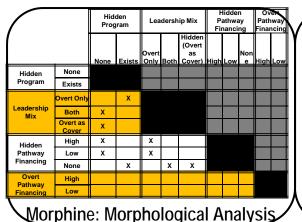
- Least Squares Software, Inc.
- Principle Investigator
   William N. Reynolds, Ph. D.
- Team
  - Dr. Marta Weber SME: Sociology, Psychology, Behavioral Profiling
  - Dr. Jim Holden-Rhodes SME: Intelligence Analysis,
     Political Science, Open Source Intelligence, IW/COIN



What makes an AM/SAT effective?

- Core Expertise: Analytic Methodology/Structured Analytic Techniques
- Approaches to structure human judgment.
  - Designed to mitigate problems with human reasoning
    - Cognitive Biases
    - Limited Working Memory



Douglas Adams

Parameter Adams

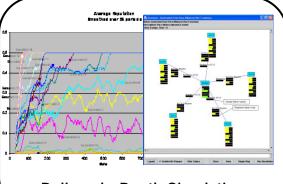
Paramete

The answer is always 42.

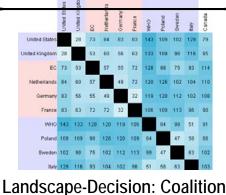
vidence Evidence 1. Structure orientation 2. Structure dimensions 3. Military threat ilitary threat perception 4. Communication deficit ommunications defic 5. Political leverage of ilitarv influence Kafiri military h. Adami-Kafiri border 7. Defector reports on Hulaefector reports Hoop radar **Findings Hypotheses** 1. H.H. a communications 1. Hula Hoop a radar installation structure 2. H.H. a missile quidance 2. Hula Hoop a communication structure

Analysis of Competing Hypotheses

modernization: Simple Unrestricted



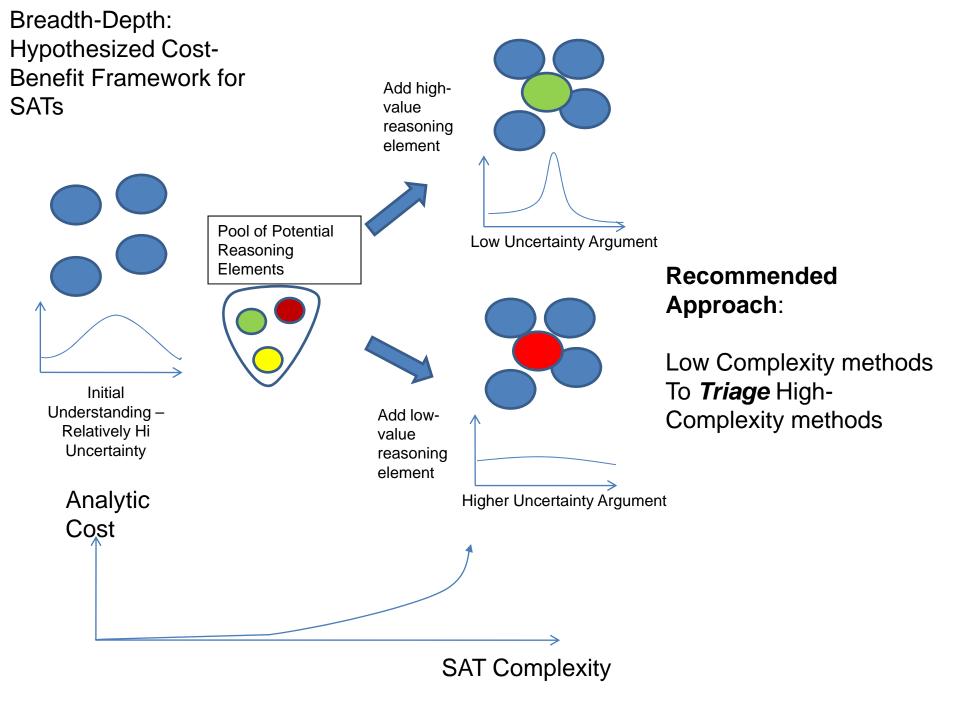
Policrash: Depth Simulation



**Analysis** 

Landscape-Decision: Decision

Modeling





## Desired Collaborations:

 LSS would like to work with other performers interested in researching, developing and delivering forecasting methodologies and tools.

## • LSS' Value Propositions

- Work with our and/or other performers' tools/methods to develop Breadth-Depth approach, conduct experiments.
- Support others through validation of techniques through triangulation, in particular using efficient, coarse-grained models that capture expert knowledge (Morphological Analysis/Morphine/Causal Inference Theory).
- Track record of developing CONOPS for methods and tools for real-world deployment.
- Support case studies with SME, Analytical, Complexity and Software Expertise.

## LSS Specific SATs

- Landscape-Decision Coalition and Small Group Decision Analysis, deployed at two agencies.
- Morphine Tool for conducting Morphological Analysis. Structured, highly
  efficient capture of SME knowledge for validating other approaches. Basis for
  designing statistical tests based on Causal Inference Theory.



## **Contact Information**

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