



New ELICIT Software Platform Capabilities and Campaign

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P A R I T Y

- ELICIT Introduction
- New Capabilities
 - Configurable Organizations
 - Agent-based processing
- Experimentation Campaign



ELICIT Introduction

- ELICIT-Experimental Laboratory for Investigating Collaboration, Information-sharing, and Trust
 - Part of CCRP's network-centric warfare initiative
 - Developing and testing principles of organization that transfer power and decision rights to the edge
 - Testing hypotheses through experiments
 - Facility was created to run experiments

Experiment Task

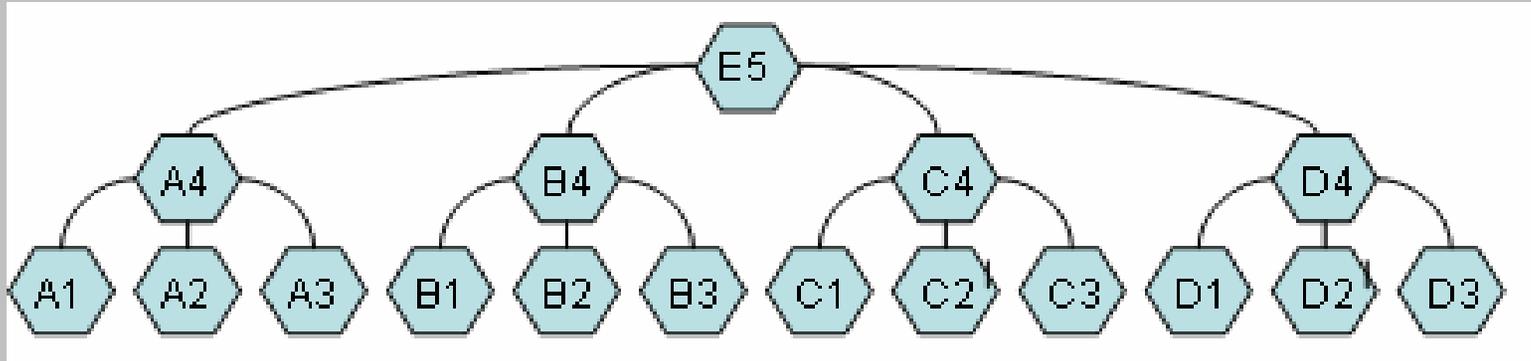
- Identify the who, what, where and when of an adversary attack
- Task scenarios are anonymized
- Participants are anonymized
- Participants periodically receive factoids about the situation
- No one person has all information
- Task success requires communication
- All communication via software



Configurable Organizations

- Original organization modeling
- Motivation for enhancement
- New flexible organization modeling

- Traditional Hierarchy



- Edge





Motivation for Enhancement

- Execution flexibility – I don't have 17 subjects today
- Modeling hybrid organizations
- Modeling participant organizations
- Modeling availability of new capabilities

Loading Organization File

[Configuration](#)
[Dashboard](#)
[Console](#)
[Logs](#)
Config Files
[Agent Registration](#)

Configuration files

Select configuration file to upload onto server.
File name should begin with **factoidset**, **names**, **countries** or **organization** and ends with **.csv**

[ELICIT Configuration](#)
[Agent Configuration](#)
[Agent JAR File](#)

File name

Factoid Sets	Names	Countries	Organizations	Agent Conf Files	Agent JAR Files
<input type="checkbox"/> factoidset5-17.csv	<input type="checkbox"/> names17.csv	<input type="checkbox"/> countries1.csv	<input type="checkbox"/> organizationTypeC2-17.csv	<input type="checkbox"/> WhoAgent.csv	<input type="checkbox"/> WhoAgent.jar
<input type="checkbox"/> factoidset5-5.csv		<input type="checkbox"/> countries4.csv	<input type="checkbox"/> organizationE_C2_mixed-17.csv	<input type="checkbox"/> WhoAgent2.csv	
<input type="checkbox"/> factoidset4-8.csv		<input type="checkbox"/> countries3.csv	<input type="checkbox"/> organizationE-17.csv		
<input type="checkbox"/> factoidset4-1.csv		<input type="checkbox"/> countries2.csv			
<input type="checkbox"/> factoidset1-17.csv					
<input type="checkbox"/> factoidset4-17.csv					
<input type="checkbox"/> factoidset3-17.csv					
<input type="checkbox"/> factoidset1-5.csv					
<input type="checkbox"/> factoidset4-2.csv					
<input type="checkbox"/> factoidset1-1.csv					
<input type="checkbox"/> factoidset4-5.csv					
<input type="checkbox"/> factoidset2-17.csv					
Factoidset Files (12)	Name Files (1)	Countries Files (4)	Organization Files (3)	Agent Conf Files (2)	Agent JAR Files (1)

Agent-Base Processing

- Motivation for enhancement
- New capability
- Ongoing agent development

Agent Motivation

- Flexibility in staffing experiments (hybrid runs)
- Ability to run many more experiments
- Theories of behavior and performance could be validated by constructing agents with specific capabilities (personalities)

Initial Phase

- Agent harness added
- Stub reference agent created to validate harness

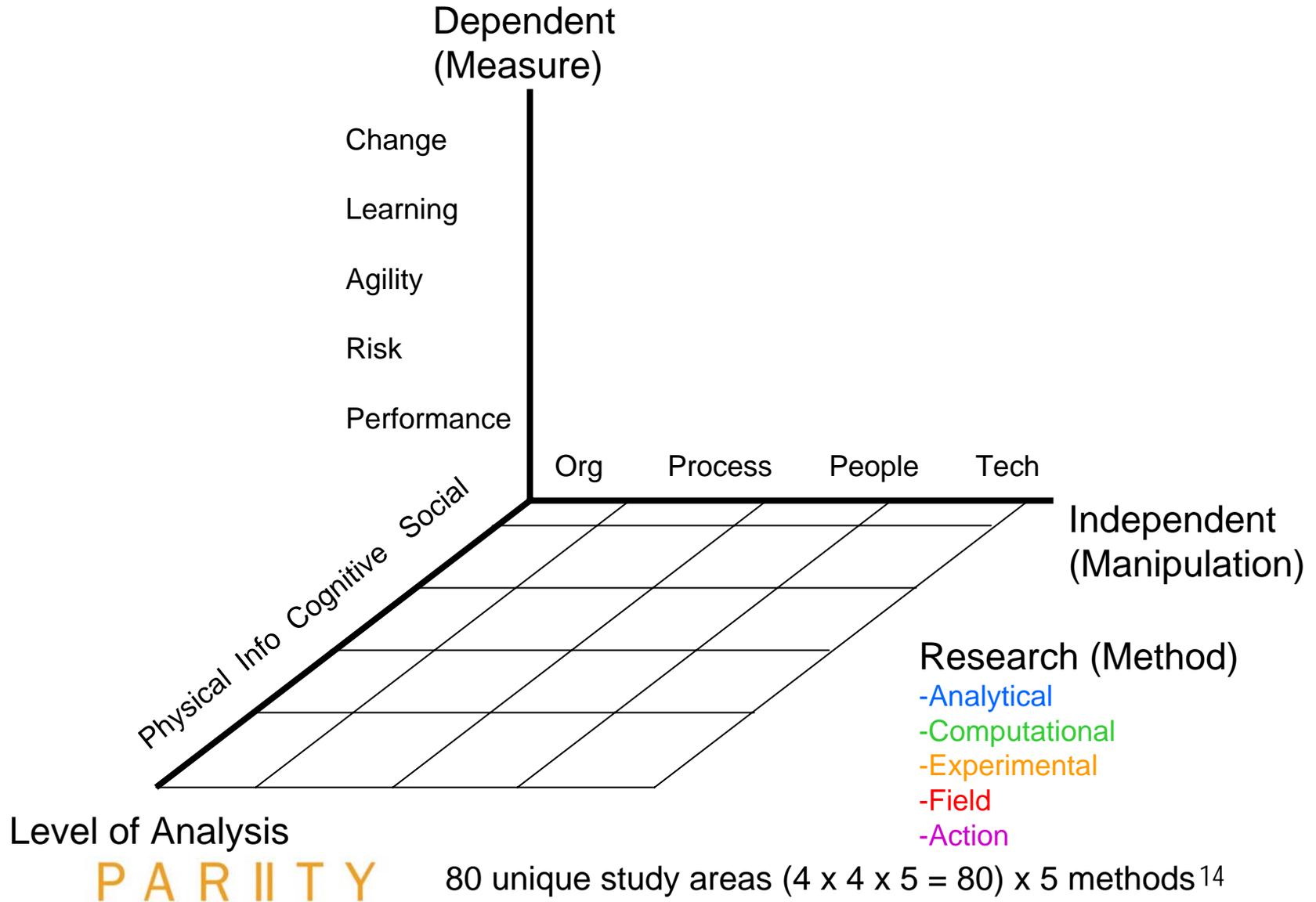
Current Phase

- Agent batch capability
- Sense Making, moderately intelligent agent under development

Sense Making Agent

- Moderately intelligent
- Is aware of aspects of the factoids that have been presented to it
- Builds a mental model of what it knows
- Models decision making and human errors
- Supports some aspects of personas (around sharing, etc.).....
- Work is on going...

Campaign Space Viz



Next Steps

- Raw data and materials posted to <http://www.dodccrp.org/html4/elicit.html>
- For more information contact
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Questions ?