PARTNER OR PERISH:
AUTOMATING STRUCTURED ANALYTIC TECHNIQUES FOR STANDARDIZED ANALYTIC REPORTING

REASONS PROPOSERS' DAY
JANUARY 11, 2023

DR. KIRIL AVRAMOV AND DR. BIANCA ADAIR
THE UNIVERSITY OF TEXAS AT AUSTIN AND CATHOLIC UNIVERSITY OF AMERICA

RESEARCHERS' BACKGROUNDS
BLENDING ACADEMICS AND PRACTICAL APPLICATION

➤ **DR. KIRIL AVRAMOV**, UNIVERSITY OF TEXAS AT AUSTIN

❑ DIRECTOR OF THE GLOBAL (DIS)INFORMATION LAB, UNIVERSITY OF TEXAS AT AUSTIN

❑ COORDINATION OF AI ALGORITHM CREATION FOR LANGUAGE LEARNING

❑ PRACTICAL APPLICATION OF AUTOMATING INFORMATION FOR ANALYTIC REPORTING

➤ **DR. BIANCA ADAIR**, UT AUSTIN AND CATHOLIC UNIVERSITY OF AMERICA

❑ RETIRED OPS OFFICER, CENTRAL INTELLIGENCE AGENCY, DIRECTORATE OF OPERATIONS

❑ ANALYTIC PRODUCTS, IC CONSUMER EXPERIENCE TO ASSIST SOFTWARE DEVELOPMENT

❑ UNDERSTANDING OF STRUCTURED, UNSTRUCTURED LOGIC TO HELP TRAIN ALGORITHM

AUTOMATING STRUCTURED ANALYTIC TECHNIQUES WITH AN ARTIFICIAL INTELLIGENCE ALGORITHM

➢ DESIGN AI ALGORITHM TO USE STRUCTURED ANALYTIC TECHNIQUES

  ❑ BASIS OF ALGORITHM: PHERSON & PHERSON, IC ANALYTIC TRADECRAFT PRIMER

  ❑ ALGORITHM-SOFTWARE INTERFACE FOR SAT WRITTEN OUTPUT

➢ FACILITATE HUMAN-MACHINE INTERACTION TO AVOID "OPERATIONAL DRIFT"

➢ EQUIP ANALYSTS WITH TOOL BASED ON ANALYTIC BEST PRACTICES

  ❑ CREATION OF AI AS AN ASSISTANT FOR INTELLIGENCE ANALYSTS

  ❑ CLARIFIES WHAT IS "KNOWN" TO FREE ANALYTIC EFFORTS TO RESOLVE "UNKNOWNS"

SOFTWARE PRODUCTS WITH STANDARDIZED ICD 203 LANGUAGE

- PROGRAM SOFTWARE WITH ICD 203 TERMINOLOGY
  - USE OF LIKELIHOOD OR PROBABILITY BASED ON ICD 203 REQUIREMENTS
  - APPLICABILITY AMONG ALL IC MEMBERS WITH CONSUMERS
- INCREASED PRECISION OF LANGUAGE OF OUTPUT REPORTS
  - CLEAR LANGUAGE OF THE AI ANALYTIC MESSAGE UP FRONT
  - CLARITY IN THE SATS USED IN THE AI ASSESSMENT
- STANDARDIZED LANGUAGE FOR IC AND CONSUMER COMMUNICATION