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A General Outlook on Emerging Technologies

**RISK
BEYOND
2023**

ERMA
INTERNATIONAL
CONFERENCE
ON ERM

7-8th
Dec
2023



INTO THE UNKNOWN:
CHARTING THE FUTURE AGENDA



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In relation to the new emerging technologies that we will discuss here over the next few days, let's take a step back first and look at what may constitute a real technology, and what is just hype:

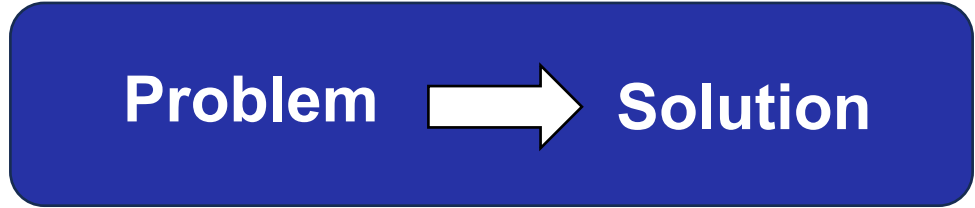
Hype

VS

Non-Hype



Non Hype involves:



Let's Take a Hypothetical Non-Technological Example:

- 1. PROBLEM:** There are no Durian Extract Shampoos Available in the Market...
(Woman want such a Shampoo – My Wife told me so!!)
- 2. SOLUTION:** We develop a new Durian Extract Shampoo **“Moonsilk”**



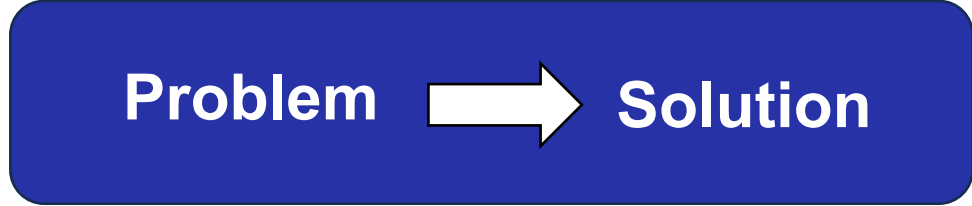
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Non Hype involves:



3. We *specify and quantify* how our solution is better than our competitors...

”Haha - We are the only ones in the market with a Durian Extract Shampoo”



4. We build a business case based on risk management principles to get an ROI on our investment to develop, market and sell our product (*“The Solution”*).

Hype involves:

Solution and How to Invest

By contrast – A Hype Technology or Product or Service based solely on Hype will most likely involve the following Steps:

1. Presents “The Solution” ...saying that

- a. *It will CHANGE THE WORLD!!!!!!!!!!*
- b. *The industry or Sector was previously in the dark ages before “The Solution”*
- c. *Investors will “make serious \$\$coin\$\$” because “The Solution” be become the new and only standard.*
- d. *Presents detailed process on how to make an investment*
- e. *The End*



It's Not That Easy to CHANGE THE WORLD

It Involves Changing **People's Behaviour** – On a Global Scale



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It Involves Changing **People's Habits** – On a Global Scale

Nokia – Remember them???

They made owning a mobile phone go from this.....



Nokia – Remember them???

To This.....



Apple

Late 2000s - They turned the phone from a communication device to a Personal Entertainment Device, a personal computer, your primary camera and your primary video recording devicethey expanded these capabilities with the iPad**they changed the world.**



WhatsApp

Early 2010s – this simple little app amazed people when it was first introducedsuddenly after the colossal failure of MMS - you could message, call, video call, send your pictures, emojis, and videos for FREE – this app changed people behavior – **this app changed the world.**



Facebook

Late 2000s/early 2010s – Do you remember when you used to spend your evenings “Channel Surfing” on the TV? Well now we spend that same time “Scrolling” ...Facebook changed the landscape of Marketing, the use of Big Data and our human behavior – **it changed the world.**



4G/5G

Yeah infrastructure – *not sexy* – and cost billions to put in - but with the introduction of this infrastructure – we now watch so much of our prime content through mobile streaming devices – and Telcos went from offering voice services to basically being Internet and Content Service providers. This changed our behaviour as witnessed by the slow but steady death of linear TV channels – **this changed the world.**



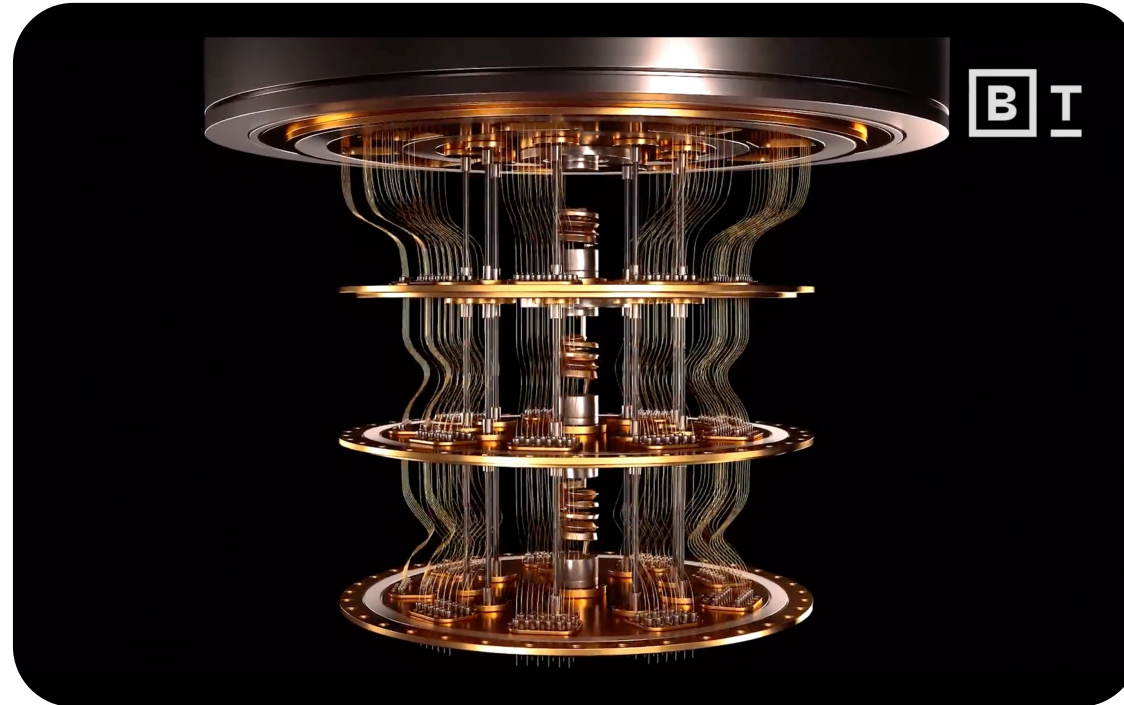
QUANTUM COMPUTING

This will **CHANGE THE WORLD.**

Let's watch a short video

The Introduction of Quantum Computing

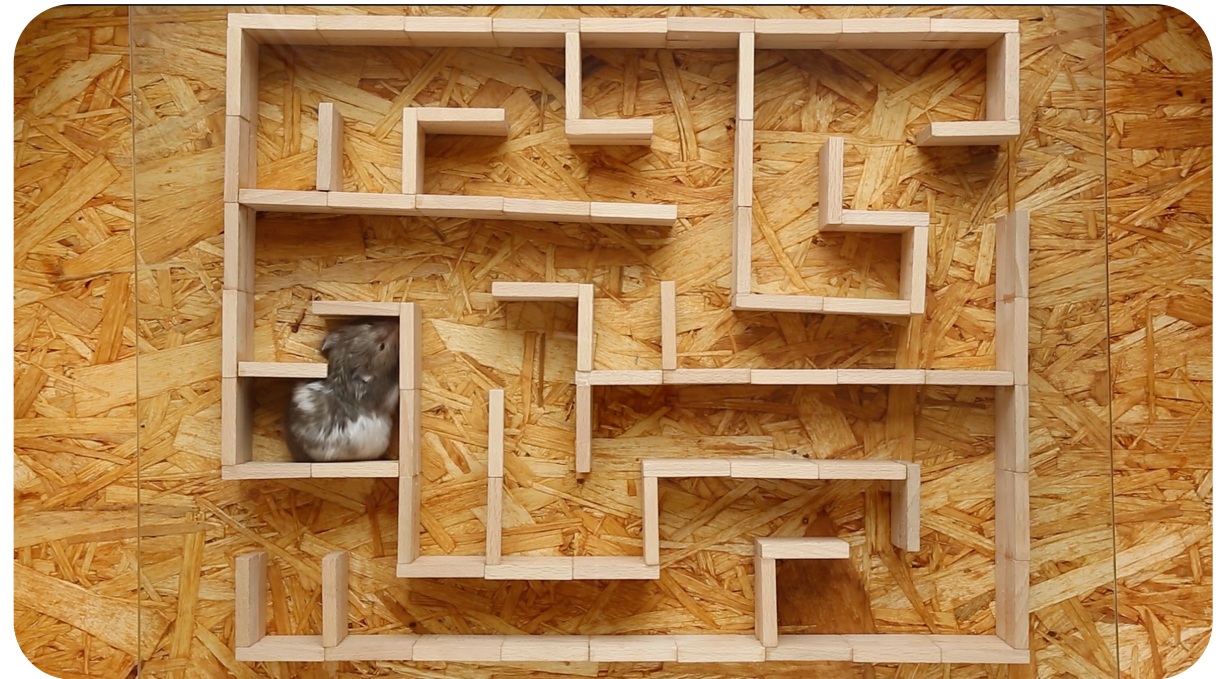
We are now in the initial stages of the next revolution.



QUANTUM COMPUTING

“Mouse in a Maze”

- Quantum computer starts with, in theory, infinite mice at the start of the maze and explores **ALL** paths at the very beginning of being presented with the maze, hence the right path is found on the first “iteration”.
- It does this as it operated, not on 1s and 0s, but in the real quantum world of electrons and matter.
- The Expectation is that with Quantum Computing – we will be able to properly model and cure diseases such as cancer and Alzheimer’s, as these exist in the quantum realm, not in 1s and 0s.



Thank you



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