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METAPHYSICS OF THE VIRTUAL: FROM PLATO'S CAVE TO MODERN VR—QUESTIONING REALITY'S ESSENCE¹

Summary: Virtual Reality (VR) technology and its metaphysical implications pose critical questions concerning the nature of reality, a conundrum that has enthralled thinkers since Plato's epoch. Plato's allegory of the cave emphasized the world of forms over the shadowy illusions, emphasizing a layered reality. Contemporary VR challenges this stratification, bringing forth constructed realities that overlap, enhance, or even replace tangible experiences. Drawing upon a plethora of scholarly articles, this essay examines VR's metaphysical dimensions, juxtaposing ancient philosophical delineations of reality against the transformative implications of VR technologies.

Keywords: Virtual Reality, Plato's Cave, Metaphysics, Reality, Simulation, Digital Representation.

1. INTRODUCTION

The evolution of human thought, from primordial musings to sophisticated philosophical treatises, has always gravitated around one pivotal question: What is reality? Plato, the ancient Greek philosopher, conceived the allegory of the cave to illuminate the difference between appearances and reality, where chained prisoners mistook mere shadows for the entirety of existence (Plato, 380 BC). This allegory, while simple in its illustration, holds profound implications for understanding the metaphysical nature of reality, suggesting layers of existence from illusory shadows to enlightened forms. Fast forward to the present, and a new contender emerges in the form of Virtual Reality, challenging our entrenched ontological positions.

Virtual Reality is not merely a technological marvel; it's a medium that reconstructs sensory experiences, effectively blurring the boundaries between the tangible and the simulated. As Rheingold (1991) articulated, VR holds the potential to completely immerse its users, altering their perceptions and sense of self. Such transformative potential

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necessitates an in-depth examination of VR against ancient philosophical contemplations. Does VR merely replicate Plato's shadows, albeit in a more sophisticated guise, or does it offer insights into a newer, unprecedented realm of existence? The landscape of VR is multi-dimensional, encompassing the sensory, cognitive, and the metaphysical. However, one must understand that technology in itself isn't neutral; it's deeply entrenched in sociocultural, economic, and philosophical matrices. The advent of VR technology doesn't merely signify another consumer gadget but denotes a shift in the way we perceive, interpret, and even construct reality (Turkle, 1995). This technology-driven ontological shift isn't novel. Historical precedents, from the invention of the printing press to the rise of the internet, have invariably altered human experiences and perceptions of reality (Dreyfus, 2001). Yet, VR stands apart due to its immersive potential, enveloping users in a cocoon of constructed reality, often making it indistinguishable from physical reality (Steuer, 1992). With such immense transformative capabilities, VR reinvigorates the age-old philosophical debates surrounding the nature of reality. It's no longer merely about distinguishing the tangible from the intangible but discerning layers within these constructs. Virilio (1994) prophetically hinted at the emergence of such technology-driven perceptions, suggesting that technological advancements, especially in optics and visual representation, would redefine reality, leading to a 'vision machine' that dictates what we perceive as real.

2. MAIN CONSIDERATIONS

In diving deep into the metaphysical implications of VR, it becomes paramount to grapple with the foundational question that has occupied philosophers for millennia: What is reality? As Heim (1993) proposes, reality has often been perceived through various cultural and technological lenses, each modulating our understanding and engagement with the world around us. The Internet, for instance, introduced a decentralized virtual space that transformed communication and information access, altering our sense of time, space, and self (Dreyfus, 2001). VR, however, introduces a more radical alteration, immersing users in environments that not only replicate but occasionally surpass sensory experiences of the physical world (Slater & Wilbur, 1997). Tracing back to Plato's allegory of the cave, where the realm of forms represented an objective, unchanging reality and the shadows an illusory derivative, we find an unexpected resonance with our contemporary situation. VR, in its essence, projects a reality - but is it akin to the 'shadows' that Plato's prisoners observed, or does it tap into something deeper? Baudrillard (1981), with his concept of hyperreality, suggests that in our post-modern condition, simulations and reality are no longer distinguishable. Following this logic, VR could be viewed as the zenith of hyperreality, a space where distinctions between the real and the simulated implode. However, the realm of VR is not just about visual or auditory immersion; it encapsulates the entirety of human sensory perception. Riva, Waterworth, & Waterworth (2011) posit that presence in VR - the sense of being 'inside' the virtual world - is not just about technological fidelity but is deeply rooted in our biological and psychological makeup. They argue for a multi-layered presence: personal, physical, and social. Each layer, governed by distinct neurobiological mechanisms, shapes our experience in VR, ranging from a mere acknowledgment of being in a virtual

space to experiencing emotions and social interactions analogous to those in the physical world.

This profound ability of VR to affect our psychological and physiological state, to the point where it challenges our deeply held perceptions of reality, underscores its transformative potential. Varela, Maturana, & Uribe (1974) introduced the concept of autopoiesis, suggesting that living systems are self-organizing and continuously regenerate themselves. In a manner, VR environments can be viewed through the lens of autopoiesis, as they self-create and evolve, driven by both technological advancements and user interactions. Such an evolving, organic nature of VR further complicates its placement within our metaphysical understandings. One must also factor in the profound societal implications. As Zuboff (2019) critically highlights in her examination of surveillance capitalism, the digital age, especially with immersive technologies like VR, brings forth not only opportunities but challenges concerning privacy, agency, and autonomy. In a hyperreal VR world, who holds the reins of reality? Is it the tech conglomerates that design these realms, the users who populate them, or the intricate dance of algorithms that adapt and shape these environments?

Further complexities arise when examining VR's impact on identity and selfhood. Historically, philosophers from Descartes (1641) in his 'Meditations on First Philosophy' to Sartre (1943) in 'Being and Nothingness' have explored the intricacies of the self. Descartes' iconic assertion "I think, therefore I am" underscores consciousness as the cornerstone of existence. However, in the realm of VR, this conscious self is malleable. Users can not only assume alternate personas but can embody entirely different species, defy the laws of physics, and traverse impossible landscapes. Such a level of flexibility introduces a paradigm shift in our understanding of identity.

Turkle (1995) in "Life on the Screen" investigates the transformative journey of identity in the digital age. Her research underscores how individuals, even before the widespread adoption of VR, were already navigating fluid digital personas. These identities shaped and reshaped in real-time, challenge the traditional, somewhat linear notions of self. VR accentuates this fluidity. As users immerse themselves in these virtual realms, they're not just passive observers but active participants, constantly negotiating and renegotiating their virtual identities. This dynamism, while liberating, can also be disorienting. If our digital avatars can commandeer emotions, form relationships, and even sustain harm, to what extent are these experiences 'real'? And how do they modulate our understanding of our 'physical' self?

Merleau-Ponty (1945) in 'Phenomenology of Perception' posits that our body is not just an object among objects but is intertwined with our consciousness. It's through our bodily experiences that we engage with the world. Yet, VR challenges this body-consciousness nexus. With the advent of haptic feedback and sophisticated motion tracking, VR provides an embodied experience that often blurs the lines between physical sensations and digitally-induced stimuli. This interplay, as Heim (1993) suggests in 'The Metaphysics of Virtual Reality', is not just a technological marvel but a profound philosophical quandary. If our 'bodies' in VR can feel pain, pleasure, or the rush of adrenaline, how do these experiences factor into our phenomenological understanding of the self?

Another intriguing aspect to consider is VR's social dimension. While traditionally viewed as an isolating experience, modern VR platforms are increasingly becoming social hubs. Rheingold (1991) in 'Virtual Reality' touches upon the communal aspects of

VR. Virtual communities, where users interact, form relationships, and even participate in collective endeavours, underscore the evolving social dynamics of VR. But much like the internet, these virtual communities can be double-edged. While they offer a space for uninhibited expression, collaboration, and creativity, they can also harbor echo chambers, misinformation, and digital tribalism. The implications of VR extend beyond individual experiences and societal dynamics, reaching deep into the realms of economics, politics, and power dynamics. As Zuboff (2019) keenly observes in "The Age of Surveillance Capitalism", data is the new oil in the 21st century. VR, in its immersive nature, captures not just trivial data points but a plethora of intimate details about its users - from their deepest fears and most cherished dreams to physiological responses to virtual stimuli. These data-rich profiles can provide unprecedented insights into human behavior, psychology, and decision-making processes. The ethical considerations of such detailed surveillance cannot be understated. Beyond mere privacy concerns, there lies the threat of manipulating these virtual environments to sway opinions, moods, and even worldviews. The idea that one's virtual experiences can be tailored based on their digital profile raises concerns of autonomy, free will, and the very essence of human agency.

Descartes' (1641) philosophy underscores thinking as the essence of human existence. However, in a VR-dominated future, where external stimuli can be manipulated with precision, the sanctity of 'thought' becomes precarious. This is not just a philosophical or ethical dilemma but a tangible reality. Riva, Waterworth, & Waterworth (2011) in their study on "The layers of presence" detail how immersive VR experiences can evoke real physiological and psychological responses. When such responses can be predicted and modulated, the implications for targeted advertising, political campaigning, or even mood manipulation are both vast and concerning.

The societal structures and hierarchies in these virtual realms also warrant attention. On one hand, VR promises a democratized platform free from the biases and prejudices of the physical world. A place where one can shed their physical attributes and be judged solely based on their ideas, creativity, and virtual personas. However, Virilio (1994) in "The Vision Machine" postulates that every technological advancement brings with it its own set of disparities. While the digital divide in terms of access to technology is a recognized issue, the divide in terms of quality of virtual experiences, digital literacy, and the ability to navigate these virtual realms might emerge as significant socio-economic markers in the future.

Moreover, as these virtual spaces become venues for economic activities, commerce, and even governance, new paradigms of regulations, rights, and responsibilities will emerge. Steuer (1992) in his exploration of "Defining virtual reality" underscores the challenges in demarcating boundaries in these virtual realms. Property rights in VR, the concept of virtual crimes, and the very notion of digital ethics need to be redefined and understood in the light of these evolving realities.

The phenomenon of VR isn't limited to simulations and experiences; it's a nexus of human cognition, technological advancement, and metaphysical exploration. At the forefront of this discourse, the age-old question of epistemology resurfaces: How do we know what we know? And, in the context of VR, what is the nature of this knowledge? Heim (1993) in "The Metaphysics of Virtual Reality" suggests that our knowledge and experiences in virtual realms might be as 'real' as those in the physical world, challenging the conventional

dichotomies of knowledge validation. Furthermore, as Dreyfus (2001) posits in "On the Internet," our embodied interactions in the real world significantly influence our cognitive structures. So, when VR provides new modes of 'embodiment' (even if virtual), does it rewire our cognitive structures? And if so, to what end? These questions are particularly pertinent as VR applications expand into education, therapy, and training. If VR can accelerate learning or therapy processes by creating tailored, immersive experiences, we are looking at a potential revolution in how we understand pedagogy and therapy. However, this comes with its own set of challenges. Slater & Wilbur (1997) in their research on immersive virtual environments highlight the risk of 'dissociative experiences' where users might find it challenging to distinguish between their VR experiences and real-world memories. This can have profound implications, especially in therapeutic or educational settings.

Another pressing concern, as highlighted by Varela, Maturana, & Uribe (1974) in their seminal work on "Autopoiesis," is the nature of systems and entities that evolve within these virtual ecosystems. As VR worlds become more complex and dynamic, they may give rise to virtual organisms or systems that exhibit life-like characteristics. While still a theoretical consideration, it poses intriguing questions about life, consciousness, and the criteria we use to define these concepts. Rheingold (1991) in "Virtual Reality" suggests that as VR becomes a staple in our daily lives, we may see a shift in global culture and societal norms. The universality of VR experiences might foster a global culture, but it might also risk homogenizing diverse cultures and traditions. This cultural shift, coupled with the economic and political implications of VR, underscores the need for a multidisciplinary approach to understanding and navigating the future of virtual realities. In conclusion, as we venture deeper into the matrix of VR, we are not just exploring coded environments but delving into the very fabric of our existence, understanding, and perception. The metaphysical implications of VR, juxtaposed with Plato's allegory, bring to the fore the eternal human quest to understand reality. The lines between the tangible and intangible, real and virtual, known and unknown are continually shifting. And as we navigate this evolving landscape, the philosophical musings of the past provide a beacon, guiding our explorations and ensuring that in our quest for the virtual, we do not lose sight of the real.

3. CONCLUSION

As we stand on the cusp of a new era, the virtual frontier, powered by the dynamism of Virtual Reality (VR), has become emblematic of humanity's age-old pursuit of discerning the quintessence of reality. The allegory of Plato's Cave, once an exploration of perceived versus actual reality in an ancient context, today resonates with uncanny pertinence as we immerse ourselves in the multifaceted realms of VR.

The advent of VR isn't just a technological marvel or a new medium of entertainment; it's a philosophical, cognitive, and sociocultural paradigm shift. As Zuboff (2019) insightfully articulates in "The Age of Surveillance Capitalism," modern technology, particularly in domains like VR, has the potential to redefine our conceptions of identity, society, and even reality itself. Such transformations aren't devoid of consequences. On one hand, VR offers promise — the democratization of experiences, an enhancement in learning paradigms, therapeutic breakthroughs, and the forging of global communities. On the other, it raises

concerns — the erosion of traditional cultural matrices, potential cognitive dissonances, ethical quandaries, and the blurring of lines between the simulated and the authentic.

Drawing from Turkle's (1995) seminal work "Life on the Screen," the multifarious identities we assume in virtual realms underscore the fluidity of selfhood in the digital age. If our very self can be modulated, adapted, and reinvented in virtual spaces, it necessitates a reevaluation of identity constructs and how we perceive individuality in the broader fabric of society. This, in conjunction with Virilio's (1994) insights from "The Vision Machine," posits that our rapid technological advancements might be outpacing our ethical, philosophical, and sociological contemplations, leaving humanity grappling with challenges we might not yet be equipped to address.

The dialectical relationship between humanity and its tools is not new; each epoch has its defining technologies that reshape societal contours. However, the inception of Virtual Reality (VR) stands unparalleled due to its intrinsic capability to redefine not only external reality but also the inner sanctums of human consciousness. Descartes' (1641) monumental declaration in "Meditations on First Philosophy" — "I think, therefore I am" — becomes even more poignant. If our cognitive processes can be so profoundly affected by VR, does it not warrant an existential reevaluation of our place in this digital cosmos?

Steuer's (1992) work on defining virtual reality emphasizes the intricacies of telepresence and its implications for human cognition. As our senses are immersed in these simulated realities, the boundary between the self and the other becomes increasingly porous. This confluence of self, machine, and the virtual world offers both unparalleled opportunities and profound challenges. In Heim's (1993) "The Metaphysics of Virtual Reality," the potential spiritual and transcendental dimensions of VR are explored, underscoring its potential to be more than just a technological marvel — a space for profound personal and collective evolution.

Yet, with all its potential, caution is paramount. We must tread this uncharted terrain with a sense of responsibility, ensuring that our forays into the virtual do not detach us from the tangible, the real, and the human. After all, technology, no matter how advanced, is a means, not an end. It should amplify the human experience, not subvert it.

In essence, as we stand at the nexus of reality and virtuality, we are presented with a choice. We can either be passive recipients, allowing the currents of technological determinism to dictate our path, or active participants, shaping our virtual destinies with intent, ethics, and purpose. The tapestry of the virtual is still being woven, and we hold the threads. In the profound words of Plato, as we journey from the cave of shadows to the luminosity of digital realms, let us always seek the truth, ever reminding ourselves of the essence of what it means to be truly human.

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METAFIZIKA VIRTUELNOG: OD PLATONOVE PEĆINE DO MODERNE VR — ISPITIVANJE SUŠTINE STVARNOST

Sažetak: Tehnologija virtuelne stvarnosti (VR) i njene metafizičke implikacije postavljaju kritična pitanja u vezi sa prirodom stvarnosti, zagonetka koja oduševljava mislioce još od Platonove epohe. Platonova alegorija pećine isticala je svet oblika nad mračnim iluzijama, naglašavajući slojevitost stvarnosti. Savremena VR izaziva ovu stratifikaciju, donoseći konstruisanu stvarnost koja se preklapa, poboljšava ili čak zamenjuje opipljiva iskustva. Oslanjajući se na mnoštvo naučnih članaka, ovaj esej istražuje metafizičke dimenzije VR, suprotstavljajući drevna filozofska ocrtavanja stvarnosti sa transformativnim implikacijama VR tehnologija.

Ključne reči: virtuelna stvarnost, Platonova pećina, metafizika, stvarnost, simulacija, digitalno predstavljanje.