

Topic: N101-094

AnthroTronix, Inc.

SUSTAIN: Measuring Cognitive Readiness

There is currently no field-deployable way to track changes in cognitive processing. DANA™, the Brain Thermometer®, an FDA-cleared mobile app, addresses this issue by measuring cognitive efficiency through the tracking of responses to visual stimuli. DANA is sensitive to anything that affects cognitive processing and its intuitive user interface enables tests to be completed in under five minutes. It has minimal training effect, allowing it to be taken as frequently as needed. Initial targeted transition customers include high performing warfighters and defense contractors.

Multiple papers have been published demonstrating DANA's effectiveness and its high test-retest reliability. AnthroTronix is a Small, Woman-owned business focused on developing digital health solutions. Our goal is for customers to use DANA wherever cognitive metrics drive successful job performance.

#### Technology Category Alignment:

Biomedical Informatics / Health Information Systems & Technology

Combat Casualty Care

Military Operational Medicine

Personalized Assessment, Education, and Training

System Interfaces & Cognitive Processes

#### Contact:

Jonathan Brown

[jbrown@atinc.com](mailto:jbrown@atinc.com)

(440) 463-5269

<https://www.anthrotronix.com/>

**SYSCOM:** ONR

**Contract:** N00014-14-C-0068

**Room:** Not Exhibiting at FST

 Corporate Brochure: [https://navystp.com/vtm/open\\_file?type=brochure&id=N00014-14-C-0068](https://navystp.com/vtm/open_file?type=brochure&id=N00014-14-C-0068)

# Department of the Navy SBIR/STTR Transition Program

DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited.

ONR Approval #43-5915-19

Topic # N101-094

SUSTAIN: Measuring Cognitive Readiness

AnthroTronix, Inc.

## WHO

**SYSCOM:** ONR

**Sponsoring Program:**

**Transition Target:** Special Operations Command (SOCOM), Navy Training and Education Command (NETC), Fleet Readiness Centers, Marine Corps Systems Command (MARCORSYSCOM), Army Medical Research and Materiel Command (MRMC)

**TPOC:**

Dr. Ray Perez  
[ray.perez@navy.mil](mailto:ray.perez@navy.mil)

**Other transition opportunities:**  
Defense Contractors

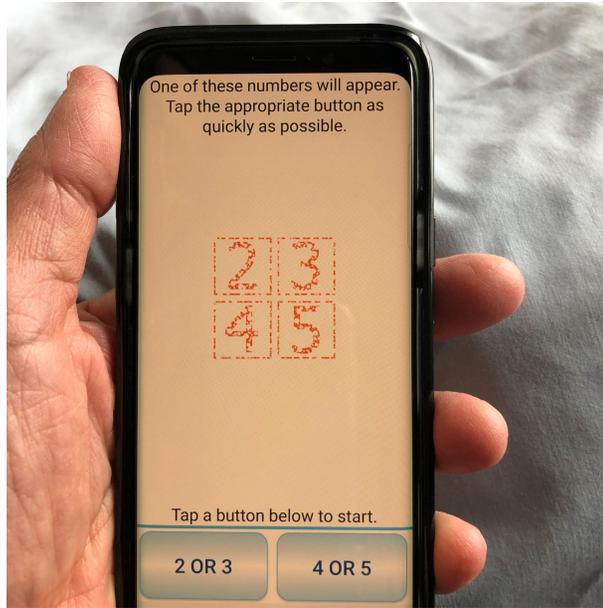


Image courtesy of AnthroTronix, Inc.

## WHAT

**Operational Need and Improvement:** Assess impact of work flow changes on cognitive processing of manufacturing personnel at a Navy prime contractor.

**Specifications Required:** Gather data from manufacturing personnel using an FDA-cleared mobile application with high test-retest reliability and that is sensitive to anything that affects cognitive processing.

**Technology Developed:** DANA™, the Brain Thermometer® Android App. Measures cognitive efficiency by tracking responses to visual stimuli. Received 510(k) clearance from the FDA as a medical device. Multiple papers published in peer-reviewed journals demonstrate DANA's sensitivity to anything that affects cognitive processing and its high test-retest reliability. Has minimal training effect, enabling it be taken as frequently as needed. Very intuitive user interface minimizes training time, enabling DANA to be used easily in the Fleet and deployed at scale.

**Warfighter Value:** Provides objective measurement of cognitive processing in under 5 minutes to help assess cognitive readiness. Can be used wherever cognitive metrics drive successful job performance.

## WHEN

**Contract Number:** N00014-14-C-0068

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Receive internal approval of study from our Defense Prime Contractor partner	N/A	Received approval	TRL-7	3rd QTR FY19
Enroll Manufacturing Support Staff and Shop Floor Test Participants	Low	Achieve or exceed targeted number of test subjects	TRL-7	4th QTR FY19
Complete Data Collection	Low	Achieve or exceed minimum targeted data sets	TRL-7	4th QTR FY19
Analyze data and write report	Low	Complete data analysis and submit report	TRL-7	4th QTR FY19

## HOW

**Projected Business Model:** AnthroTronix, in conjunction with its ONR sponsor will identify Navy programs of record where SUSTAIN can be used to measure cognitive readiness for Sailors. AnthroTronix is also targeting transition opportunities in all of the other services, as well as with Defense prime contractors.

**Company Objectives:** AnthroTronix focuses on working with the Department of Defense to develop innovative digital health solutions, and to establish DANA as the technology of choice for tracking cognition over time.

**Potential Commercial Applications:** AnthroTronix is actively pursuing customers in the employee health and well being, insurance, and consumer markets, as well as with pharmaceutical companies and health care providers.

**Contact:** Jonathan Brown, Business Development  
[jbrown@atinc.com](mailto:jbrown@atinc.com) 440-463-5269