

C4I

Dr. Matthew E. Gaston

megaston@sei.cmu.edu

Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213



Software Engineering Institute

Carnegie Mellon University



Today's Challenges

The DoD has a vast user base and enormous amounts of information that it must analyze, store, transmit, and keep safe via technologies that are changing rapidly.

Warfighters need information, delivered quickly, in inhospitable locations, and on a variety of devices.

Solutions and Strategies to Meet Today's Challenges

- Improve decision making
- Enhance productivity
- Foster innovation

C4I

The SEI operates at the confluence of government, academia, and industry to bring innovative solutions to real challenges.

- Our researchers are experts in their fields.
- We are poised to innovate.
- Our collaborative relationships offer opportunities to demonstrate and grow our work.



Meeting Today's Challenges: Two Projects

Edge-Enabled Tactical Systems (EETS)

- fast and trustworthy information at the edge
- focusing on relevant information
- synthesizing information from multiple sensors

Effecting Large-Scale Adaptive Swarms Through Intelligent Collaboration (ELASTIC)

- greater autonomy of UAS swarms
- innovative strategies for autonomy

Copyright 2015 Carnegie Mellon University

This material is based upon work funded and supported by the Department of Defense under Contract No. FA8721-05-C-0003 with Carnegie Mellon University for the operation of the Software Engineering Institute, a federally funded research and development center.

Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the United States Department of Defense.

NO WARRANTY. THIS CARNEGIE MELLON UNIVERSITY AND SOFTWARE ENGINEERING INSTITUTE MATERIAL IS FURNISHED ON AN "AS-IS" BASIS. CARNEGIE MELLON UNIVERSITY MAKES NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, AS TO ANY MATTER INCLUDING, BUT NOT LIMITED TO, WARRANTY OF FITNESS FOR PURPOSE OR MERCHANTABILITY, EXCLUSIVITY, OR RESULTS OBTAINED FROM USE OF THE MATERIAL. CARNEGIE MELLON UNIVERSITY DOES NOT MAKE ANY WARRANTY OF ANY KIND WITH RESPECT TO FREEDOM FROM PATENT, TRADEMARK, OR COPYRIGHT INFRINGEMENT.

This material has been approved for public release and unlimited distribution except as restricted below.

This material may be reproduced in its entirety, without modification, and freely distributed in written or electronic form without requesting formal permission. Permission is required for any other use. Requests for permission should be directed to the Software Engineering Institute at permission@sei.cmu.edu.

Carnegie Mellon® is registered in the U.S. Patent and Trademark Office by Carnegie Mellon University.

DM-0002883