

# METaverse: THE NEXT BIG TECHNOLOGY

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**Abstract:** In this study, we are discussing about the Metaverse. It is the latest and hot buzzword to capture the Tech industry's imagination.

Metaverse is a broad term. It is generally 'refers' to shared 3D Virtual world environment which people can access via Internet. Metaverse is where the real world meets the virtual world. It focuses will be to bring the Metaverse to life and help people connect, find communication and grow businesses.

According to CEO Mark Zuckerberg: The Metaverse, which he sees as the next generation of the internet, as a virtual environment that will allow people to be present with each other in digital spaces. It brings together their Apps /Technology under new company brand.

Facebook's, I mean, Meta's recent rebrand and investments, triggered a new wave of interest in the metaverse. It's all over headlines, corporate news, memes, gaming platforms, and social media. The word's increased ubiquity is creating an impending sense of doom, as if, at any moment, our physical lives will be engulfed in corporate pixels and paywalled interactions.

**Keywords:** Virtual Reality, Augmented Reality, Metaverse, Immersive

## INTRODUCTION

METaverse: The word 'Meta' comes from the Greek language. The suffix Meta – means "Behind or beyond" and means 'beyond' indicating the futuristic motive. It can also mean "More comprehensive" and even transformative. The word verse derived from the word "Universe" and describe the concept, area or fictional world. As the whole world "Metaverse" generally refers to a virtual world that lies beyond, on top of or is an Extension of the physical world.

Verse: Universe, the term is typically used to describe the concept.

Metaverse 'refers' to a second version of the Internet. The term 'Metaverse' is the latest buzzword to capture the Tech Industry is imagination-so that one of the best known internet platforms is rebranding to signal its embrace of the futuristic idea. It is mixture of Virtual Reality and Augmented Reality.

## Virtual Reality (VR)

It is a perception of being physically present in a non-physical world. It is created by surrounding the user of the VR system in images sound or other stimuli that provide an engrossing total environment.

VR is a simulated experiences that can be similar to or completely different from the real world.

### **Application of Virtual world.**

1. Education
2. Entertainment (Video games)
3. Business

### **Technology**

1. Augmented Reality
2. Mixed Reality or extended reality

### **Advantages of Virtual Reality**

1. Virtual reality creates a realistic world.
2. Virtual reality make the Education more easily and comfort.
3. Through VR user can experiment with an artificial environment.
4. Innovative and enjoyable.

### **Disadvantages of Virtual Reality**

1. Lack of flexibility
2. Functionality issues
3. Addiction to the Virtual World.
4. Ethical issues.
5. Health effects
6. Quite Expensive



**Augmented Reality (AR)**

Augmented Reality (AR) is enhanced version of the real physical world that is achieved through the use of digital visual elements, sound or other sensory stimuli delivered via Technology.

AR involves ever laying visual auditory or other sensory information onto, the world in order to enhance one’s experience. It was first used for navigation in NASA’s X-38 spacecraft.

AR is technology that presents us with virtual objects and information in our field of vision . Examples- Google skymap, Layer, Pokemongo and spotcrime etc.

**IMMERSIVE**

Providing Information or Stimulation for a number of senses, providing 3D image that seems to surround uses, making someone feel completely involved and engaged.

**ORIGIN OF METAVERSE**

In the lingo, this imaginary place is known as the Metaverse, Etymologically, meta meant “after” in Greek, so Metaverse, a word or conception that requires the `real` world in order to move beyond it and acknowledge another realm. The word `Metaverse` was coined in Neal Stephenson 1992 Science fiction novel `SNOW CRASH` presenting a 3D virtual world in which people/ where human as Avatars interact with each other software agents in 3D Dimensions / Virtual space that uses the Metaphor of the real world. Stephenson used the term to describe a Virtual reality bases successor to the Internet.

**AIMS OF METAVERSE**

Virtual platform is the main aim of Metaverse, where family, friends gathering schooling, Higher Education and Business development through Virtual platform.

**OBJECTIVES OF THE STUDY**

To know the word `METAVERSE` and its advantages and disadvantages.

**METAVERSE**

Metaverse is a boundless place where you can live your life on-line or interconnected Virtual communities. Where people can meet , get together with friends and family, work, learn, play ,shop create as well as entirely new categories using Virtual reality headsets, augmented reality glasses, smartphones, apps or other devices.

Metaverse is a digital reality that includes or combined of social media, Virtual reality (VR), augmented reality (AR), On-line gaming and cryptocurrencies to allow users to interact virtually

**Metaverse:** It is fully immersive online realm that looks similar to the real world but it is actual in Computer generated. Example: In Metaverse, You attend work meetings as an avatar using Quest VR headset and use a device on your wrist to secretly text friends. When you go outside, you will wear smart glasses that offer an augmented reality as well as record what you see and hear. The Metaverse will be accessible through phones /computers wearable tech and headsets and it will be where you work, shop, Exercise, socialize, games and watch movies etc.

Metaverse is a decentralised application on Binance smart chain that is for from Uniswap and Pancakeswap. It will not be created by one company. It will be built by creators developers making new experiences and digital items that are interoperable and unlock a massively larges creative economy that the one constraing by today’s platform and then policies.

**According to Ball,** The Metaverse is “an expansive network of Persistent, real time centered 3D worlds and simulations. “Ball’s metaverse should be able to maintain the continuity of identify objects, payments and can be experienced by an unlimited number of people at the same time, in which everyone will have their own sense of presence. Here, the Metaverse is an immersive virtual reality that allows users to be present, it’s a persistent space where blockehain technology could be used to pay for items we can bring with us through different experiences: Imagine being able to wear the Sandy Liang fleece you got in Animal Crossing on your Twitter and Instagram Profile Pictures.

On October 28, 2021, Facebook CEO Mark Zukerberg announced that the company known as Facebook would be changing its name. The company now known as `Meta` will still have Facebook, Instagram , Whatsapp and Oculus VR under its control.

**IMPORTANT FEATURES EXPECTED IN METAVERSE**

1. Presence
2. Avatars
3. Home-space
4. Teleporting
5. Interoparability
6. Privacy safety
7. Natual interfaces

**Who will build the METAVERSE?**

The Metaverse is not confined to a single company and each of us in necessary to make it happen. It is especially aimed at small developers who will enrich the world of Meta with immersive experience.

(Trade/Commerce, Tourism, Cultural and Entertainment) in the same way that start- ups have multiplied the services available on smartphone in the late 2000's.

**Companies involved in the METAVERSE**

META holdings include a wide range of companies that are part of building blocks of the Metaverse. They include graphic processing unity (GPU) companies like Nvidia.

Virtual platform providers like Tencent and Roblox, cloud computing services like fastly and gaming engines like Unity software Inc (U.N)

Snapchat owner Snap INC (SNAP N) has long been building custom Avatars and augmented reality filters to overlay digital features on the real world.

**METAVERSE: PROS AND CONS. OR POSITIVE & NEGATIVE EFFECTS ON HUMAN**

**PROS AND POSITIVE EFFECT OF METAVERSE**

1. Bring people together.
2. Create lots of fun.
3. Make everything more enjoyable/more interest.
4. Can increases engagement in the classroom.
5. More Immersive Digital Communication.
6. Consumers can test products before purchasing.
7. Upgrading social Media platforms.
8. Applications in businesses and Education/Learning.
9. Electronic Commerce and Virtual Economy.

**CONS. & NEGATIVE EFFECTS ON HUMAN OF METAVERSE**

1. Separation will be happen people and reality.
2. Addiction of Metaverse or generate addiction
3. Make you lose track of time.
4. Separate you from the real nature and real world.
5. Overstimulate your senses.
6. Existing problems with the Internet.
7. Social and cultural Impacts.

Finally, It depends a lot on us, on how we will use it. Some will use the Metaverse for good and others for bad things.

**CONCLUSION**

Metaverse is the next mega phase of the internet, a merging of the physical world with Augmented Reality and Virtual Reality that is just beginning to revolutionize the way we interact work and live.

As the `Metaverse` grows, it will create On-line spaces where user interactions are more multidimensional than current technology supports, instead of just viewing digital content, users in the Metaverse will be able to immerse themselves in space where the digital and physical world converge.

Mark Zuckerberg's version conjures an image of virtual everything: You attend work meetings as an avatar using the Quest VR headset and use a device on your wrist to secretly text friends. When you go outside, you will wear smart glasses that offer an augmented reality as well as record what you see and hear. The metaverse will be accessible through phones, computers, wearable tech and headsets (or a combination of these) and it will be where you work, shop, exercise, socialize, and watch movies and game.

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