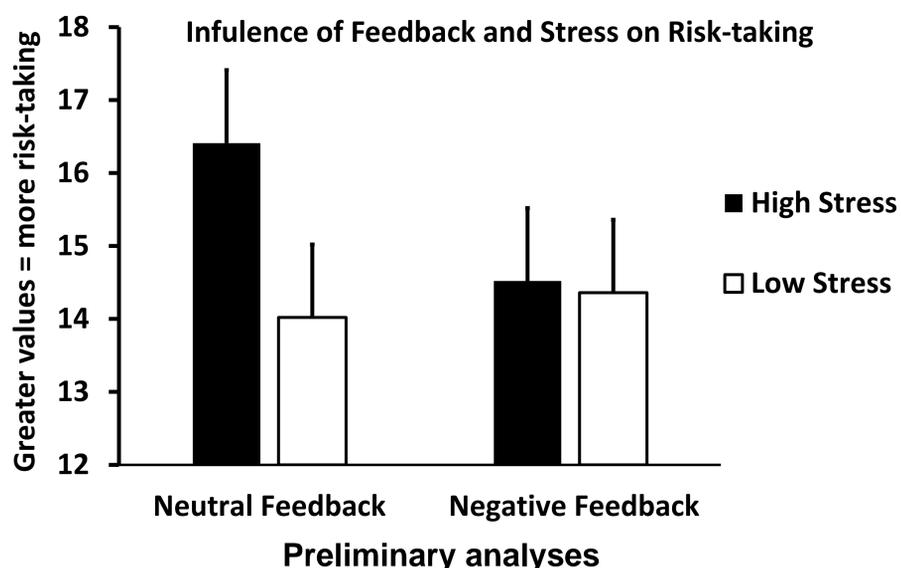


**S&T Campaign: Human Sciences**  
*Human Behavior*  
*Real-World Behavior*

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## Research Objective

- Determine the effects of team dependability (e.g. backup behaviors) under stressful circumstances relevant to operational situations encountered by Soldiers
- Investigate shared mental models in Soldiers



## Challenges

- Manipulating team backup behavior requires novel methods, as most past work has been correlational
- Development of metrics for stress, effective teamwork, and risk-taking
- Access to subjects
- Design of challenging simulated combat environments to elicit team coping strategies



Combat team simulation under development

## ARL Facilities and Capabilities Available to Support Collaborative Research

- C4ISR lab: 8 sound attenuated whisper rooms network connected with 50" visual display monitors
- In house DMDX programming for stimulus presentation and test instruments
- Price, T. F., Tenan, M. S., Head, J., Maslin, W., & LaFiandra, M. (2016). Acute stress increases overconfidence in situation awareness, Symposium presentation at the annual meeting of CogSIMA, San Diego.
- Expertise in motivation, emotion, and stress research

## Complementary Expertise / Facilities / Capabilities Sought in Collaboration

### Needed:

- Knowledge of team based experiments and analyses, and team based risk-taking exercises
- Complex computer simulation design
- Methods to alter perceived teammate dependability
- Manipulations to directly influence perceived teammate engagement with a task, indirectly influencing teammate backup behavior on a subsequent task