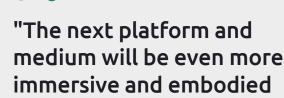
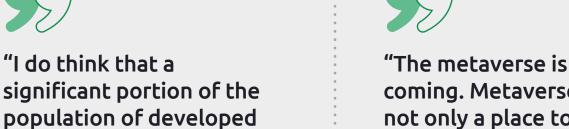
SPEAK



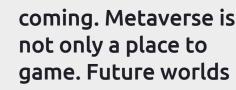
immersive and embodied on Internet where you're in the experience, not just looking at it. We call this the metaverse." **Mark Zuckerberg** CEO, Meta



countries, and eventually all countries, will have AR experiences every day, almost like eating three meals a day. It will become that much a part of you." Tim Cook CEO, Apple

"The metaverse is here, and it's not only

transforming how we see the world but how we participate in it - from the factory floor to the meeting room." Satya Nadella CEO, Microsoft



will be photorealistic, obey the laws of physics and be inhabited by human avatars and AI beings." **Jensen Huang** CEO, Nvidia

WHAT IS A METAVERSE? "Metaverse creates an immersive virtual world, where users interact digitally, as they would have interacted in a physical world, aiming to deliver combined online digital Customer experiences (CX) and Employee experiences (EX) with real-life feelings."

UNDERSTANDING

THE METAVERSE

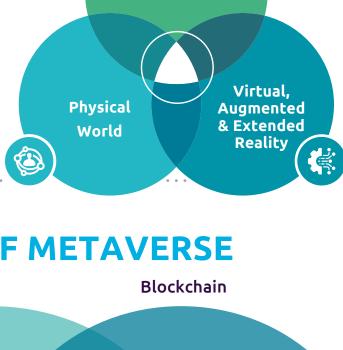
decentralized 3D virtual spaces which delivers

METAVERSE-IN A NUTSHELL Cyberspace "It is a container for public and private

generated by a sense of presence and space, speech, gesture, touch, and even smell."

online digital customer experience,

TECHNICAL LAYERS OF METAVERSE **Immersive**



Digital

Laws

60

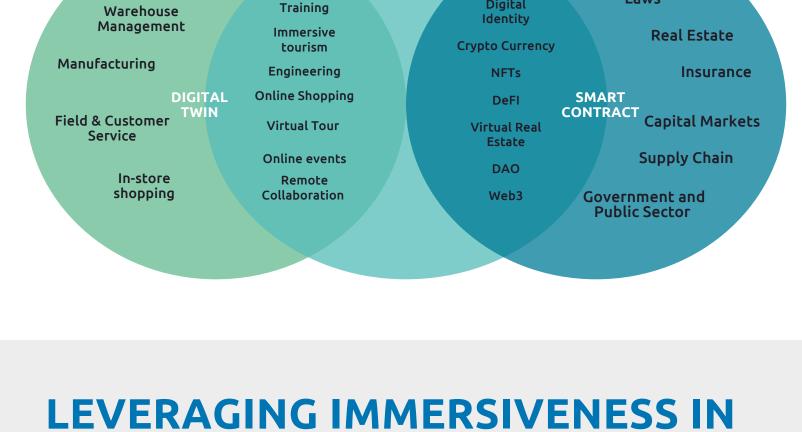
billion

Messages

(approximately)

sent daily on

Roblox



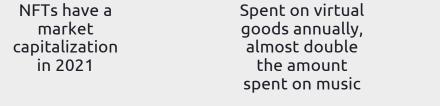
Substantial investments signal confidence in the potential of the Metaverse

billion



AUTOMOTIVE INDUSTRY

WHY FOCUS ON IMMERSIVENESS?



<u> 2022</u>

2030

Automotive in Metaverse

billion*

\$16.5

Source: JP Morgan

billion*

New experience-based

in-car and out-of-car

experiences

Source: Markets & Markets

CAGR

31.4%

The global metaverse

of 31.4% during the

forecast period.

market for Automotive is

projected to reach \$16.5

billion by 2030 at a CAGR

*Inclusive of immersive and other applications i.e., upstream & downstream operations

HOW CAN IMMERSIVENESS CREATE NEW VALUE PROPOSITION FOR OEMs?

Brand loyalty

communities and

creating unique

experiences

services Develop a unique driving Foster loyalty to the brand from fans and experience for all passengers by merging drivers by connecting



1. NEW EXPERIENCE-BASED **SERVICES OUT-OF-CAR EXPERIENCE**

Virtual showrooms

• 360° immersive spaces which provide

Customers can access products and

Engagement through

private Metaverse

any internet-enabled device

experience

3D product displays and a rich brand

services anytime, anywhere, and from

In-car experience



Tokenized assets

Virtual test drives

A preview or virtual experience driving

a particular vehicle without having to

• Customers can be provided with

experiences of driving vehicles in

AR/VR through in-car

different scenarios and with varying

IN-CAR EXPERIENCE

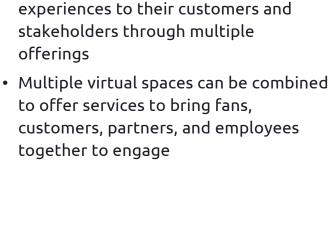
drive it

obstacles

display/HUD

USE CASES





• Brands can provide immersive



• Brands can introduce an exclusive

communities

collection of collectibles for its brand

• Brands can associate benefits such as

interactions with the brand team

access to "members only" channels and

enhanced by incorporating augmented reality on vehicle display units/windshields · By mixing virtual reality, reality, entertainment, and utility, AR and metaverse technologies offer new forms of recreation, resulting in an immersive and complete user experience

USE CASES

• Car drivers' experiences can be

• Brands can launch cars/concepts as NFTs and sell to customers through their Metaverse platforms Digital assets can be sold offering full/ fractionalized ownership

Tokenized car sales

TOKENIZED ASSETS

• Brands can provide incentives to their

 These may range from gifts, event invites, to exclusive brand-related services (e.g., program enrollments)

token holders with exclusive offerings

Token-based loyalty

programs

and utilities

KEY CONSIDERATIONS FOR

PLANNING RETURN

OEMS TO ADOPT METAVERSE



relationship-building and

interactions to strengthen platform engagement **DATA PRIVACY AND CYBERSECURITY** User identification and privacy

COMMERCIAL INFRASTRUCTURE Web 3.0 virtual world integrations with legacy traditional finance payment trails (e.g., credit cards, pay via bank). Evolution of virtual/cryptocurrencies and digital asset-backed

financing, leveraging

decentralized finance

DEFINING

BUSINESS MODEL

Building an online presence; mastering 2D models; focusing on the target audience; focusing on the experience; getting

comfortable with NFTs and

Cryptocurrencies

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Vikas Kumar

Ashish Sharma

Capgemini finvent

safeguards will be crucial for both interacting and transacting in the Metaverse

ON INVESTMENT OEMs need to begin by understanding their target

audience. They will want to create success metrics to measure their impact on