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Transhumanism, AI, and Global Business: Navigating the Intersection of Augmentation, Intelligence, and Enterprise

Dr. Kavita Sharma[1], Tarun Kumar Makhija[2]

[1,2]Selinus University, Italy

ABSTRACT

Transhumanism, rooted in the idea of transcending human limitations via technology, promises to reshape multiple facets of human existence. With the integration of Artificial Intelligence (AI), these transformations become even more profound, offering unparalleled opportunities and challenges. This paper delves into the implications of transhumanist technologies for global businesses, the evolving strategies in the face of such changes, and the pivotal role of AI in steering these transformations. Through exploring emerging markets, ethical paradigms, and potential workforce management challenges, this paper aims to shed light on how businesses worldwide can prepare for a future intertwined with transhumanism. The intertwined evolution of AI and transhumanism also beckons a new era of innovation, setting the stage for a futuristic global economy.

Keywords: Artificial Intelligence (AI),Cognitive Enhancement, Ethical Considerations,Global Business Strategy, Regulatory Adaptation, Socio-Economic Transformation,Transhumanism, Workforce Augmentation.

INTRODUCTION

Transhumanism stands on the precipice of integrating human and machine, blurring the lines between organic and synthetic. The inclusion of AI in this matrix compounds the potential trajectories, offering visions of a future where business, technology, and humanity converge in previously unimaginable ways.

From the augmentation of human capabilities to potentially achieving digital immortality, the realm of possibilities is vast. As we stand at the dawn of this new age, businesses must grapple with how these technological leaps will reshape industries, redefine work, and reconstruct societal norms. The challenge for global enterprises is not merely to adapt but to pioneer the harmonization of these rapidly evolving domains.

TRANSHUMANIST TECHNOLOGIES AND THEIR IMPLICATIONS

2.1 Genetic Engineering: The modern realm of genetic engineering is predominantly defined by CRISPR-Cas9 technology. This technology allows precise edits to DNA, enabling the alteration of specific genes in organisms, including humans.

Business Implications:

- **Health and Productivity:**A workforce that can be protected from certain hereditary diseases offers companies reduced healthcare costs and a more consistently available workforce. Additionally, potential enhancements in cognitive or physical abilities, while ethically controversial, could result in employees capable of exceptional productivity or problem-solving capabilities.
- **Customization and Ethical Concerns:**As genetic customization becomes possible, businesses may emerge offering 'designer babies' or enhancements. This brings forward a slew of ethical concerns: Would only the affluent have access? Would there be societal pressure to conform to certain genetic standards? And how would businesses navigate the divide between natural and genetically tailored employees?
- **Regulatory Challenges:**Different countries will have varying levels of acceptance and regulation concerning genetic engineering. Global businesses will need strategies to operate in regions with strict limitations while capitalizing on opportunities in more permissive areas.

2.2 Brain-Computer Interfaces (BCIs):BCIs are systems that facilitate a direct connection between the brain and external devices, such as computers.

Companies like Neuralink are pioneering efforts to establish this synergy, with aspirations ranging from treating neurological conditions to enhancing human cognition.

Business Implications:

- **Cognitive Enhancement and Task Efficiency:**With BCIs, employees might process information, analyze data, or even learn new skills at a significantly accelerated rate. This could redefine job roles and requirements, making certain tasks obsolete while highlighting the importance of others.
- **Emergence of BCI-Tailored Industries:**Just as smartphones gave rise to a multitude of app-based businesses, BCIs can pave the way for industries focused on brain-compatible software, neuromarketing, and more. This could usher in new sectors of the economy dedicated entirely to BCI tech.
- **Ethical and Privacy Concerns:**BCIs can, in theory, read and interpret thoughts or memories. This brings forth unparalleled privacy concerns. What if employers could access an employee's thoughts or memories? And how would businesses ensure that the intimate data collected remains private and secure?
- **Adaptation and Training:**The introduction of BCIs in the business world would necessitate significant training, both for those using the technology and for those working alongside it. It would be paramount for companies to provide resources and training to ensure smooth integration.

2.3 Augmentation: Human augmentation refers to the enhancement of the physical and cognitive abilities of humans through external or implanted devices.

From prosthetic limbs with added functionalities to wearable exoskeletons that allow for superhuman strength, augmentation is rapidly progressing.

Business Implications:

- **Physical Task Revolution:** Industries requiring manual labor could benefit immensely. For instance, a worker in an augmented exoskeleton suit might be able to lift heavy materials with ease, reducing the need for machinery or additional manpower.
- **Workplace Adaptations:** As augmented employees become commonplace, workplaces will need redesigning. Considerations would range from the physical (e.g., doors and corridors designed for enhanced humans) to the technical (e.g., interfaces that communicate with augmentation devices).
- **Societal and Ethical Issues:** Augmentation could lead to a societal divide between those who are augmented and those who are not. Businesses will have to address issues like potential bias or prejudice. Furthermore, companies offering augmentation services would need to navigate the ethical dilemmas of enhancement, including issues of consent, health risks, and more.

As transhumanist technologies continue their upward trajectory, they present both opportunities and challenges for global businesses. The implications span operational, ethical, societal, and regulatory domains.

Preparing for such a future necessitates foresight, adaptability, and a commitment to ethical considerations.

3. MARKET DYNAMICS AND STRATEGIC EVOLUTION

3.1 Emerging Markets: The rise of transhumanist technologies doesn't just imply adaptation for existing businesses - it also signifies the birth of entirely new markets.

Implications and Opportunities:

- **Custom Genomics and Personalized Medicine:**The advancements in genetic engineering lead to the creation of businesses focused on personalized medicine. With the ability to customize genes, the pharmaceutical and medical sectors can offer treatments tailored to an individual’s genetic makeup.
- **Augmentation Wearables:**Beyond medical necessities like prosthetics, the augmentation market could expand to include wearables for recreational or performance-enhancing purposes. This could range from exoskeletons for extreme sports to wearables that enhance sensory perception for specific professional tasks.
- **Neuro-software and BCI Apps:**With the proliferation of BCIs, a new software market is bound to emerge. This "neuro-software" would focus on creating apps and tools designed specifically for brain-computer interfacing, covering sectors like education, entertainment, productivity, and mental health.
- **Transhumanist Tourism and Recreation:**Just as we see health tourism today, the future might witness "augmentation tourism" where individuals travel to specific destinations to undergo advanced augmentation procedures, or even recreational experiences enhanced by BCI and other technologies.

3.2 Strategic Reorientation: With new technologies reshaping the landscape, businesses need to adjust their strategies, both in terms of internal operations and external market approach.

Strategic Considerations:

- **Adapting to Technological Progress:**Rapid technological advancements necessitate businesses to frequently update their technological infrastructures. R&D departments, in particular, need to be agile, pivoting based on the latest breakthroughs.
- **Redefining Human Resources:**As previously mentioned, the very definition of 'human resource' will evolve. HR departments will need strategies for recruiting a mix of unaugmented, augmented, and potentially AI-based workers. Job descriptions, performance metrics, and training modules will need revision.
- **Regulatory Compliance and Lobbying:**Different countries will have varied stances on transhumanist technologies. Businesses will have to not only comply with these regulations but may also find themselves in positions to lobby for favourable policies, especially if they're pioneering certain technologies.
- **Ethical Positioning:**A company's stance on ethical issues surrounding transhumanism can become a major brand differentiator. Companies will need to decide if they want to take a proactive stance, establishing themselves as thought leaders and advocates for responsible use, or if they'd prefer a reactive approach, waiting for societal norms to dictate the terms.
- **Consumer Education and Trust-Building:**Given the novelty and potential risks associated with transhumanist technologies, businesses will need to invest in consumer education. Ensuring the public understands the benefits, risks, and the measures taken to ensure safety will be crucial in building trust.

3.3 Preparing for Regulatory Changes: The transformative nature of transhumanist technologies means that they will undoubtedly catch the eye of regulators worldwide.

Navigating the Regulatory Landscape:

- **Anticipating Legislation:** Forward-thinking businesses should have teams dedicated to anticipating potential regulatory changes. This could involve liaising with legal experts, policymakers, and even ethicists.
- **Global Diversification:**A company heavily invested in a particular transhumanist technology might face challenges if their primary market enacts restrictive regulations. Hence, diversifying operations across multiple regions can act as a hedge against such scenarios.
- **Public Relations and Advocacy:** Companies can play a role in shaping the narrative around transhumanist technologies. Through PR campaigns, community outreach, and educational initiatives, businesses can address fears, debunk myths, and highlight potential benefits, indirectly influencing public opinion and, by extension, potential regulatory stances.

Apparently, the market dynamics resulting from the rise of transhumanist technologies are multifaceted. Beyond the direct implications for businesses, there's a broader societal shift in understanding and integrating these technologies. For global businesses, this era represents both unparalleled opportunities and intricate challenges. The strategic blueprint for success in this age will be defined by foresight, adaptability, ethical integrity, and an unwavering commitment to innovation.

ETHICAL QUANDARIES IN A TRANSHUMANIST BUSINESS WORLD

4.1 Augmented vs. Unaugmented Workers: The division between augmented and unaugmented workers will potentially create new dynamics in the workplace.

IMPLICATIONS AND CHALLENGES

- **Performance Disparity:** Augmented workers might have enhanced physical or cognitive abilities, leading to disparity in work output. How do businesses measure performance fairly in such a scenario?
- **Wage Structures:** Should augmented workers be paid more due to their enhanced capabilities, or will they be paid less as they could potentially replace multiple unaugmented workers?
- **Social Cohesion:** The workplace could witness divisions or even biases between the augmented and the unaugmented. Initiatives to foster unity and understanding will be crucial.

4.2 Training and Adaptation: Incorporating transhumanist technologies will necessitate new training methodologies.

Training Considerations:

- **Skill Augmentation:** For augmented employees, training might focus on maximizing the utility of their enhancements. For instance, an employee with a BCI might undergo training to better interface with digital systems.

- **Ethical Training:** Both augmented and unaugmented workers should undergo ethical training to understand the implications, rights, and responsibilities associated with augmentation.
- **Safety Protocols:** New technologies come with new risks. Employees will need training on the safe use of enhancements, especially in high-risk environments.

4.3 Mental Health and Well-being: Transhumanist technologies can have profound implications for mental health.

Mental Health Considerations:

- **Identity and Existential Concerns:** Being augmented might lead some individuals to grapple with questions about their identity or even existential dilemmas about humanity and machine.
- **Cognitive Overload:** Enhanced cognitive capabilities might result in information overload or decision fatigue, necessitating mental wellness programs to help employees cope.
- **Support Systems:** Businesses will need to establish support systems, possibly including counselors or psychologists specializing in the unique challenges faced by augmented individuals.

4.4 Integrating AI into the Workforce: The role of AI becomes pivotal in a transhumanist landscape.

AI Integration Aspects:

- **Collaboration Models:** Businesses need to establish models where AI systems and humans, whether augmented or not, work in synergy, capitalizing on each other's strengths.
- **Decision-making Dynamics:** Who gets the final say in decisions, especially in critical scenarios: AI or humans? Clear guidelines will be essential.
- **Ethical Frameworks:** With AI playing a larger role, businesses must have robust ethical frameworks for AI operation, especially in areas like data privacy, autonomy, and potential biases.
- **Training with AI:** Rather than traditional training, AI-driven systems might offer personalized, continuous learning experiences for employees, adapting to their pace and style.

In the evolving period of the transhuman era, managing a diverse workforce will require an intricate balance of technology, ethics, and human touch. Companies must be prepared to navigate these uncharted waters, with a deep understanding of the implications of each technological leap, fostering an environment of inclusion, growth, and mutual respect for both augmented and unaugmented individuals. The integration of AI further adds layers of complexity but also offers tools to help streamline and enhance this integration. The future of work will be as much about technology as it will be about preserving the essence of humanity in its midst.

MANAGING THE AUGMENTED WORKFORCE

5.1 Equitable Access to Transhumanist Technologies: With advancements come the risk of access disparities, leading to further socio-economic divides.

Ethical Implications:

- **Economic Disparities:** If only the affluent can afford enhancements, it risks creating a genetically or technologically enhanced elite, widening the socio-economic gap. How do businesses ensure their services or products don’t exacerbate existing inequalities?
- **Regional Disparities:** Certain regions may have better access to these technologies due to economic, regulatory, or technological hubs. This could lead to "transhumanist migration" where individuals move to regions offering advanced augmentation services.
- **Healthcare Integration:** Should certain augmentations, especially those that offer medical benefits, be integrated into public healthcare systems to ensure wider access?

5.2 Consent and Autonomy: Determining the boundaries of consent in the age of transhumanism is crucial.

Consent Challenges:

- **Informed Consent:** Given the potential irreversibility and life-altering nature of some enhancements, businesses must ensure customers or users are fully aware of the implications. But how do you ascertain true understanding in such complex matters?
- **Children and Augmentation:** If parents decide to augment their children, either before birth through genetic engineering or during their lifetime, what rights does the child have in this decision?

- **Corporate Pressure:** If certain augmentations improve job performance, there could be implicit or explicit pressure from employers to undergo such procedures. How do we ensure individual autonomy in such scenarios?

5.3 The Nature of Humanity and Self-Identity: With augmentation comes a philosophical and existential dilemma about what it means to be human.

Philosophical Considerations:

- **Defining Humanity:** If we integrate deeply with machines or alter our genetic code, at what point do we stop being human, if at all? And how do businesses respect and uphold human rights in such a blurred landscape?
- **Self-worth and Augmentation:** If one's abilities are significantly derived from augmentations, it might lead to questions about self-worth and achievement. How can businesses foster a sense of value and purpose in a world where machine-enhanced performance becomes the norm?
- **Mortality and Life Extension:** Some transhumanist technologies may aim at significantly extending life or even achieving a form of digital immortality. What are the ethical implications of potentially altering the human lifespan?

5.4 Data Privacy and Brain-Computer Interfaces (BCIs): With BCIs and similar technologies, the concept of privacy is taken to an entirely new frontier: the human mind.

Data Challenges:

- **Thought Privacy:** BCIs could potentially access and interpret thoughts or memories. What safeguards must businesses implement to prevent unauthorized access or misuse of such intimate data?
- **Data Ownership:** Who owns the data derived from an individual's brain? The individual, the company providing the BCI technology, or another entity? Establishing clear boundaries will be paramount.
- **Data Breaches:** Traditional data breaches are concerning enough. A breach involving neural data would be catastrophic. Businesses will need to invest significantly in security measures to prevent such occurrences.

The ethical landscape of transhumanism is vast, complex, and in many respects, uncharted. As we meld with technology, the very fabric of our morality is stretched and tested. Businesses, as key players in this transformation, have a profound responsibility. Not only must they navigate this terrain for their own operations, but they must also help society at large grapple with these issues. Ethical considerations will play a pivotal role in determining the acceptability, adoption, and integration of transhumanist technologies. Forward-thinking businesses must recognize that the future isn't just about profit, but about shaping the moral compass of a world where man and machine converge.

THE INDISPENSABLE ROLE OF AI

6.1 Synergy of Cognitive Augmentation and AI Systems: The fusion of AI with human cognitive enhancements presents opportunities for unparalleled intellectual capacities.

Synergetic Dynamics:

- **Amplified Cognition:** Brain-computer interfaces (BCIs) working in tandem with AI could amplify human analytical capacities, allowing for complex problem-solving in real-time.
- **AI-assisted Decision Making:** With BCIs, AI can provide real-time data-driven insights directly to an individual's cognitive processes, refining decision-making in dynamic business scenarios.
- **Seamless Workflow Integration:** Cognitive augmentation can ensure more efficient interfacing between humans and AI in business operations, creating seamless workflows and reducing decision-making bottlenecks.

6.2 Redefining Business Models with AI-driven Augmentation:AI's predictive analytics combined with human intuition, especially in an augmented state, can redefine traditional business models.

Model Transformations:

- **Hyper-personalized Services:** By leveraging insights from both AI and human cognition, businesses can provide hyper-personalized services or products tailored to individual needs.
- **Adaptive Business Strategies:** With AI's data prowess and human intuition, companies can craft business strategies that dynamically adapt to market changes.

- **Enhanced Creativity and Innovation:**The union of AI-driven data insights and enhanced human creativity can lead to groundbreaking innovations in product design, service provision, and overall business strategy.

6.3 Addressing Ethical Implications of AI and Augmentation: The integration of AI in transhumanism accentuates existing ethical dilemmas and introduces new ones.

Ethical Nuances:

- **Decision Accountability:** In a scenario where decisions are influenced by both AI and human cognition, determining accountability can be complex. What happens when an error occurs? Who or what is responsible?
- **Bias and Fairness:** AI models can inherit biases present in their training data. If these models influence human decision-making directly via BCIs, they could amplify systemic biases. Addressing this requires rigorous AI training and ethical oversight.
- **Mental Sovereignty:** If AI systems can suggest or influence thoughts via BCIs, where does one draw the line to ensure mental sovereignty? Businesses must establish clear boundaries to protect individual autonomy.

6.4 AI as a Business Consultant for Augmented Workforces: The use of AI as a strategic consultant for businesses employing augmented individuals can lead to unprecedented growth trajectories.

Consultative Innovations:

- **Skill Optimization:** AI can analyse the unique capabilities of each augmented worker and recommend roles or tasks that maximize their potential.
- **Dynamic Task Allocation:** AI can dynamically allocate tasks in real-time based on the augmented workforce's capabilities, optimizing productivity.
- **Continuous Learning Systems:** AI can curate personalized learning and training regimens for augmented employees, ensuring continuous skill enhancement.

Navigating the intertwined realms of AI and transhumanism is like venturing into a new frontier of business evolution. While the possibilities are boundless, so are the challenges. Global businesses, at this crossroads, have the monumental task of not just integrating these technologies but doing so responsibly. As AI augments the already enhanced capabilities of transhuman individuals, businesses must ensure they're grounded in ethical integrity, pushing the boundaries of innovation while respecting the sanctity of human agency. The confluence of AI and transhumanism, if channelled judiciously, can herald an era where businesses don't just thrive, but elevate humanity to new realms of potential.

SOCIO-ECONOMIC CHANGES AND BUSINESS ADAPTATIONS IN THE AGE OF AI-DRIVEN TRANSHUMANISM

7.1 The Redefinition of Work and Employment:

Emerging Dynamics:

- **Shift from Manual to Cognitive Labor:** As physical augmentations become common, businesses may prioritize tasks requiring unique human cognition, even as AI augments this area.
- **Freelance and Gig Economies:** Augmented individuals, with enhanced capabilities, might opt for more flexible work structures, pushing businesses toward a model where work is project-based rather than role-based.
- **New Job Categories:** Augmented reality designers, neural interface engineers, AI-human collaboration managers, and augmentation health specialists could be potential job roles of the future.

7.2 Evolution of Global Markets:

Market Transformations:

- **Augmentation Tourism:** Just as medical tourism is prevalent today, augmentation tourism might emerge, with individuals traveling to countries offering cutting-edge augmentation services at competitive prices.
- **AI-driven Consumer Insights:** As AI integrates with transhumanist technologies, there’s potential for deeper consumer insights, leading to markets evolving based on real-time demand fluctuations.
- **Sustainability and Ethical Markets:** The ethical considerations surrounding AI and transhumanism might give rise to markets that prioritize sustainable and ethically developed products and services.

7.3 The Changing Landscape of Education and Continuous Learning:

Educational Adaptations:

- **Customized Learning Pathways:** With BCIs and cognitive augmentations, traditional one-size-fits-all education might become obsolete. AI-driven platforms could curate personalized learning experiences, adjusting in real-time to an individual's pace and interests.
- **Ethics and Philosophy Emphasis:** As technology blurs the lines of what it means to be human, curricula worldwide might introduce more courses on ethics, philosophy, and the human experience in the context of AI and transhumanism.
- **Augmentation Skill Training:** Institutions might introduce courses to train individuals in using their augmentations effectively, both in daily life and professional settings.

7.4 Social Structures and Transhumanism:

Societal Implications:

- **Augmented Communities:** Special communities or hubs might emerge, catering specifically to the needs and preferences of augmented individuals, much like how tech hubs exist today.
- **Regulatory Challenges:** Governments might need to introduce new regulations or amend existing ones to address the unique challenges posed by augmented individuals and AI-driven systems.
- **Cultural Shifts:** As a significant portion of the population becomes augmented, cultural norms, values, and even art forms might evolve, reflecting the blended nature of human and machine.

The socio-economic fabric of our global society is intricately linked to technological advancements. AI-driven transhumanism isn't just about enhancing individuals; it's about reshaping the very structures and systems that hold our societies together. Businesses, as both drivers and beneficiaries of this change, have a pivotal role to play. Embracing this change requires more than just technological adaptation; it necessitates a deeper understanding of humanity's evolving place in this new world order.

CONCLUSION

In the confluence of transhumanism and artificial intelligence, we stand on the precipice of a new era, one characterized by blurred boundaries between the biological and the technological, between innate abilities and enhanced capabilities. The evolution of global businesses in this milieu is inevitable, but the trajectory of this evolution lies in our collective choices.

From the potential market revolutions to the transformation of workforce dynamics, the landscape of international business is set to undergo seismic shifts. As we saw, the integration of transhumanist technologies promises unparalleled opportunities, from creating new market niches to redefining the very essence of productivity and collaboration. Yet, with these advancements come profound ethical quandaries, urging businesses to introspect on issues of equitable access, autonomy, identity, and the sanctity of the human experience. AI, as a potent ally in this journey, presents its own set of challenges and prospects. The synergy of AI with transhumanist endeavours can catalyse innovations, redefine business models, and foster an environment of continuous growth. Nevertheless, the ethical implications and socio-economic ripples resulting from this synergy demand rigorous scrutiny and proactive interventions.

The global socio-economic changes foreshadowed by the marriage of AI and transhumanism offer a glimpse into a future that's both exhilarating and daunting. While the promise of augmented communities, AI-driven consumer insights, and customized learning pathways is enticing, the imminent shifts in cultural norms, regulations, and social structures necessitate forethought and adaptability. In navigating this complex landscape, global businesses bear the dual responsibility of spearheading advancements and ensuring that the essence of humanity is preserved and celebrated. It is not just about integrating technology but integrating it with wisdom, empathy, and foresight.

As we transcend our biological limitations and embrace a future intertwined with machines, our true north should be a harmonious coexistence, where technological advancements uplift humanity, enrich cultures, and foster global solidarity. The age of AI and transhumanism beckons not just a new chapter in business and innovation but a renaissance of human values, ethics, and aspirations. The canvas is vast, and the palette rich with possibilities; the masterpiece we create will reflect our shared vision, hopes, and dreams for a future where humanity and technology flourish together.

REFERENCES

[1]. Abraham, M. (2020, September 15). Augmented reality is already improving worker performance. Harvard Business Review. https://hbr.org/2017/03/augmented-reality-is-already-improving-worker-performance
[2]. Becerra, I. (2024, April 5). Building an ethical work culture for the age of AI. Forbes. https://www.forbes.com/sites/forbesbusinesscouncil/2024/04/04/building-an-ethical-work-culture-for-the-age-of-ai/?sh=3182afcd11c2
[3]. Biber, S. E., & Capasso, M. (2022). The right to mental integrity in the age of Artificial intelligence: Cognitive Human Enhancement Technologies. In Information technology & law series (pp. 503–519). https://doi.org/10.1007/978-94-6265-523-2_25
[4]. Brittain, H. K., Scott, R., & Thomas, E. (2017, December). The rise of the genome and personalised medicine. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6297695/
[5]. Call for chapters: Ethical Quandaries in Business Practices: Exploring Morality and Social Responsibility | IGI Global. (n.d.). https://www.igi-global.com/publish/call-for-papers/call-details/7212
[6]. Daniel, S. (2022, December). The Impact of Artificial Intelligence on employment and workforce Dynamics in contemporary Society Author(s). https://www.researchgate.net/publication/376795973_The_Impact_of_Artificial_Intelligence_on_Employment_and_Workforce_Dynamics_in_Contemporary_Society_Authors
[7]. Holm, J. R., Hain, D. S., Jurowetzki, R., & Lorenz, E. (2023). Innovation dynamics in the age of artificial intelligence: introduction to the special issue. Industry and Innovation, 30(9), 1141–1155. https://doi.org/10.1080/13662716.2023.2272724
[8]. https://blog.workday.com/en-us/authors/blaise-radley.html. (2024, February 20). Using AI to empower an augmented workforce. Workday Blog. https://blog.workday.com/en-us/2024/using-ai-empower-augmented-workforce.html
[9]. Karaman, F. (2021). Ethical issues in transhumanism. In IGI Global eBooks (pp. 122–139). https://doi.org/10.4018/978-1-7998-8050-9.ch007
[10]. Maiseli, B., Abdalla, A. T., Massawe, L. V., Mbise, M., Mkocha, K., Nassor, N. A., Ismail, M., James, M., &Kimambo, S. (2023). Brain–computer interface: trend, challenges, and threats. Brain Informatics, 10(1). https://doi.org/10.1186/s40708-023-00199-3
[11]. Max. (2023a, November 29). The Revolutionary Role of Transhumanism in Shaping the Future of Therapy | Exoskeletons today. Gruenderfuchs. https://exoskeletonrevolution.com/en/exoskeleton/transhumanism-and-the-future-of-therapy/
[12]. Max. (2023b, December 17). Unlocking the Future: Transhumanism's Impact on Enhanced Learning and Cognitive Evolution |. Gruenderfuchs. https://exoskeletonrevolution.com/en/exoskeleton/transhumanism-and-the-quest-for-enhanced-learning/
[13]. McCausland, T. (2023). Ethics in innovation. Research-Technology Management, 66(6), 52–54. https://doi.org/10.1080/08956308.2023.2257107
[14]. Measuring worker's performance in augmented reality-assisted industry 4.0 procedures. (2020, May 1). IEEE Conference Publication | IEEE Xplore. https://ieeexplore.ieee.org/document/9129320/
[15]. Menzies, J., Sabert, B., Hassan, R., & Mensah, P. K. (2024). Artificial intelligence for international business: Its use, challenges, and suggestions for future research and practice. Thunderbird International Business Review. https://doi.org/10.1002/tie.22370
[16]. Miller, J. (2023, May 18). Eugenics, transhumanism, and artificial intelligence. Mind Matters. https://mindmatters.ai/2022/01/eugenics-transhumanism-and-artificial-intelligence/
[17]. Minevich, M. (2024, January 30). From Davos to Dominance: How AI is rewriting our planet and business. Forbes. https://www.forbes.com/sites/markminevich/2024/01/28/from-davos-to-dominance-how-ai-is-rewriting-our-planet-and-business/?sh=41257c4b45d7
[18]. Newburry, W., Rašković, M., Çolakoğlu, S., González-Pérez, M. A., &Minbaeva, D. (2022). Diversity, Equity and Inclusion in International Business: Dimensions and challenges. AIB Insights, 22(3). https://doi.org/10.46697/001c.36582
[19]. Redmond, D. (2024, March 18). Augmented reality to fuel the future of the workplace. SocialTalent. https://www.socialtalent.com/blog/technology/augmented-reality-fuel-future-workplace
[20]. Redondo, S. G., Higuera, C. J. R., Coca, J. R., & Olteanu, A. (2024). Transhumanism, Society and Education: An Edusemiotic approach. Studies in Philosophy and Education. https://doi.org/10.1007/s11217-024-09927-6
[21]. Roy, K. (2023a, October 21). Staff Augmentation in Business- How Augmented Teams are Revolutionizing Decision-Making. Medium. https://medium.com/@kavika.roy/staff-augmentation-in-business-how-augmented-teams-are-revolutionizing-decision-making-47dcb799996e
[22]. Roy, K. (2023b, October 29). Data Ethics in IT Staff augmentation: Navigating the ethical landscape in augmented business teams. Medium. https://medium.com/datatobiz/data-ethics-in-it-staff-augmentation-navigating-the-ethical-landscape-in-augmented-business-teams-24b0a58e8b17

[23]. Seydel, C. (2023). Personalized medicine is having its day. Nature Biotechnology, 41(4), 441–446. https://doi.org/10.1038/s41587-023-01724-9
[24]. SQ11. How has AI impacted socioeconomic relationships? (n.d.). One Hundred Year Study on Artificial Intelligence (AI100). https://ai100.stanford.edu/gathering-strength-gathering-storms-one-hundred-year-study-artificial-intelligence-ai100-2021-1-1
[25]. Steyvers, M., & Kumar, A. (2023). Three challenges for AI-Assisted Decision-Making. Perspectives on Psychological Science (Print). https://doi.org/10.1177/17456916231181102
[26]. Todd, S. (2021, August 26). Why social cohesion matters in managing a hybrid workforce. Open Sourced Workplace. https://opensourcedworkplace.com/news/why-social-cohesion-matters-in-managing-a-hybrid-workforce
[27]. Wealth, M. (2023, August 21). The benefits and advantages of global diversification. Mission Wealth. https://missionwealth.com/the-benefits-and-advantages-of-global-diversification/
[28]. What are business ethics & why are they important? | HBS Online. (2023, July 27). Business Insights Blog. https://online.hbs.edu/blog/post/business-ethics
[29]. What is transhumanism and how does it affect you? (2020, February 7). World Economic Forum. https://www.weforum.org/agenda/2018/04/transhumanism-advances-in-technology-could-already-put-evolution-into-hyperdrive-but-should-they/
[30]. Zhang, X., Ma, Z., Zheng, H., Li, T., Chen, K., Wang, X., Liu, C., Xu, L., Wu, X., Lin, D., & Lin, H. (2020). The combination of brain-computer interfaces and artificial intelligence: applications and challenges. Annals of Translational Medicine (Print), 8(11), 712. https://doi.org/10.21037/atm.2019.11.109