

Research Journey

29 Dec 2022



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Makkah Healthcare Cluster

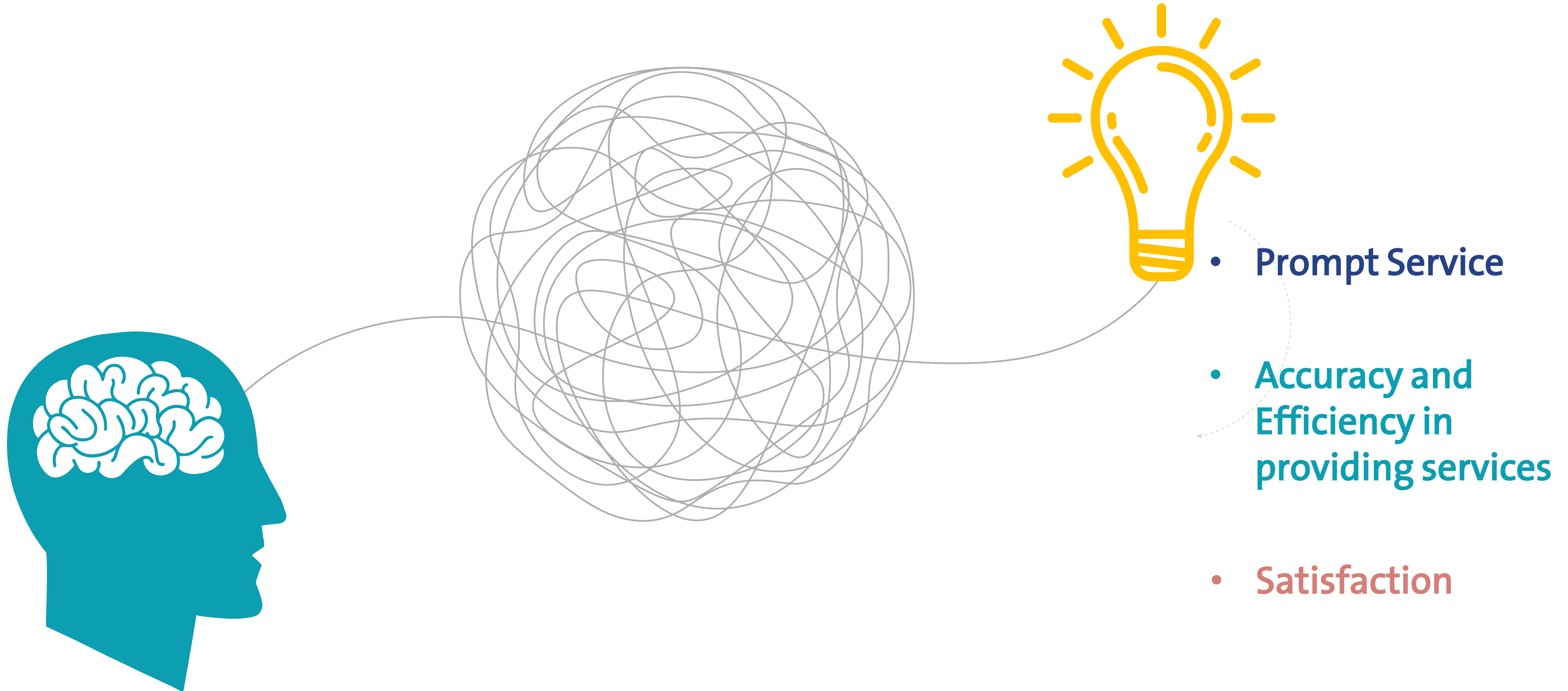
Makkah Healthcare Cluster Research



Establishing research services at all Makkah Healthcare Cluster Facilities to serve the research priorities of 2030 Vision.



Makkah Healthcare Cluster Researcher Experience

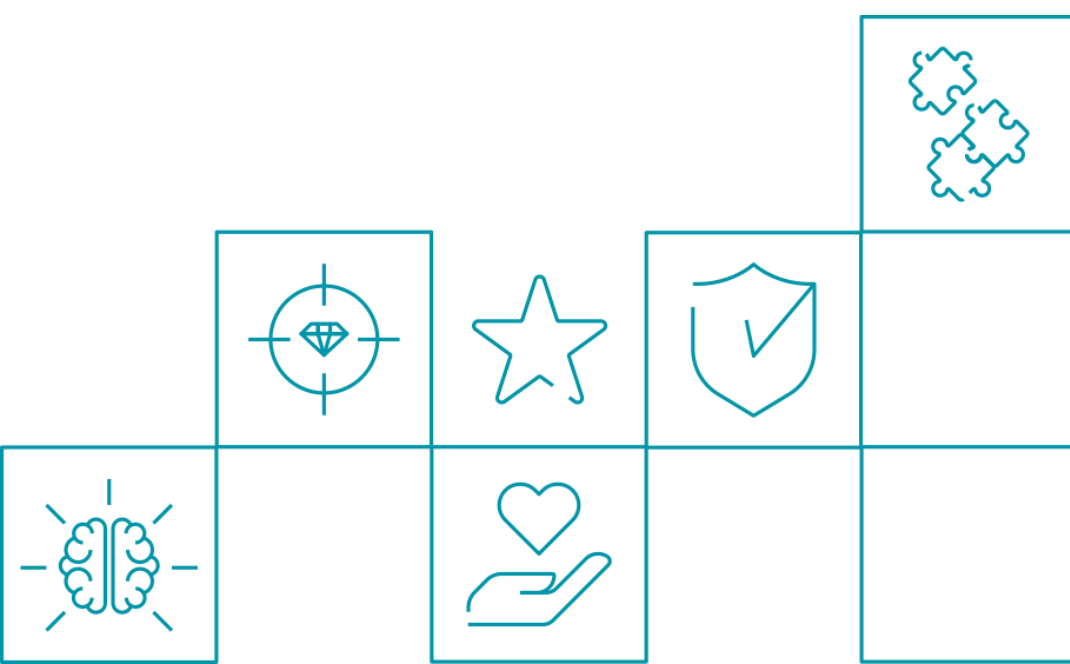


Research Journey



Researcher Mindset

Thinking like a Researcher through
Critical Thinking, Creative Thinking,
and having a Researcher Mindset.



Thinking Like a Researcher



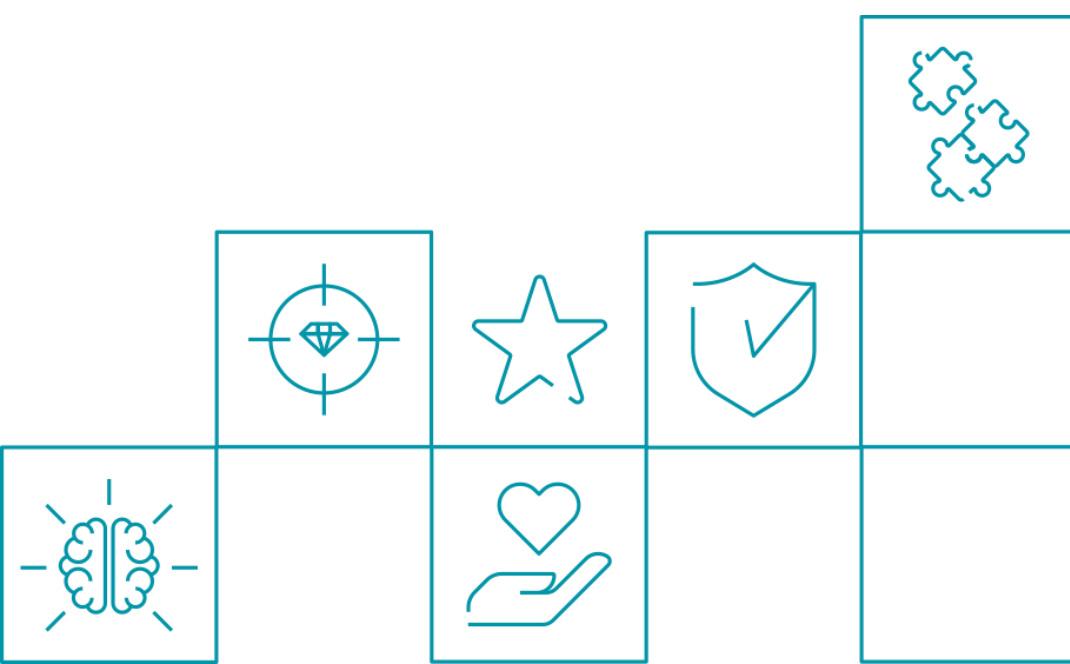
Researcher Attitudes

- Passionate
- Curious
- Humble
- Persistent



Thinking Tools and Elements

- Passionate
- Images
- Concepts
- Brain functions
- Symbols and signs
- Language
- Muscular activities





Fact!

A researcher's mindset questions everything.

Critical Thinking



Why does a Researcher need Critical Thinking?

It enables them to produce papers that are free from personal or societal bias.



Fact!

Critical thinking is a vital skill in both academia and the world of work. It is developed naturally during undergraduate and postgraduate study and has applications in almost every industry and role.

Creative Thinking



Stages of Creative Thinking

Preparation: focus attention on problem, organizing data
defining problem and producing relevant ideas

Incubation: test the idea, flashes of insight and trial judgment occurs. No obvious activity and progress. The problem is being solved and unconsciously

Illumination: suddenly perceive the theme and relationship among the various component of the problem

Revision: hear the individual reflects evaluates add submit
critical appraisal

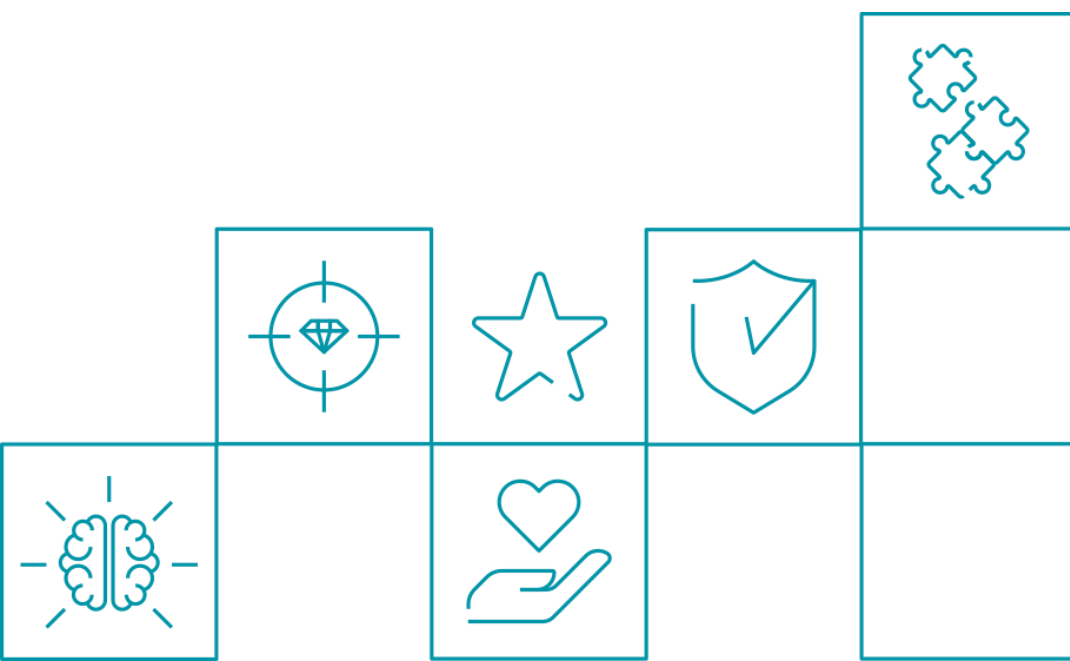


Fact!

Every one of us is capable of creative thinking and hence it is a universal phenomenon. The creative thinker is one who expresses new ideas and makes new observations, new predictions and new inferences.

Research Consultation

A research consultation is a meeting with a senior researcher or consultant that focuses on narrowing your research topic, finding sources, creating citations, or other research-related topics.



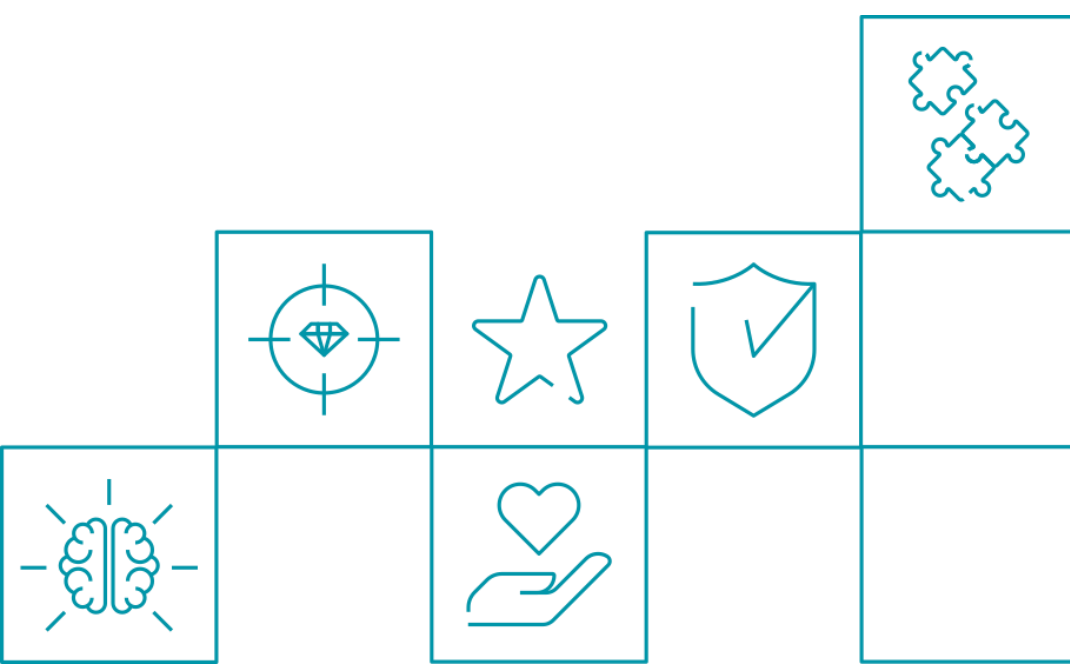


Fact!

Research Consultation is a service based on need.

Research Submission

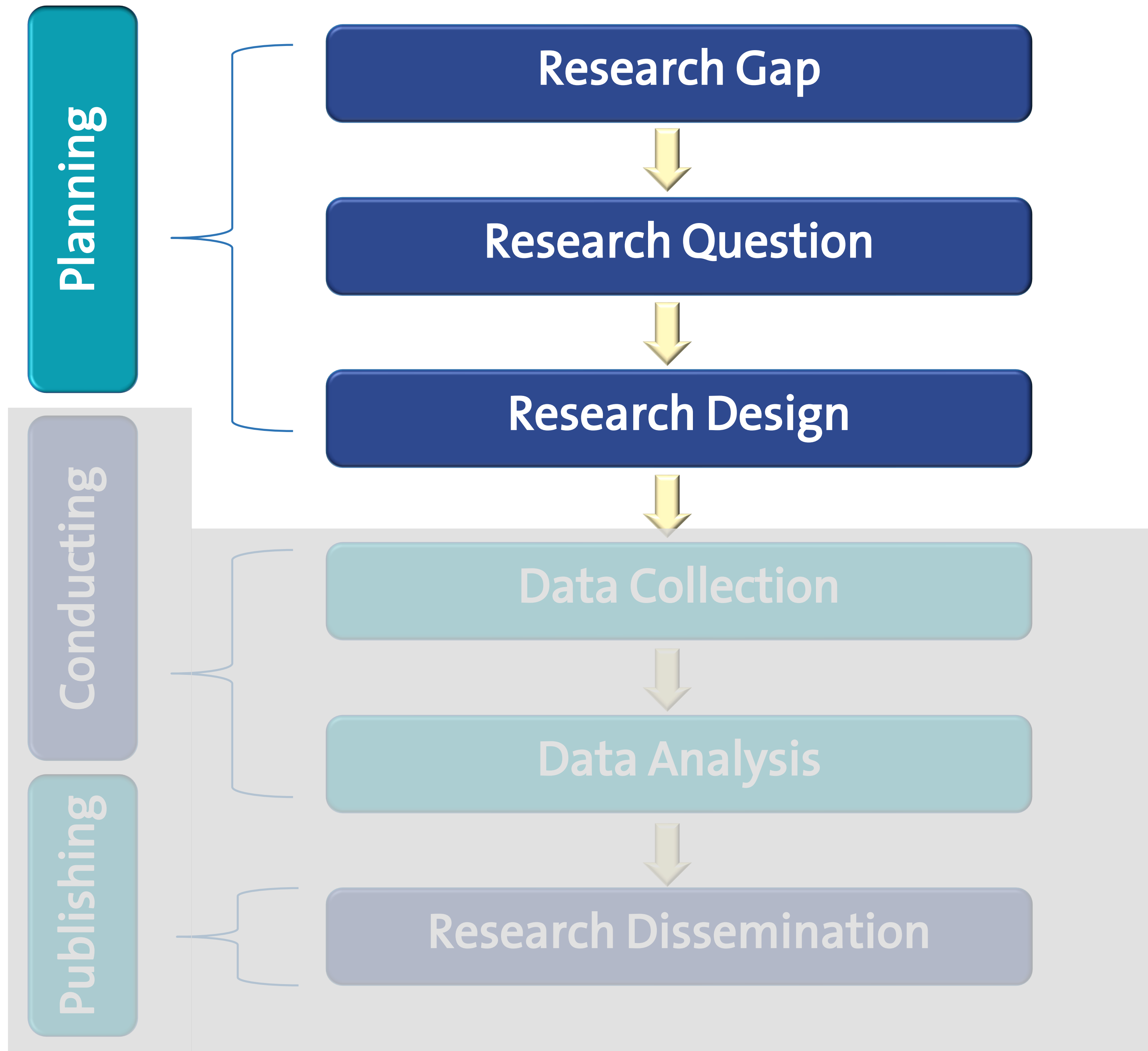
Research proposal submission depends on deciding a research gap, a question and a design, and planning budget, research team, time management.



Research Proposal





Research Team



Who is your team?

Main Researcher/Investigator

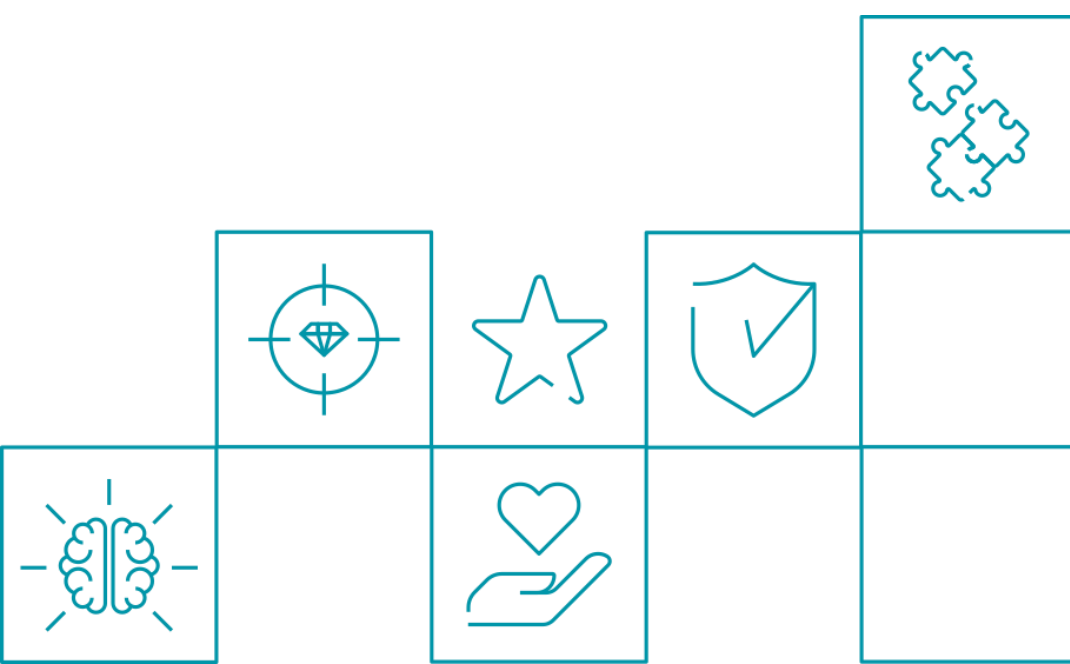
- A person is responsible for the conduct of the research, who is the responsible leader of the team even if s/he delegates.

Sub-investigator

- Any individual member of the research team is designated and supervised by the main researcher to perform research related procedures

Research Coordinator

- Is responsible for assisting the development of research data under the supervision of a lead researcher or a research supervisor

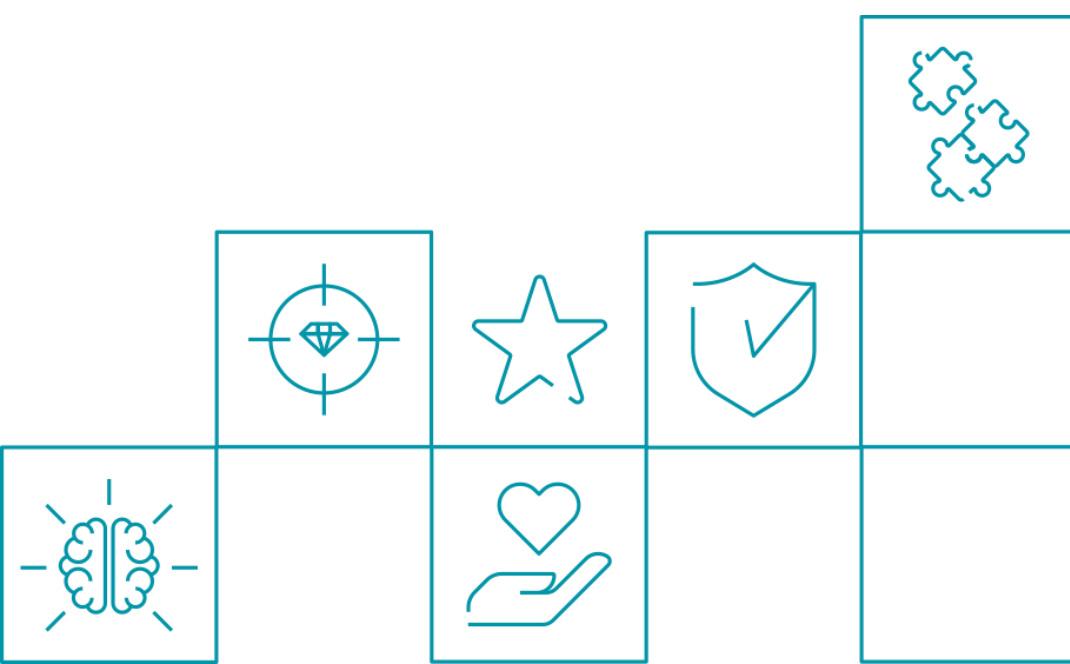


Proper Research Team Selection

- Qualified individuals throughout all stages of the research (Education, Experience, Relatedness, and Training)
- Define, allocate, delegate, and document all duties and tasks
- Skills (Delegation, Motivation, Developing, and Communicating)

Tips of Managing Your Research Team

- Taking your first steps toward a positive working relationship
- Prepare the meeting space
- Keep it short
- Model best behavior
- Making good small talk



Planning

Budget



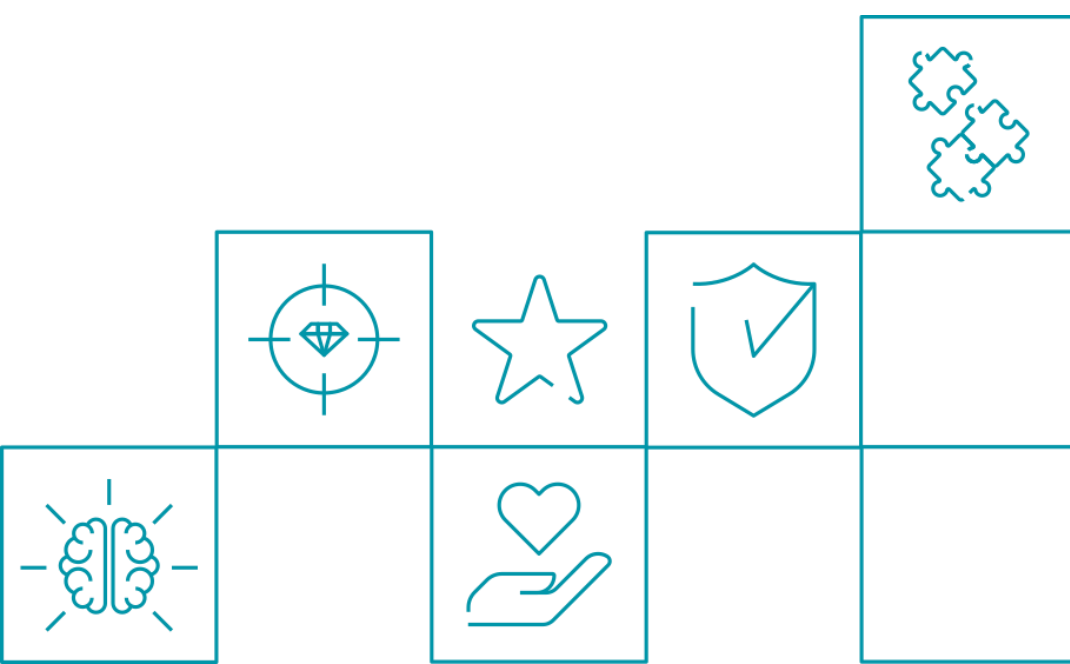
Funder or Sponsor?

Sponsor

- An individual or organization that takes responsibility for the initiation, management, and/or financing of a research

Funder

- It is preferable to call the organization that providing financial support for a study



Budget Planning

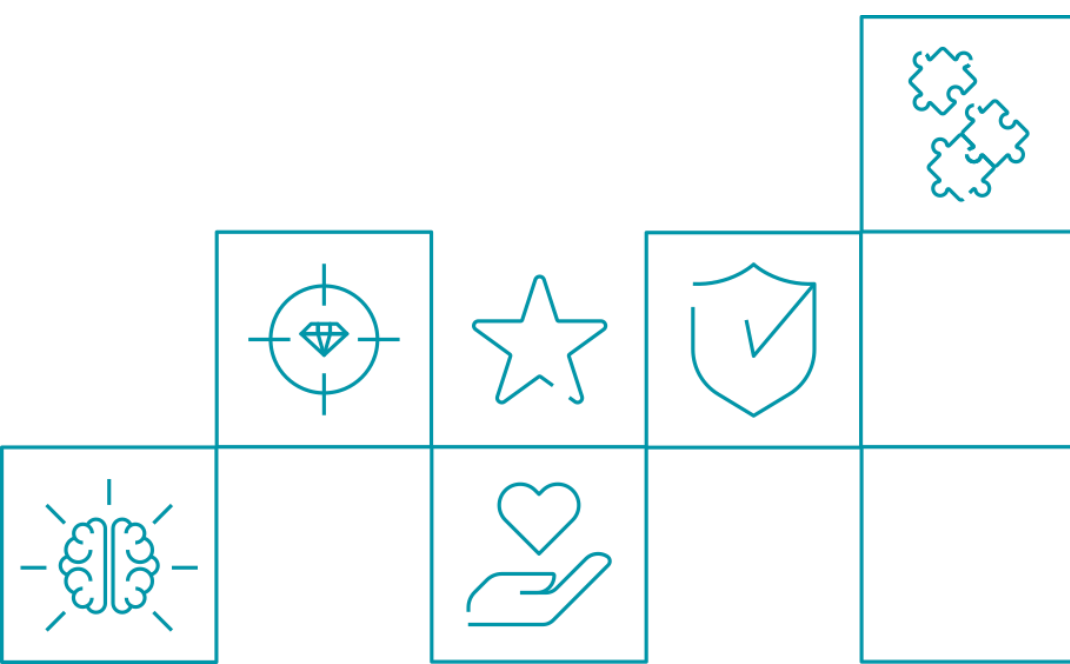
1. Direct costs

- Staff costs
- Non-staff costs (equipment, drugs, tests)

2. Indirect costs (institutional overheads)

National and International Funders

- King Abdulaziz City for Science and Technology (KACST)
<http://grants.kacst.edu.sa/menu/ProgramsDefinition.aspx>
- Almarai prize for scientific innovation
<http://www.kacst.edu.sa/ar/sites/almaraiprize/prize.aspx>
- King Abdullah International Center for Medical Research
<http://www.kaimrc.med.sa/>
- Islamic Development Bank
<http://www.isdb.org/irj/portal/anonymous?NavigationTarget=navurl://5ffaebd539e6818daffef7bff9d770cb>
- The King Faisal Foundation
<http://www.kff.com/AR01/homepage/Index.html#>
- Arab Science and Technology Foundation (ASTF)
<http://www.astf.net/site/arabic/funding/index.asp>
- Dubai Harvard Foundation for Medical Research
http://www.dhfmr.hms.harvard.edu/research_grants.html
- World Health Organization (WHO)
<http://www.searo.who.int/en/Section1243/Section2279/Section2287.htm>
- United Nations Education, Scientific and Cultural Org. (UNESCO)
http://portal.unesco.org/en/ev.php-URL_ID=7972&URL_DO=DO_TOPIC&URL_SECTION=201.html



Planning

Research Time



What is Time Management?

It is the process of organizing and planning how to divide your time between specific activities.

Good research time management enables you to work smarter; not harder.

Managing your Research Time

How long will it take?

- To collect your sample:

Based on estimated sample size and expected recruitment period, participant's pool, flow and recruitment rate

- To write your protocol or manuscript:

Based on team members' skills, delegation log, experience, time management, and follow your schedule

- To analyze your data:

Who is going to do it, full time or part time Expert? What is sample size, statistical tests with/out interpretation

Research productivity is gauged by written activities

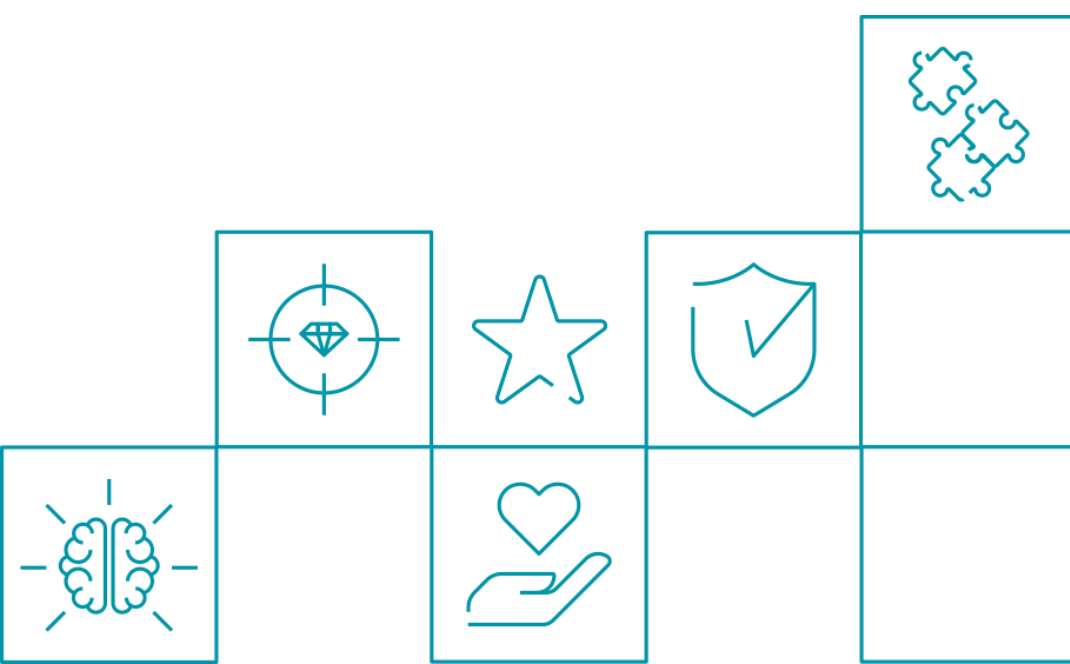


Fact!

Being busy isn't the same as being effective

IRB Decision

The Institutional Review Board (IRB) is the ethical review committee who protects the privacy, well-being, and research participant's rights.



What do they do?

- **Protect** the privacy, well-being, and other rights of humans who are subjects of research
- Should **consider the qualifications** of the investigator for the proposed trial
- Should **conduct continuing review** of each ongoing trial
- **Assure** the **rights** of the trial subject during **consenting** process



How do they do it?

- **Authority** to approve, require modification or disapprove and terminate any research
- IRB decisions are based on the results of any **review type**; full board, exempted or expedited
- **IRB has independent decision** from the Research Center or Hospital Administrations. **IRB works under direct supervision of National Bioethics Committee.**

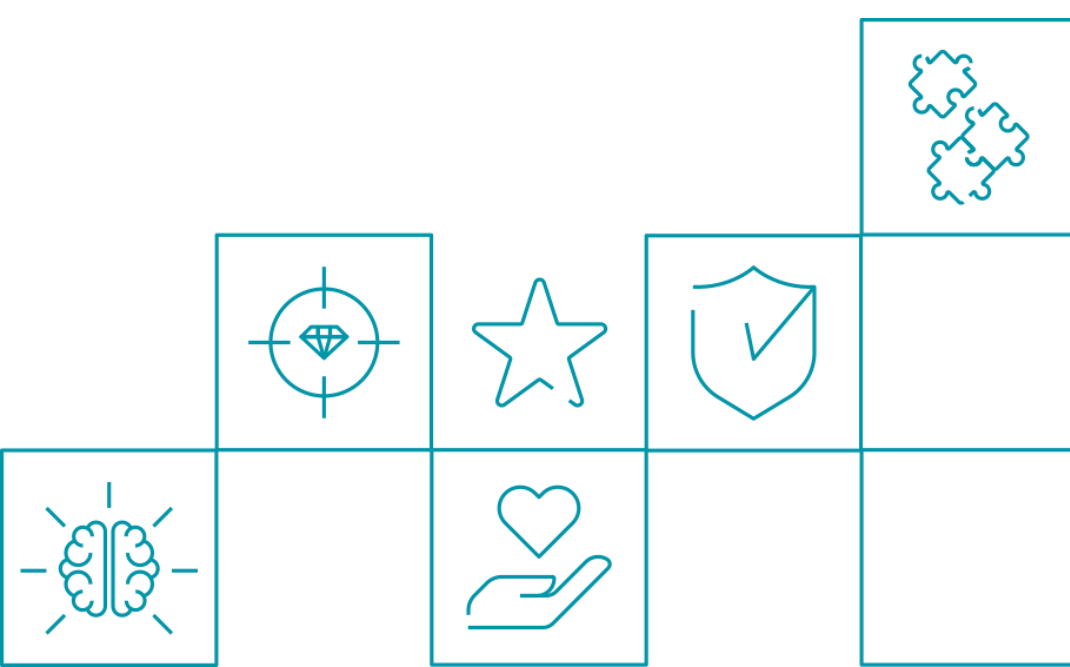
Congratulation.. But wait

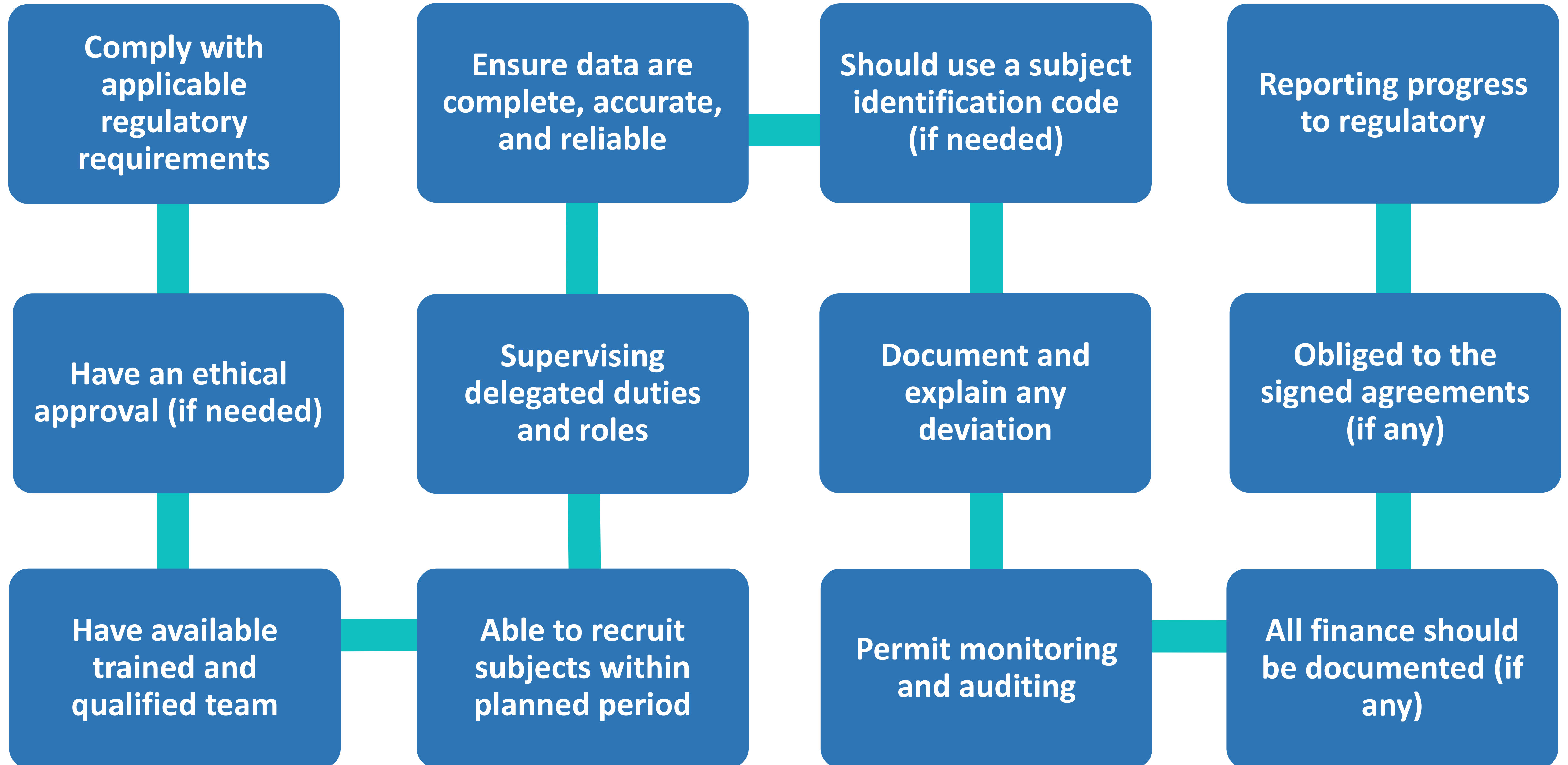
Are you done yet with the IRB..

- In case of amendment or extension
- Annual and final progress report

Research Execution

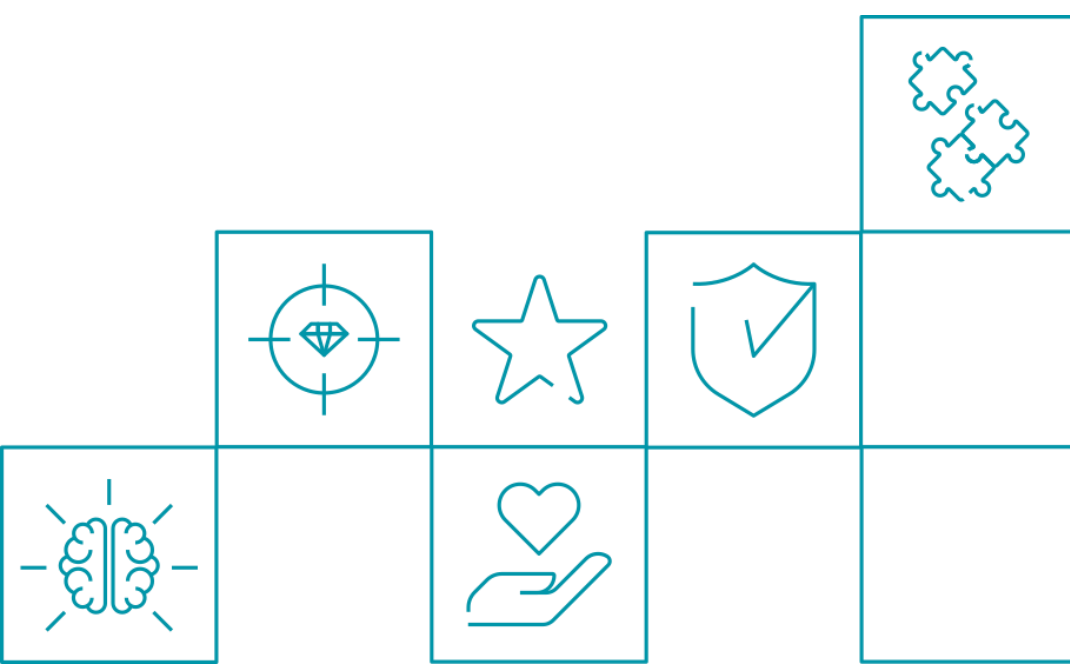
Involves conducting and monitoring the approved protocol activities, as well as updating and revising the plan according to safety reports.



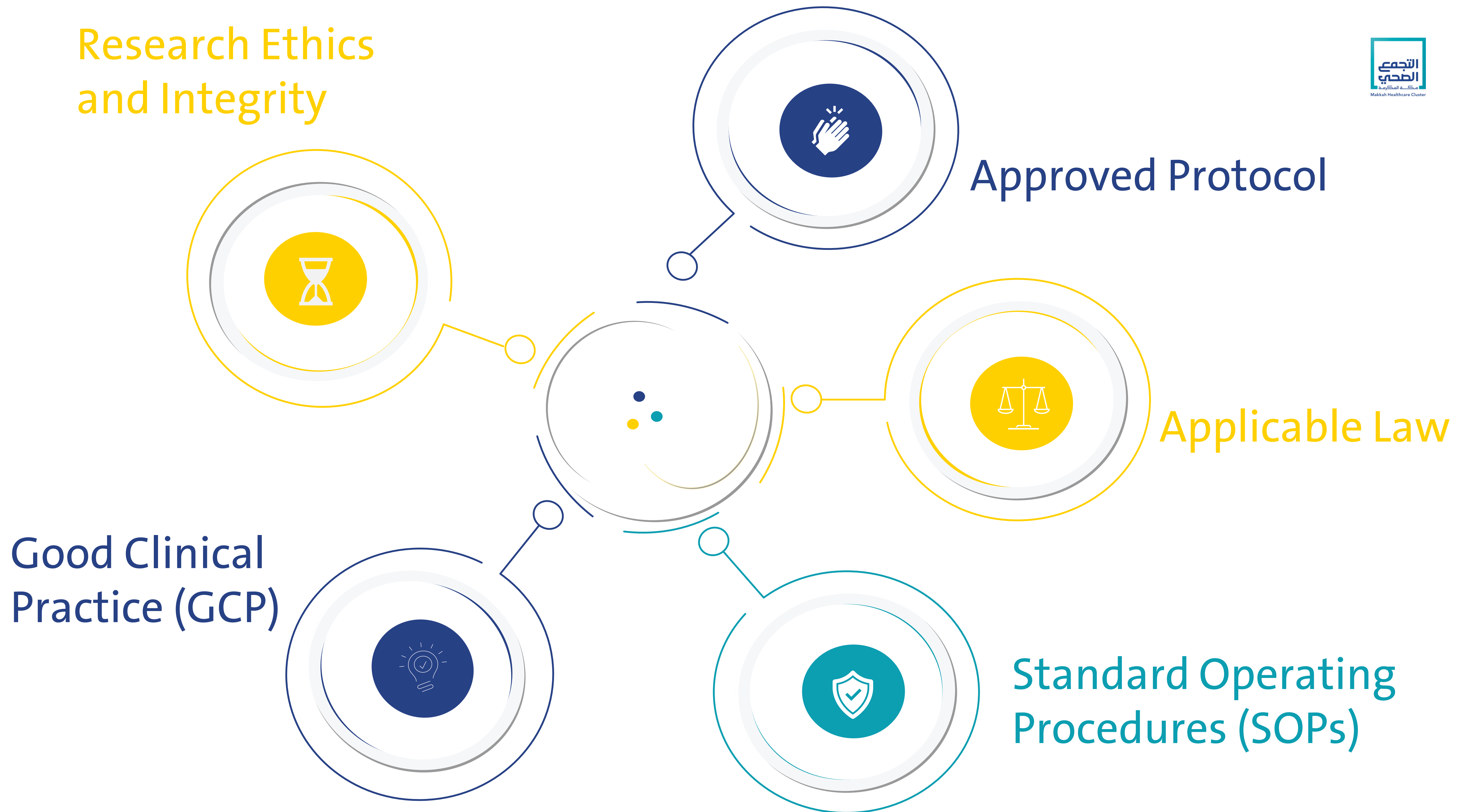


Research Compliance

It covers a range of activities from general guidelines about conducting research responsibly to specific regulations governing a type of research.

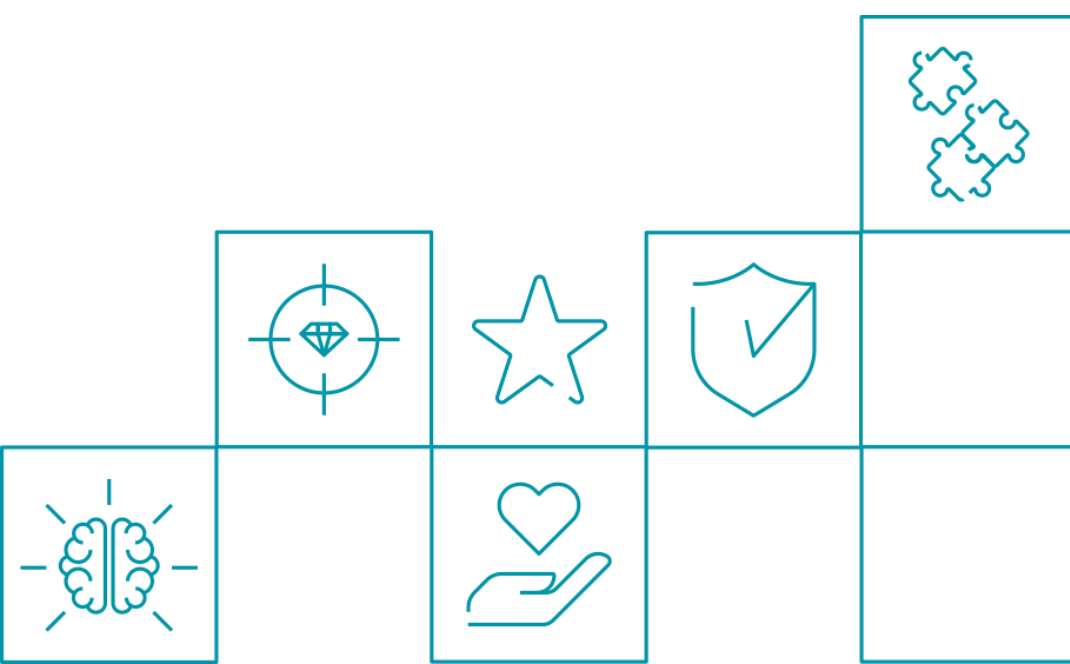


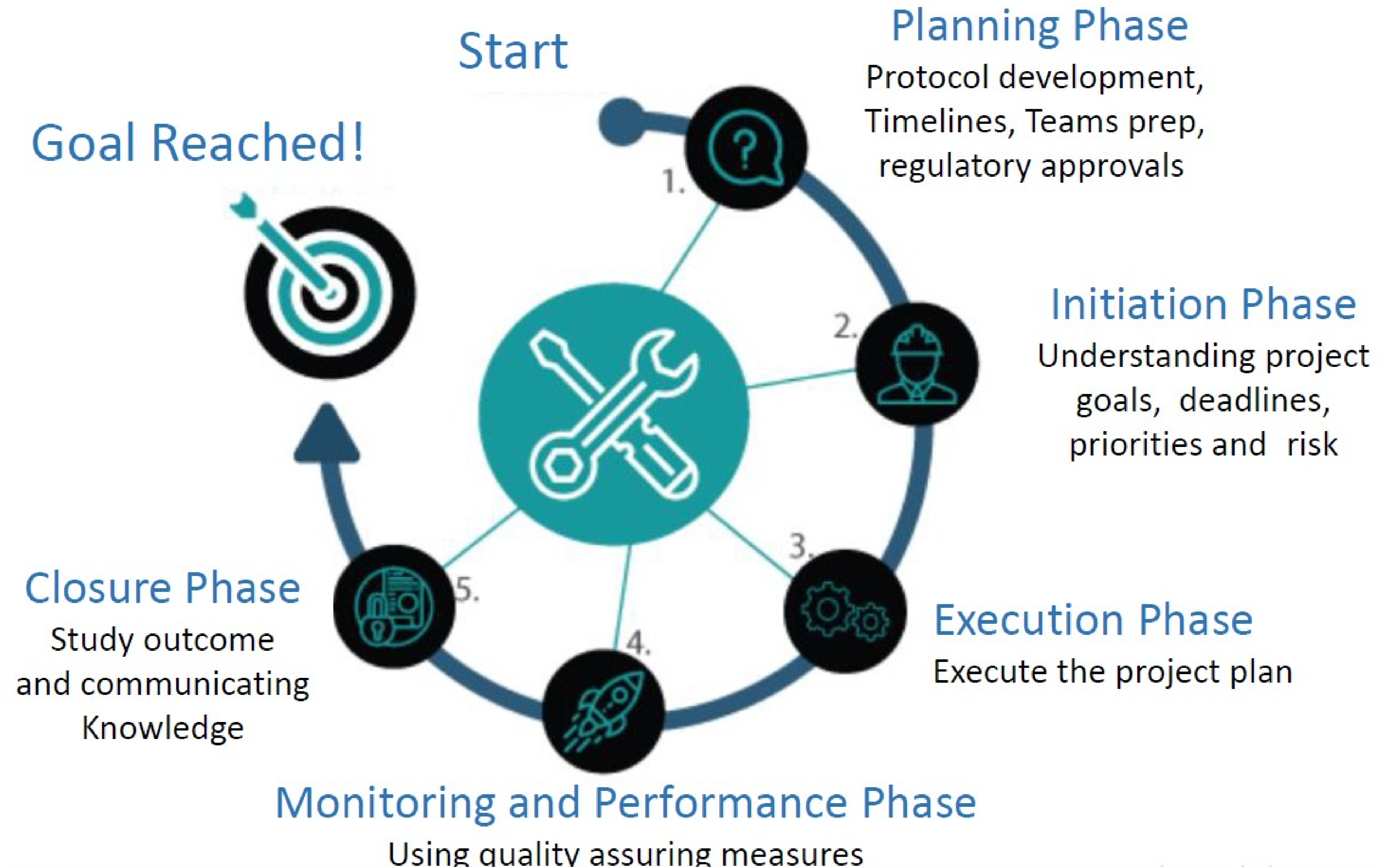
Research Ethics and Integrity



Study Closure

It is a closure of a study at the site once all subjects have completed the study activities and all data queries have been reconciled, recorded, and reported.





What is it?

- Study Completion (Data Collection Phase is Completed)
- It relates to the closure of a study at participating sites once all subjects have completed the study and all data queries have been:
 - Resolved
 - Appropriately reconciled
 - Recorded
 - Reported
- In accordance with the protocol, SOPs, GCP and the applicable regulatory requirements

Reporting

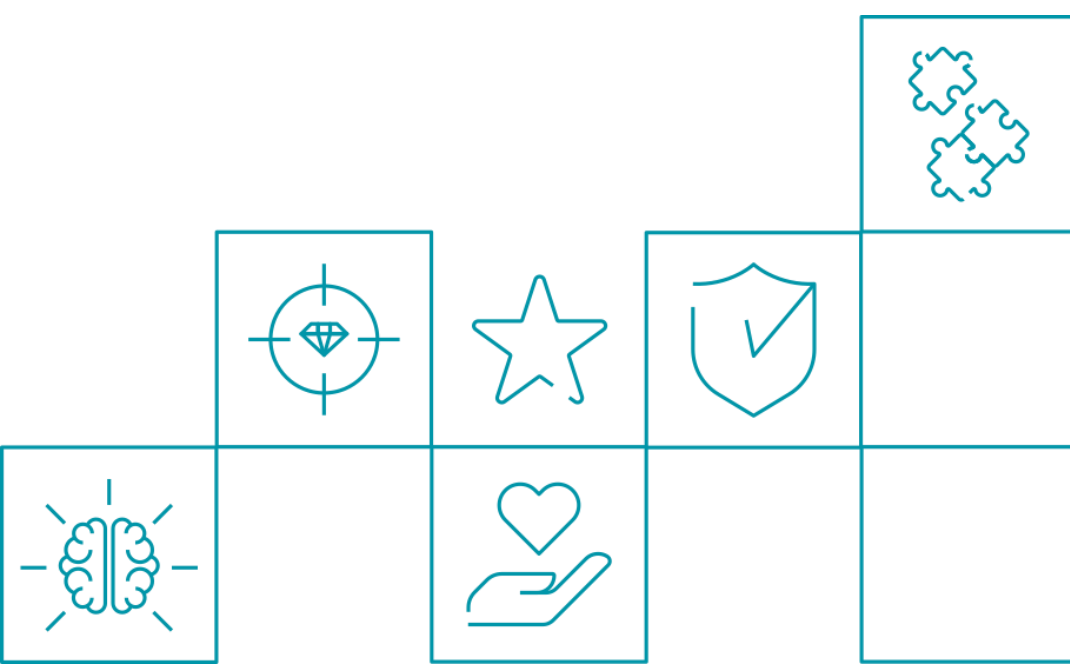
- Progress Reports
- Safety Reports
- **Final Report**

Can we reach the study if it is closed?

- Ready for an audit or inspection!
- Storage or Archiving
- Documents Destruction

Writing Manuscript

A manuscript is a scientific paper that an author writes for publication purposes.



Deciding to Publish

What to publish?

- abstract vs. full report

Choosing your journal:

- Which journal is best for you?
- Who is your audience?

Research the journal

- Publication guidelines
- Article style

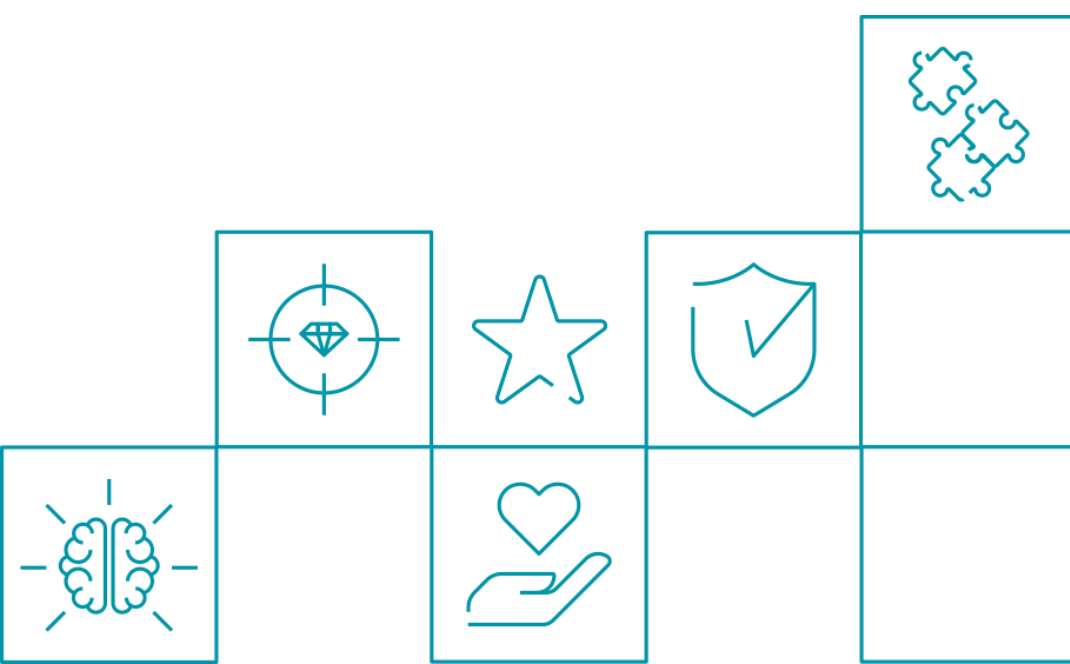
Writing Manuscript

- Select the journal
- Define writing Style and Audience
- Be careful of word Choice
- Manuscript Structure



Research Publication

A scientific manuscript to be submitted,
peer reviewed, edited, and published.



After Submission



- Publication Timeline (6-12 months)
- Author submits
- Editor is assigned to manuscript
- Editor assigns reviewers (associate editors) to inspect
- Reviewers decide on whether to review paper
- Several reviewers inspect and edit
- Editor decides on accuracy of revisions and whether to accept paper

After Submission

- If accepted, editor sends paper back to author with revisions
- Author revises paper and sends it back
- Possibility of second review process
- Publication!

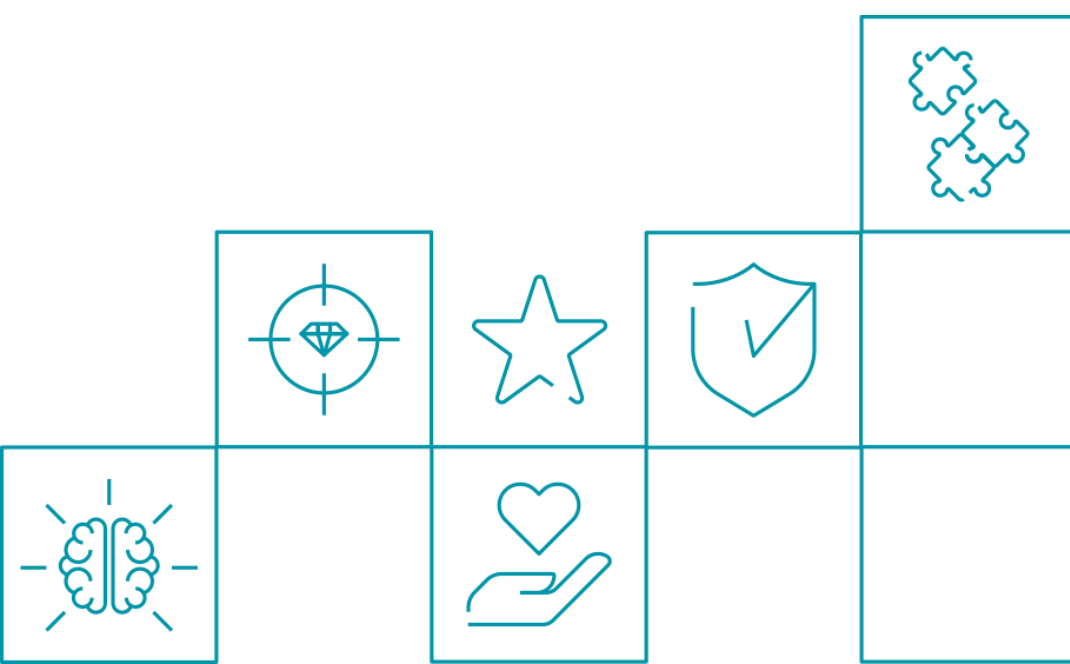


Remember!

- The rejection usually occurs in the 1st round of review, so put “your best foot forward”,
- Consider carefully the critique by your in-house Reviewers or Refs and send the best version you can.

Knowledge Translation

It is a process of moving what we learned through research to the actual applications of such knowledge in a variety of practice settings and circumstances.



Knowledge Translation OR Research Translation

Are they synonyms?



Research Translation

=

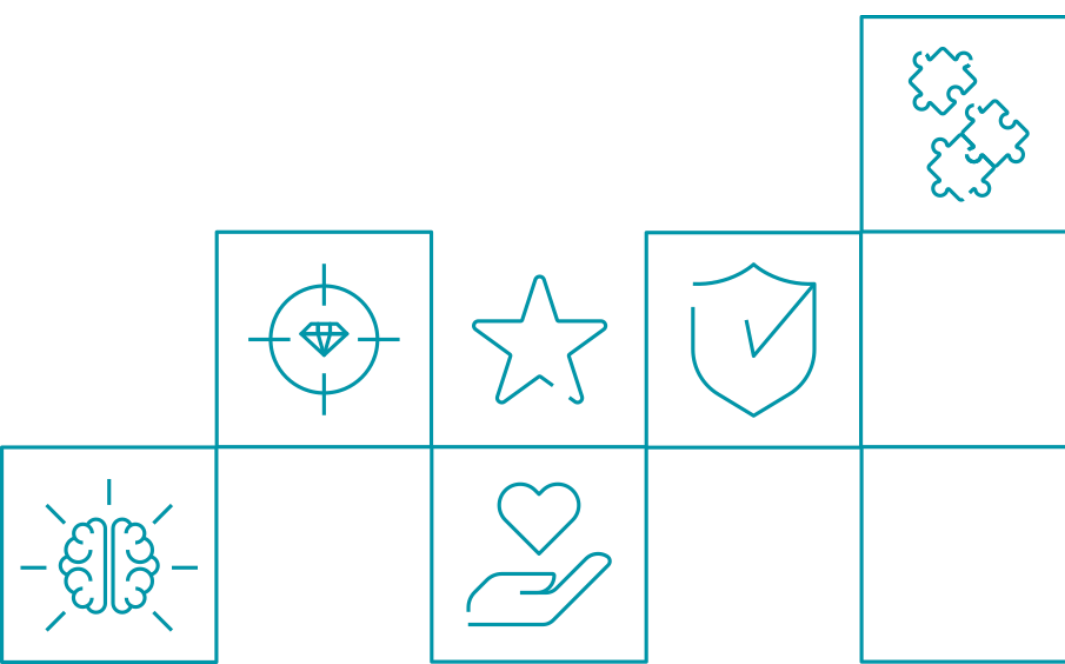
Knowledge Translation

=

Knowledge Transfer and Exchange

=

Research Uptake and Research Utilisation



Knowledge / Research Translation Vs. Translational Research

The terms are distinct, though sometimes used interchangeably.





Take a Home Message!

صوب عينك على النتيجة دائماً.. وأسأل نفسك لماذا؟

حتى تعرف الطريق المناسب للهدف الذي تسلكه!

أ. رانية محمد فلمبان

مدير الأبحاث

التجمع الصحي بمكة المكرمة

Rania Mohammad Felemban, MSc

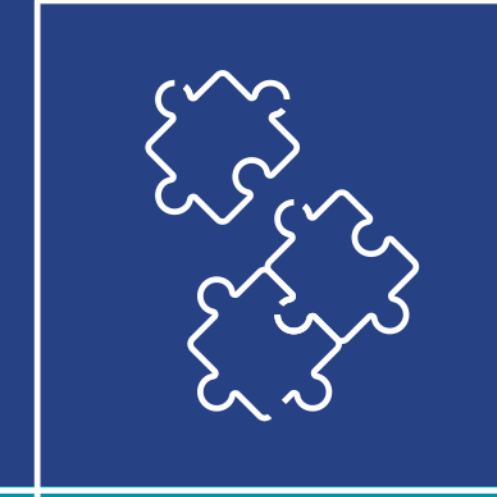
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Thank you