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## Research and Professional Ethics

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# Basics for Research Proposal

- Key terminologies
- Identifying a suitable Research topic area
- Writing a research proposal & Justification content (the Why?)
- Understanding the different types of Objectives
- Writing your Literature Review
- Selecting your correct sampling strategy
- Understanding the role of the artefact in your capstone project
- Validity management
- Understanding and managing bias
- **Ethics in data analytics**

# Basics for Research Proposal

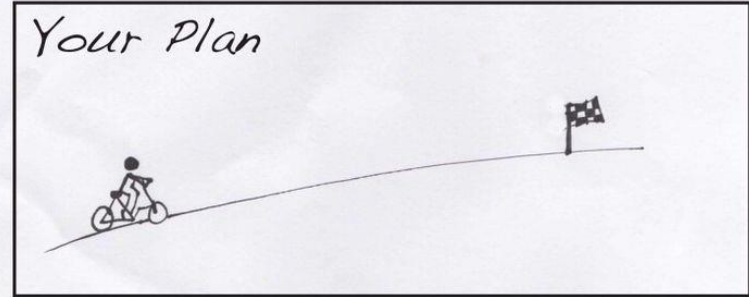
Cool research  
idea in my head:



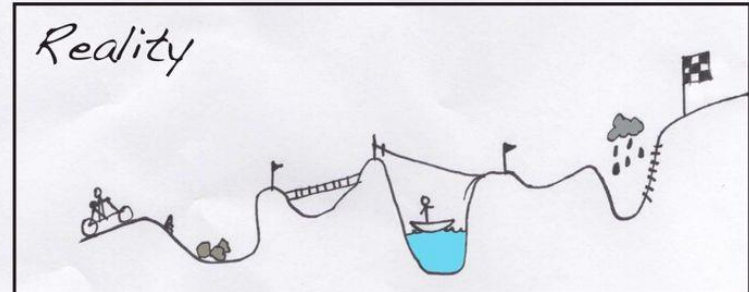
On paper:



*Your Plan*



*Reality*



# Basics for Research Proposal



**EXCUSE**



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make today easy & tomorrow harder



**DISCIPLINE**



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make today harder & tomorrow easy

# Basics for Research Proposal



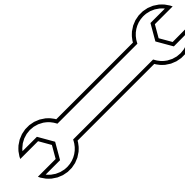
Topic and background



Domain Area Vs Problem Area



Research Objectives Vs. Technical Objectives



# Basics for Research Proposal - Objectives

**S**MART stands for specific, measurable, achievable, relevant, and time-bound.

- ✓ **Specific** – Objective clearly states, so anyone reading it can understand, what will be done and who will do it.
  - Achievement
  - Expected results

# Basics for Research Proposal - Objectives

SMART stands for specific, measurable, achievable, relevant, and time-bound.

- ✓ **Measurable** – Objective includes how the action will be measured. Measuring your objectives helps you determine if you are making progress. It keeps you on track and on schedule.
  - Metrics / Indicators



# Basics for Research Proposal - Objectives

SMART stands for specific, measurable, achievable, relevant, and time-bound.

- ✓ **Achievable** – Objective is realistic given the realities faced in the community. Setting reasonable objectives helps set the project up for success.
- Resources and Alignment

# Basics for Research Proposal - Objectives

SMART stands for specific, measurable, achievable, relevant, and time-bound.

- ✓ **Relevant** – A relevant objective makes sense, that is, it fits the purpose of the grant, it fits the culture and structure of the community, and it addresses the vision of the project.
- Impact

# Basics for Research Proposal - Objectives

SMART stands for specific, measurable, achievable, relevant, and time-bound.

- ✓ **Time-bound** – Every objective has a specific timeline for completion.
  - Milestones, project management



Our Dedication.  
Your Journey.