

# NARROW vs GENERATIVE AI

## WHEN RISK REQUIRES MONITORING

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# REGULATING AI

## FDA commissioner: Health systems have to 'step up' on AI regulation or will 'end up holding the bag'

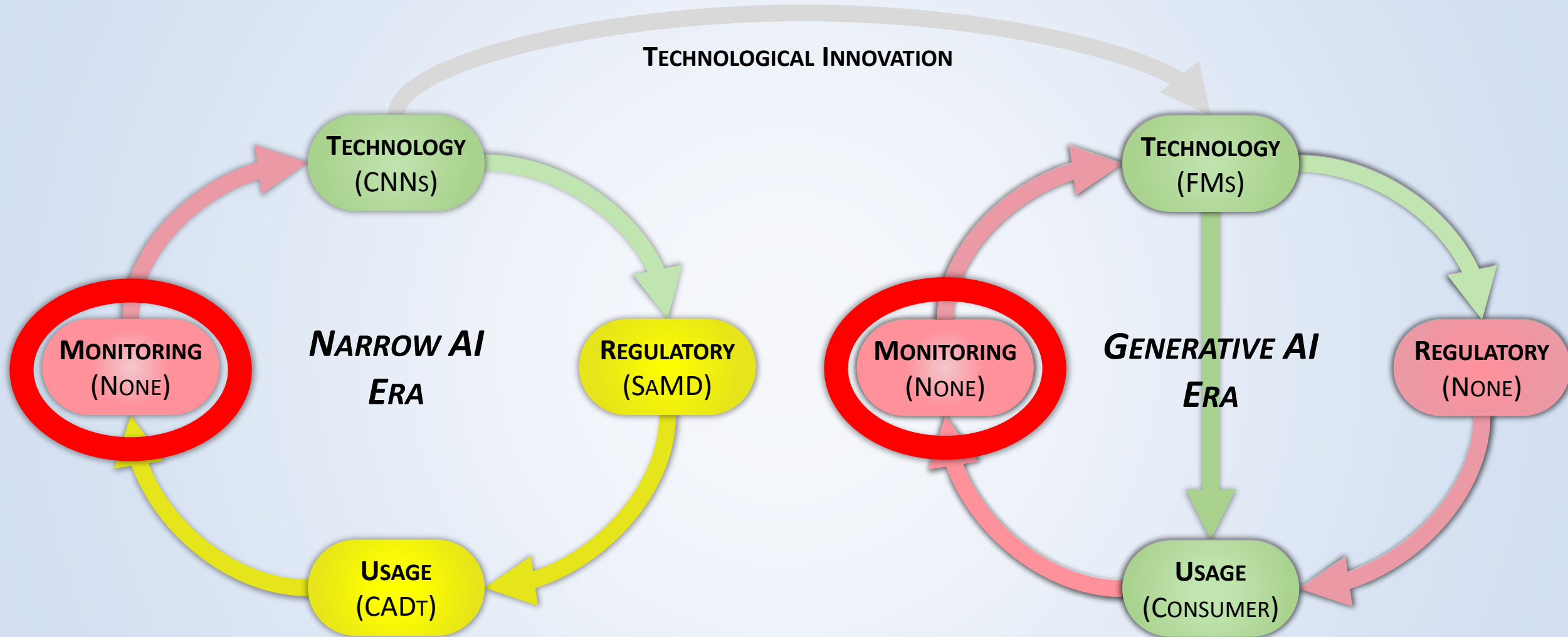
Developers can't fully guarantee an AI model's performance, Califf said

### Stat News

By Brittany Trang  
September 11, 2024

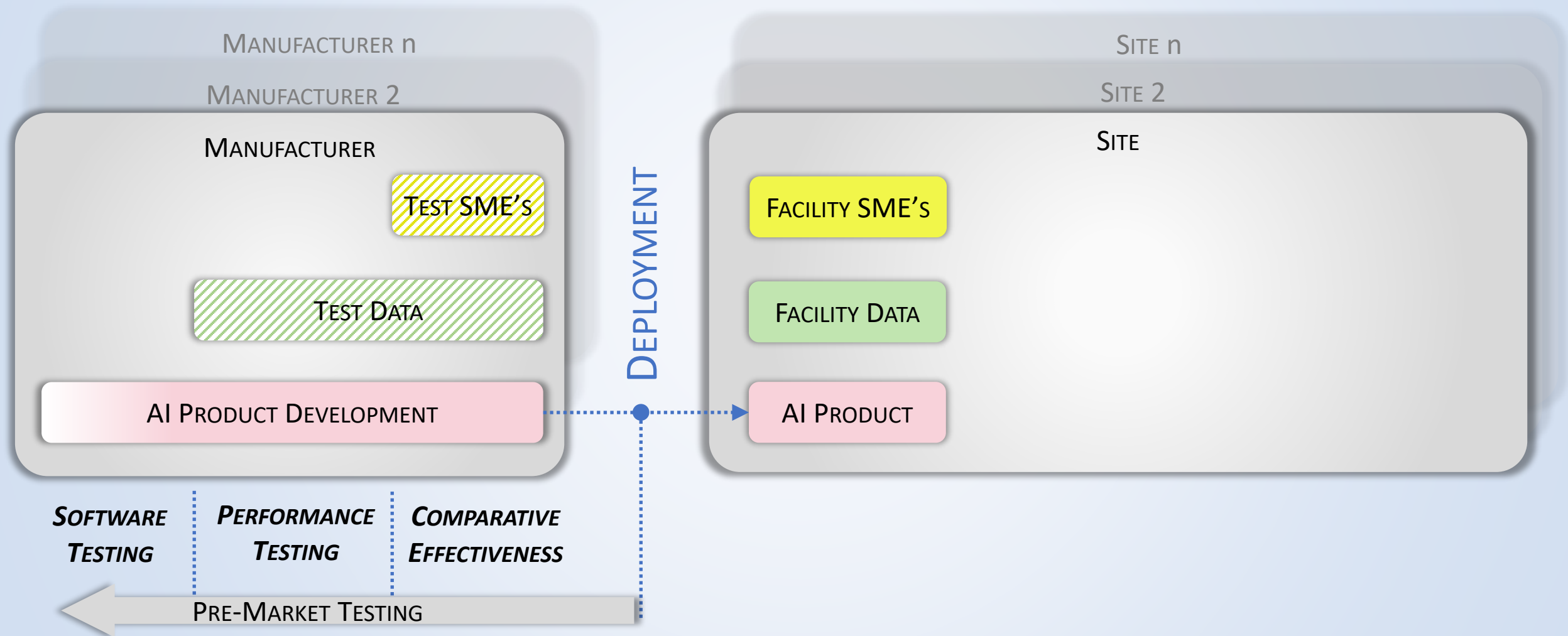
"I think there's a lot of good reason for health systems to be concerned that if they don't step up, they're going to end up holding the bag on liability when these algorithms go wrong," said Robert Califf on Tuesday to a group of journalists.

# HEALTHCARE AI LIFE CYCLES

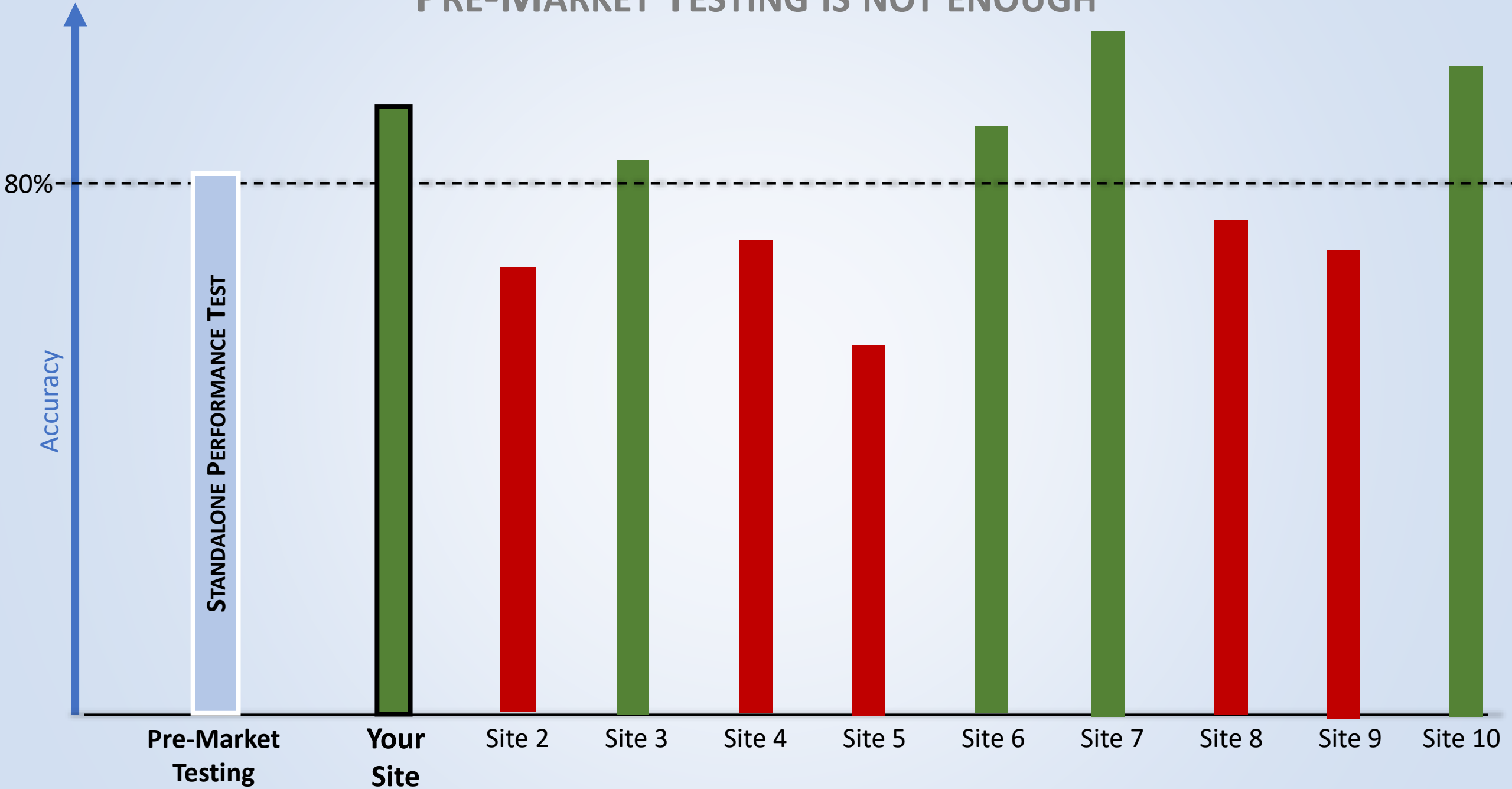


*How can these monitoring issues be addressed?*

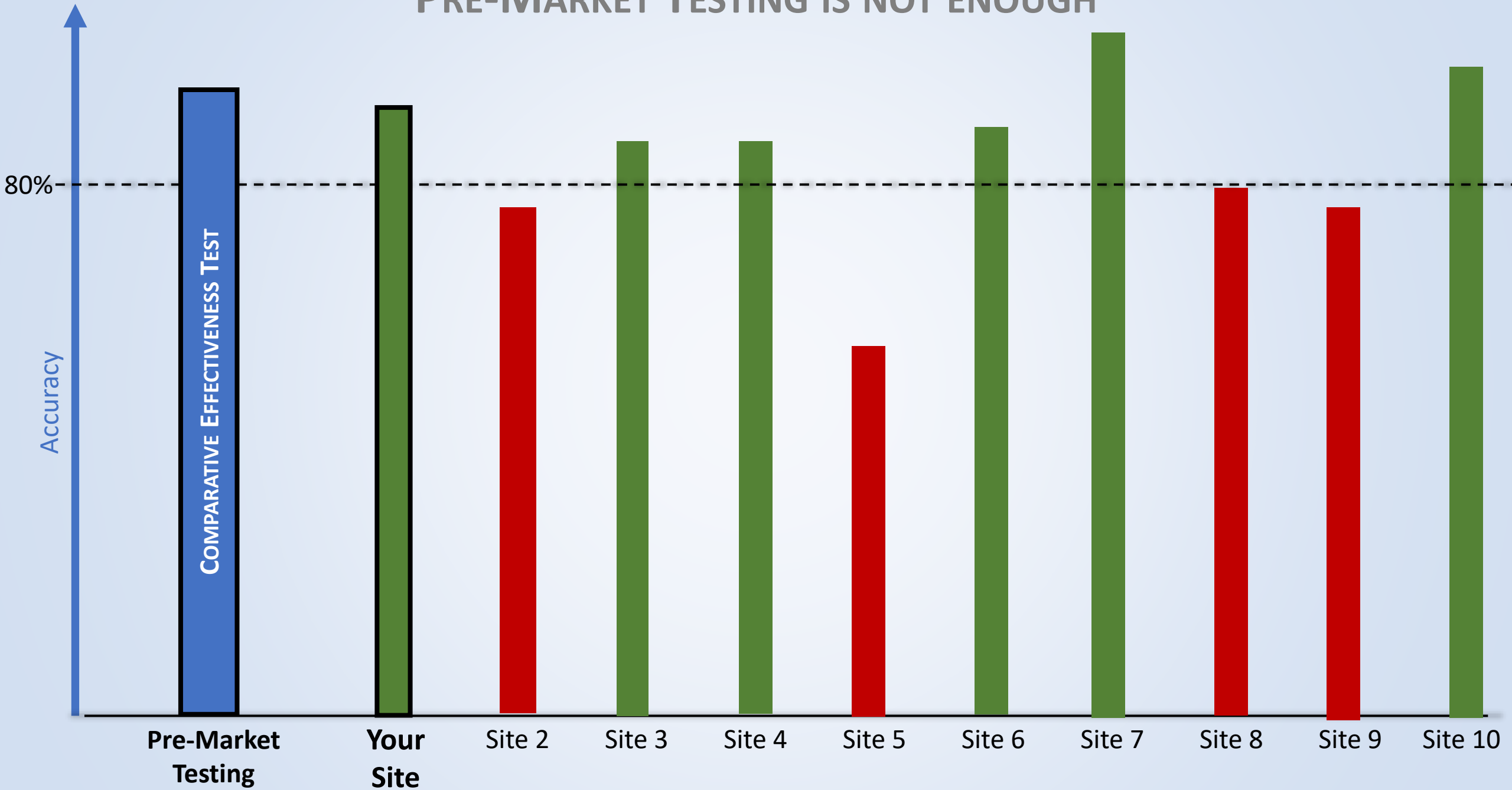
# METHODS TO MITIGATE RISK



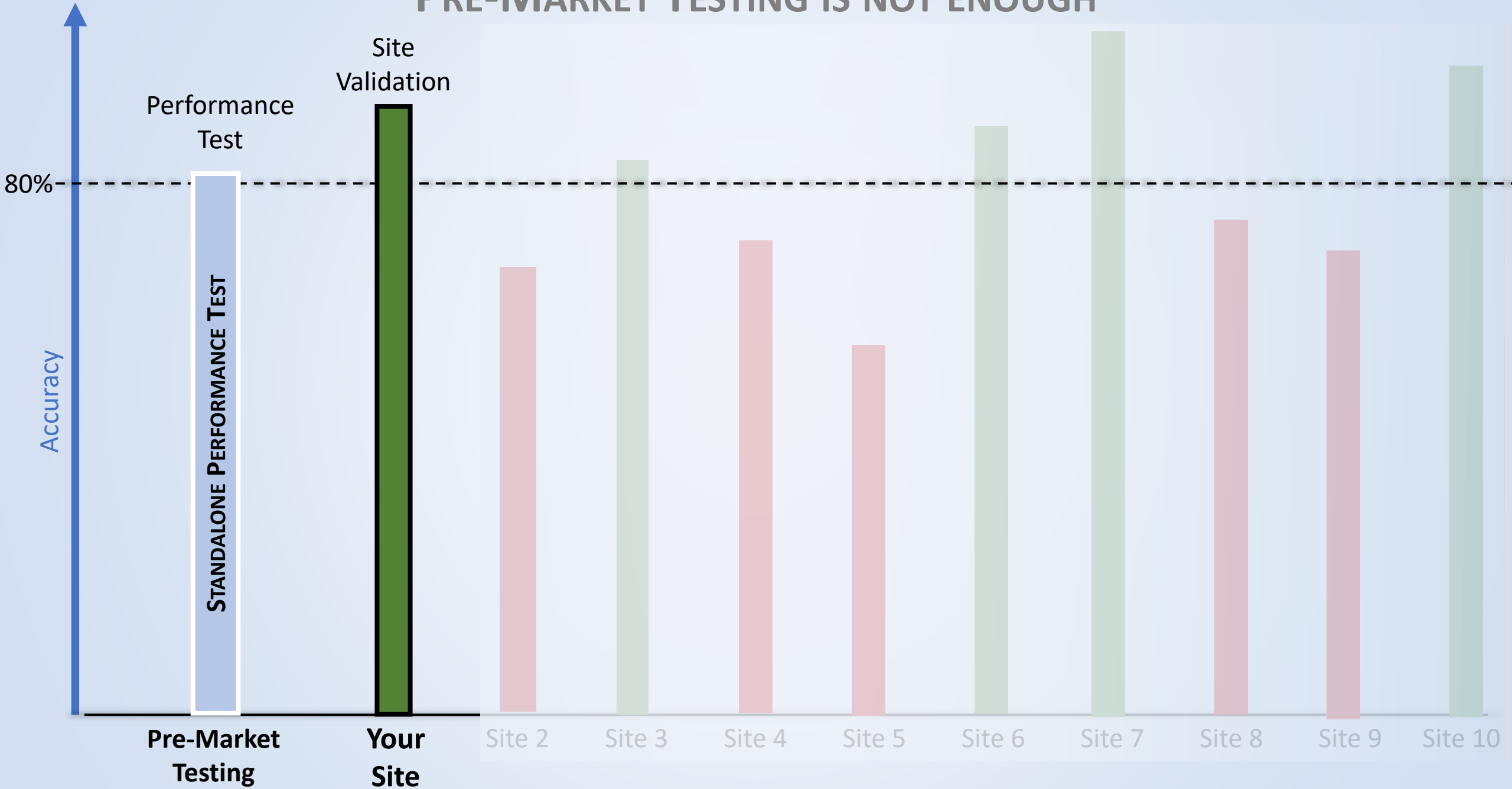
# PRE-MARKET TESTING IS NOT ENOUGH



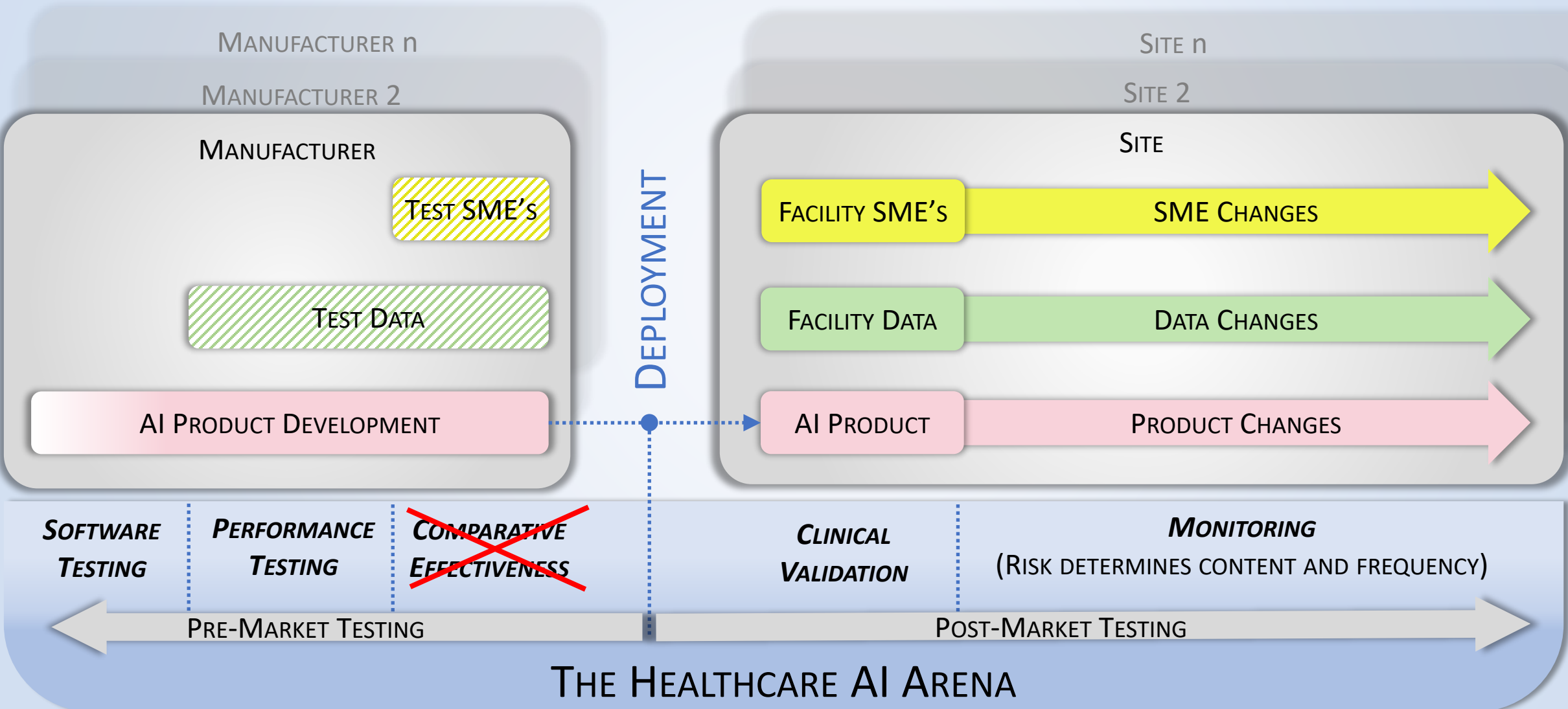
# PRE-MARKET TESTING IS NOT ENOUGH



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# METHODS TO MITIGATE RISK

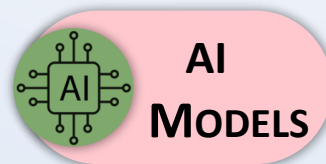




# THE HEALTHCARE AI ARENA

*A Collaborative Community for Healthcare AI Validation and Monitoring*

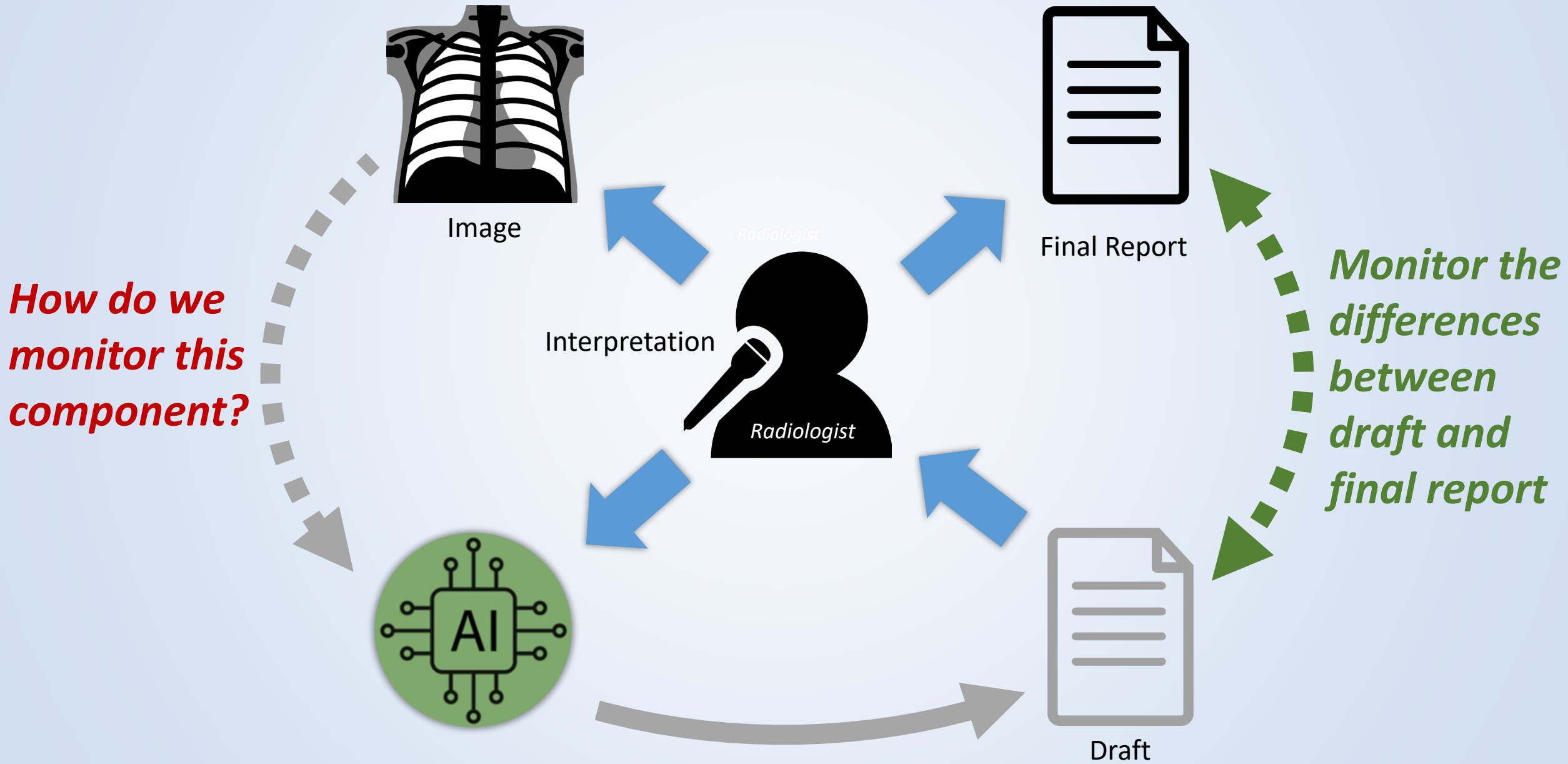
American College of Radiology  
Emory Healthcare  
Mass General Brigham  
The University of Washington  
The University of Wisconsin



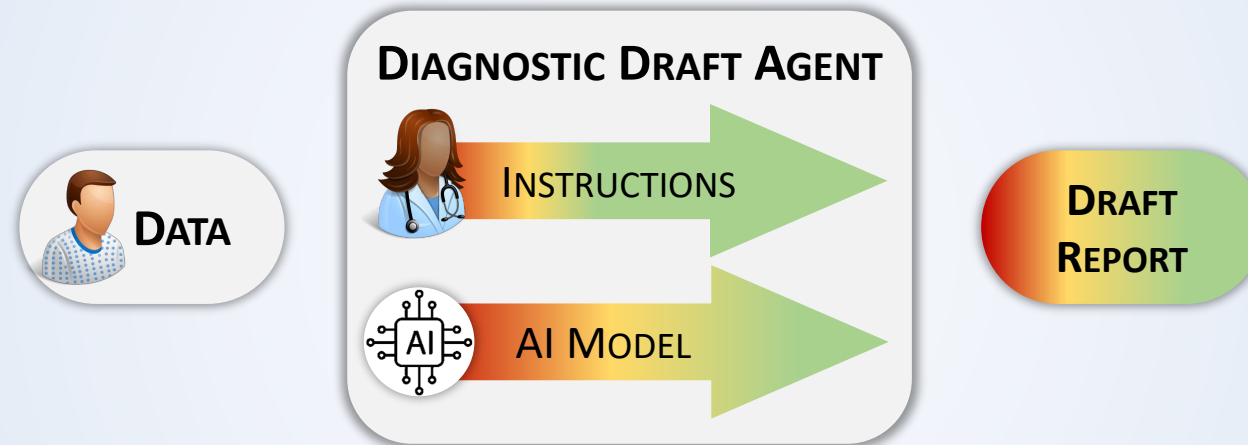
# **DIAGNOSTIC DRAFT REPORTING**

**A GEN AI CASE STUDY**

# DIAGNOSTIC DRAFT REPORTING



# AI MONITORING



*Monitor the differences between draft and final report*

# AI MONITORING

**AI PRODUCT REPORT**

- AI SITE DISCORDANCE
- AI SITE PERFORMANCE
- AI SITE GENERALIZABILITY
- AI SITE BIAS

**AI SITE REPORT**

- AI SITE DISCORDANCE
- AI SITE PERFORMANCE
- AI SITE GENERALIZABILITY
- AI SITE BIAS

**AI REGISTRY REPORT**

- AI DISCORDANCE
- AI PERFORMANCE
- AI GENERALIZABILITY
- AI BIAS

**COMPARISON AGENT**

INSTRUCTIONS

AI MODEL

*Monitor the differences between draft and final report*

**DIAGNOSTIC DRAFT AGENT**

DATA

INSTRUCTIONS

AI MODEL

**DRAFT REPORT**

**EXPERT**

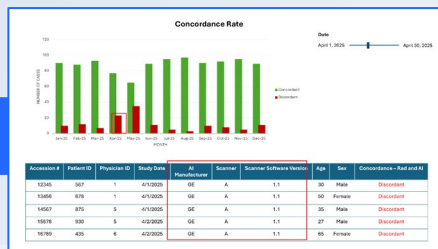
**FINAL REPORT**

**HEALTHCARE AI ARENA**

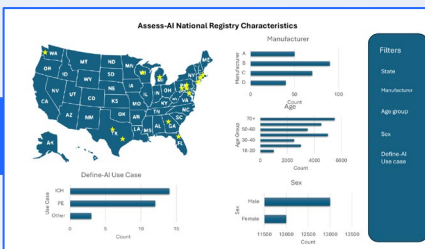
# AI MONITORING

*Monitor the differences between draft and final report*

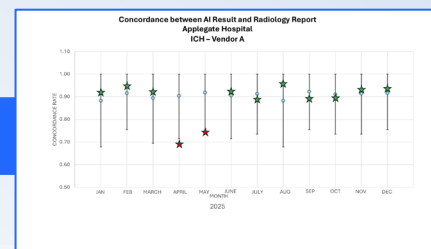
Sites/Facilities



Local Performance

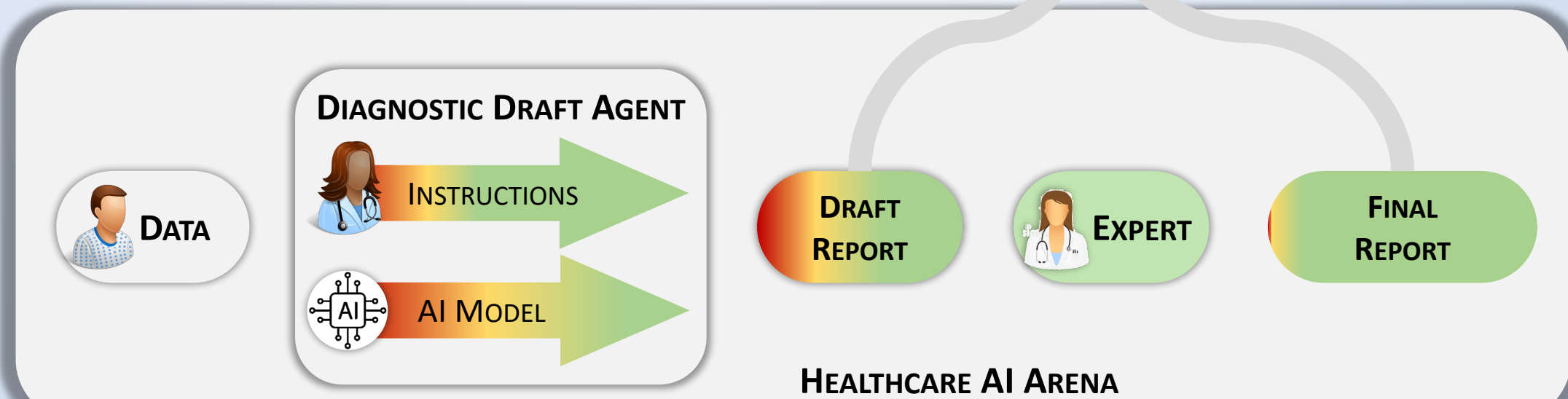
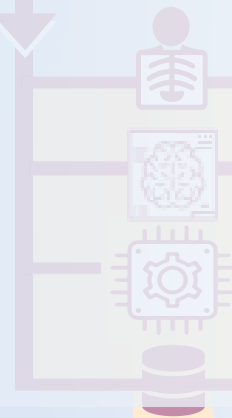


Benchmark Reports



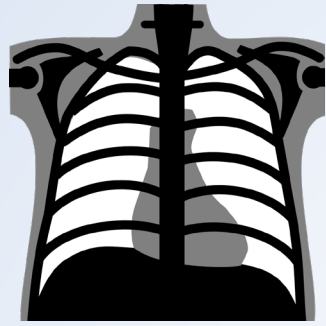
National Registry

PACS  
AI Manufacturers  
AI Platforms  
EHR

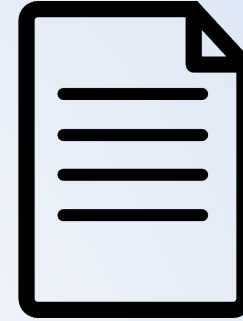


HEALTHCARE AI ARENA

# DIAGNOSTIC DRAFT REPORTING



Image



Final Report



Radiologist

Radiologist

Interpretation



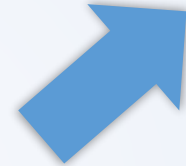
AI



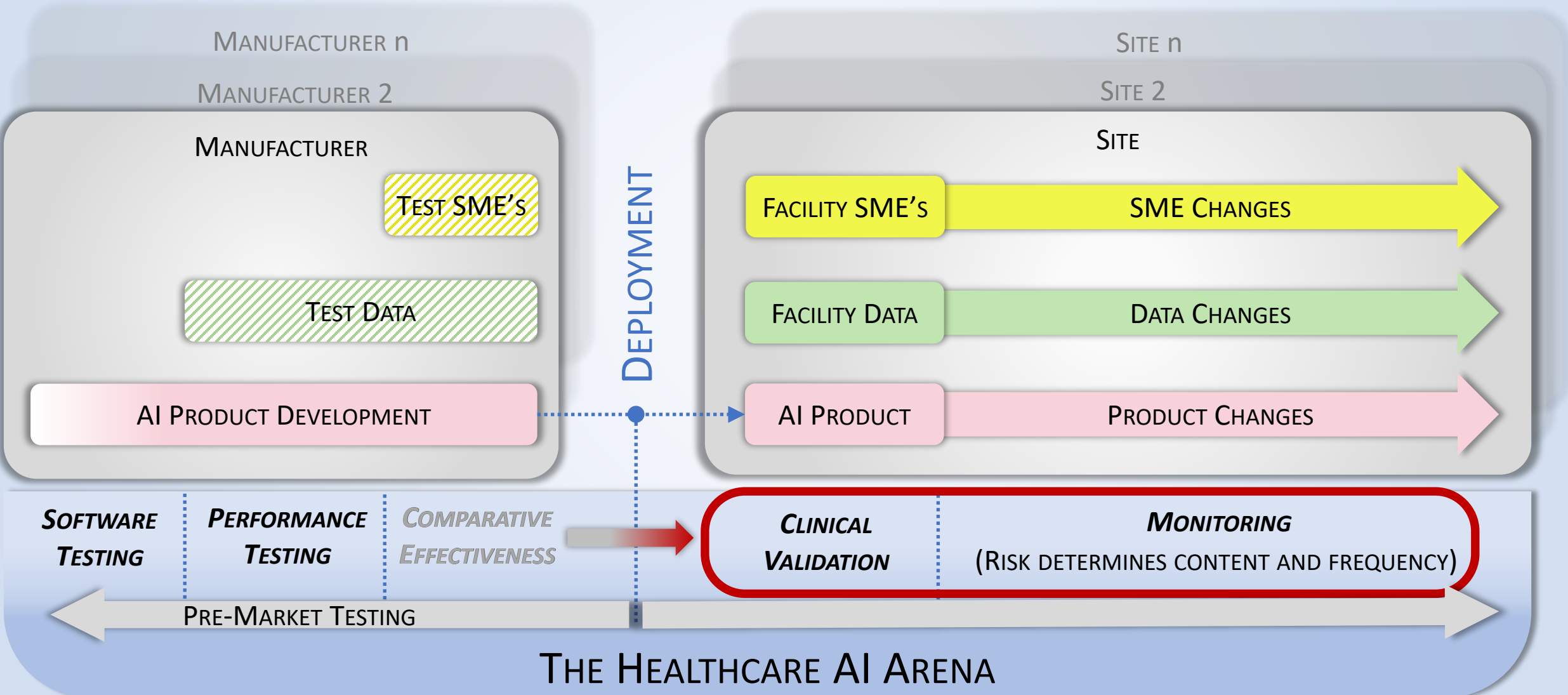
Draft

*Monitoring maintains and improves accuracy*

*Monitor the differences between draft and final report*



# METHODS TO MITIGATE RISK





# NARROW vs GENERATIVE AI

## WHEN RISK REQUIRES MONITORING

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