

Proactive and Adaptive Decision Support Study (PDS)

Status Report #2

Date of Report: 30 September 2014
For the Reporting Period: 1 Sept 2014 – 30 Sept 2014
Contract Number: N00014-14-P-1187
CDRL: B001
CLIN: 0003

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Report Documentation Page				Form Approved OMB No. 0704-0188	
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1. REPORT DATE 30 SEP 2014		2. REPORT TYPE		3. DATES COVERED 01-09-2014 to 30-09-2014	
4. TITLE AND SUBTITLE Proactive and Adaptive Decision Support Study (PDS)				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Boston Fusion Corp.,,1 Van de Graaff Drive, Suite 107,,Burlington,,MA,01803				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 5	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Summary

During September, the principal activities for Boston Fusion were related to (1) initiating the development of the technical section of the *InfoCog* final report, and (2) PADS Workshop. Summaries of these activities appear in the subsequent section.

Progress During Reporting Month

During the month of September, Boston Fusion conducted the following activities for PDS:

- Began development of a narrative describing the potential benefits of the *Info-Cognitive Proactive Decision Support (InfoCog)* technology.
- Began development of a notional technology roadmap that describes the required technology necessary for *InfoCog* to become viable.
- Began development of a technology space characterization to identify the needs and requirements for decision support technology for PADS, and describe how PDS technologies cover subsets of that space, in preparation for defining workshop objectives.
- Held coordination teleconferences and exchanges with Pacific Science and Engineering (PS&E) regarding (1) high level meeting objectives, (2) preparation for customer discussion regarding workshop contents and purpose, and (3) scheduling of in-depth planning meetings, to occur at the end of October.
- Identified pre-meeting activities for PS&E and Boston Fusion, including literature surveys to identify relevant technology areas and advances for the cognitive science (PS&E) and mathematical (Boston Fusion) frameworks that are used to approach decision making support.

Plans for Next Month

During the month of October, we plan to do the following activities for PDS:

- Continue development of a narrative describing the potential benefits of the *Info-Cognitive Proactive Decision Support (InfoCog)* technology.
- Continue development of a notional technology roadmap that describes the required technology necessary for *InfoCog* to become viable.
- Continue development of a technology space characterization to identify the needs and requirements for decision support technology for PADS, and describe how PDS technologies cover subsets of that space, in preparation for defining workshop objectives.
- Conduct preliminary literature survey to identify relevant research communities and researchers that are exploring decision making from the analytical/mathematical point of view. We will use this information as a starting point for identifying potential workshop participants and relevant topics for workshop sessions.

- Host meeting with Pacific Science and Engineering (PS&E) to initiate timeline development and plans for PADS workshop, and to identify areas in which discussions with the customer would be especially helpful in setting the workshop agenda and participant list.
- Meet with Dr. Jeff Morrison (ONR) to discuss workshop vision, objectives, and desired outputs as part of the workshop development process.

Meetings and Teleconferences

Table 1 reports meetings and teleconferences that Boston Fusion participated in during the reporting month in support of the PDS effort.

Table 1. Significant meetings and conferences during current reporting period

Date	Location	Participants	Purpose
12 Sept 2014	<i>Teleconference</i>	Kendra Moore (BFC), Connie Fournelle (BFC), Ron Moore (PS&E), Heather Oonk (PS&E)	Coordination and planning for the PADS workshop

Anticipated Problems

No current problems.

Financial

Table 2. Project Financial Status

Current Expenditures	Cumulative Expenditures	Total Contract Value	Funding	Estimate to Complete
\$45,698	\$45,698	\$149,988	\$149,988	\$104,290

*Note: Financials are as of 8/24/14. Financials for the month of September were not available by the due date of this report (9/30/14).

Schedule of Deliverables

Table 3. Project Deliverable Status

CDRL	CLIN	Deliverable	Due Date	Delivery Date
A001	0001	PI Meeting Slides	8/5/14	7/30/14
B001	0002	Progress Report #1 w/SF-298	8/31/14	9/2/14

CDRL	CLIN	Deliverable	Due Date	Delivery Date
B001	0003	Progress Report #2 w/SF-298	9/30/14	
B001	0004	Progress Report #3 w/SF-298	10/31/14	
B001	0005	Progress Report #4 w/SF-298	11/30/14	
C001	0006	Final Report and Briefing w/SF-298	12/31/14	