# Computational Models of Human Organizational Dynamics

**Quarterly Status Report #10**

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Computational Models of Human Organization Dynamics

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Reporting Period

This is the tenth quarterly report for the project: Computational Models of Human Organization Dynamics. This report covers the period from 6/1/99 through 8/31/99.

Progress During Reporting Period

During this quarter we have begun work on a psycho-social ontology, sufficient to express the cognitive and social capacities, tendencies, and structure of individuals and organizations. This ontology will additionally include foundational categories for physical objects, structures, systems, and their dynamic behavior/processes.

We have also refined our initial statement of risk management for the asymmetric threat domain. In particular, we have integrated the decision-theoretic approach within our Planning by Analysis method. In this way risk management it formalized as being in service to organizational analysis, which produces a better understanding that is itself in service to actions the organizations want to take. In sum, risk management legislates where and how much effort to invest in information gathering and organizational modeling, by placing these decisions within the larger decision of managing our relationship to an adversary. We call the resulting method “Risk-Advised Planning”.

Plans for Next Quarter

We will continue to refine the psycho-social ontology, and will begin detailed studies of an asymmetric threat organization.

Equipment Purchases

There were no equipment purchases this quarter.

Personnel Matters

There have been no changes in the key personnel proposed for this project.

Meetings, Important Exchanges, and Decisions

We briefed Larry Willis on our progress.

Problems

We have no major problems to report at this time. We foresee no substantial risks to our ability to complete this project successfully, on time, and on budget – the organizational modeling, risk
management, and technology development objectives of this project are under our control and proceeding well.

Fiscal Status

The table below summarizes the fiscal status for this contract and our projected spending over the next quarters.

<table>
<thead>
<tr>
<th>Amount Currently Provided</th>
<th>$1,574,647.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expenditures and Commitments to Date</td>
<td>$1052K</td>
</tr>
<tr>
<td>Manhours Planned, Actual</td>
<td>Planned = 1430  Actual = 1376</td>
</tr>
<tr>
<td>Estimated Funds/Qtr to Complete Work</td>
<td>$261K</td>
</tr>
<tr>
<td>Estimated Date of Completion</td>
<td>2/29/00</td>
</tr>
</tbody>
</table>

Distribution of this Report

The following individuals/organizations comprise the distribution list for quarterly reports on this contract.

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