



Implementing a Secure Development Life Cycle

Mark Sherman
Director, Cybersecurity Foundations
CERT

Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213

Copyright 2019 Carnegie Mellon University. All Rights Reserved.

This material is based upon work funded and supported by the Department of Defense under Contract No. FA8702-15-D-0002 with Carnegie Mellon University for the operation of the Software Engineering Institute, a federally funded research and development center.

The view, opinions, and/or findings contained in this material are those of the author(s) and should not be construed as an official Government position, policy, or decision, unless designated by other documentation.

References herein to any specific commercial product, process, or service by trade name, trade mark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by Carnegie Mellon University or its Software Engineering Institute.

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.

[DISTRIBUTION STATEMENT A] This material has been approved for public release and unlimited distribution. Please see Copyright notice for non-US Government use and distribution.

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

Team Software ProcessSM and TSPSM are service marks of Carnegie Mellon University.

DM19-0904

CMU SEI is a DoD R&D Federally Funded Research and Development Center



Our mission: Engineering and securing software

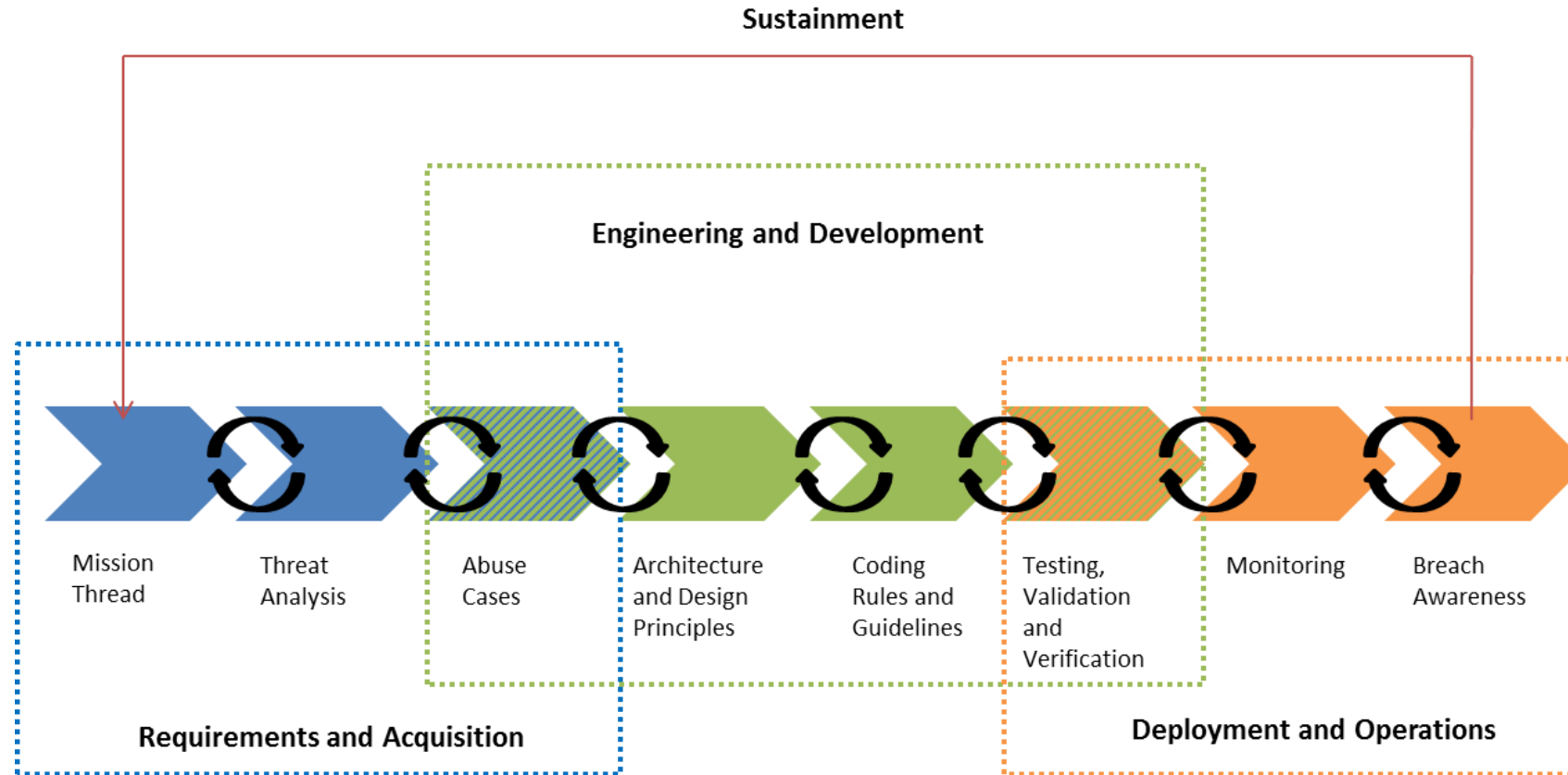
Established in 1984 at Carnegie Mellon University

~700 employees

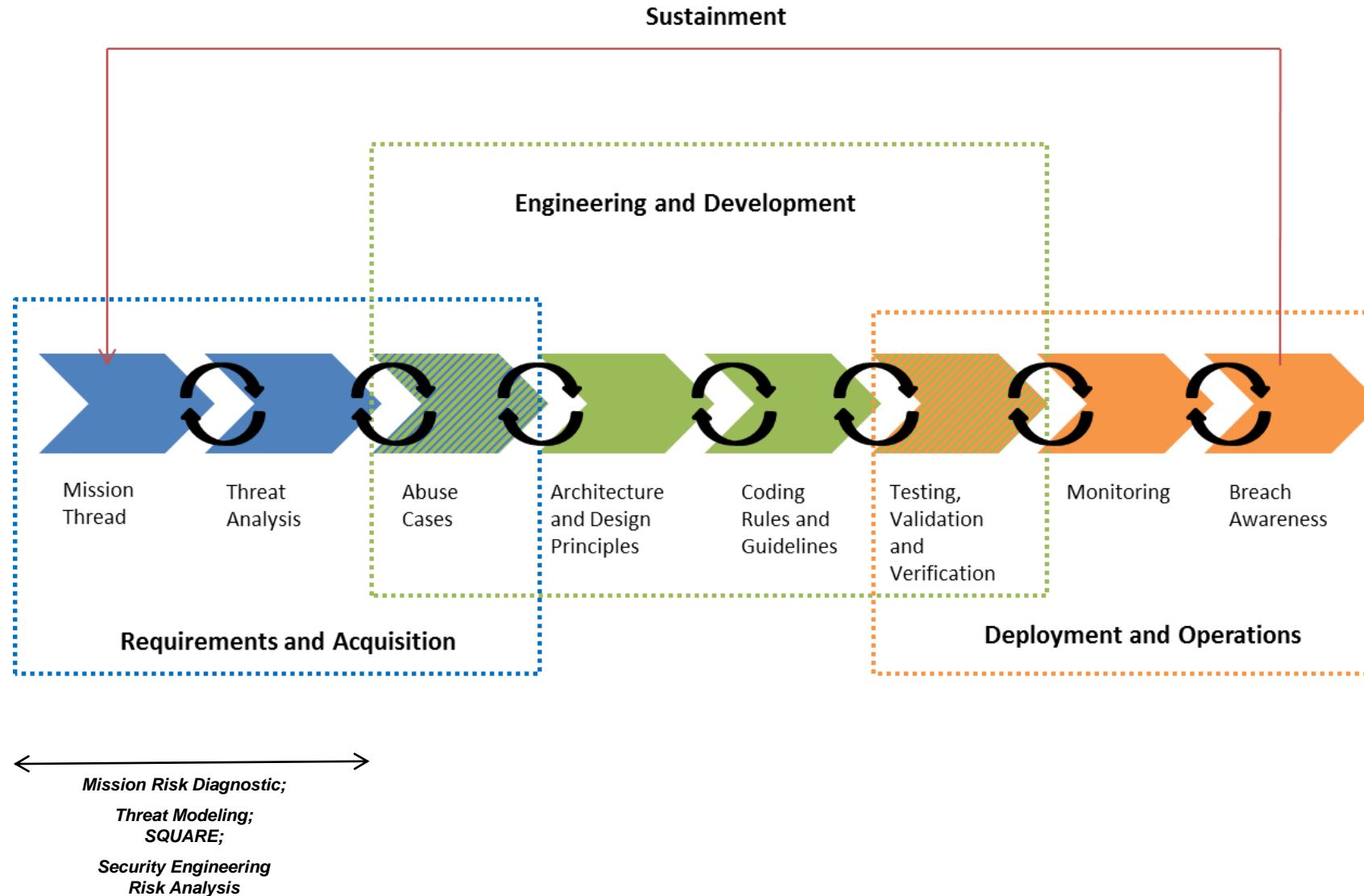
Offices in Pittsburgh and DC, with locations near customer facilities in MA, MD, TX, and CA

~\$145M in annual funding (~\$20M USD(R&E) 6.2 and 6.3 Line funding)

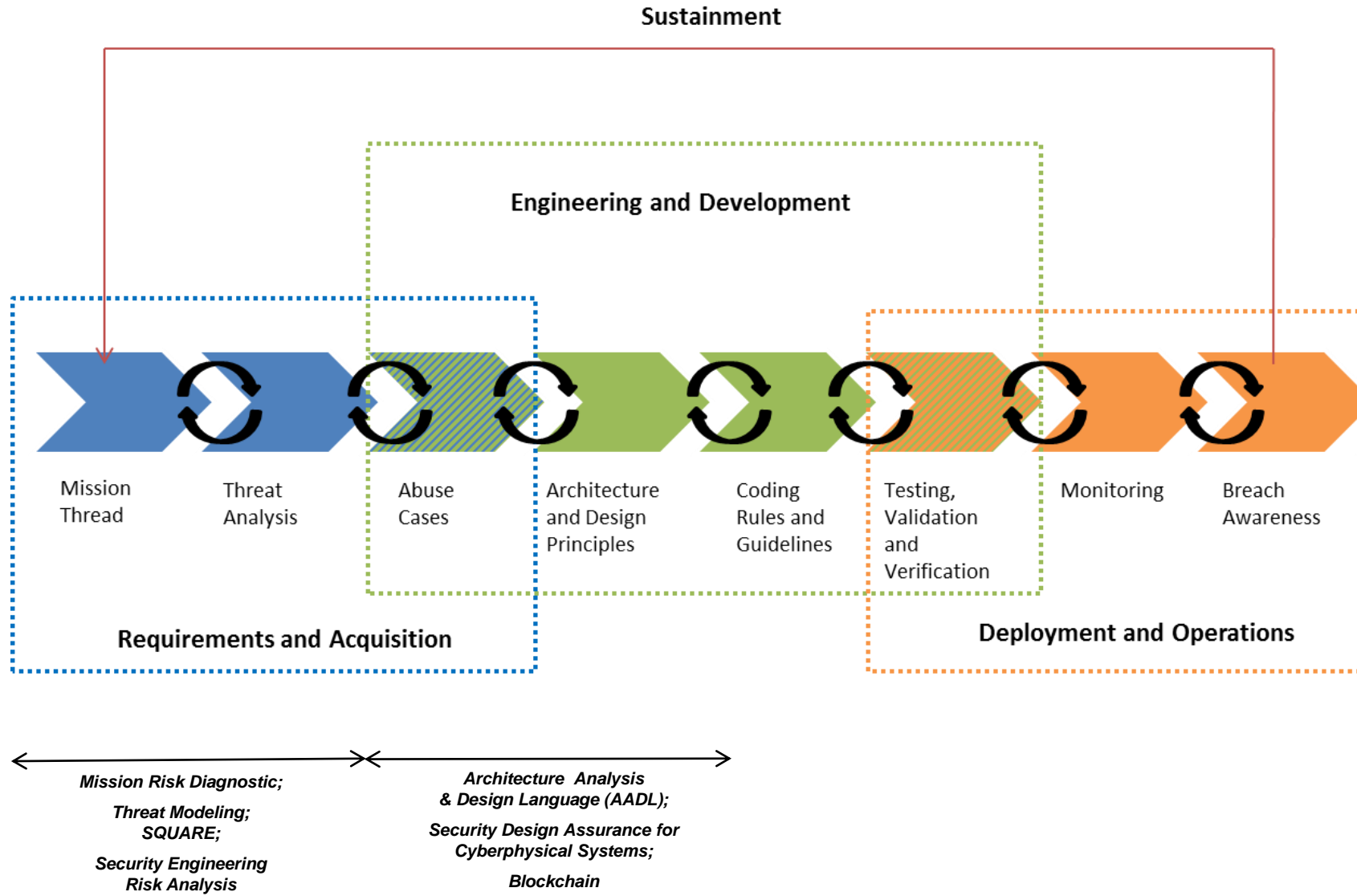
Implementing a Secure Development Lifecycle



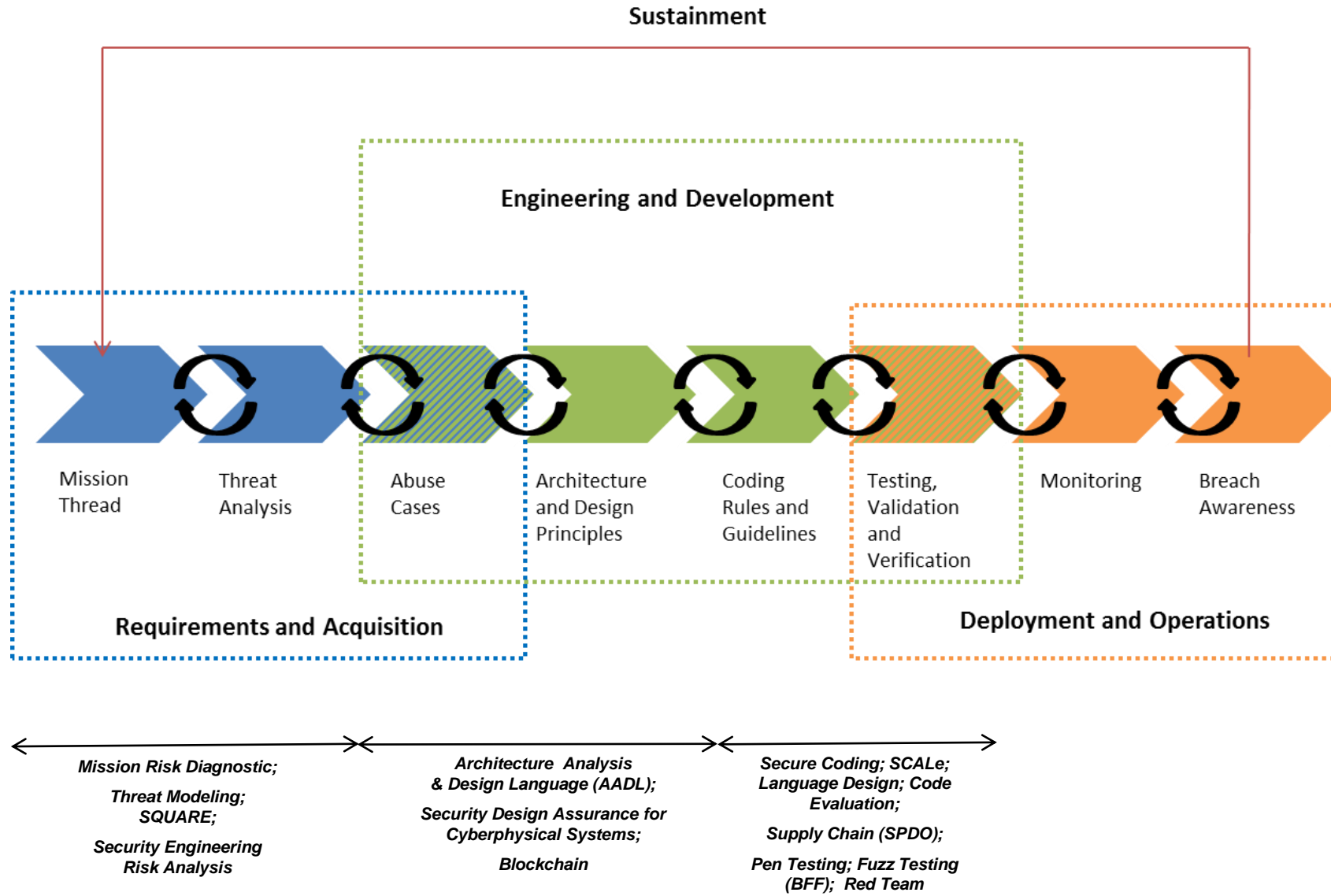
Implementing a Secure Development Lifecycle



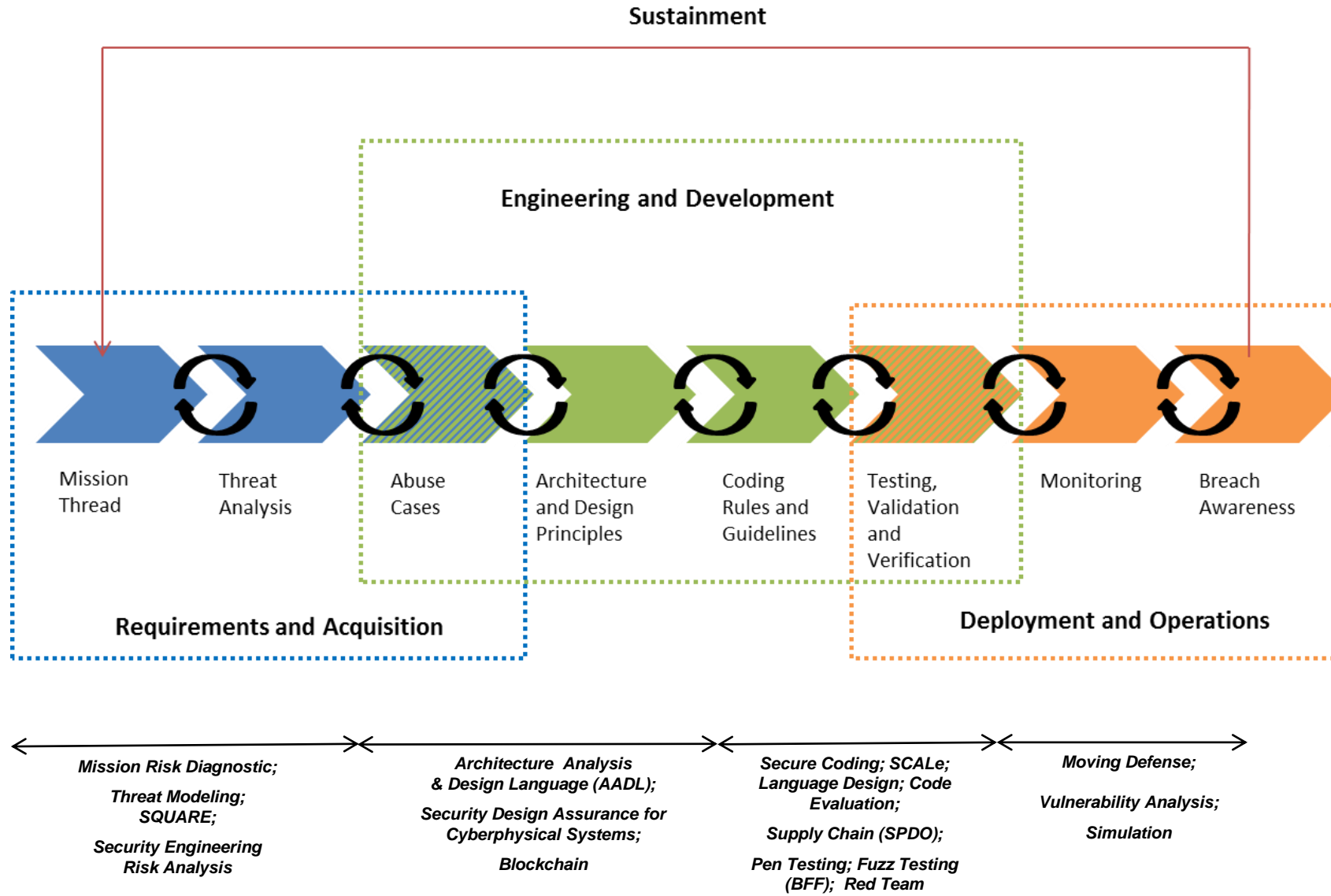
Implementing a Secure Development Lifecycle



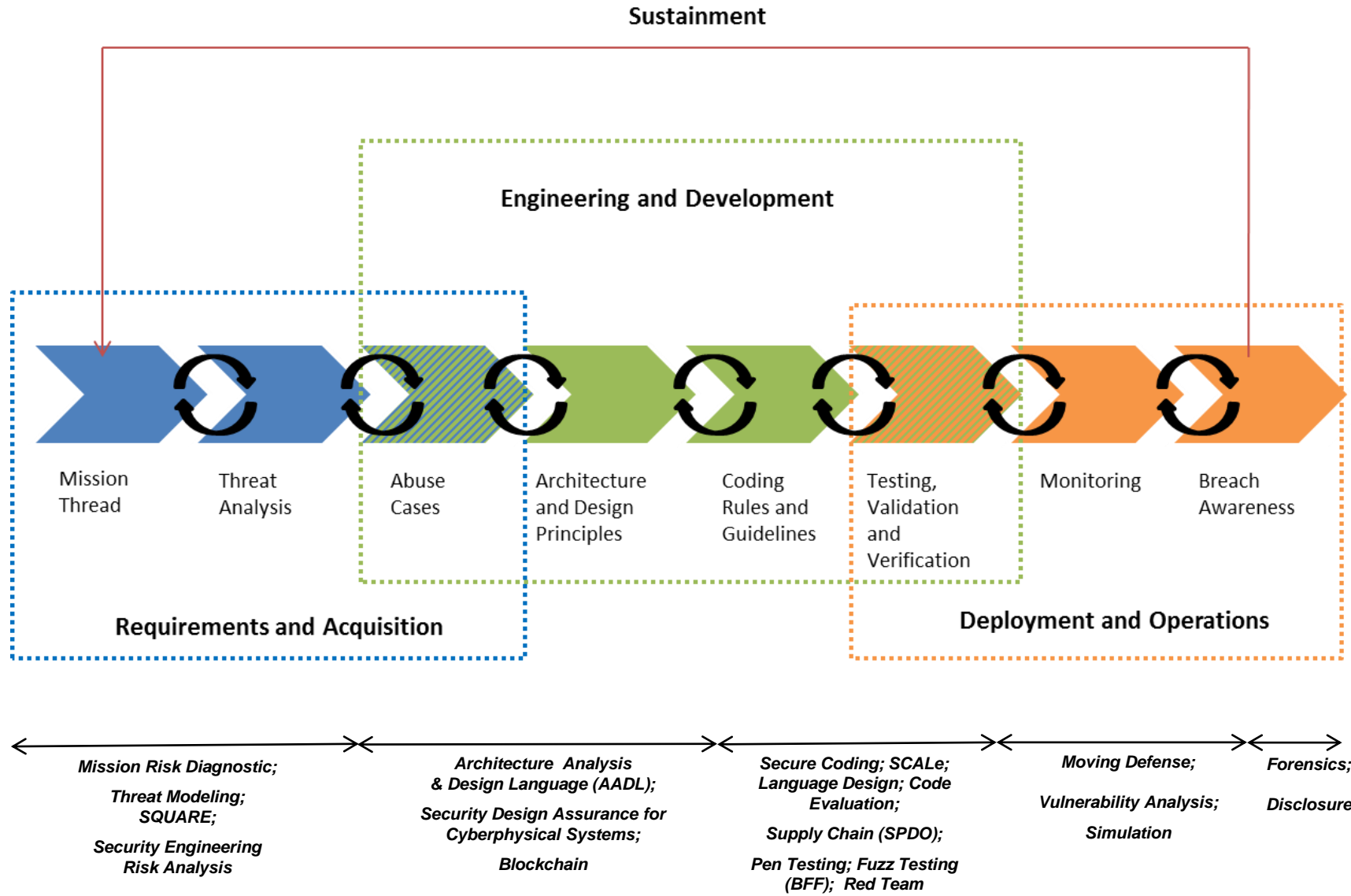
Implementing a Secure Development Lifecycle



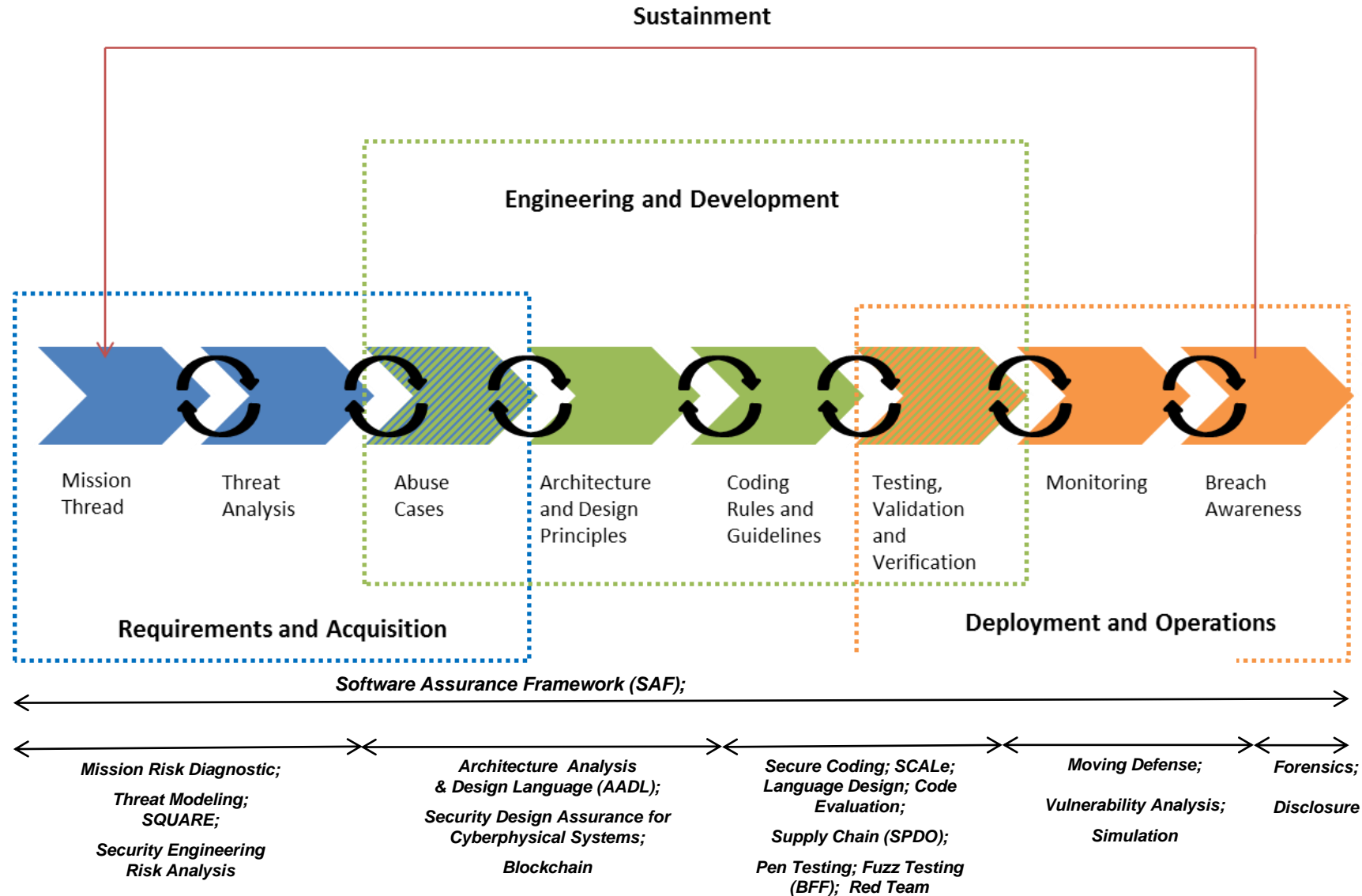
Implementing a Secure Development Lifecycle



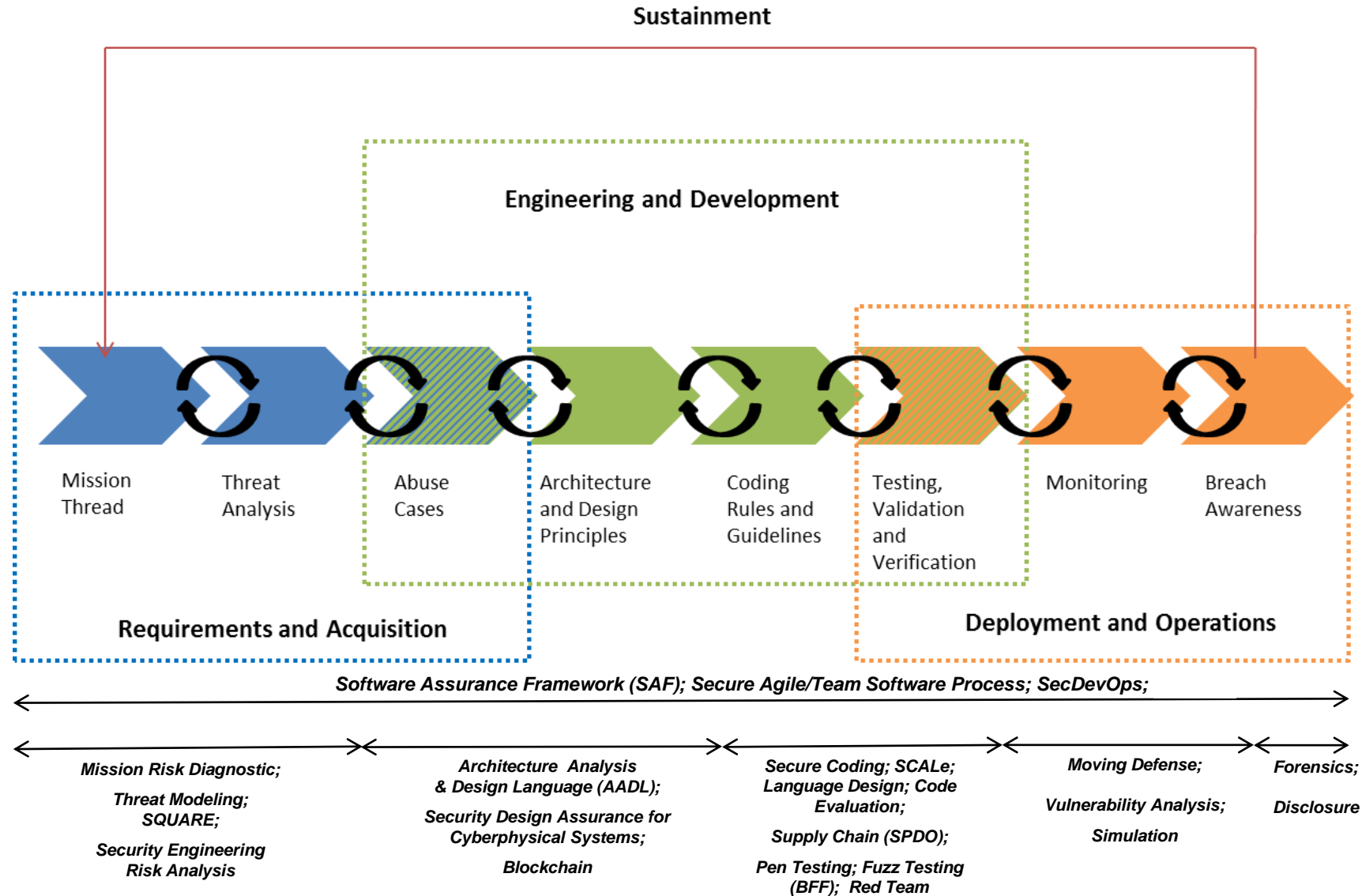
Implementing a Secure Development Lifecycle



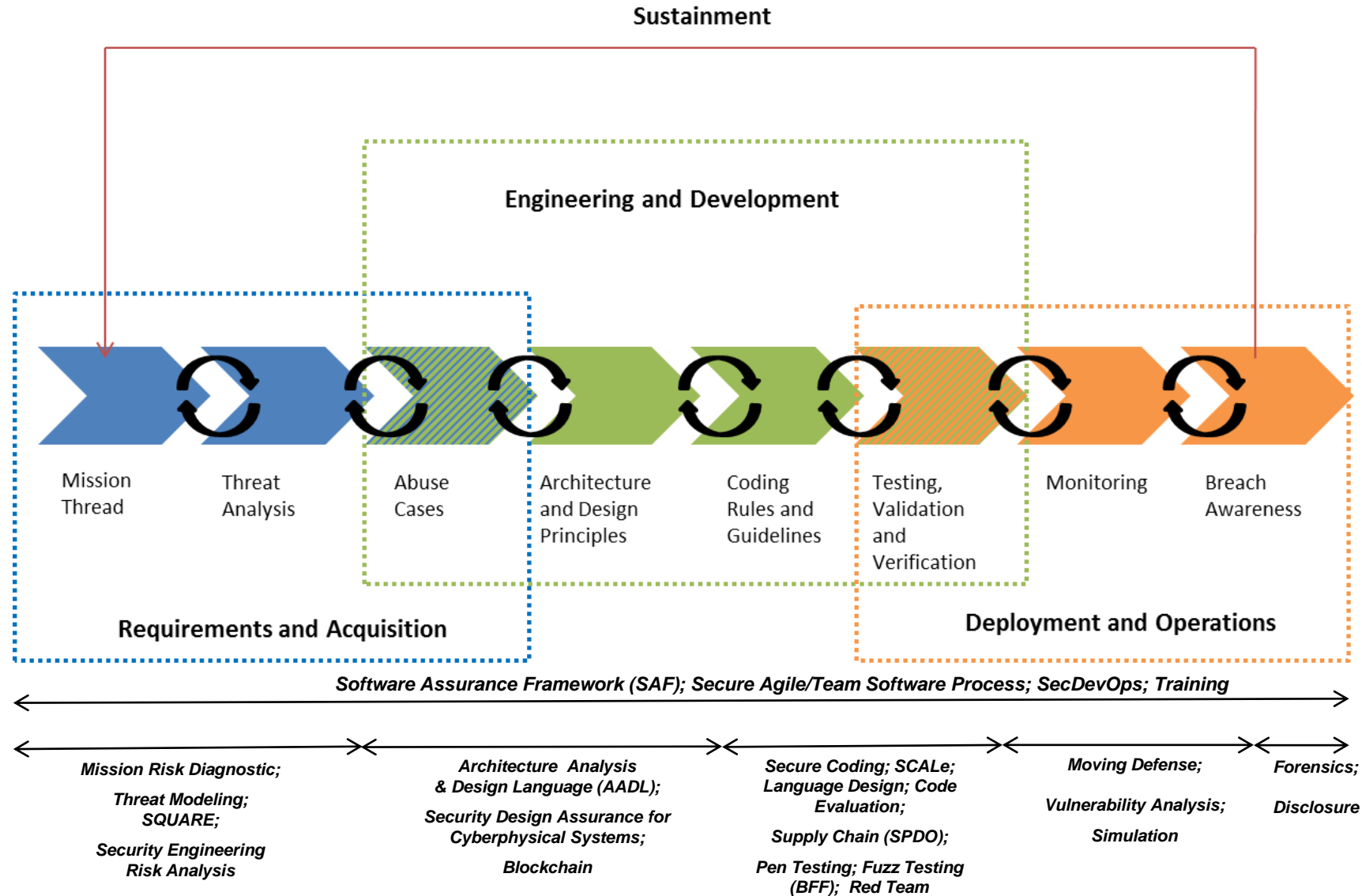
Implementing a Secure Development Lifecycle



Implementing a Secure Development Lifecycle



Implementing a Secure Development Lifecycle



Contact Information

Mark Sherman

(412) 268-9223

mssherman@sei.cmu.edu

info@sei.cmu.edu

Web Resources (CERT/SEI)

<http://www.cert.org/>

<http://www.sei.cmu.edu/>

