarterly Report
(Quarter Ending 31 December 2017)

LEADING INTELLIGENCE INTEGRATION

February 2018

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INTRODUCTION

The Office of the Director of National Intelligence's (ODNI) Intelligence Advanced Research Projects Activity (IARPA) invests in high-risk/high-payoff research programs that have the potential to provide our nation with an overwhelming intelligence advantage. As directed by the *Fiscal Year 2017 Defense Appropriations Act*, IARPA provides this quarterly update, as of the quarter ending December 30, 2017 (1QFY18), on Proposers' Days held, awards of performer contracts for new programs, planned or unplanned performer downselects, and the retention of more performers on a program longer than planned.

PROPOSERS' DAYS

During this quarter, IARPA held no Proposers' Days for new programs.

CONTRACT AWARDS

During this quarter, IARPA issued no contract awards.

PERFORMER CHANGES ON CURRENT PROGRAMS

During this quarter, IARPA held program management reviews for four programs, LogiQ, SCITE, C3 and RAVEN. The program reviews resulted in the C3 program not exercising the option to renew the contract with IBM because it did not meet performance objectives. The remaining three programs made no performer changes, in keeping with their program plans.

NEW PROGRAMS — APPROVED

As directed by the *Fiscal Year 2017 Defense Appropriations Act*, IARPA provides the following notification of each new IARPA effort or task not later than 15 days prior to obligation of funds. IARPA leadership approved one new program during 1QFY18:

- BETTER (Better Extraction for Text Towards Enhanced Retrieval).

IARPA anticipates that this program will hold its Proposers' Day during 2QFY18.

APPENDIX A — PROGRAM DESCRIPTIONS

BETTER (Better Extraction for Text Towards Enhanced Retrieval):

Extract and retrieve fine-grained, detailed, and relevant documents across diverse domains and languages.

C3 (Cryogenic Computing Complexities):

Design, build, and integrate existing cryogenic superconducting technologies to produce information systems that use less space, power, and cooling resources.

LogiQ (Logical Qubits):

Build a high-quality logical qubit from a number of imperfect physical qubits by increasing the fidelity of quantum gates, state preparation, and qubit readout; and demonstrate the integration of more than 10 qubits operating together seamlessly.

RAVEN (Rapid Analysis of Various Emerging Nanoelectronics):

Develop prototype analysis tools for acquiring images from all layers of a 10 nm node integrated circuit chip having a 1 cm² surface area within 25 days, with 10 nm resolution.

SCITE (Scientific advances to Continuous Insider Threat Evaluation):

Develop a new class of insider threat indicators, called active indicators, and develop Inference Enterprise Models that forecast the accuracy of the detected threats.

APPENDIX B — PROGRAM DEVELOPMENT PROCESS FROM APPROVAL TO CONTRACT AWARD

