

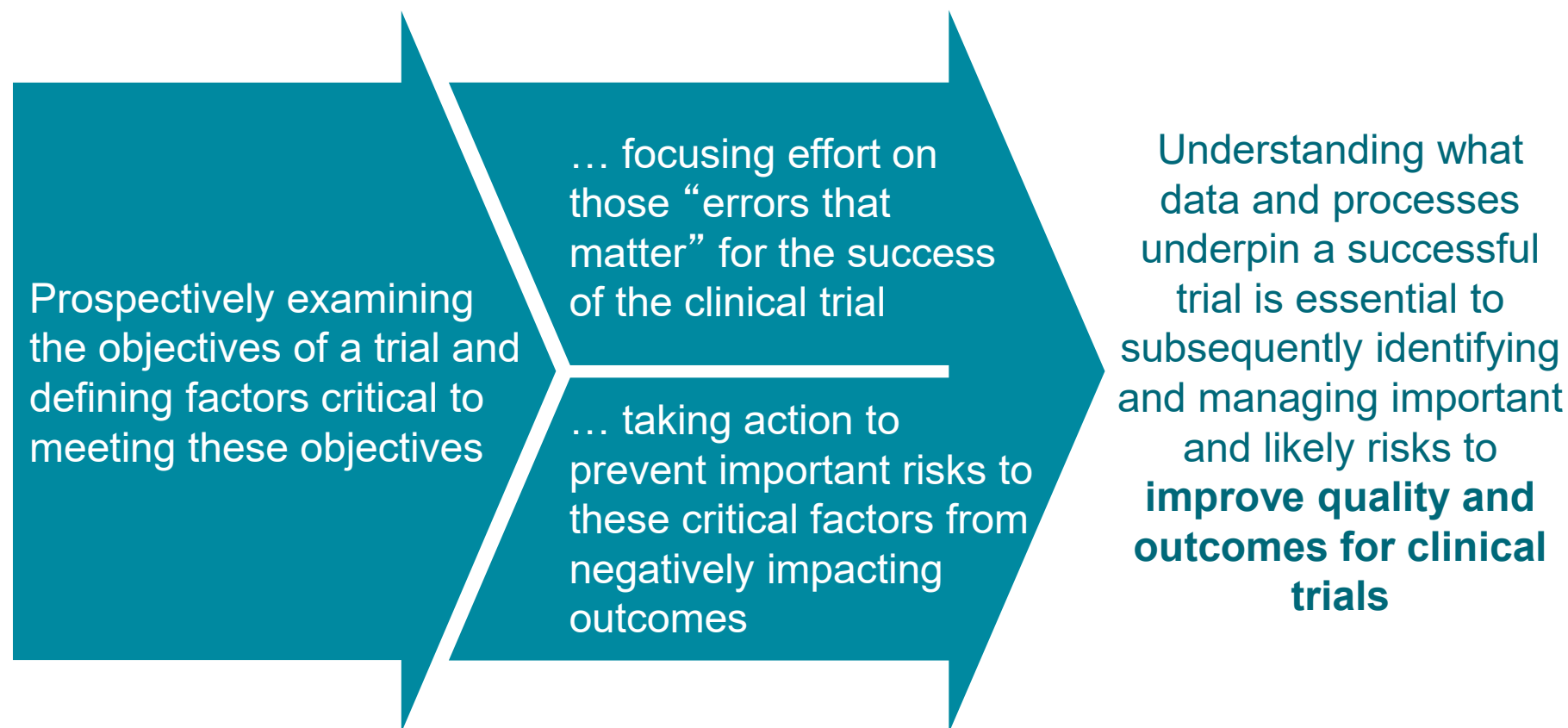
What Is Quality by Design?



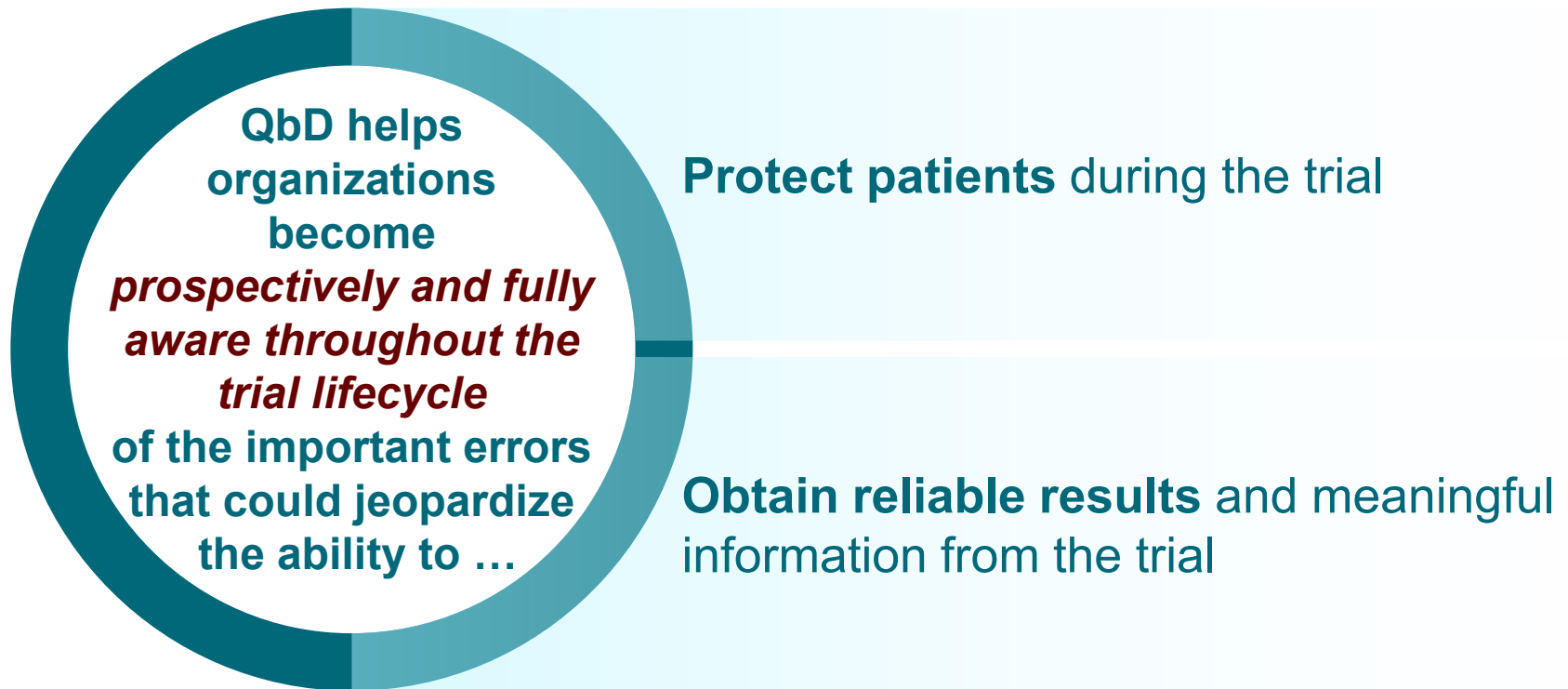
CLINICAL
TRIALS
TRANSFORMATION
INITIATIVE

Quality by Design: QbD Defined

“Quality” in clinical trials is defined as
the absence of errors that matter

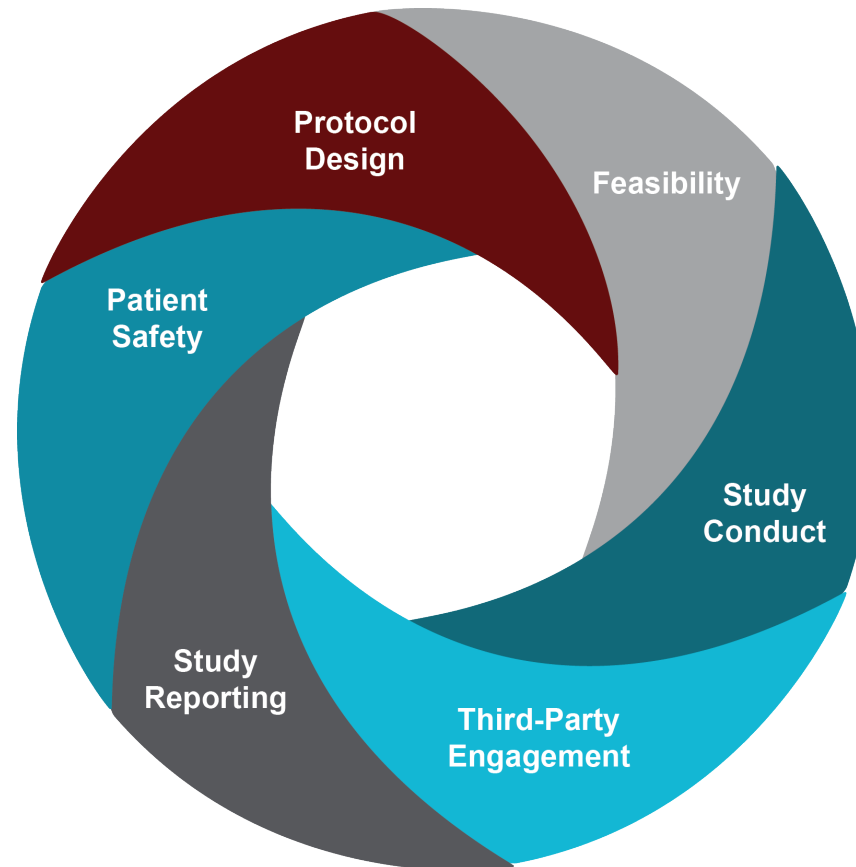


How QbD Improves Clinical Trials



QbD Step 1

Identify “critical to quality” factors (CTQs) for your specific trial



QbD Step 2

Discuss potential risks related to each CTQ identified that impact study quality (i.e., participant safety or credibility of results)

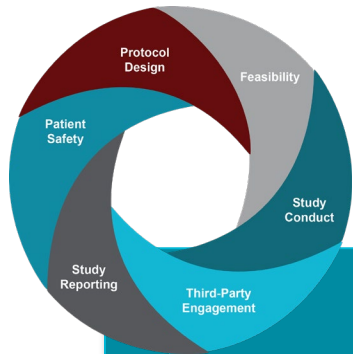


QbD Step 3

Mitigate those risks that will likely lead to errors that matter and determine how to rapidly identify and react when there is an issue



QbD Implementation Tool: CTTI Principles Document



The Principles document is a resource that facilitates critical thinking and quality planning. It helps organizations gain a clear understanding of events that can ...

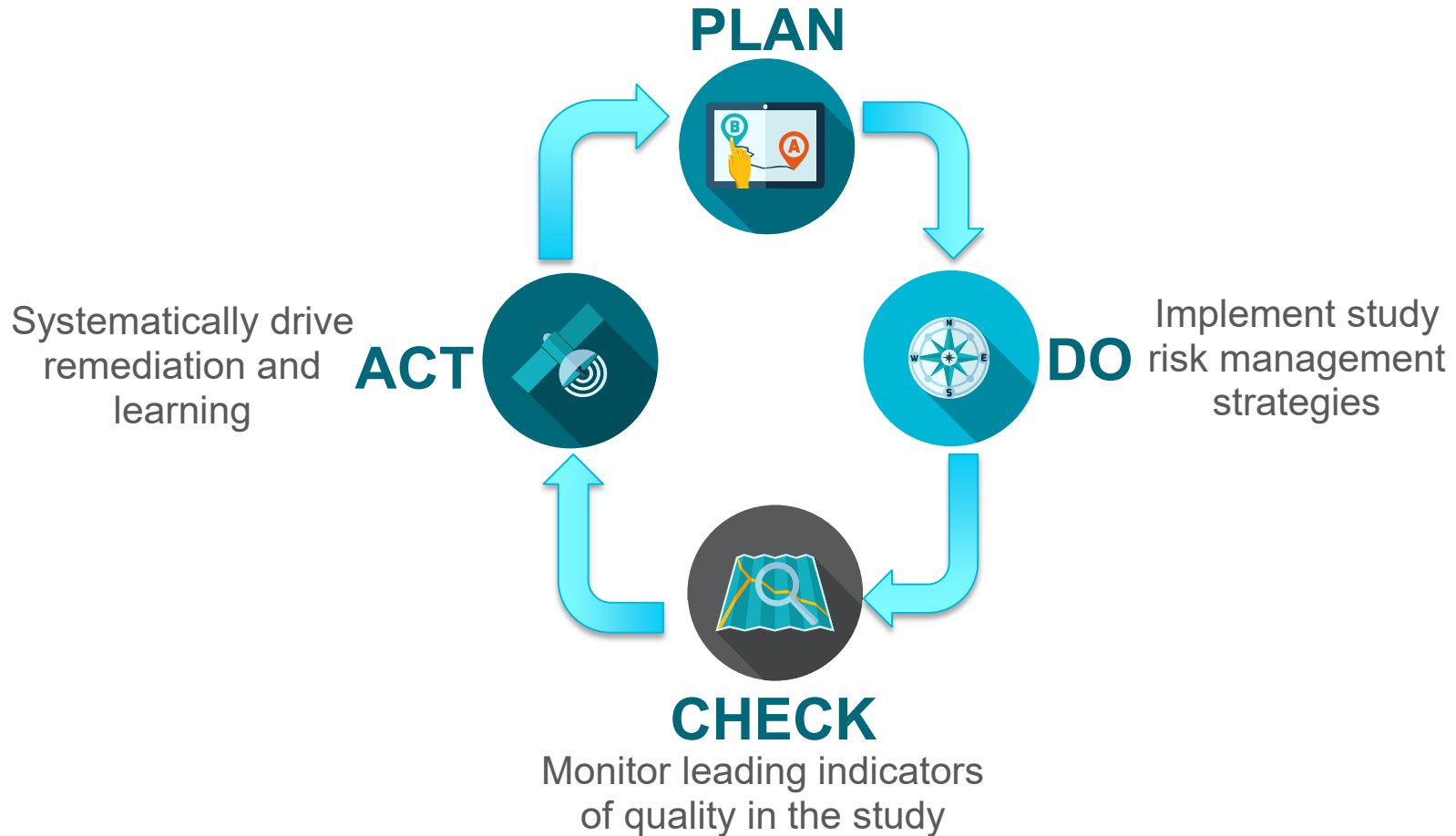
... impede the conduct of the study

... place subjects at unnecessary risk

... hinder efforts to use resulting data to answer the scientific questions being addressed

QbD Implementation: Plan, Do, Check, Act

Build/plan quality into clinical trials from the beginning, focusing on what matters most



Bringing QbD Into Your Organization

Focus on what matters	<ul style="list-style-type: none">▪ “Quality” is defined as the absence of errors that matter▪ Determine what matters for the specific trial
Develop a quality management plan	<ul style="list-style-type: none">▪ Initiate plan in parallel with protocol development▪ Focus on areas of highest risk for generating errors that matter
Assess performance in important parameters	<ul style="list-style-type: none">▪ Prospectively measure error rates of important parameters▪ Tailor the monitoring approach (e.g., site visits, central, statistical) to the trial design and key quality objectives
Improve training and procedures	<ul style="list-style-type: none">▪ Base on measured parameters
Report findings of quality management approach	<ul style="list-style-type: none">▪ Include issues found, actions taken, impact on analysis, and interpretation of results▪ Incorporate into regulatory submissions and publications

Use the QbD Toolkit

<http://www.ctti-clinicaltrials.org/toolkit/QbD>



LOGIN

SEARCH

Here to identify and promote practices that will increase the quality and efficiency of clinical trials.

HOME WHO WE ARE WHAT WE DO BRIEFING ROOM TAKE ACTION CONTACT US



QbD TOOLKIT

- > Learn About QbD
- > Teach Others About QbD
- > Adopt QbD

RESOURCES

- > Principles Document (pdf)
- > CTTI QbD Recommendations (pdf)
- > QbD Video Collection
- > Past CTTI QbD Workshops
- > QbD Project Page



Contact us for questions or comments on the QbD Toolkit

Learn About QbD

Teach QbD

Adopt QbD

QbD (Quality By Design) Toolkit

This Quality by Design Toolkit is a compilation of documents, templates, guidelines, and videos that will help you put QbD into practice within your organization. Whether you are first learning about QbD, (Learn About QbD), want to disseminate these concepts within your organization (Teach Others About QbD), or are ready to implement QbD into your clinical trial (Adopt QbD), this Toolkit has resources for you. Refer back to the Toolkit often and find new resources to support you in translating QbD from principles to practice.



What is this QbD Toolkit?

Mark Behm from Astra Zeneca describes the QbD Toolkit and how you and your organization can use it to learn about and implement QbD.



Why is QbD important for patients?

Nancy Roach from Fight Colorectal Cancer shares the patient perspective on the importance of QbD.