

Establishing Fluid Dynamics Scales Critical to Dynamic Interface Applications and their Impact on Handling Qualities

Quarterly Funding Status Report 1

Prepared by:

G. R. Whitehouse
Continuum Dynamics, Inc.
34 Lexington Avenue
Ewing, NJ 08618-2302

Prepared for:

David Gonzalez
Office of Naval Research
875 North Randolph
Street
Arlington VA 22203

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Glen R. Whitehouse

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Graphical Summary

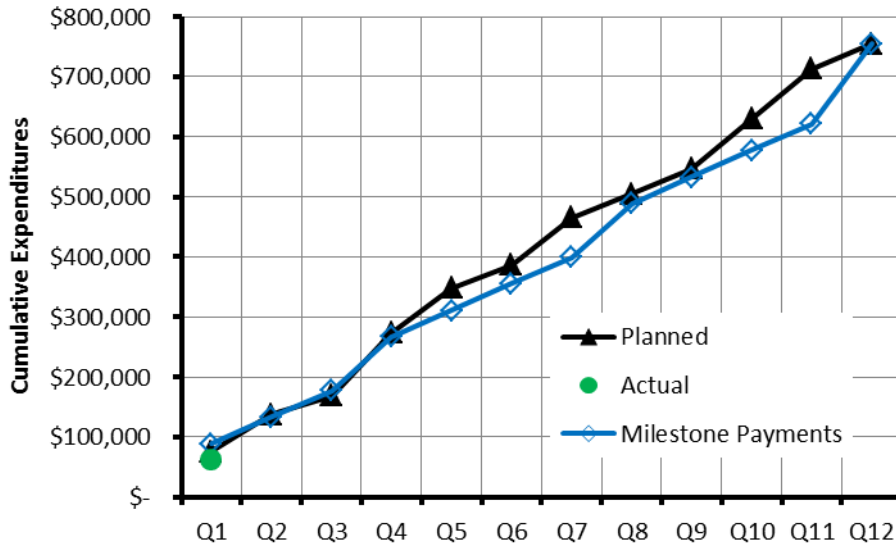


Figure 1: Planned and actual funding expenditures along with anticipated milestone payments

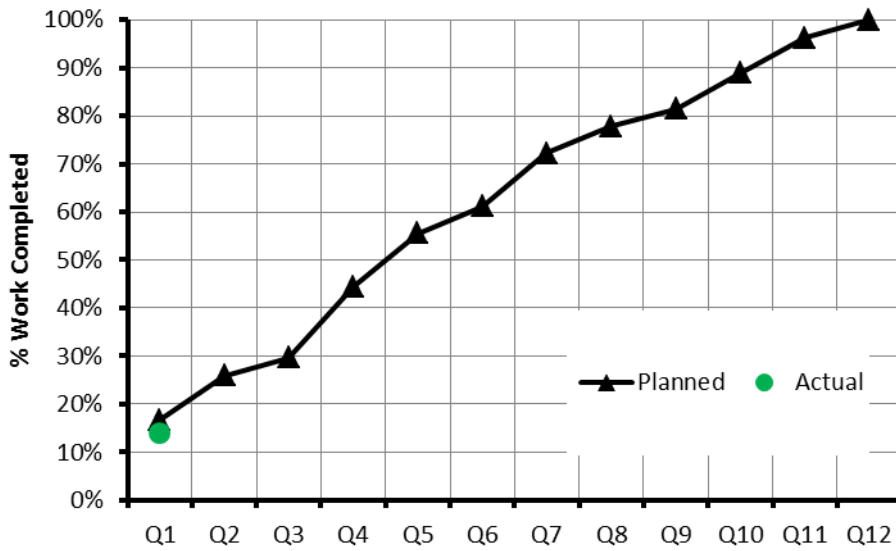


Figure 2: Planned and actual percentage of work completed

Detailed Breakdown

Table 1: Planned funding expenditures with task duration in gray

Task	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Total
1. Extended Technology and Requirements Review	\$ 44,845												\$ 44,845
2. Definition of Disturbance Field Fluid Dynamics Scales Relevant to Naval Rotorcraft Operations	\$ 31,325	\$ 31,325											\$ 62,649
3. Generation of Synthetic Disturbance Fields		\$ 30,775	\$ 30,775	\$ 30,775									\$ 92,325
4. Definition of Aeromechanics and HQ Metrics				\$ 46,781	\$ 46,781								\$ 93,561
5. Generic FD Model Assembly				\$ 27,199	\$ 27,199								\$ 54,397
6. Fundamental Helicopter Response						\$ 39,324	\$ 39,324						\$ 78,648
7. Fundamental Tiltrotor Response							\$ 39,324	\$ 39,324					\$ 78,648
8. Helicopter Flight Dynamics Response									\$ 41,872	\$ 41,872	\$ 41,872		\$ 125,616
9. Tiltrotor Response										\$ 41,504	\$ 41,504	\$ 41,504	\$ 124,513
Subtotal	\$ 76,170	\$ 62,100	\$ 30,775	\$ 104,754	\$ 73,979	\$ 39,324	\$ 78,648	\$ 39,324	\$ 41,872	\$ 83,376	\$ 83,376	\$ 41,504	\$ 755,202
Cumulative	\$ 76,170	\$ 138,269	\$ 169,044	\$ 273,798	\$ 347,777	\$ 387,101	\$ 465,749	\$ 505,073	\$ 546,945	\$ 630,321	\$ 713,698	\$ 755,202	

Table 2: Actual funding expenditures with task duration in gray

Task	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Total
1. Extended Technology and Requirements Review	\$ 36,869												\$ 36,869
2. Definition of Disturbance Field Fluid Dynamics Scales Relevant to Naval Rotorcraft Operations	\$ 25,753												\$ 25,753
3. Generation of Synthetic Disturbance Fields													\$ -
4. Definition of Aeromechanics and HQ Metrics													\$ -
5. Generic FD Model Assembly													\$ -
6. Fundamental Helicopter Response													\$ -
7. Fundamental Tiltrotor Response													\$ -
8. Helicopter Flight Dynamics Response													\$ -
9. Tiltrotor Response													\$ -
Subtotal	\$ 62,622	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 62,622
Cumulative	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	\$ 62,622	

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Table 3: Milestone Payments

Milestone	Description	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Total
1	Kickoff briefing and Slides	\$ 44,424												\$ 44,424
2	1st quarterly technical status report	\$ 44,424												\$ 44,424
3	2nd quarterly technical status report		\$ 44,424											\$ 44,424
4	3rd quarterly technical status report			\$ 44,424										\$ 44,424
5	1st annual (FY) report				\$ 44,424									\$ 44,424
6	4th quarterly technical status report				\$ 44,424									\$ 44,424
7	5th quarterly technical status report					\$ 44,424								\$ 44,424
8	6th quarterly technical status report						\$ 44,424							\$ 44,424
9	7th quarterly technical status report							\$ 44,424						\$ 44,424
10	2nd annual (FY) report								\$ 44,424					\$ 44,424
11	8th quarterly technical status report								\$ 44,424					\$ 44,424
12	9th quarterly technical status report									\$ 44,424				\$ 44,424
13	10th quarterly technical status report										\$ 44,424			\$ 44,424
14	11th quarterly technical status report											\$ 44,424		\$ 44,424
15	3rd annual (FY) report												\$ 44,424	\$ 44,424
16	Draft final report												\$ 44,424	\$ 44,424
17	Final report												\$ 44,424	\$ 44,424
	Subtotal	\$ 88,847	\$ 44,424	\$ 44,424	\$ 88,847	\$ 44,424	\$ 44,424	\$ 44,424	\$ 88,847	\$ 44,424	\$ 44,424	\$ 44,424	\$ 133,271	\$ 755,202
	Cumulative	\$ 88,847	\$ 133,271	\$ 177,695	\$ 266,542	\$ 310,966	\$ 355,389	\$ 399,813	\$ 488,660	\$ 533,084	\$ 577,507	\$ 621,931	\$ 755,202	

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Table 4: Planned completion schedule with task duration in gray

Task	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Task Total
1. Extended Technology and Requirements Review	100%												100%
2. Definition of Disturbance Field Fluid Dynamics Scales Relevant to Naval Rotorcraft Operations	50%	50%											100%
3. Generation of Synthetic Disturbance Fields		33%	33%	33%									100%
4. Definition of Aeromechanics and HQ Metrics				50%	50%								100%
5. Generic FD Model Assembly				50%	50%								100%
6. Fundamental Helicopter Response						50%	50%						100%
7. Fundamental Tiltrotor Response							50%	50%					100%
8. Helicopter Flight Dynamics Response									33%	33%	33%		100%
9. Tiltrotor Response										33%	33%	33%	100%
% effort	16.67%	9.26%	3.70%	14.81%	11.11%	5.56%	11.11%	5.56%	3.70%	7.41%	7.41%	3.70%	100%
Cumulative	16.67%	25.93%	29.63%	44.44%	55.56%	61.11%	72.22%	77.78%	81.48%	88.89%	96.30%	100.00%	

Table 5: Actual percentage of work completed with task duration in gray

Task	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Task Total
1. Extended Technology and Requirements Review	90%												90%
2. Definition of Disturbance Field Fluid Dynamics Scales Relevant to Naval Rotorcraft Operations	50%												50%
3. Generation of Synthetic Disturbance Fields													0%
4. Definition of Aeromechanics and HQ Metrics													0%
5. Generic FD Model Assembly													0%
6. Fundamental Helicopter Response													0%
7. Fundamental Tiltrotor Response													0%
8. Helicopter Flight Dynamics Response													0%
9. Tiltrotor Response													0%
% effort	14.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	14%
Cumulative	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%	

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