

First Principles Thinking

How to practice and think from first principles

*"In every systematic inquiry (methods) where there are first principles from which to acquire knowledge of things, for we think we know things just in case we acquire the primary causes, the primary first principles, all the way to the elements."
Aristotle*



What is First Principles Reasoning?

A first principle is a proposition or an assumption on which methods and laws are based on first principles. Axioms and postulates are first principles in mathematics.

Socratic Questioning

1. Clarify your thinking and explaining the origins of why you think that? What exactly do I think?
2. Challenge assumptions. Why do I think this is true? What if I thought the opposite?
3. Why do I think this is true? What are the sources?
4. Consider alternative perspectives. Do I know I am right?
5. Examine consequences and implications. What if I am wrong? What are the consequences if I am right?
6. Question the original questions. What are the original questions? What can I draw from the reasoning process?

Elon Musk's 3 Questions

- 1: Identify and define your current assumptions
- 2: Breakdown the problem into its fundamental parts
- 3: Create new solutions from scratch

5 Whys

Identify the natural first principles thinkers. They ask why until they reach the knowledge of themselves, the knowledge of the world, and the knowledge of the universe.

5 why questions help you to peels a layers off a problem or an idea. True knowledge leading a

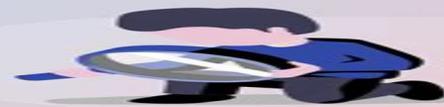
First Principles Innovations

- Aerospace, automotive and physical laws
- Cheap reusable rockets
- Electric vehicles



First Principles Frameworks

- First principles thinking: Is it true?
- Analogous thinking: It was done before, therefore, it is true.

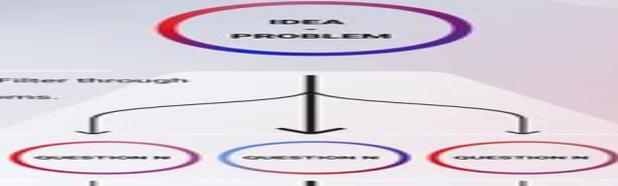


First Principles Analysis Flow

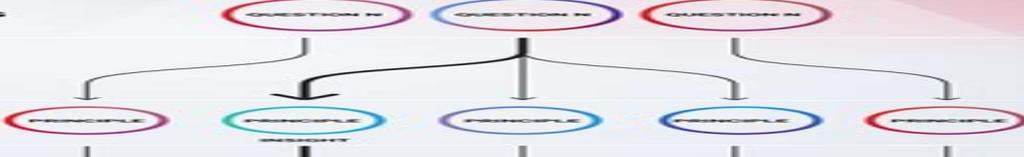
FIRST PRINCIPLES PRISM

- STEP 1: Eliminate assumptions. Filter through Questioning.
- STEP 2: Find First Principles Axioms.
- STEP 3: Build a new solution.

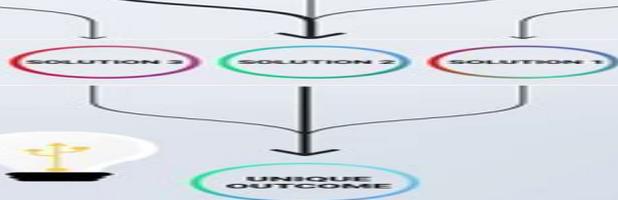
QUESTIONING



FIRST PRINCIPLES AXIOM



BUILDING



First Principles How to Practice

Practice and application

1. Make it easy to apply.
2. Create a template of one of the first principles framework.
3. Research a problem with a framework.
4. Question assumptions.
5. Reason from the insights you found.
6. Shift your thinking patterns.
7. Make it a habit.

Sources

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First Principles Of Philosophy

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