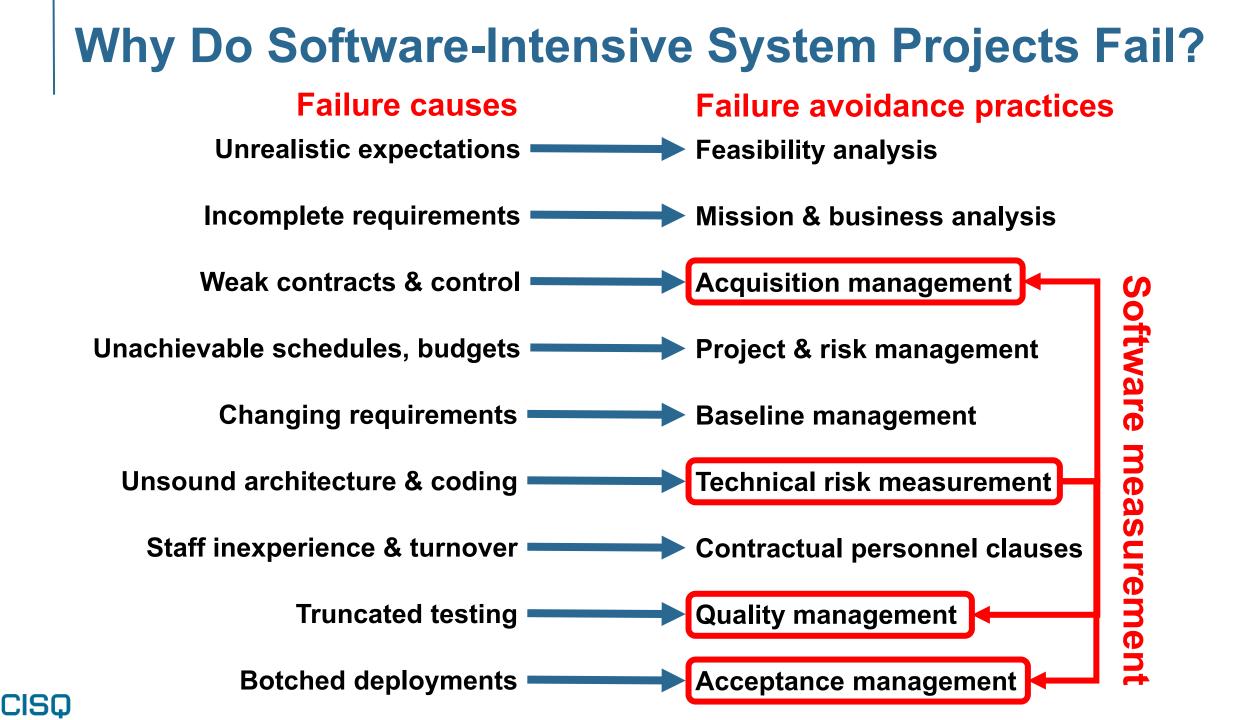


CISQ Standards for Federal Systems

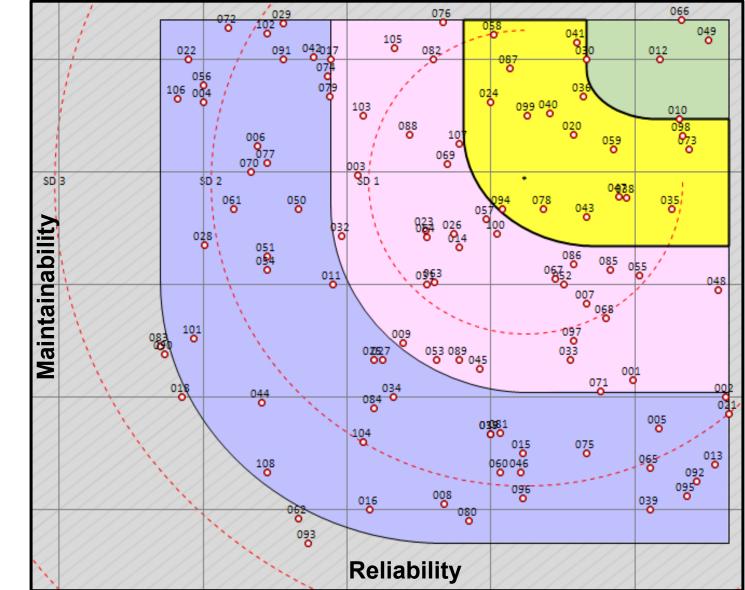
Dr. Bill Curtis Founding Executive Director, CISQ Washington, DC May 1, 2019



MITRE Study of Federal Systems

Software quality evaluation of 108 Federal systems regarding factors affecting operational and cost risk

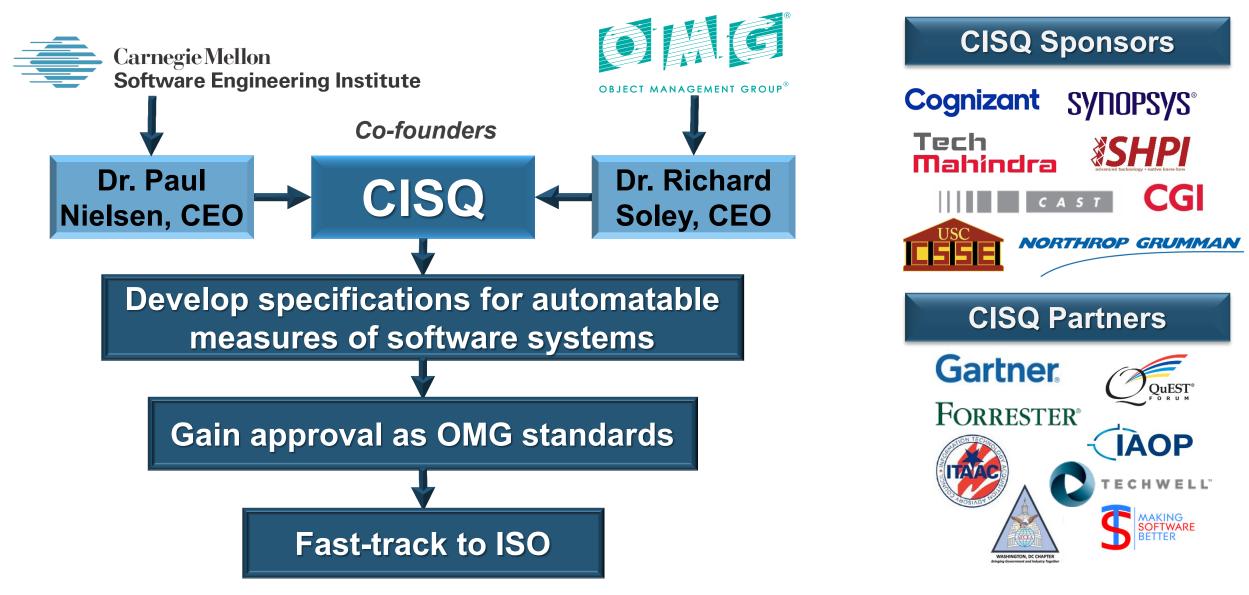
Too high quality	- 5
Quality is good	- 17
Needs minor improvement	- 34
Needs major improvement	- 46
Outside range	- 6



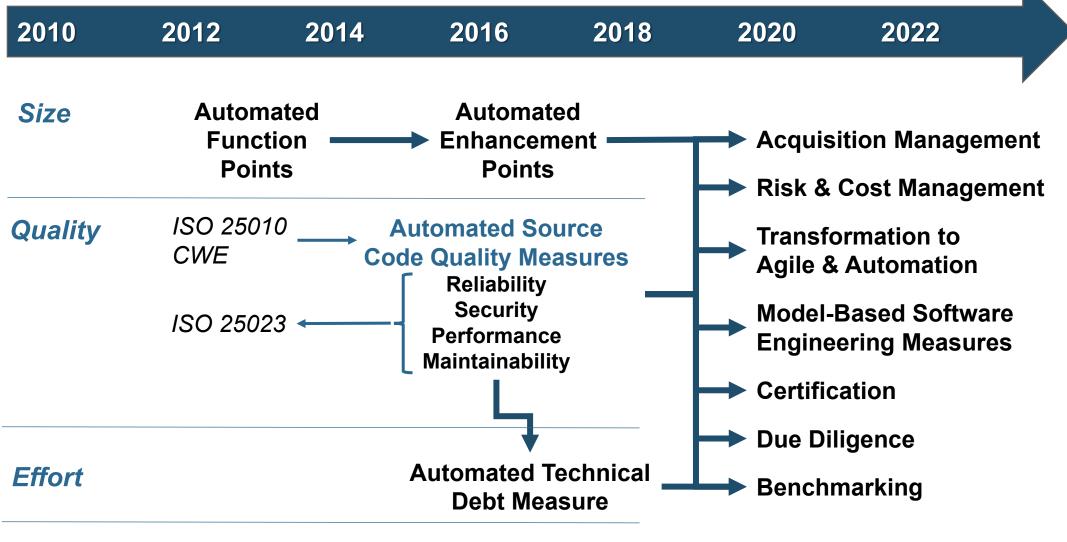
CISQ

3

What Is CISQ ?



CISQ Roadmap

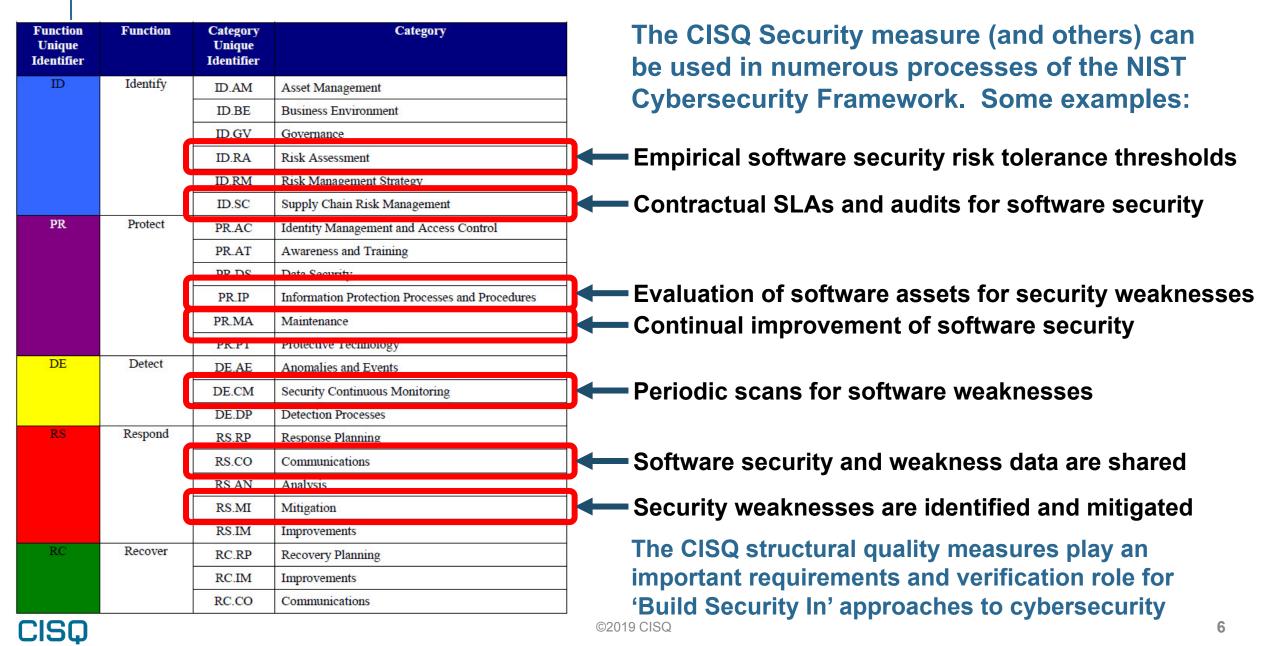


Process

open Process Maturity Framework

CISQ

CISQ and the NIST Cybersecurity Framework



Trustworthy Systems Manifesto

TRUSTWORTHY SYSTEMS MANIFESTO



- 1. Engineering discipline in product and process
- **2.** Quality assurance to risk tolerance thresholds
- 3. Traceable properties of system components
- 4. Proactive defense of the system and its data
- 5. Resilient and safe operations



AUTOMATABLE STANDARDS FOR SOFTWARE MEASUREMENT

Summary

- CISQ measures provide industry standard quantification of software reliability, security, and cost risk
- CISQ measures are designed for automation and are supported by an ecosystem of vendors
- CISQ measures integrate seamlessly with modern agile processes, ISO standards, and NIST frameworks
- CISQ measures are already mandated in some government and industry acquisitions and can be written into policy

