

# Soar Technology Company Update 2016



## SOARTECH

Modeling human reasoning.  
Enhancing human performance.

# Soar Technology, Inc.

- Spinoff of University of Michigan AI Lab (Soar Group)
- R&D in Wide Array of Cognitive and Social Architecture Technologies

{ MORE PREPARED. } { MORE CAPABLE. } { MORE INFORMED. }



INTELLIGENT TRAINING



AUTONOMOUS PLATFORMS



CYBERSPACE OPERATIONS

Market Segments	Focus Areas	Technology Applications
	<ul style="list-style-type: none"> <li>• Full spectrum behavior models</li> <li>• Individually varied training &amp; assessment</li> <li>• Mobile training</li> </ul>	<ul style="list-style-type: none"> <li>• Human-Robot Interfaces</li> <li>• Situational Awareness</li> <li>• Cognitive Control for Autonomous Platforms</li> </ul>
		<ul style="list-style-type: none"> <li>• TAIS (Army)</li> <li>• SSIEGE (Army)</li> <li>• FLUENT (ADL)</li> <li>• SSIM (DARPA)</li> <li>• LVC, UASSIST (ONR)</li> <li>• RedSpinUp (AFRL)</li> <li>• Helping our Heroes (OSD)</li> <li>• VESIP (Dept. of Ed)</li> </ul>

## Technology Applications

- SquadMate (DARPA)
  - CODE (DARPA)
  - Daisy (DoT)
  - TALOS (SOCOM)
  - SUMET (ONR)
  - SAPIENT (CERDEC)
  - SID (multiple)
  - MAGIC (IRAD)
- SC2RAM (ONR)
  - CYSTINE (AFRL)
  - Cyber-Physical Security (DARPA)
  - COLD KNIFE (SPAWAR)
  - Applied Research & Experimentation Partner (ARL Cyber CTA)

# SoarTech Offices and Staff



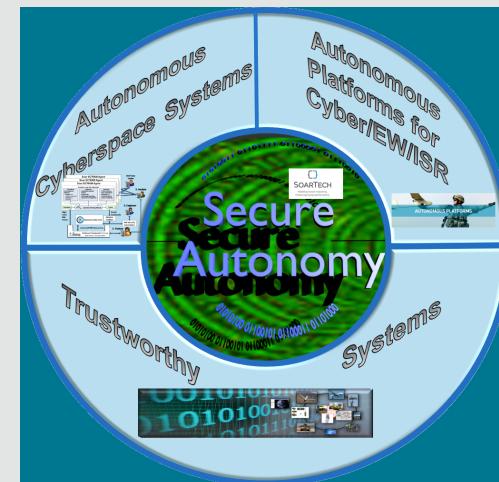
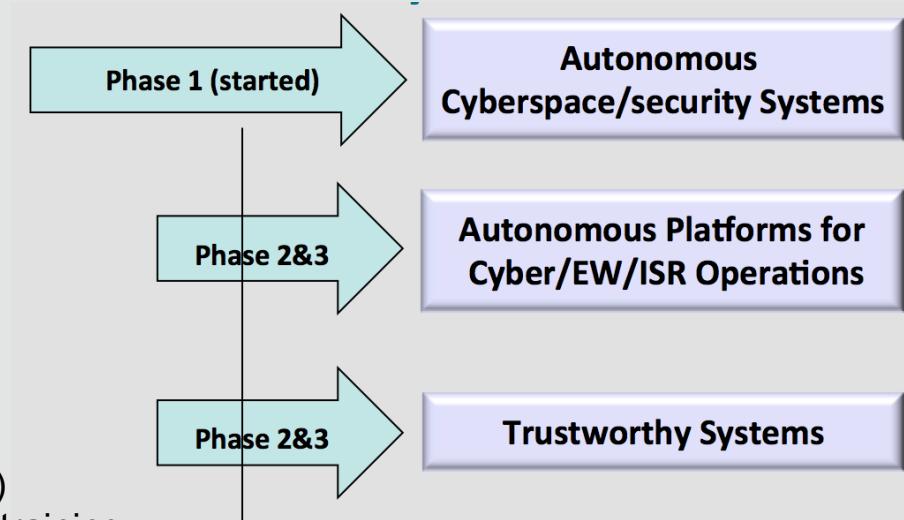
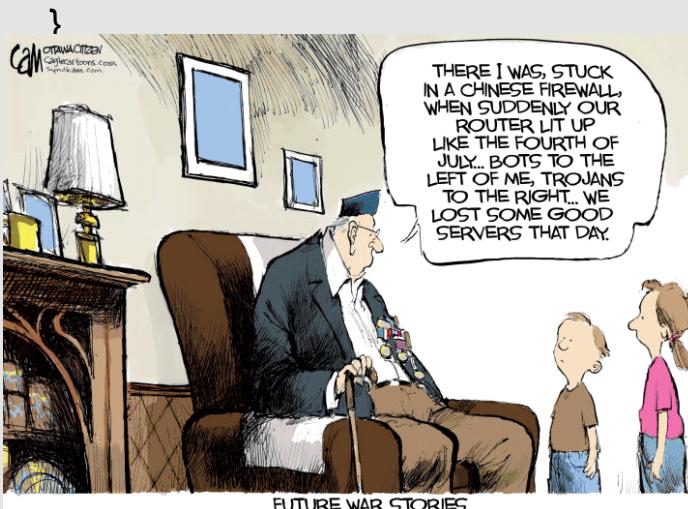
# Col Scott Lathrop, Ph.D

## Director of Secure Autonomy

```
sp {propose*secure-autonomy
(state <s> ^superstate nil
  ^intelligent-training <it>
  ^unmanned-platform <up>
  ^cyber <c>
  ^decision-support <ds>)
```

--&gt;

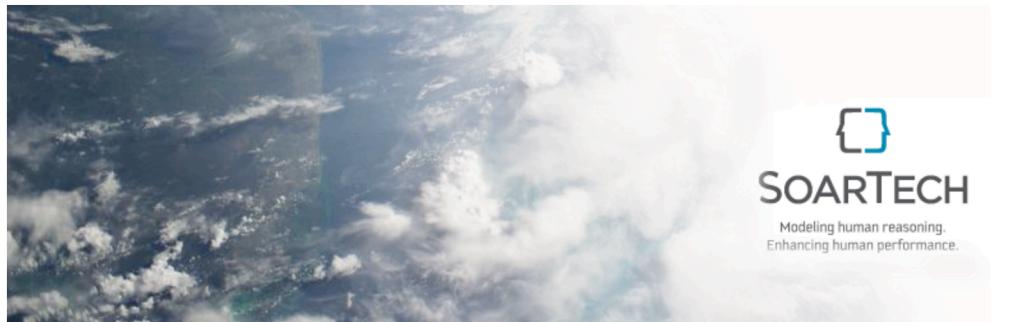
```
(<s> ^operator <op> + )
(<op> ^name secure-autonomy
  ^strategic-vision <sv>
  ^supporting <it> <up> <c> <ds>)
(<sv> ^autonomous-cyber operations training
  ^autonomous-platforms cyber ew isr
  ^trustworthy-systems bounded explainable fail-safe resilient)
```



# Partnership with Epic Games

**"SoarTech's long history of success in Government and military research and development makes them uniquely suited to support the application of the UE4 in this market sector."**

Joe Kreiner, Unreal Engine licensing manager for the Americas



**SOARTECH AND EPIC GAMES ANNOUNCE OFFICIAL  
PARTNERSHIP FOR GOVERNMENT AND MILITARY APPLICATIONS**



Stay tuned...



# Contributions to the Soar community

- **SoarIDE**
  - Continuing active development and support of the SoarIDE
  - See Bob Marinier's talk later today
- **jSoar**
  - jSoar 0.14.3 released this morning
  - See Bob Marinier's talk this morning

# Nuggets and Coal

- **Nuggets**
  - AI is hot right now and cognitive is a buzzword

Cognitive retail

Cognitive veterinary

Cognitive go

Cognitive health

Shop Cognitive



Credit: Larry Busacca/Getty Images

Fashion / Marchesa

How do you make a cognitive dress?  
Find out now.

Cognitive insurance

Cognitive wearables

Cognitive  
cycles

Cognitive hospitality

Cognitive law

Cognitive finance

# Nuggets and Coal

- **Nuggets**
  - AI is hot right now and cognitive is a buzzword
  - Surge in our normal business
  - Multiple exciting opportunities above and beyond our normal business
  - Growth and the smart, fun new co-workers that comes with growth
  - Growing list of Government organizations and contractors using Soar
- **Coal**
  - Finding great people is our single biggest constraint