CMMI® Institute

AN ISACA ENTERPRISE

Purpose

To make the world work better

Promise

To inspire cultures of continuous improvement that elevate performance and create sustainable competitive advantage

1987

The Department of Defense (DoD) contacts Carnegie Mellon University to develop a capability maturity model (CMM) to assess the quality and capability of their software contractors

1991

Carnegie Mellon's Software Engineering Institute releases the first version of the software development capability maturity model

Software Engineering Institute
Carnegie Mellon

2010

CMMI®

The CMM model **expands into other areas** such as Services, Acquisition, and People and becomes integrated, now called **Capability Maturity Model Integration** (CMMI)®

2013

Carnegie Mellon University founds the **CMMI Institute** in order to extend the benefits of CMMI beyond software and systems engineering to **any product or service company** regardless of size or industry

CMMI Institute

2014

CMMI Institute introduces the **Data Management Maturity** (DMM)℠ model to help companies build, improve, and measure their enterprise data management function and staff

2016

CMMI Institute is **acquired by ISACA®**, a global non-profit association specializing in information technology. Both companies **share a vision** for advancing organizational performance across a spectrum of functions and industries.

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2017

CMMI Institute introduces the first cybersecurity maturity management platform to help organizations improve cyber resilience.

CMMI Institute collaborates with the US government to release two **healthcare initiatives** that improve patient safety.

2018

CMMI Development V2.0 is released with key enhancements to meet the challenges of the changing global business landscape

CMMIDEV

CMMISVC

CMMIACQ

PCMM

DMM

CMMICYBERMATURITY

CMMIDEV

CMMISVC

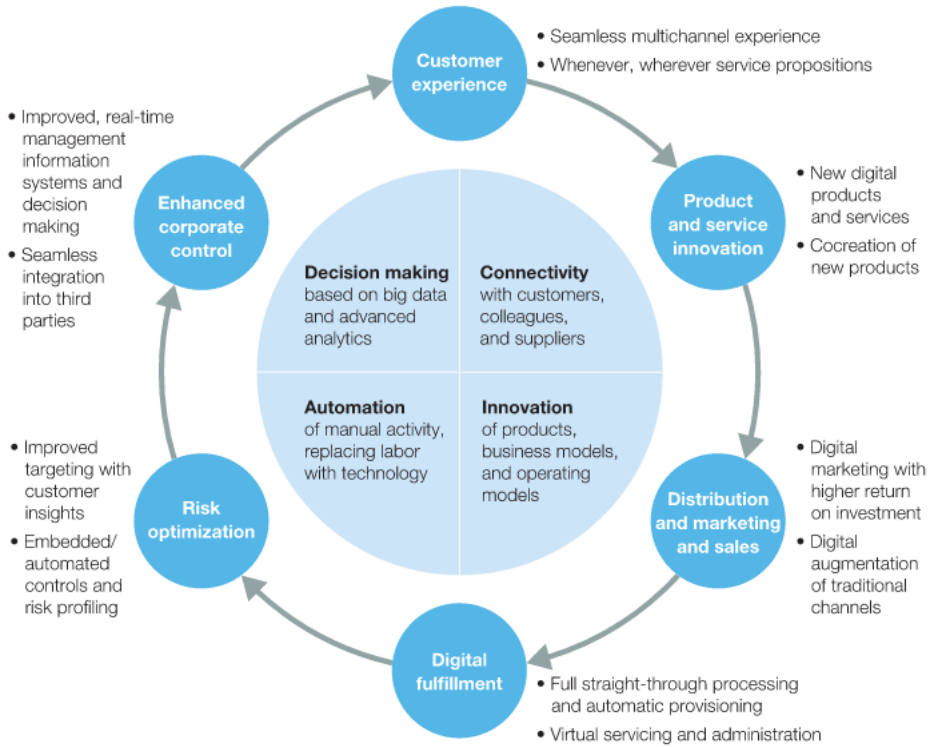
CMMIACQ

PCMM

DMM

CMMICYBERMATURITY

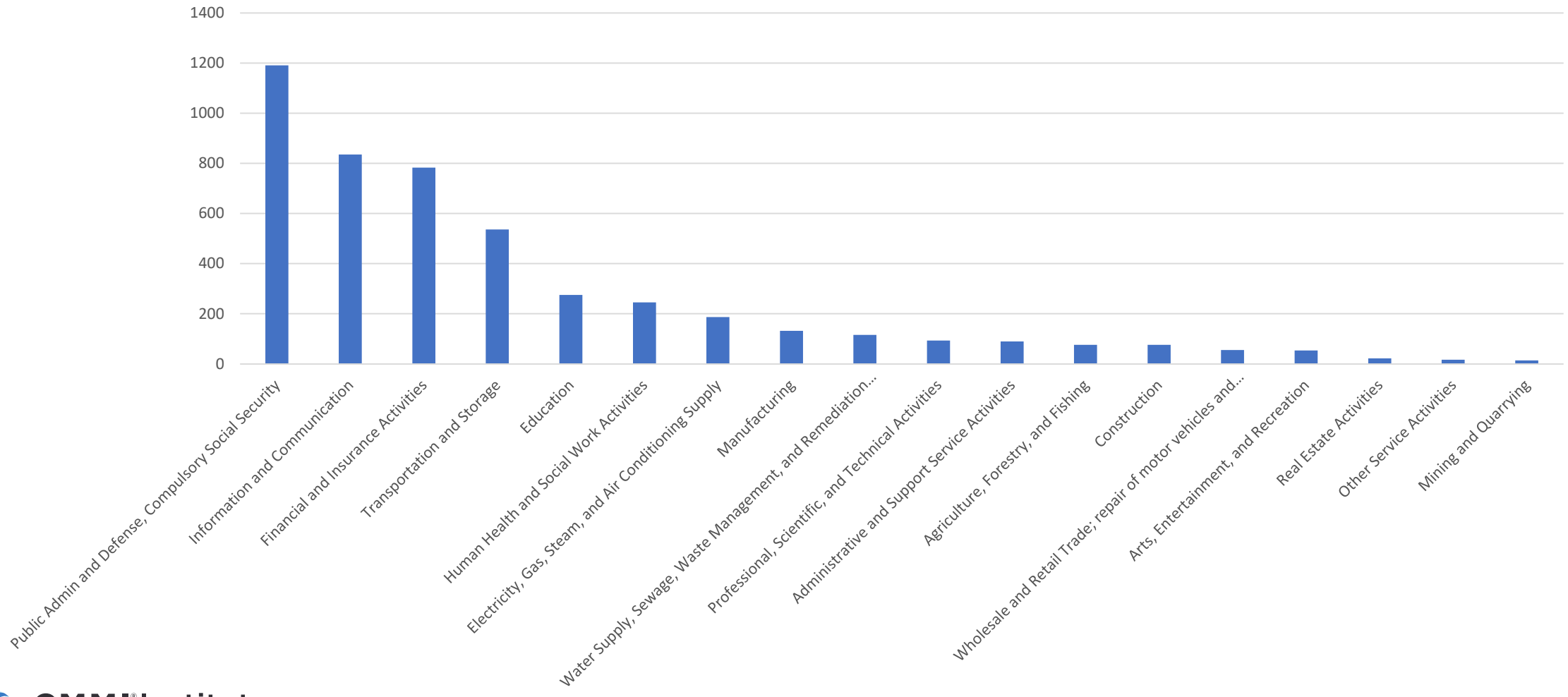
Digital can reshape every aspect of the modern enterprise.



Source: Expert interviews; McKinsey analysis


InterCity

Industry Mapping for 2016 and 2017



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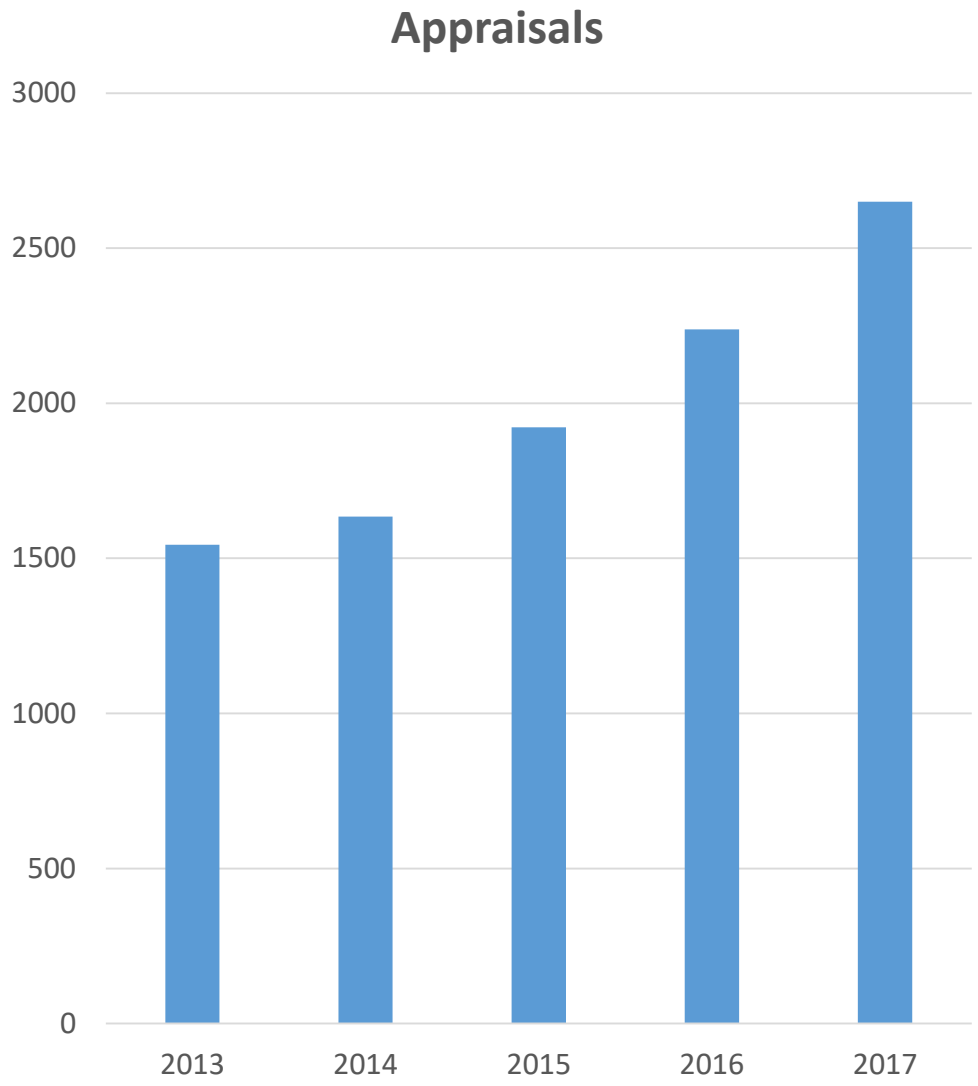
Based on 4,801 CMMI-SCAMPI A Deliveries
1 January 2016 – 31 December 2017



18% Growth in Adoption in 2017

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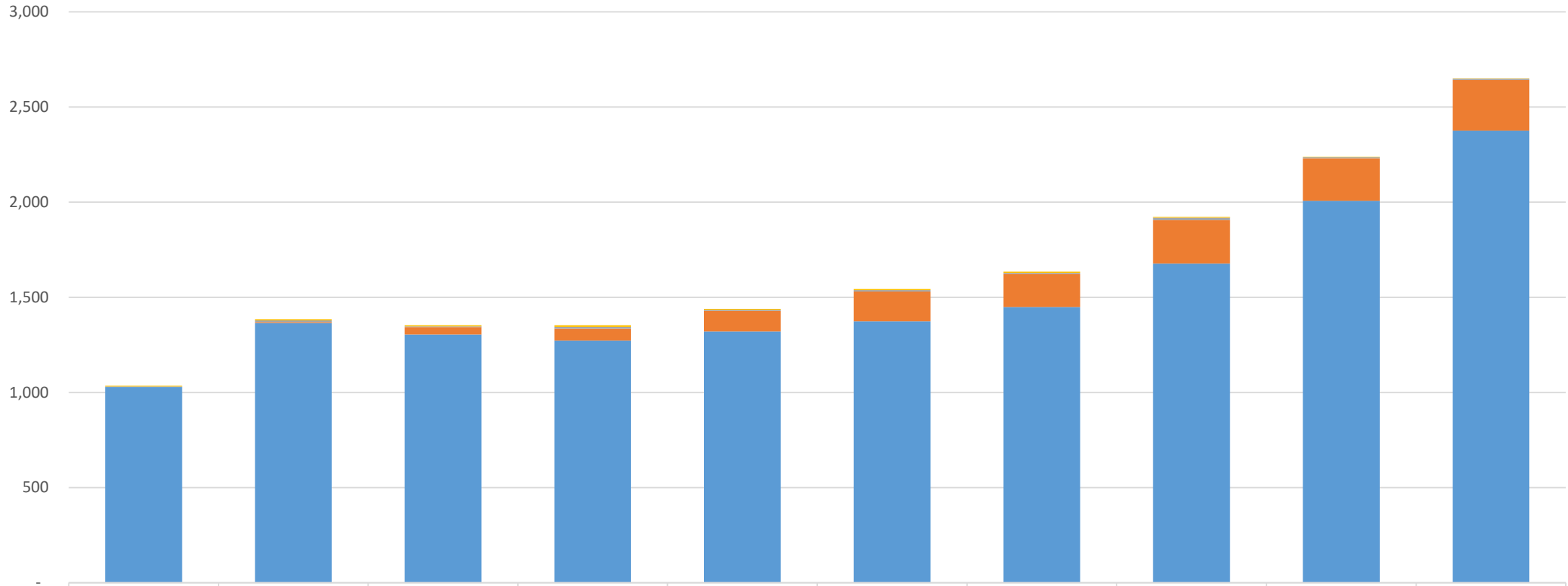
Appraisals by Constellation 2008–2017



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
ACQ	3	6	6	8	4	6	6	3	3	1
People CMM	3	9	4	10	6	8	7	14	5	7
SVC		5	38	62	108	156	173	228	223	266
DEV	1,029	1,365	1,305	1,273	1,321	1,374	1,449	1,677	2,007	2,376

Based on 2554 CMMI-SCAMPI A Deliveries
January 2008 – 31 December 2017

80%

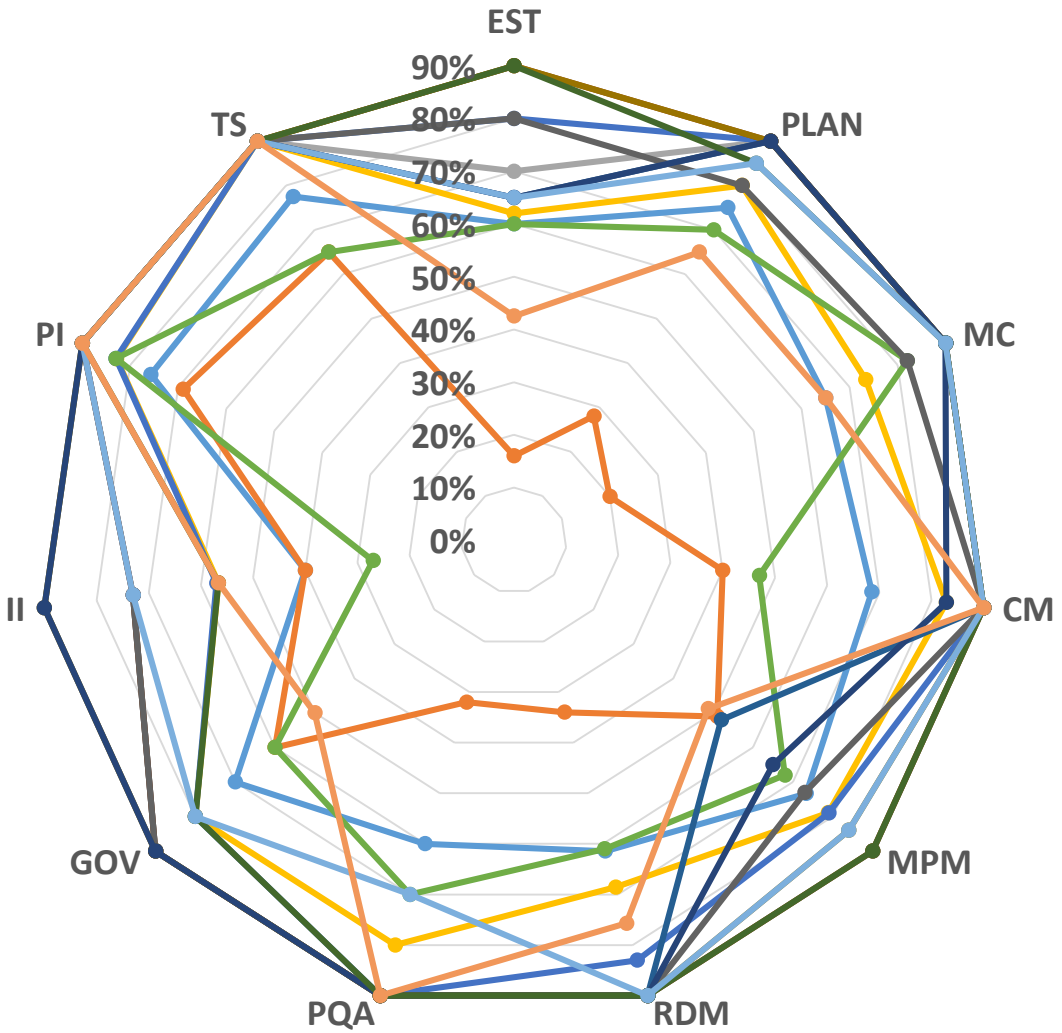
JALISCO ES MÉXICO

Supporting Innovation in Manufacturing through

- CMMI- SVC
- Design Thinking Training
- Technology Consulting


FDA
MDIC
MEDICAL DEVICE INNOVATION CONSORTIUM
ALIGN | ACHIEVE | ACCELERATE

What is FDA learning from the data?



Strengths

Strong emphasis on manufacturing and assembling product to address functionality and quality characteristics

Opportunities

Opportunity to improve how organizations ensure that the processes important to the organization are habitually and persistently improved

How are manufacturers perceiving the difference in the 2 processes?

Boston Scientific

	FDA inspection	CMMI appraisal
Mind-sets	• Only answer questions asked	• Be open in answering questions • Weaknesses are opportunities to improve business processes
Discussion	• Do not discuss improvement opportunities or future plans	• Talk about improvements made over time and where we are going
Interaction	• Inspectors interrogate quality leaders, process experts, and record owners • Inspectors look for evidence of noncompliance to regulations	• Appraisers conduct group interviews of “doers” responsible for work products • Appraisers engage in discussions to truly understand how the business operates relative to best practices
Time investment	• Large support team with backroom/ front room, streams, scribes, etc. • **2-day inspection, 1,370 hours**	• Minimal disruption to site resources and no need for backroom/front room • **5-day appraisal, 340 hours**

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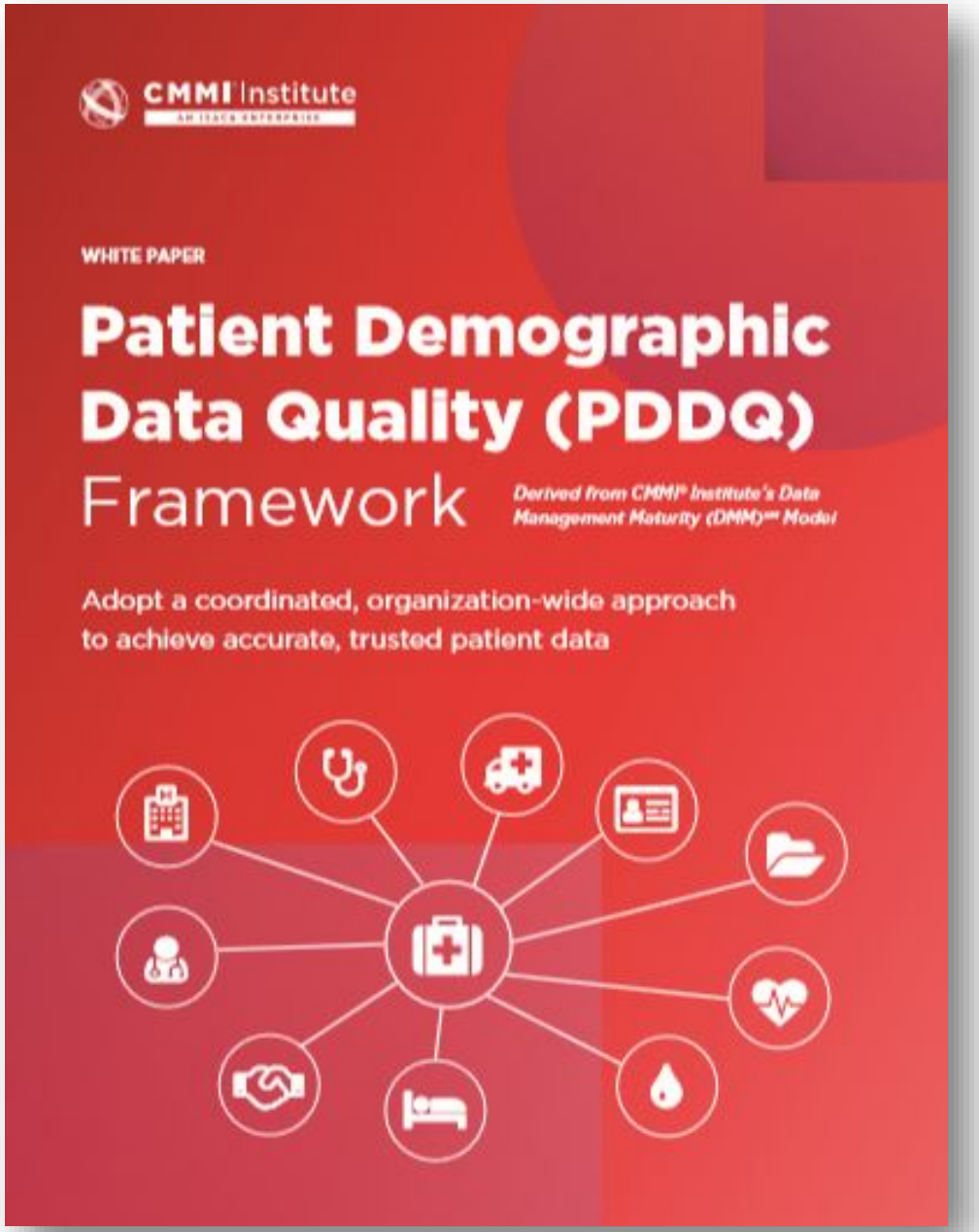
Data Management Maturity Model

US Department of Health and Human Services



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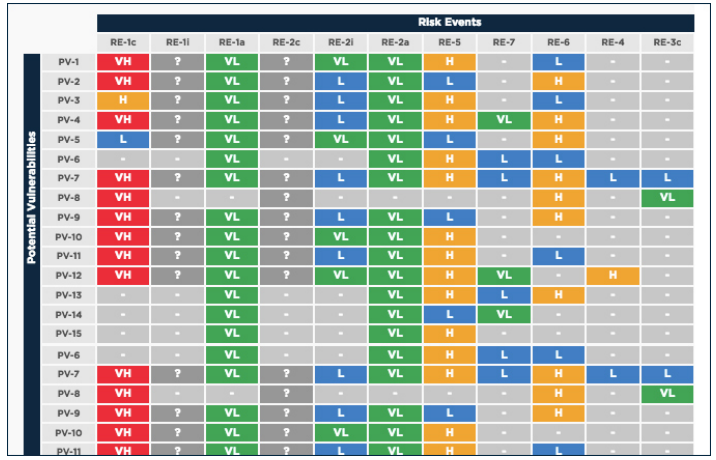
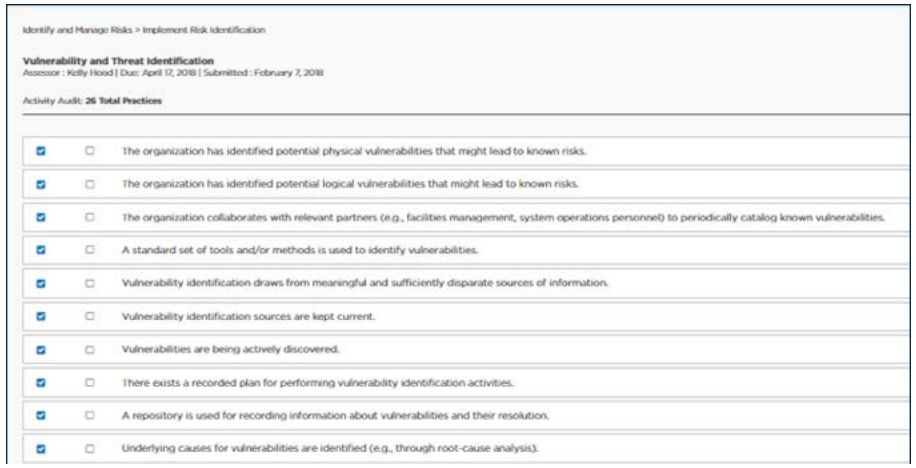
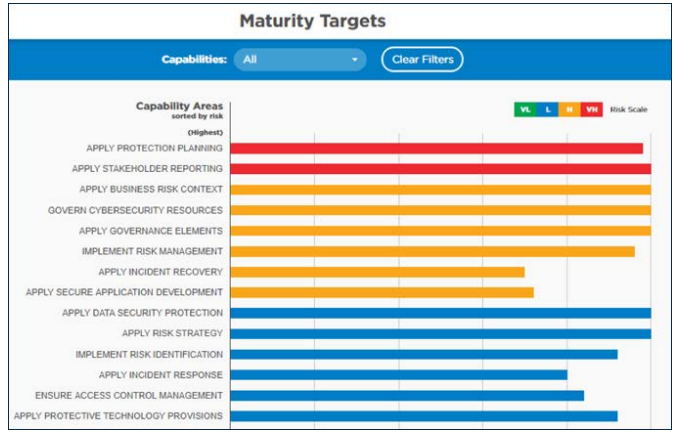
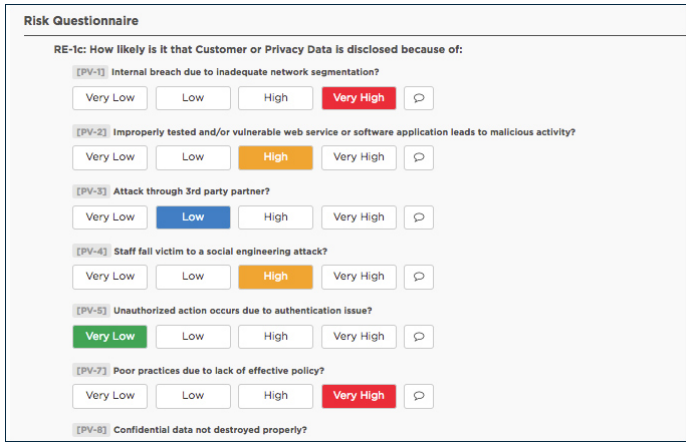
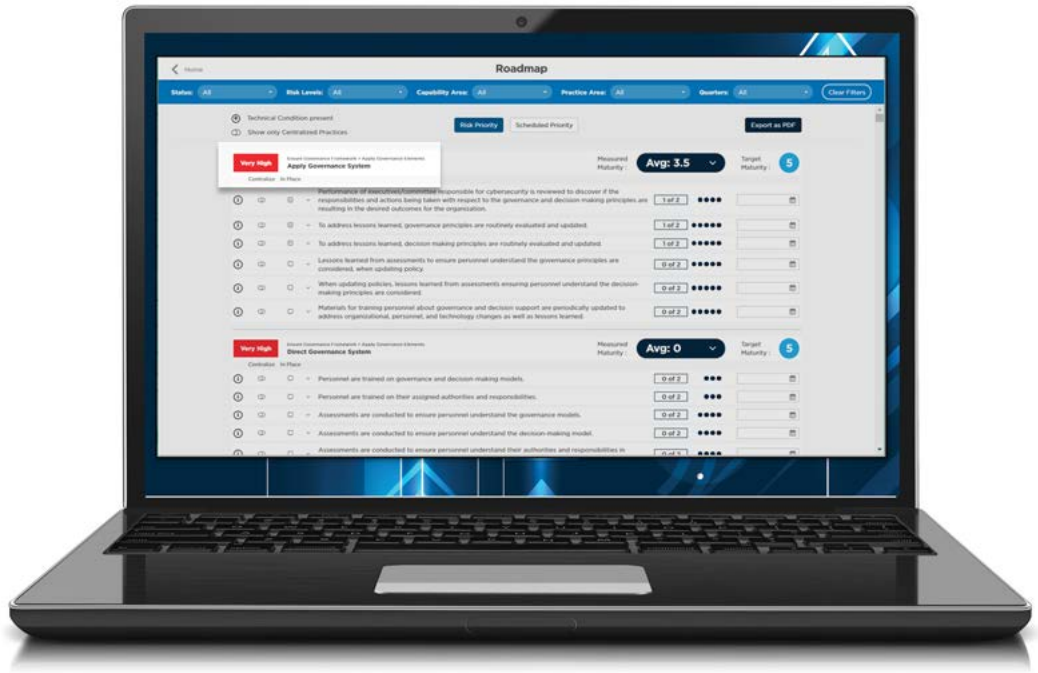
CMMI Cybermaturity Platform

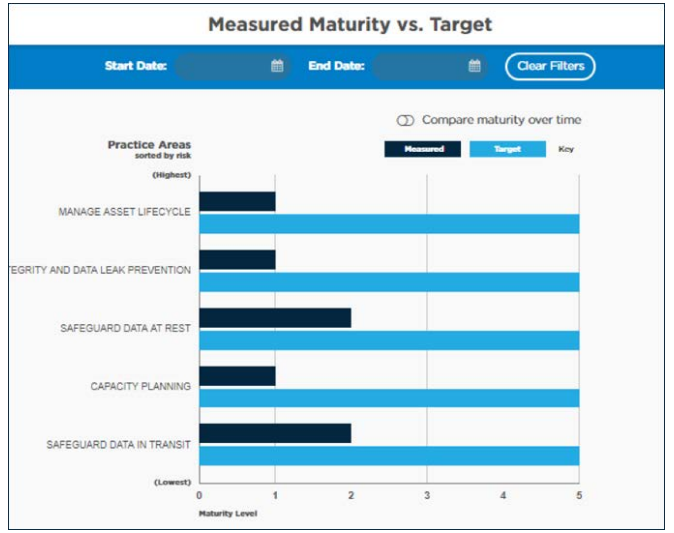












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