Bias Inoculation Assessment and Simulation

Dr. Robert Hubal

rhubal@rti.org

919-541-6045

RTI International
3040 Cornwallis Road
P.O. Box 12194
Research Triangle Park, NC
USA 27709

Dr. Geoffrey Frank

gaf@rti.org

919-541-6629

Individual Training on Collective Tasks

- PC-based simulations that train individuals for their roles in collective teams

- Applicable to training a broad range of individual roles in collective tasks / processes

- Uses vignettes that incorporate standardized doctrinal training scenarios

- Tailors multiple vignette versions to multiple staff members

- Provides deliberate practice through vignette variations

- Incorporates simulated roles and responsive virtual humans for other team members when appropriate

Bias and Bloom's Taxonomy
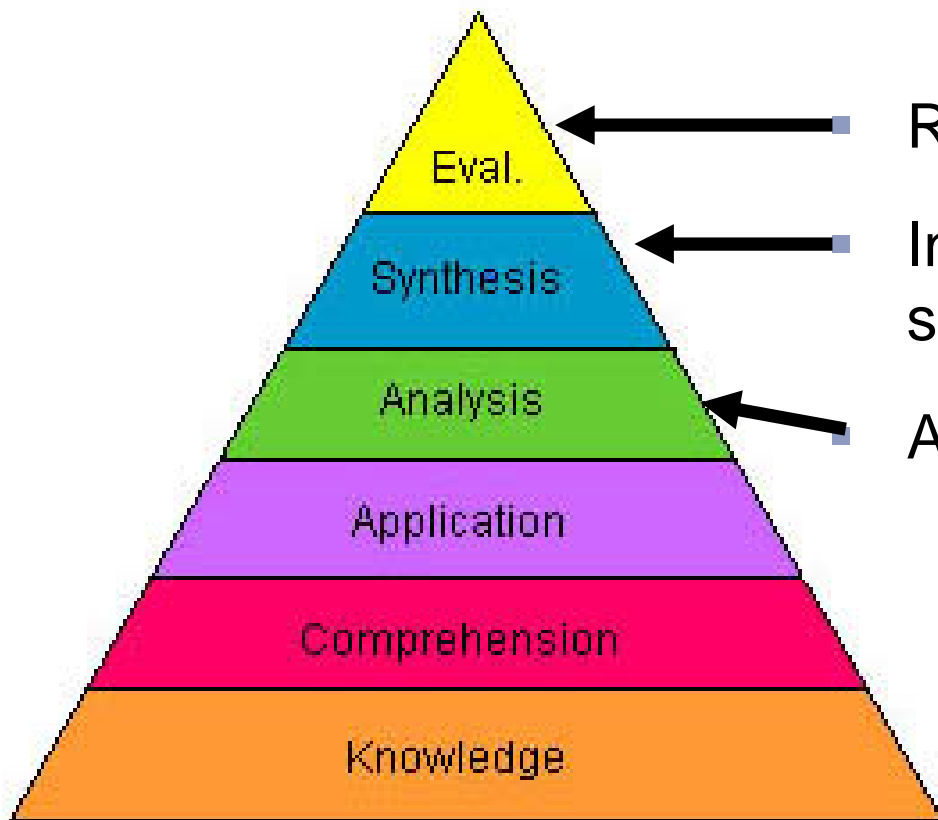
Resolving Bias in Analysis

Integrating data from intelligence subject matter experts

Analysis of intelligence sources

Forms of Bias to be Recognized

- Order Bias
  - Biasing decisions through the order in which information is presented

- Confirmation Bias
  - Biasing analysis results to confirm initial assumptions

- Accessibility Bias
  - Biasing analysis by using easily accessible information

- Process Bias
  - Biasing analysis results through the process used to conduct the analysis

- Sunk Costs Bias
  - Biasing analysis results to justify the effort spent to date

RTI INTERNATIONAL

After Action Review

AAR Results

Student: test
Lesson: Startup Procedures for FBCB2 Practice (Run 2)
Status: NOGO
Date: July 03, 2003 15:23

Performance Measures	
Task 171-147-0002: Perform Startup Procedures for FBCB2, Performance Measure 01: Perform PLGR start up procedures.	Status: NOGO
PLGR start up procedures	Status: NOGO
The following action(s)/setting(s) is(are) required in sequence	
PLGR Power Status is set to On	Status: Satisfied
PLGR FOM Status is set to less than 5.0000	Status: Satisfied
GPS Startup Done Button is set to Depressed	Status: NotSatisfied
PLGR Settings OK	Status: GO
Task 171-147-0002: Perform Startup Procedures for FBCB2, Performance Measure 02: Perform EPLRS start up procedures.	Status: NOGO
EPLRS start up procedures	Status: NOGO
The following action(s)/setting(s) is(are) required in sequence	
EPLRS RT - POWER rotary switch is set to On_Audible	Status: Satisfied
EPLRS Current Message is set to At_C_Standby	Status: Satisfied
EPLRS Net State is set to In_Net	Status: Satisfied
COMM Startup Done Button is set to Depressed	Status: NotSatisfied
EPLRS Settings OK.	Status: GO
Task 171-147-0002: Perform Startup Procedures for FBCB2, Performance Measure 03: Perform INC start up procedures.	Status: GO
INC start up procedures	Status: GO
Task 171-147-0002: Perform Startup Procedures for FBCB2, Performance Measure 04: Perform SINCGARS ASIP Start up procedures	Status: NOGO
SINCGARS ASIP Start up procedures	Status: NOGO
The following action(s)/setting(s) is(are) required in sequence	
SINCGARS RT A - Function Control Switch is set to SQ_On	Status: Satisfied
SINCGARS RT A Comsec Loaded is set to True	Status: Satisfied
COMM Startup Done Button is set to Depressed	Status: NotSatisfied
PLGR Satellites Acquired then SINCGARS Time Displayed	Status: NOGO
The following action(s)/setting(s) is(are) required in sequence	
PLGR FOM Status is set to less than 5.0000	Status: Satisfied
SINCGARS RT - LCD Display Date is set to 1.0000	Status: NotSatisfied
SINCGARS RT - LCD Display hrMin is set to 1.0000	Status: NotSatisfied
SINCGARS RT - LCD Display minSec is set to 1.0000	Status: NotSatisfied
SINCGARS Settings OK	Status: GO

- **What happened:**

  - Task and Performance Measures
 - Why events happened

  - **PM Criteria**

  - **Criteria Items**

Scenario-Based Staff Training

- Tailors versions of common scenarios to each staff member

- Requires the student to assess the mission, collect information, analyze, decide, brief

- Requires the student to perform intra-team, inter-team, and human-machine transactions and evaluates their performance

Simulated Communications
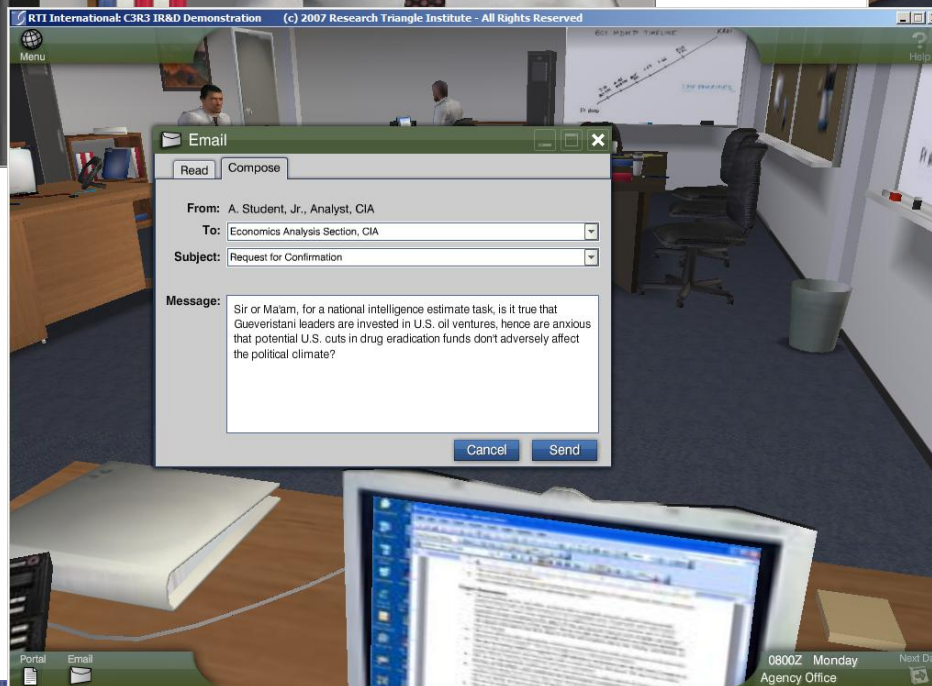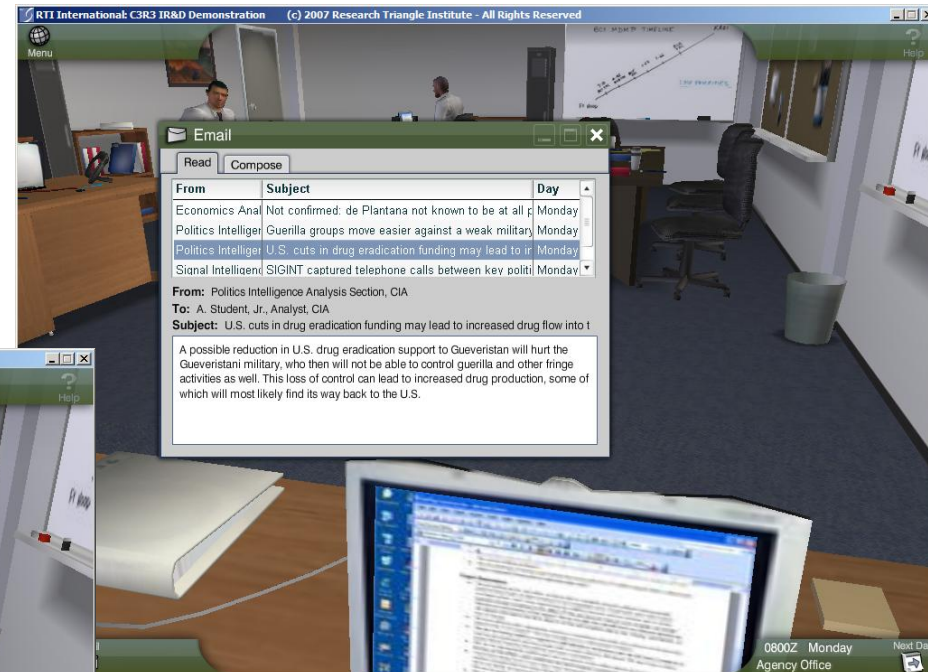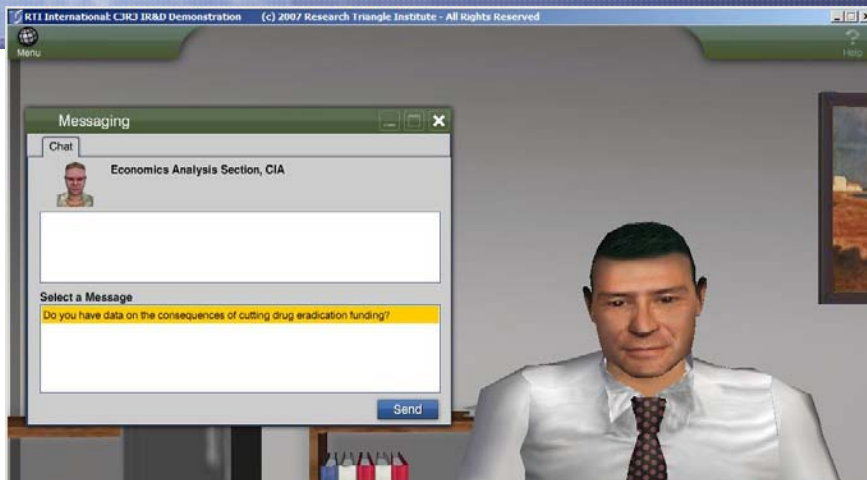
Just In Time Feedback

- **Student Product Assessment**
  - Bias in selected results
  - Consistency of analysis and sources
  - Completeness of product
    - Source data references

- **Student Action Review**
  - Asking for analyses
  - Getting supporting sources
  - Getting confirmations
  - Resolving conflicts

Roles in the Simulation

- ## Senior IA
  - Wants his opinion confirmed
  - Exhibits bias in statement of Key Estimative Question

- ## Student
  - Assembles the NIE
  - Recognizes bias
  - Uses processes to avoid bias

RTI INTERNATIONAL
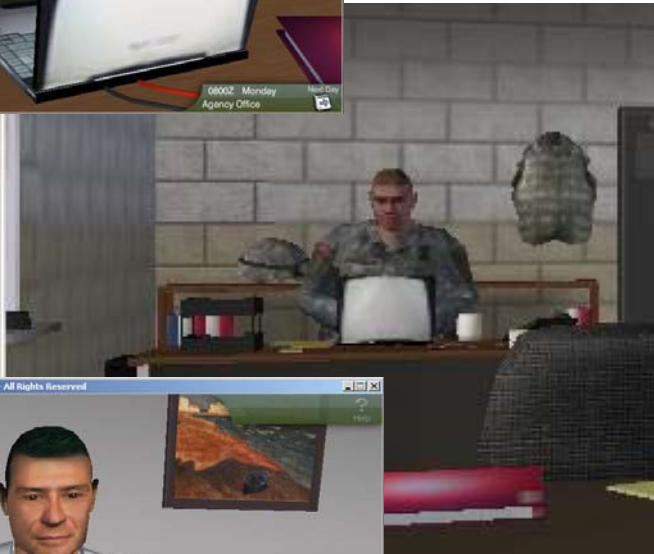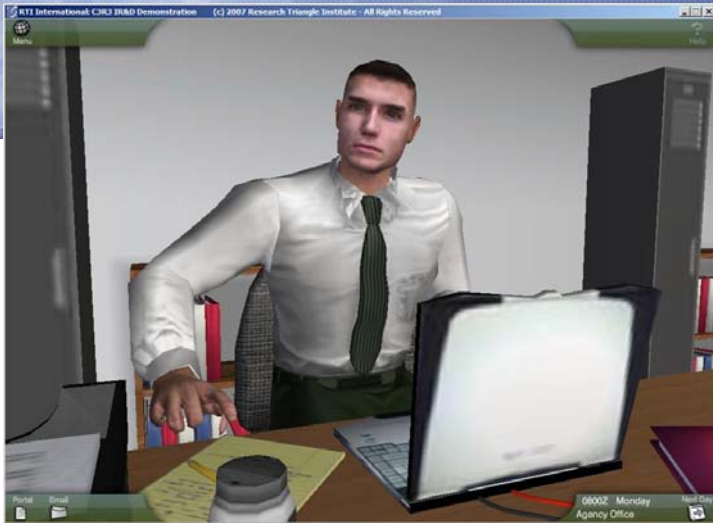
- **Political Analyst**
  - Opposed to current Gueveristan government

- **Military Analyst**
  - Supports current Gueveristan military

- **Economic Analyst**
  - Opposed to current Gueveristan government
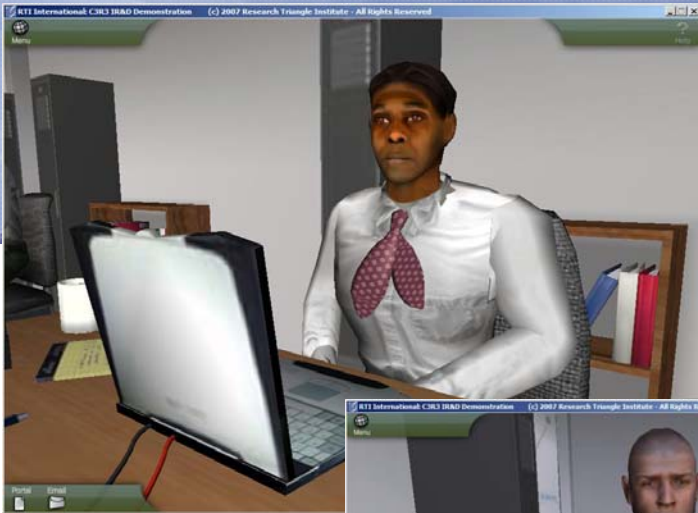
- HUMINT Specialist

  - Supports current Gueveristan military

- IMINT Specialist

  - Technical expert

  - Politically neutral

  - Believes that the imagery can provide the answers

- SIGINT Specialist

  - Technical expert

  - Politically neutral

  - Believes in the technology

Documents

RTI International: C3R3 IR&D Demonstration (c) 2007 Research Triangle Institute - All Rights Reserved

Menu   Help

PORTAL

- National Intelligence Estimate
- Boston Globe Article
- Camp photos
- Credit Report
- Economist Article
- Interviews
- International Enquirer Article
- Drug Lord Photo
- National Geographic Article
- Phone Call Log
- Religious Cult Website
- State Dept Briefing
- DEA - State Dept Briefing
- USA Today Article

DEA - State Dept Briefing   150%   1 /1

U.S. DEPARTMENT of STATE

Briefing by U.S. Drug Enforcement Agency Administrator
June 25, 2007

UNCLASSIFIED

Executive Summary

On June 24, 2007 U.S. Drug Enforcement Agency administrator Mary Jane Toquer briefed U.S. State Department officials on current drug eradication efforts in South America. Discussion centered on a plan to reduce funding for drug eradication specifically to the country of Gueveristan. Gueveristan is a strategic partner with the U.S. in the War on Drugs.

The administration has publicly commented on contemplating reduction in support for drug eradication efforts in Gueveristan, as part of restructuring of domestic and international spending in response to the War on Terror. The Gueveristani government is opposed to any reduction in drug eradication funding.

Administrator Toquer briefed these points:

o   The success of drug eradication efforts is mixed. The funding supports the Gueveristani military in repressing religious and narcotic elements in the region, but there remains a continuous flow of drugs into the U.S. from the region.

Portal   Email   0800Z Monday   Next Day
                          Agency Office

RTI International: C3R3 IR&D Demonstration (c) 2007 Research Triangle Institute - All Rights Reserved

Menu   Help

PORTAL

- National Intelligence Estimate
- Boston Globe Article
- Camp photos
- Credit Report
- Economist Article
- Interviews
- International Enquirer Article
- Drug Lord Photo
- National Geographic Article
- Phone Call Log
- Religious Cult Website
- State Dept Briefing
- DEA - State Dept Briefing
- USA Today Article

Credit Report   200%   1 /1

initials	residence	financial interests	overseas investment	net worth
RdP	n/a	660,000	500,000	1,160,000
AZ	500,000	400,000	255,000	1,155,000
LK	300,000	450,000	125,000	875,000
DH	200,000	210,000		410,000
CM	225,000	121,000		346,000
EdP	n/a	1,100,000	450,000	1,550,000

Portal   Email   0800Z Monday   Next Day
                          Agency Office

Interviews — 150% 1/1

CENTRAL INTELLIGENCE AGENCY

UNCLASSIFIED

Summary from interviews with expatriate Gueveristani religious fanatics

Counterintelligence Center Analysis Group
Dated: 09 Sep 2007

The Gueveristani expatriate population is centered in several major cities in Gulf Coast states. Among this population are deeply religious persons who are in general in opposition to the current de Plantana administration.

Funds from U.S.-led drug eradication efforts are redirected by de Plantana to the Gueveristani military, which then runs the drug eradication program. These dollars keep the military strong. The strong Gueveristani military keeps guerilla religious fanatics weak.

Portal | Email — 0800Z Monday — Agency Office — Next Day

Drug Lord Photo — 200% 1/1

Portal | Email — 0800Z Monday — Agency Office — Next Day

Phone Call Log — 125% 1/1

uuid	initials of person placing call	initials of person called	date_time	content
~01064d353d13e41dc9	RdP	AZ	2007-04-09T20:31:53Z	discussion of possible U.S. reduction in drug eradication funding
~0192cab901297008a6	AZ	LK	2007-04-10T06:46:36Z	issue order: determine political implications of posible U.S. actions; forward discussion of possible U.S. actions; adverse political effects
~015bde118d75fa1d30	LK	DH	2007-04-10T21:48:38Z	esp. in outlying provinces
~0128aac2f471a9594b	LK	CM	2007-04-11T00:56:02Z	discussion of effects of U.S. actions; disorganized rebels might gain footing
~0183c09d048a3511dd	LK	AZ	2007-04-12T10:05:03Z	report back on discussions of adverse political effects
~014c5bfbc47f73799f	AZ	RdP	2007-04-12T14:10:15Z	report back on discussions of adverse political effects
~0193a157555d0a227b	RdP	EdP	2007-04-16T21:40:17Z	going to be late for dinner

Portal | Email — 0800Z Monday — Agency Office — Next Day

Camp photos — 75% 1/1

Portal | Email — 0800Z Monday — Agency Office — Next Day

PORTAL
- National Intelligence Estimate
- Boston Globe Article
- Camp photos
- Credit Report
- Economist Article
- Interviews
- International Enquirer Article
- Drug Lord Photo
- National Geographic Article
- Phone Call Log
- Religious Cult Website
- State Dept Briefing
- DEA - State Dept Briefing
- USA Today Article

RTI International: C3R3 IR&D Demonstration   (c) 2007 Research Triangle Institute - All Rights Reserved

RTI INTERNATIONAL

Bias Inoculation Assessment and Simulation

Dr. Robert Hubal

rhubal@rti.org

919-541-6045

RTI International
3040 Cornwallis Road
P.O. Box 12194
Research Triangle Park, NC
USA 27709

Dr. Geoffrey Frank

gaf@rti.org

919-541-6629