

Amendment Number 0001  
Questions and Answers

Broad Agency Number 09-021

Persistent Surveillance Automation

**Question #1:** Can you please provide more technical details about the BAA? What is the primary focus of the program? Is it on collaborative robotics with intelligent task allocation? Does it also include sensor development or should we rely on existing sensors?

**Answer #1:** The focus is on a network of disparate sensors, on disparate platforms and a high level control language would be one approach. It is on collaborative robotics with intelligent task allocation. Sensor development could be required.

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**Question #2:** Do you expect hardware deliverables (e.g. UAVs, sensors) at the end of the program?

**Answer #2:** It is desired for hardware solutions. Offerors can propose any number of negotiable deliverables from architectures, optimization, software, firmware, demonstrations, and hardware.

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**Question #3:** How often does the contractor have to demonstrate the technology and in which environment?

**Answer#3:** At least once. Optimum, solution would be environmentally independent.

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**Question #4:** Regarding integration of platforms and data: do you envision the multiple unmanned platforms under distributed control or centralized control?

**Answer #4:** Yes, either one.

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**Question #5:** Is ONR's primary interest operations in water (e.g. fleet protection or underwater operations), land or both?

**Answer #5:** Everywhere, but water.

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**Question #6:** Are the unmanned platforms aerial, ground, subsurface or a combination of these types of assets?

**Answer#6:** Yes, except under water.

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**Question #7:** Can a human be in the loop to help cue the surveillance platforms to areas of interest or do you perceive the system automatically detecting events and/or objects of interest?

**Answer #7:** Yes, either one.  
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**Question #8:** Is ONR's primary interest operations in water (e.g. fleet protection or underwater operations), land or both?

**Answer #8:** Expect, no, desire yes.  
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**Question #9:** The BAA makes references to a 'system' but the funding is classified as 'applied research'. What is your expectation of simulation or hardware-in-the-loop demonstration of basic science approaches applied to this domain versus an actual demonstration using unmanned platforms?

**Answer#9:** Approximately 20% simulation.  
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**Question #10:** How much of the emphasis is on the surveillance (sensor processing) relative to the automation (autonomy)?

**Answer#10:** Sensor processing to enable automation will be considered.  
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