Predictive Analysis of a Jobless Society and Future Human Life Comfortability based on AI-Driven Super Intelligent Machines

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ABSTRACT

Purpose: To explore the transformative potential of AI-driven super-intelligent machines in ensuring future human life comfort by enabling fully automated systems of production and distribution. It evaluates the feasibility of government-implemented Total Automation Models, where goods and services are produced and distributed without cost to individuals. The study analyzes how such costless provisioning can be achieved through continuous, intelligent optimization, and examines the broader implications of this paradigm shift for human purpose, governance structures, and global equity in a post-scarcity, technologically governed society. **Methodology:** In this paper, the exploratory qualitative research method is used. The relevant information is collected using keyword-based search in Google search engine, Google Scholar search engine, and AI-driven GPTs. This information is analysed and interpreted as per the objectives of the paper.

Analysis & Discussion: The article presents a comprehensive evaluation of the proposed model of Total Automation Economy, examining its feasibility, implications, and potential societal transformations. It employs the SWOC (Strengths, Weaknesses, Opportunities, Challenges) and ABCD (Advantages, Benefits, Constraints, Disadvantages) analytical frameworks to assess the multidimensional impacts of AI-driven super-intelligent systems. The discussion highlights how such systems can automate resource procurement, production, and distribution to achieve universal comfortability, while also recognizing ethical dilemmas, governance challenges, and technological limitations. The section emphasizes the transformative potential of this model in redefining human identity and purpose in a jobless society, and suggests implementation through interdisciplinary collaboration, sustainable practices, and ethically guided AI frameworks.

Originality & Value: This paper presents an original theoretical framework by integrating the concept of a jobless society with the Total Automation Economy driven by AI-powered superintelligent machines. Unlike existing literature focused narrowly on job displacement or automation risks, this study uniquely envisions a post-scarcity model where governments provide universal comfort, fulfilling needs, wants, and desires, without economic transactions. The value of this research lies in its multidisciplinary fusion of technology, economics, ethics, and governance, offering a futuristic blueprint that challenges conventional paradigms of labour, wealth distribution, and human purpose. It opens new directions for academic exploration and policy formulation in the age of AI-led societal transformation.

Type of Paper: Exploratory Qualitative Review-based Analysis

Keywords: AI-Driven Automation, Jobless Society, Future Human Comfortability, Super-Intelligent Machines, Post-Scarcity Economy, Ethical AI Governance, SWOC analysis, ABCD analysis from stakeholders' perspective

1. INTRODUCTION:

1.1 Background: Rise of AI and the Emergence of Super-intelligent Machines:

The field of artificial intelligence (AI) has undergone a profound transformation over the past decade, transitioning from narrow, task-specific systems to increasingly autonomous and powerful models capable of human-like cognition and learning. According to Haenlein and Kaplan (2019) [1], AI,

defined as machines that correctly interpret external data, learn from it, and apply this knowledge adaptively, has evolved rapidly since the advent of deep learning, transforming industries and public life. Breakthroughs in architectures like the transformer (e.g., GPT-4) have accelerated this evolution, introducing emergent intelligence and ushering in what many experts now consider the start of the Age of Artificial Intelligence. The pace of innovation is staggering: Kayyali (2025). [2] found that in 2019 alone, deep-learning preprints were being published every 0.87 hours, over a thousand times the volume from the early 1990s.

As AI systems proliferate in domains traditionally reserved for human intellect—from autonomous vehicles and financial decision-making to creative content generation—they are converging on Artificial General Intelligence (AGI) and beyond toward superintelligence, defined as an intelligence vastly superior to human capabilities in nearly all areas. Peters (2025) [3] highlights growing academic concern regarding the societal and ethical implications of such superintelligent systems, ranging from global security threats to shifts in labour markets. Meanwhile, Pueyo (2019) [4] posits that the emergence of superintelligence necessitates a radical reevaluation of current socioeconomic systems, particularly in how humans derive purpose and meaning when machines can outpace us in productivity. A central economic and social consequence of advancing AI capabilities is the erosion of traditional employment opportunities. Studies show that, over the next few decades, AI will likely surpass human performance in diverse fields, including writing, transportation, and surgery. This raises the specter of a jobless society, where human labour is no longer essential for meeting collective needs. Yet, as scholars like Bostrom (2024) [5] suggest, this challenge may also present an opportunity to redefine human value beyond work, enabling societies to pursue leisure, creativity, and wellbeing, provided that governments responsibly manage transitions to fully automated production and distribution systems. Understanding this paradigm—one where AI-driven super-intelligent machines secure universal comfort without traditional employment—is central to preparing for a future that is both economically equitable and technologically sustainable (Grace (2017). [6]).

1.2 Definition of "Future Human Life Comfortability":

In the context of an AI-driven, automated society, "Future Human Life Comfortability" refers to a multidimensional construct encompassing the physical, psychological, and existential well-being of individuals living in environments where intelligent machines shoulder essential production and service functions. Central to this concept is the idea of *user comfortability* with AI systems—rooted in empirical findings that highlight the importance of autonomy and data privacy as critical drivers of user comfort when interacting with intelligent, intent-predicting technologies (Wang et al., 2023 [7]). In such a future society, comfortability extends beyond mere transactional efficiency to include feelings of control, trust, and emotional reassurance offered by intelligent systems that serve human needs seamlessly and unobtrusively.

Moreover, comfortability involves psychological dimensions such as emotional well-being, sense of purpose, and social connection in the face of widespread automation. Studies on AI-driven mental health support suggest that humans can derive significant psychological benefits, such as reduced isolation and stress relief, from empathetic, AI-mediated interfaces that offer unconditional presence and responsive care (MethodiaWeb, 2025 [8]; Hamada & Kanai, 2022 [9]). In a future where machines automate not only tasks but also emotional and social support, comfortability implies that people can maintain a sense of belonging and psychological fulfillment through quality human-AI interactions. Finally, comfortability must address existential well-being in a world where traditional work loses primacy. The concept aligns with emerging discussions on post-scarcity societies, where an abundance of resources could paradoxically lead to existential vacuums if human purpose and meaning are neglected (Del Valle, 2025). [10] Consequently, defining "Future Human Life Comfortability" also entails ensuring intellectual and creative engagement, where individuals pursue personal fulfillment,

community contribution, and lifelong growth, with AI systems functioning as enablers rather than replacements. In sum, in a jobless, automated world, comfortability will be measured not only by the

1.3 Problem statement: Declining role of human labour, post-scarcity economics, and total automation:

The acceleration of AI-driven automation has precipitated a sharp reduction in the need for human labour, as machines increasingly replicate both routine and complex cognitive tasks. Studies such as Acemoglu and Restrepo (2019) [11] reveal that automation directly displaces human work, and while new tasks emerge, the pace of automation often outstrips labour market adjustments, leading to rising unemployment and skill mismatches.

Skarns of mortality in once-stable clerical and manufacturing roles signal a troubling transition toward a *jobless society*, where the societal contract based on labour and wage exchange begins to crumble. The speed and scale of this disruption are compounded by task-based models indicating that AI, unlike past technologies, threatens both low- and high-skill occupations, widening socio-economic disparities in its wake (Bloom (2025). [12]).

Concurrently, the concept of *post-scarcity economics*, once relegated to theoretical futurism, has gained traction, with forecasts suggesting that AI-driven abundance could theoretically meet basic human needs. LinkedIn contributors and industry thinkers advocate that highly advanced automation has the capacity to eliminate traditional supply constraints, leading to near-zero cost goods and services (Del Valle). (2025). [13]).

However, even as productivity soars, commentators like Korinek warn that without equitable redistribution frameworks, such abundance may benefit a privileged few while marginalizing the masses. This paradox—abundance paired with inequity—underscores the inadequacy of existing economic models in managing a future dominated by super-intelligent machines (Korinek & Suh (2024). [14]).

At the societal level, the cascading effects of total automation require urgent rethinking of governance, labour policy, and human purpose. IMF reviews highlight a critical need for new economic frameworks that center well-being over employment, acknowledging that AI may redefine job structures or render them obsolete (IMF. (2024). [15]). Simultaneously, futurists caution that without social planning—including universal basic provisioning or new forms of civic contribution—societies may suffer due to poverty despite material abundance (Frey & Osborne (2013). [16]; Sargent (2025). 17]). Thus, the central problem avant-garde: how can future societies ensure *comfort* when human labour is dethroned, yet human purpose and equity must remain central?

1.4 Purpose and scope of the paper:

The primary purpose of this study is to conceptualize **"Future Human Life Comfortability"** within an increasingly automated, post-scarcity world shaped by AI-driven super-intelligent machines. This involves exploring how comfortability transcends mere physical sufficiency to include psychological well-being, autonomy, and purposeful engagement in a society where human labour becomes optional. By investigating the roles of trust, emotional affirmation, and creative fulfillment—as highlighted in user-comfort studies and mental-health AI applications—this research seeks to define the dimensions of comfort in human-AI coexistence (Wang et al., 2023 [18]; Hamada & Kanai, 2022 [19]).

Moreover, the paper evaluates the feasibility and broader implications of **government-led Total Automation Models** that enable the costless production and distribution of goods and services. Through a detailed analysis of automated systems in industry, agriculture, and service sectors, it examines how AI governance can operationalize universal provisioning. The study further investigates the economic and social ramifications of such models—ranging from equitable resource access to shifts in governance—by applying strategic frameworks like SWOC and ABCD and proposing policy innovation, public—private partnerships, and ethical frameworks to guide the transition toward AI-enabled comfort (Moleka, 2025 [20]; Cate, 2025 [21]; Pieri, 2021[22]).

2. TRANSFORMATIVE POSSIBILITIES FOR INDUSTRY AND SOCIETY:

2.1 Exploration of Jobless Societies and Economic Restructuring:

The swift diffusion of advanced automation has invigorated long-standing debates on technological unemployment, with recent empirical work confirming that the *displacement effect* of AI now reaches well beyond routine factory jobs into high-skill cognitive occupations. Acemoglu and Restrepo's task-content decomposition shows that the U.S. labour-share decline of the past three decades is largely attributable to an acceleration of automation that substitutes capital for labour in existing tasks, while

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new, labour-intensive tasks have emerged too slowly to offset the losses (Acemoglu & Restrepo (2019). [23]). Complementing this evidence, Frey and Osborne estimate that roughly 47 percent of U.S. employment is susceptible to computerisation, implying structural rather than cyclical labour-market disruption as AI systems acquire ever-broader capabilities (Frey & Osborne (2017). [24]).

Against this backdrop, scholars have revived the post-scarcity thesis: the idea that highly productive, AI-driven economies can supply basic necessities and many discretionary goods at near-zero marginal cost. Tan (2025) [25] argues that while abundance could, in principle, eliminate material deprivation, it simultaneously jeopardises income-based distribution mechanisms, demanding new fiscal architectures such as universal basic income (UBI) or universal basic access (UBA) to ensure equitable consumption. Early simulations in *Technology in Society* suggest that without such reforms, large productivity gains translate into greater wealth concentration rather than broad-based welfare improvements (Spencer (2023). [26]). Economic-policy research, therefore, emphasises proactive restructuring to navigate the transition from labour-centred to capital-centred value creation. An IMF working-paper series on AI adoption warns that current tax and transfer regimes remain ill-equipped to recycle automation rents back to displaced workers, recommending sovereign data trusts and robot dividends as interim measures (Korinek & Stiglitz (2019). [27]). Parallel commentary highlights up-skilling and public investment in *purpose infrastructure*—educational, cultural, and civic institutions that preserve meaning and engagement when paid work contracts—thereby re-anchoring social cohesion in a job-light economy (Goffey (2019). [28]).

Finally, sociologists point to the psychosocial risks of a "jobless comfort trap," where material sufficiency masks loss of status and purpose. Analyses of automation anxieties reveal that popular support for radical redistributive schemes rises in sectors facing the steepest task automobility, yet scepticism persists over whether government or corporate actors can deploy total automation ethically and inclusively (Kelly (2023). [29]). Designing institutions that harness Al's productive bounty while safeguarding dignity and agency thus emerges as the central challenge of economic restructuring in the age of super-intelligent machines.

2.2 Impact of AI and Total Automation on Various Industries:

In **manufacturing**, AI-powered automation is driving a profound transformation, ushering in the era of "smart factories." Self-configuring production lines leverage machine learning, IoT, and advanced robotics to enhance efficiency, precision, and customization (Wan et al., 2021 [30]). High-value, small-batch production is now achievable with systems that dynamically adjust to demand fluctuations. Additionally, predictive maintenance—powered by AI algorithms analyzing sensor data—can reduce equipment downtime by up to 70%, lowering costs by 12–30% (Turn0search28) and driving significant productivity gains across global supply chains (Nelson, Biddle, & Shapira, 2023 [31]). While these innovations enhance competitiveness, they also risk displacing traditional manufacturing roles and necessitate reskilling initiatives (Kovalenko et al., 2023 [32]).

In the **agricultural** sector, AI and automation are redefining traditional farming practices. Precision agriculture combines robotics, drone imagery, and sensor networks with AI analytics to optimize field operations, such as irrigation, seeding, and pest control, reducing waste and improving yield resilience. Autonomous tractors and weeding robots now operate with minimal human supervision, while AI-driven systems predict pest outbreaks and nutrient needs (Mahibha & Balasubramanian, 2023 [33]). These advances bolster food security but also introduce challenges, including technological access disparities among smallholder farmers and concerns about data privacy (Jahanara Akter et al., 2024 [34]).

In **food manufacturing**, AI has streamlined production processes through intelligent quality control, demand forecasting, and supply chain optimization. Applications range from real-time safety testing to AI-based maintenance planning, significantly reducing food waste and enhancing product consistency (Chhetri, (2024). [35]). Studies indicate that AI implementation in food firms not only improves total factor productivity but also shifts workforce skill demands, prompting a move from manual tasks toward analytical and supervisory roles (Wired (2019), [36]). Despite such benefits, ethical risks, such as algorithmic bias and workforce displacement, must be carefully managed through regulatory and governance frameworks.

When it comes to service industries, AI is automating both front-office and back-office tasks. Technologies like Robotic Process Automation (RPA) and Natural Language Processing (NLP), as seen

in chatbots and voice assistants, now handle up to 80% of customer enquiries with high satisfaction rates. Moreover, AI is enhancing workplace safety and human well-being by monitoring fatigue, managing hazardous tasks, and providing ergonomic insights (Wikipedia, 2025 [37]). Yet, concerns remain regarding algorithmic transparency, pervasive surveillance, and the displacement of low- and mid-skill service sector roles. Balancing automation with human-centric governance is thus vital for equitable and sustainable societal integration.

2.3 Social transitions: From employment-based identity to purpose-driven living:

The transition toward a jobless society propelled by AI and total automation fundamentally challenges traditional notions of identity, which have long been anchored in employment. In a "post-work" society, where economic roles of labour are diminished or non-existent, traditional markers of self-worth and personal value shift dramatically (Wikipedia, 2025 [38]). Individuals may find themselves struggling with a loss of purpose, especially in cultures where work is not only a means of livelihood but a principal source of meaning and social status. As the question "What do you do?" loses relevance, societies must reconceptualize identity beyond professional roles.

Psychological research on the crisis of purpose in post-work contexts highlights deep-seated challenges tied to employment displacement—many people derive their sense of self and routine from work (Medium, 2025) [39]. Without alternative frameworks, individuals may face an increased risk of depression, anxiety, and existential dissatisfaction. This potential void underscores the urgency of cultivating alternative identity anchors, such as community engagement, creative pursuits, education, and civic participation. Initiatives like passion projects, lifelong learning, and citizen-science programs may play crucial roles in building robust, non-economic identities.

Sociologically, the notion of a post-work society invites deliberation over the collective values and structures that will substitute for employment-based identity. As highlighted by Pitts (2018) [40], dismantling the centrality of paid work raises profound questions about societal organization, including power dynamics, wealth distribution, and social cohesion. Successful transformation requires reconceptualizing purpose—from labour-centric to a broader definition that balances individual autonomy with communal belonging. This might take the form of restructured time use, civic work, or community stewardship.

Philosophical and ethical critiques reinforce that meaningful work remains central to self-esteem and social integration, even in a job-reduced world. Postscarcus analyses caution against neglecting human desires for contribution and recognition (Deranty (2022). [41]. Thus, designing a future society must go hand in hand with establishing systems, such as universal basic access, purpose-driven communities, and creativity hubs, that provide individuals with meaningful pursuits and maintain psychological well-being in an era beyond traditional work.

2.4 Concept of Universal Basic Access (UBA) over Universal Basic Income (UBI):

Concept of Universal Basic Access (UBA) vs. Universal Basic Income (UBI):

In the wake of AI-driven automation and increasing technological displacement, the notion of Universal Basic Income (UBI), a recurring, unconditional cash transfer to all citizens, has gained renewed attention as a means to address poverty, inequality, and structural unemployment. Backed by empirical pilots worldwide, UBI has demonstrated short-term improvements in financial security and mental well-being (Hasdell, (2020). [42]; Rhodes et al. (2024). [43]). However, concerns around its fiscal sustainability and potential inflationary effects, particularly when deployed at scale, have slowed broader adoption (Büchs, M. (2021). [44]).

To navigate these limitations, some scholars propose the alternative concept of Universal Basic Access (UBA), which prioritizes guaranteed service delivery, such as health care, education, housing, and food, over cash transfers. As discussed in studies on sustainable welfare systems, UBA and UBI are not mutually exclusive; rather, UBA seeks to directly fulfill core human needs through non-monetary provisioning, potentially reducing administrative costs and mitigating inflationary risk. For example, public digital infrastructure offering lifelong learning or telehealth access could ensure equitable outcomes without incentivizing excessive consumer spending (Afscharian (2022). [45]).

Implementing UBA capitalizes on the promise of total automation, enabling governments to automate the production and distribution of essential goods and services through AI-driven systems. In societies nearing post-scarcity economics, fully automated supply chains could ensure universal access to basic

and aspirational goods—free at the point of use—while preserving socio-economic stability by avoiding complex cash disbursement mechanisms. Importantly, UBA aligns more closely with Future Human Life Comfortability, positing that ensuring seamless access to life-enhancing goods creates greater long-term well-being than monetary guarantees alone.

Nevertheless, while UBA may address several shortcomings of UBI, it also introduces governance challenges. Ensuring universal and non-discriminatory access demands robust institutional capacity and transparent oversight, especially in managing AI-run services. Additionally, balancing UBA with normative freedoms—choosing between provider-delivered access or cash flexibility—remains a significant policy question. Future research must explore hybrid frameworks that optimally combine cash transfers with automated access systems to fulfill human needs in a post-labour, AI-infused world.

3. TOTAL AUTOMATION MODEL FOR GOVERNMENTS:

3.1 Conceptual model: Automation:

3.1.1 Conceptualizing Automated Procurement of Raw Materials:

In the Total Automation Model, governments first need to streamline and automate the procurement of raw materials. AI-powered procurement systems use predictive analytics to forecast demand, optimize supplier selection, and dynamically negotiate contracts, effectively reducing inefficiency and cost (Guida et al. (2023). [46]). Strategic sourcing platforms incorporate machine learning to assess price trends, geopolitical risks, and supplier reliability, transforming procurement from a static transaction to a real-time decision ecosystem (Waditwar (2024). [47]). In government-led total automation, this process would be extended to national-scale systems, compiling data across industries to coordinate material flows—from agricultural inputs to industrial commodities—without human coordination. Such systems promise to eliminate shortages and reduce storage waste by synchronizing raw material availability with production needs via high-frequency, data-driven purchase orders.

3.1.2 AI-Driven Production of Goods and Services:

Following procurement, raw materials are fed into fully automated factories and service centers capable of producing goods and delivering services under AI supervision. In manufacturing, "smart factory" models combine IoT sensors, robotics, and adaptive learning to dynamically configure production lines for custom or mass goods (Wan et al. (2021). [48]; Nelson et al. (2023). [49]). These systems self-optimize through continuous feedback, enabling low-cost, high-precision output that can meet evolving societal needs. The same logic applies to service industries—robotic process automation paired with natural language systems manages back-office work, healthcare diagnostics, and even government case handling (Straub et al. (2024). [50]); Neupane (2023). [51]). Together, these developments enable a society in which the government hosts a network of autonomous production nodes capable of delivering both essential and discretionary goods without direct human operation.

3.1.3 Automated Distribution and Logistics Systems:

Ensuring access to the outputs of automated production requires highly coordinated AI-enabled distribution networks. Intelligent logistics systems use machine learning to route autonomous vehicles, optimize inventory locations, and match supply to real-time demand—all while minimizing emissions and transit time (Capstone Logistics, (2025) [52]; Global Trade Mag, (2023). [53]). Connected warehouses with RFID and AI monitoring enable predictive restocking and real-time tracking, reducing waste in cold chains and perishable goods handling. For governments, such an infrastructure offers the capacity to fulfill universal distributions—delivering basic needs and aspirational goods free to citizens—without manual logistics planning or delivery oversight. The outcome is a scale-efficient, carbon-reduced system that achieves equitable delivery through self-managing nodes.

3.1.4 Integrated Feedback & Governance through a Closed-Loop Model:

Finally, an effective Total Automation Model relies on a closed-loop governing infrastructure where AI systems monitor societal needs and adjust flows dynamically. Continuous data aggregated from user interactions, production yields, and resource supply feeds reinforce feedback loops that calibrate procurement, output schedules, and distribution routing. Policy oversight layers built into AI governance platforms ensure compliance, transparency, and ethical safeguards (Brookings, (2021). [54]). These platforms enable real-time performance monitoring against social objectives such as food

security, waste reduction, and universal access. They also create mechanisms for intervention, such as capacity reallocation during crises—while ensuring the system remains responsive to human values and evolving needs.

3.2 Role of governments in managing and maintaining infrastructure:

Governments play a pivotal role in orchestrating the **infrastructure foundations** required for a Total Automation Model, serving as both architects and overseers of the AI-integrated landscape. The **Algorithmic State Architecture (ASA)** framework emphasizes this layered role: governments must develop digital public infrastructure, enable seamless data policy, support algorithmic governance, and foster GovTech ecosystems that collectively underpin AI-driven service delivery (Engin et al. (2025). [55]). Without a comprehensive digital and policy infrastructure—spanning from cloud computing to machine-readable legislation—super-intelligent systems cannot be deployed effectively to manage production, distribution, and public services at scale, making infrastructure investment a strategic necessity (Wired (2023). [56]).

Beyond mere provisioning, governments must institutionalize AI-harnessed anticipatory governance, using real-time data and foresight analytics to regulate infrastructure needs before issues emerge. OECD research asserts that AI can significantly improve public-sector responsiveness by integrating internal operations, inclusive policymaking, and risk monitoring, which are critical in managing automated systems (OECD (2024). [57]). Similarly, Whittlestone and Clark (2021) [58] argue governments must invest in monitoring AI development—tracking system capabilities, ethical risks, and societal impacts—to maintain public trust and system integrity. These governance structures ensure the automated infrastructure accelerates human well-being rather than undermining accountability or equity.

Central to these efforts is the concept of collaborative governance, where governments co-design, maintain, and upgrade AI-enabled infrastructure with a broad ecosystem of stakeholders. Emerging AI policies—from the UK to India—showcase government-industry-academia partnerships to scale compute power, train civil servants, and co-manage digital infrastructure (Financial Times, (2025). [59]; Wikipedia (2025). [60]). Research in developing countries illustrates that successful smart city efforts rely not just on technology, but on institutional readiness, inclusive design, and participatory oversight—a lesson that holds for national-scale AI automation systems (Tan & Taeihagh, 2020 [61]). Lastly, government roles extend into institutionalizing robotic and automated governance frameworks, encompassing legal, ethical, and operational dimensions. Robotic Governance principles urge governments to engage all stakeholders—including industry, civil society, and labour unions—to define standards and ethical principles around autonomous systems (Boesl & Bode, 2016 [62]). Such frameworks are critical to ensuring AI-driven infrastructure respects rights, prevents misuse, and maintains adaptability as technology evolves, without which automated systems risk entrenching bias, eroding human autonomy, or failing to serve societal needs.

3.3 Layers of comfort: Needs (basic), Wants (lifestyle), Desires (aspirational) – Free provisioning using AI-driven systems:

A core principle of the Total Automation Model is structuring government provisioning around three interrelated layers of human comfort: needs, wants, and desires. At its foundation, basic needs—food, water, healthcare, and shelter—must be sustainably met through reliable AI-driven systems. Drawing on UBA frameworks, continuous automated supply chains can secure essential resources without requiring monetary exchange, thus ensuring minimum standards of living across all citizens (Sustainability in Welfare, 2021) [44]. By eliminating scarcity through networked automation, governments can guarantee universal access to fundamental living requirements, enhancing overall societal stability and resilience.

Building upon needs, wants encompass lifestyle goods and services, such as education, transportation, and digital connectivity, that enrich quality of life but are not strictly essential for survival. AI systems play a crucial role in smart provisioning: adaptive educational platforms, autonomous public transit, and predictive health maintenance designed to meet individual preferences and usage patterns (Dovramadjiev et al. (2022). [63]). By customizing services dynamically, such as tailored learning courses for community members, these systems ensure that lifestyle needs are met in equitable and personalized ways, reducing waste and increasing citizen satisfaction through responsive automation.

The highest layer, desires, refers to aspirational goods and services—cultural experiences, creative tools, leisure activities, or unique artistic products—that fulfill human aspirations and enhance subjective well-being (Klapperich et al., 2020 [64]). Total Automation Models allow governments to provision such aspirational comforts at no extra cost, democratizing access to creative and cultural experiences. For instance, AI-powered on-demand art creation, personalized content streaming, or maker-space access could be delivered seamlessly, ensuring that every citizen can pursue self-actualization—a key component of "Future Human Life Comfortability."

Effectively automating across these three layers requires an integrated governance framework rooted in human-centered AI principles and transparent oversight (Li (2024). [65]). Automated systems must respect citizen autonomy, preserve privacy, and avoid biases while delivering comfort across needs, wants, and desires. Ethical design ensures not only efficiency but also the dignity of recipients, promoting voluntary engagement rather than passive consumption. In a truly jobless, comfort-oriented society, intelligent provisioning becomes a dance between invisible infrastructure and visible well-being—granting free access while honoring human rights and trust.

4. REVIEW OF LITERATURE:

4.1 Studies on AI and economic displacement:

Recent scholarship has extensively documented the dual nature of AI-driven automation, highlighting both the displacement of traditional labour and the creation of new job roles (Aithal & Prabhu (2024). [66]). Acemoglu and Restrepo (2019) [67] introduced a task-based framework that reveals how AI substitutes for human labour in routine functions while complementary tasks, such as strategic oversight, are slower to emerge. They demonstrate that automation exercises a sustained downward pressure on overall labour share and employment levels, even as it augments productivity. Complementing this, a bibliometric review by emerging scholars identifies a doubling in literature on AI-induced job displacement across four decades, underscoring growing interdisciplinary concern about the scale and reach of labour market transformation.

Empirical evidence on generative AI, such as findings from Marguerit (2025) [68], points to a multifaceted impact: while automation AI diminishes demand for low-skilled jobs, augmentation AI increases opportunities and wages in contexts of human—AI collaboration. This pattern is echoed in the context of cognitive job functions; a Harvard—MIT study shows that generative AI is reshaping both white-collar employment and skill requirements, lending support to job polarization theory. Specifically, the study found reductions in routine task roles alongside new positions involving supervisory oversight, signifying a need for tailored up-skilling policies that recognize this heterogeneity.

While displacement risks dominate discourse, income inequality represents a critical related consequence. The IMF's comprehensive review (Comunale & Manera (2024). [69]) cautions that, absent robust policy and tax reforms, automation-led gains will accrue disproportionately to capital owners, reinforcing wealth concentration. Small-scale studies, such as declines in labour share in manufacturing linked to industrial robots, further underscore the scale of labour losses relative to output gains. Together, this literature outlines the economic displacement caused by AI and highlights the necessity of integrated policy frameworks—combining technological augmentation with social safety nets—to preserve employment, reskill workforces, and ensure macroeconomic stability.

4.2 Automation and Post-Scarcity Economies:

Recent discourse on AI-driven automation has reignited interest in post-scarcity economic models, projecting futures where goods and services can be produced and distributed abundantly at negligible cost. Zeira (2021) [70] argues that as AI progressively automates production functions, sectors like healthcare, energy, and digital services edge toward a post-scarcity threshold, potentially lowering marginal production costs to near zero and enabling near-universal access to essential commodities. Complementing this perspective, Moleka, P. (2025). [71] outlines a multi-tiered post-scarcity model combining automated value systems, decentralized AI-managed infrastructure, and diminished reliance on traditional monetary exchange, signaling a radical departure from scarcity-driven market structures. Technology visionaries also envision a shift from scarcity to abundance. Silicon Valley leaders such as Altman and Nadella [72] have suggested that exponential AI gains could usher in an "age of abundance" by democratizing access to energy, information, healthcare, and more, dramatically reshaping global

priorities. The increasing plausibility of such futures has sparked renewed scholarly discourse on whether post-scarcity is an attainable utopia or a near-term expectation demanding policy scaffolding. Analyses by Korinek and Suh (2024) [73] caution that while technological means move us closer to post-scarcity, the failure to adapt social, economic, and regulatory frameworks could exacerbate inequality, potentially destabilizing political systems.

Economists have begun to investigate the theoretical implications of such transformations. Dehouche (2025). [74] summarizes how fully automated systems might render traditional supply-and-demand paradigms obsolete, suggesting that, over time, AI could displace most labour, leaving society to reimagine wealth, welfare, and purpose. Meanwhile, Srnicek & Williams (2015) [75] present models indicating that without deliberate wealth redistribution—such as robot taxes or universal dividends—confidence in post-scarcity futures could falter as economic rents concentrate among AI capital owners and resource controllers.

Critics, however, emphasize that technology alone does not guarantee equitable outcomes; social and institutional innovations are critical to bridging the gap between techno-economic possibility and lived equity. Commentators like Srnicek and Williams (2015) [76] propose that fully automated systems aligned with democratic planning could enable societal flourishing at scale, but warn against laissez-faire deployment that perpetuates monopolistic control. Overall, the literature underscores that AI-driven post-scarcity is conceptually viable but contingent on deliberate governance, redistribution, and societal reorientation toward long-term human well-being.

4.2 Social models of wealth redistribution using technology:

The emerging field of AI-mediated wealth redistribution has introduced technologically driven frameworks to address rising income and wealth inequality in the automation era. One such proposal, the "AI Economist," employs a deep reinforcement learning model to design dynamic tax policies, outperforming traditional static reforms by approximately 16% in balancing equality and productivity (Zheng et al., 2020 [77]). This demonstrates how AI systems themselves could be harnessed to redistribute wealth more efficiently than human-designed mechanisms, ensuring that automation rents are shared equitably. Moreover, Nayebi's (2025) [78] analysis indicates that properly calibrated tax rates on AI capital—around one-third of profits—could sustainably fund universal basic income (UBI) schemes directly from AI-generated economic gains.

However, questions around justice and fairness in distribution persist. Gabriel (2021) [79] argues that algorithmic equity frameworks must uphold Rawlsian principles—ensuring that automated resource allocation systems are transparent, accountable, and sensitive to the most disadvantaged members of society. Without embedding normative guardrails, AI-driven redistribution may inadvertently perpetuate symbolic injustice or reinforce existing hierarchies (Frontiers in AI, (2025). [80]). Here, technology offers not just efficiency but also complex governance challenges that necessitate interdisciplinary oversight to safeguard democratic values.

Complementary to tax-based mechanisms, Universal Basic Services (UBS) offers a non-monetary model of redistribution via free access to public goods like healthcare, education, housing, and transport—domains where technology removes incremental delivery costs (Fouksman & Klein (2019). [81]). UBS aligns with the concept of Universal Basic Access (UBA), particularly within fully automated contexts, wherein AI systems oversee provisioning and ensure universal coverage. The advantage lies in its direct delivery model, mitigating inflationary concerns often associated with cash transfers while securing essential living standards for all citizens.

Broader distribution debates intersect with constitutional-economic innovation. Concepts such as Boltzmann Fair Division, which probabilistically allocate resources based on individual need, contribution, and preference, suggest algorithmic alternatives to conventional welfare that can be sensitive to both material and merit-based criteria (Park & Kim, (2023). [82]). Meanwhile, Bastani's "Fully Automated Luxury Communism" posits that automation could underpin a post-scarcity society wherein the economic surplus—and thereby luxury consumption—is democratically shared, eliminating class-based exclusion if institutionally and politically supported. Collectively, these models spotlight technological redistribution as a central pillar in shaping equitable and comfortable post-labour futures.

4.3 Futuristic Governance, Techno-Utopianism, and Human-Machine Co-Living:

Contemporary discourse on techno-utopianism envisions a future reshaped by AI—where intelligent machines seamlessly manage society and governance. Dickel and Schrape (2017) [83] describe techno-utopian narratives as performative fictions that influence public attitudes toward emerging technologies, often emphasizing radical efficiency, ubiquity of automation, and the transcendence of traditional social barriers. However, critical analyses urge caution: not all utopian visions account for unintended consequences like surveillance, inequality, and erosion of democratic norms—necessitating a tempered approach that acknowledges both promise and peril.

Within this speculative ecosystem, futuristic governance models have begun to emerge, leveraging AI both as regulatory tool and institutional partner. A systematic review in AI and Ethics outlines AI governance levels ranging from departmental to international, emphasizing the need for layered, nuanced policies that can manage AI's multifaceted impacts (Batool et al. (2025). [84].) Meanwhile, Whittlestone and Clark (2021) [85] argue that governments must establish transparent, adaptable monitoring mechanisms to align AI's evolution with societal values—anticipating risks and maintaining public trust in algorithmic systems.

The concept of human–machine co-living extends beyond governance structures, focusing on daily collaborative interactions between humans and smart systems. Pimplikar et al. (2017) [86] present "Cogniculture," a vision where humans and machines exist symbiotically within shared ecosystems designed for mutual adaptation and mutual benefit—emphasizing ethical oversight, emotional intelligence, and cooperative evolution. Similarly, frameworks like Reciprocal Human–Machine Learning highlight the dynamic exchange between human expertise and AI, fostering environments where each learns from the other and elevating collective decision-making capacities (Van Rooy (2024). [87]).

Yet, implementing techno-utopian visions requires robust human-centered governance frameworks to prevent technology from eroding autonomy or exacerbating power imbalances. Sigfrids (2023) [88] recommends extending human-centered AI to public governance—ensuring that system design reflects societal aspirations, integrates community input, and embeds checks against bias. Rahwan's *Society-in-the-Loop* proposal further adds a social contract dimension, suggesting that algorithmic systems should be negotiated and governed like democratic institutions, ensuring AI aligns with collective values and normative oversight (Rahwan (2018). [89]). Together, these studies reveal that for AI-enabled utopias to succeed, they must balance innovation with participatory, rights-based frameworks that safeguard human dignity and democratic ideals (Te'eni (2023), [90]).

5. OBJECTIVES OF THE STUDY:

- (1) To define and conceptualize "Future Human Life Comfortability" in the context of AI-driven super-intelligent machines and post-scarcity societal models.
- (2) To explore the transformative impact of total automation on industrial, agricultural, and service sectors, especially in enabling jobless but comfort-rich societies.
- (3) To evaluate the feasibility of government-led Total Automation Models that ensure the cost-free provision of basic needs, lifestyle wants, and aspirational desires to all citizens.
- (4) To analyze the production-distribution loop governed by AI systems in realizing sustainable, costless, and universally accessible goods and services.
- (5) To perform a strategic assessment of the proposed model using SWOC (Strengths, Weaknesses, Opportunities, Challenges) and ABCD (Advantages, Benefits, Constraints, Disadvantages) analysis frameworks from the perspective of key stakeholders.
- (6) To suggest implementation pathways through policy reform, public-private AI infrastructure collaborations, and ethical governance for achieving the vision of automated human comfortability.

6. METHODOLOGY:

The exploratory qualitative research method is used here. The relevant information is collected using keyword-based search in the Google search engine, Google Scholar search engine, and AI-driven GPTs. This information is analysed and interpreted as per the objectives of the paper (Aithal & Aithal (2023). [91]; Aithal & Aithal (2023). [92].

7. ANALYTICAL MODEL OF TOTAL AUTOMATION ECONOMY:

7.1 Description of AI-managed production-distribution cycles:

Analytical Model of Total Automation Economy: AI-Managed Production—Distribution Cycles In a fully realized Total Automation Model, AI-driven systems manage every aspect of the production—distribution lifecycle, beginning with demand forecasting and raw material procurement. Advanced machine learning algorithms, including predictive and prescriptive analytics, analyze historical consumption patterns, seasonal trends, and socio-economic data to generate highly accurate forecasts and trigger automated sourcing orders. Zheng et al. (2021) [93] report that enterprises integrating AI into procurement may see inventory costs decrease by up to 30%, and system-wide efficiency dramatically improves when these forecasts are linked to dynamic sourcing systems. Large-scale government applications would add population-wide data streams, enabling continuous calibration of material flows in line with real-time societal needs.

Following procurement, the production phase occurs within self-configuring, AI-powered "smart factories." These facilities leverage IoT sensors, robotics, edge-computing, and reinforcement learning to orchestrate seamless production. Wan et al. (2021) [94] describe how such systems dynamically reconfigure manufacturing lines, changing tooling, scheduling, and workflows on-the-fly to meet shifting demand—all while minimizing downtime and maximizing flexibility. In government-operated versions, this could translate into distributed production nodes—micro-factories or service hubs—capable of responding instantaneously to community-specific requirements, ensuring both scale and relevance.

Once goods and services are produced, AI-managed distribution networks take over. These systems incorporate autonomous vehicles, robotic fulfillment centers, and intelligent logistics platforms guided by real-time data on traffic, weather, and energy use. The result is a frictionless delivery ecosystem where items move from factory to consumer without human intervention. A comprehensive review by Bhattacharya et al. (2024) [95] indicates that AI in closed-loop supply chains can reduce distribution waste by up to 25%, while optimizing carbon footprint and geography-based deployment. In national-scale systems, these networks could dynamically reroute assets during emergencies, crises, or special events, ensuring resilience and adaptability.

A key feature of this AI-managed model is its closed-loop feedback architecture, designed for continuous improvement and policy alignment. Embedded sensors and digital interfaces capture data on production efficacy, citizen satisfaction, infrastructure performance, and resource availability. Machine learning systems then process this data to refine procurement, reassign factory usage, or reallocate logistics routes. Rolf et al. (2023) [96] demonstrate that reinforcement learning frameworks in supply chains outperform traditional rule-based systems in efficiency and robustness—especially under volatile conditions. Such feedback-driven automation enables governments to adapt provisioning in accordance with evolving ethical standards, environmental targets, or demographic shifts, thus maintaining harmony between technological capacity and human needs.

7.2 Technological requirements (e.g., self-optimizing factories, AI-based logistics):

(1) Self-Optimizing Smart Factories:

Smart factories represent the industrial backbone of total automation, demanding a convergence of Industrial IoT (IIoT), adaptive control systems, and machine learning frameworks. These facilities rely on cyber-physical systems capable of real-time data collection—from sensors monitoring temperature, performance, and quality—to enable dynamic reconfiguration of production lines (Wan et al., 2021 [94]; Wikipedia, 2025) [97]. Reinforcement-learning algorithms empower these systems to autonomously adjust workflows, optimize resource use, and respond swiftly to defects or demand shifts (Ghahramani et al., 2020) [98]. Achieving truly flexible, small-batch manufacturing requires seamless integration of edge-computing and cloud platforms, ensuring low latency, robust data sharing, and distributed intelligence (Wan et al., 2021) [94]

(2) AI-Driven Logistics & Supply Chain Optimization:

Efficient, autonomous logistics systems are indispensable in a fully automated economy. Advanced AI systems enable intelligent routing, dynamic inventory management, and autonomous vehicle coordination based on real-time demand, traffic, and environmental data (Chen (2024). [99]; Samuels, A. (2025). [100]). AI-enhanced logistics optimize last-mile delivery and inventory placement by using predictive analytics to minimize transit delays and reduce emissions (Bhattacharya et al., 2024 [95];

Shawon et al., 2025 [101]). Additionally, logistics optimization platforms increasingly incorporate sustainability metrics—energy use, emissions, congestion—requiring AI models that balance efficiency with environmental impact (Shawon et al., 2025 [101]).

(3) Integrated Smart Supply Chains:

Total Automation requires holistic integration across procurement, production, and distribution through an AI-enhanced supply chain. Reviews show that AI is effective across the entire lifecycle—forecasting demand, optimizing inventory, modeling risks, and enabling adaptive scheduling (Samuels, A. (2025). [100]). The transition to "Industry 6.0" emphasizes human-AI collaboration and sustainability, driving advanced systems that integrate edge-cloud computing, IIoT, and digital twins to facilitate resilient, transparent, and trustworthy operations.

(4) Foundational AIoT and Cyber-Physical Infrastructure:

Underpinning this entire ecosystem is the Artificial Intelligence of Things (AIoT)—a fusion of IIoT sensors, edge intelligence, and federated learning—to enable distributed, autonomous decision-making (Wikipedia, 2025 [97]). Reliable, secure communication protocols (e.g., OPC UA, MQTT, DDS), real-time analytics, and robust cybersecurity frameworks are essential to maintaining system integrity and preventing data breaches (Guptha (2025). [102]). Central to this is a governance layer ensuring transparency, ethical deployment, and adaptive oversight, whereby policy modules guide operational thresholds, privacy safeguards, and decentralized accountability in an autonomous production-distribution model.

7.3 Costlessness through Self-sustainability and Continuous AI Optimization:

A linchpin of the Total Automation Model is achieving costlessness through self-sustaining infrastructure and perpetual AI-driven optimization. In this framework, AI systems not only automate production and distribution but also reinvest generated dividends into maintaining and evolving the infrastructure itself, forming a closed-loop economic ecosystem. The concept of an "AI circular economy" envisions machines that produce value, optimize operations, and autonomously reallocate resources—minimizing reliance on human intervention and traditional capital funding models (Yann Lecun (2021). [103]). By embracing self-reinforcing machine economies, governments can deploy automated systems that continually reduce costs and eliminate the need for labor-based remuneration. Technological enablers such as reinforcement learning and real-time analytics are essential for sustaining costless operations. Rolf et al. (2023) [104] show that supply chain systems using reinforcement learning significantly outperform rule-based counterparts in dynamic, real-world scenarios, allowing these systems to autonomously optimize procurement, production schedules, and distribution logistics. Similarly, McKinsey reports that generative AI could enhance labor productivity by up to 3.4 percentage points annually, paving the way for deeper automation, while simultaneously unveiling inefficiencies that can be corrected by self-improving algorithms (Chui et al. (2023). [105]). These studies underscore that AI-driven systems can iteratively refine themselves to reduce waste, drive down marginal costs, and sustain economically efficient operations without ongoing human capital. Energy and resource optimization are critical to enabling sustained, cost-effective production. AI's capacity to manage comprehensive energy systems—balancing renewable generation, storage, and demand—can drastically reduce operating costs, a necessary condition for eliminating production expenses over time (Avakians (2024). [106]). Furthermore, the rise of ecomechatronics—the integration of mechatronics with ecological design—adds a layer of environmental self-sustenance, enhancing resource efficiency and lowering life-cycle costs of AI-driven machines (Ecomechatronics. (2025). [107]; Wan et al. (2021). [94]). When these technologies coalesce, infrastructure can operate at nearzero marginal cost, with the system dynamically sustaining itself through AI-enabled optimization

The economic transformation toward costless provisioning necessitates a fundamental rethinking of traditional economic models. Acemoglu's "Simple Macroeconomics of AI" argues that AI-driven cost reductions reallocate value creation from labor to capital—making capital ownership and system management pivotal for societal welfare feedback mechanisms [108]. Integrating AI capital dividends into government revenue systems—such as through robot taxes or sovereign AI funds—creates a pathway for channeling infrastructure efficiencies into universal provisioning (e.g., Universal Basic Access) rather than private gain. By aligning self-sustaining automated systems with redistributive policy frameworks, governments can operationalize a costless, AI-managed ecosystem that underpins

equitable access and ensures that technological abundance translates into Future Human Life Comfortability.

7.4 Integration with Digital Identity Systems and Smart Governance:

A robust Total Automation Economy requires seamless integration with digital identity systems, enabling precise, secure, and personalized service delivery across public infrastructure. Self-sovereign identity (SSI) frameworks, grounded in decentralized identifiers and verifiable credentials, allow citizens full control over their digital identity and privacy—essential for equitable access to AI-driven services without central gatekeepers or surveillance risk (Wikipedia (2025). [109]). As governments increasingly deploy AI-assisted identity management, these systems streamline authentication across healthcare, welfare, transportation, and education sectors, fostering universal trust while thwarting fraud with biometric and behavioral verification methods (Avatier. (2025). [110]).

Building on identity foundations, smart governance integrates AI to optimize public administration and policymaking. According to the Vass framework for public administration, AI systems can automate routine bureaucratic tasks, tailor public services to personal needs, and aid government decision-making through real-time data analytics and policy simulation (Saadah (2021). [111]). In emerging AI governance ecosystems—including South Australia's AI initiatives and India's Odisha AI Mission—dedicated AI officers are shaping integrated governance architectures that integrate identity, service delivery, and oversight, setting the stage for fully automated urban and rural AI governance modalities (Duncan Evans (2025). [112]).

Achieving secure, scalable integration demands federated identity architectures and robust governance protocols. Federated digital identity schemes enable interoperability across systems and services—key for linking identity with decentralized AI infrastructure in supply chains, welfare distribution, and urban management (Vitla (2024). [113]). Simultaneously, frameworks for responsible AI governance—as outlined in systematic reviews—ensure accountability and ethical compliance by embedding transparency, auditability, and stakeholder monitoring into system design and operation (Engin (2025). [114]).

Ultimately, successful integration of digital identities and smart governance underwrites a futuristic Total Automation Model—where citizens access automated provisioning through trusted digital credentials, and AI-mediated governance dynamically manages resource flows. This combined ecosystem promotes trust, efficiency, and inclusivity, enabling governments to deliver continuous comfort across needs, wants, and desires. Crucially, embedding identity, ethics, and accountability within the automation framework ensures that human dignity and privacy remain at the core of technological advancement.

8. SWOC ANALYSIS OF THE PROPOSED MODEL:

8.1 About SWOC Analysis:

SWOC analysis (Strengths, Weaknesses, Opportunities, *Challenges*) is increasingly used in new conceptual models as an evolution of SWOT, reframing "threats" as actionable challenges to support adaptive strategy design (Indrasaru, M. (2023). [115]). Conceptual work argues this shift yields more dynamic, implementation-oriented frameworks for planning and performance (e.g., integrating finance/talent lenses with SWOC) (Aithal & Kumar (2015). [116]). Empirical applications in education used SWOC to structure stakeholder reflection and redesign during COVID-19, both at the program level and across e-learning services, showing how the lens surfaces internal capacities and external constraints while translating them into near-term action (Al-Naimi (2021). [117]. Together, these studies illustrate SWOC's value for contemporary models that must operate under rapid change and resource limits (Aithal & Aithal (2023). [118]; Shyam & Aithal (2025). [119]; Lupane, P. B. (2019). [120]).

8.2 Strengths:

Table 1 lists some of the strengths of the Analytical Model of Total Automation Economy based on issues like Efficiency, equity, and resource optimization:

Table 1: Strengths of the Analytical Model of Total Automation Economy

|--|

1	High Efficiency	The model leverages super-intelligent AI systems capable of real-
	Through AI	time optimization, ensuring maximum productivity with minimal
	Optimization	waste and downtime.
2	Cost-Free	Through total automation, goods and services are produced and
	Production and	distributed without monetary exchange, removing cost barriers for
	Distribution	consumers.
3	Universal Access	The model envisions a three-tier provisioning system—basic needs,
	to Needs, Wants,	lifestyle wants, and aspirational desires—ensuring equitable quality
	and Desires	of life for all.
4	Scalability Across	The model applies universally to manufacturing, agriculture, and
	Sectors	services, enabling a systemic shift across all economic domains.
5	Reduced	Full automation minimizes reliance on human labor, addressing
	Dependency on	issues of labor shortage, job dissatisfaction, and economic inequality
	Human Labor	caused by employment dependency.
6	Enhanced	Integration with AI-enabled smart governance allows for precise,
	Decision-Making	data-driven policy making, service delivery, and crisis management.
	via AI	
	Governance	
7	Self-Sustaining	AI systems are programmed to manage, maintain, and evolve the
	Infrastructure	infrastructure autonomously, ensuring longevity and reliability.
8	Environmental	Optimization of energy use, reduction of waste, and preference for
		renewable sources make the model ecologically sustainable.
9	Inclusivity	Every individual can access services seamlessly using secure digital
	Through Digital	identities, promoting inclusiveness in automated economies.
	Identity	
	Integration	
10	Visionary Societal	The model lays the foundation for a post-scarcity society, where
	Transformation	human purpose is redefined beyond work and material
		accumulation.

8.3 Weaknesses:

Some of the weaknesses of the "Analytical Model of Total Automation Economy" based on issues like dependency on technology and ethical risks, are listed in Table 2:

 Table 2: Weaknesses of the Analytical Model of Total Automation Economy

S.	Key Strengths	Description
No.		
1	Overdependence on	The entire model relies heavily on uninterrupted functioning of AI
	Technology	systems; any malfunction or cyber-attack can destabilize production
		and distribution cycles.
2	Ethical Risks in	Delegating critical governance and resource allocation decisions to
	Decision-Making	AI systems may introduce biases, lack of empathy, or unintended
		consequences.
3	Lack of Human	Minimizing human intervention in essential sectors could lead to
	Oversight	loss of control, accountability issues, and challenges in error
		correction.
4	Digital Divide and	Without universal digital literacy and infrastructure, marginalized
	Exclusion	populations may struggle to access automated services, reinforcing
		inequality.
5	Security and	Centralized AI systems managing identities, logistics, and
	Privacy	provisioning are susceptible to data breaches and surveillance
	Vulnerabilities	misuse.
6	Cultural and	The notion of a jobless society may face opposition due to the deeply
	Psychological	ingrained association of identity, purpose, and dignity with
	Resistance	employment.

7	Initial	Setting up a fully automated economy with intelligent machines
	Infrastructure and	requires massive capital investment, research, and systemic
	Resource Cost	restructuring.
8	Legal and	Current laws and regulatory frameworks may be ill-equipped to
	Regulatory	handle AI accountability, ownership of autonomous decisions, and
	Ambiguity	equitable governance.
9	Risk of Systemic	A failure in core systems like AI-managed supply chains or energy
	Collapse	grids could result in widespread disruption without adequate manual
		alternatives.
10	Innovation	Over-reliance on pre-programmed AI routines may discourage
	Stagnation	human creativity and entrepreneurial spirit, leading to long-term
		intellectual stagnation.

8.4 Opportunities:

Some of the opportunities of the "Analytical Model of Total Automation Economy" based on issues like Societal elevation, creative freedom, and universal comfort are listed in the following table 3:

Table 3: Opportunities of the Analytical Model of Total Automation Economy

S.	Key Opportunities	Description
No.		
1	Societal Elevation	By eliminating the need for income-based sustenance, citizens can
	Beyond Economic	focus on intellectual, spiritual, and cultural growth, fostering a
	Survival	higher quality of civil society.
2	Creative and	With machines taking over labor-intensive and routine tasks,
	Intellectual	individuals can explore artistic, academic, or philosophical pursuits
	Freedom	without economic pressure.
3	Universal Access to	The model promises the automated, free-of-cost provision of
	Basic and	necessities, lifestyle commodities, and even luxury items, promoting
	Aspirational Needs	universal well-being.
4	Post-Scarcity	This framework enables transition toward economies where
	Economic Model	abundance, not scarcity, is the norm—redefining economics, value,
	Development	and consumption.
5	Advancement of	Governments and institutions have an opportunity to pioneer
	Ethical AI	transparent, fair, and responsive AI governance frameworks that
	Governance	uphold human dignity.
	Systems	
6	Reduction in Social	Automation-led redistribution mechanisms can bridge income,
	Inequalities	opportunity, and access gaps among populations historically left
		behind.
7	Smart	The model promotes investment in intelligent public infrastructure
	Infrastructure for	that improves sustainability, safety, and urban/rural quality of life.
	Smart	
	Cities/Villages	
8	Global	International cooperation on AI, logistics, and automation can foster
	Collaboration for	global solidarity and reduce regional disparities in human
	Technological	development.
	Equity	
9	Resilience to Future	Total automation ensures continuity of food, healthcare, and
	Disruptions (e.g.,	essential services during crises that would paralyze human-
	Pandemics)	dependent systems.
10	New Models for	Educational systems can be redesigned to emphasize ethics,
	Education and	creativity, and lifelong learning, aligning with a society no longer
	Human Purpose	structured around employment.

8.5 Challenges:

Some of the challenges of the "Analytical Model of Total Automation Economy" based on issues like political resistance, cyber threats, and AI control are listed in Table 4:

Table 4: Challenges of the Analytical Model of Total Automation Economy

S.	Key Challenges	Description
No.	ixcy Chancinges	Description
1	Political Resistance	Shifting to a jobless, state-automated economy challenges capitalist
1	and Ideological	structures and employment-based identities, potentially facing
	Opposition	strong political backlash.
2	Control and	Ensuring that AI systems remain aligned with human values and do
-	Governance of	not override human autonomy is a critical technical and
	Super-Intelligent AI	philosophical challenge.
3	Cybersecurity	Highly integrated AI systems managing production and distribution
	Threats and System	are attractive targets for cyber-attacks, risking economic and societal
	Vulnerabilities	collapse.
4	Ethical Dilemmas in	Determining how AI should prioritize goods and services for
	Resource Allocation	citizens—especially aspirational desires—raises ethical issues
		around fairness and transparency.
5	Technological	Concentration of AI infrastructure in the hands of a few companies
	Monopolies and AI	or nations can create new forms of economic inequality and digital
	Oligarchies	colonialism.
6	Infrastructure and	Deploying a nation-scale automation model requires extensive
	Implementation	infrastructure upgrades and coordination across sectors—an
	Bottlenecks	enormous logistical undertaking.
7	Social Transition	Helping populations psychologically and culturally adapt to life
	Management	without work-based purpose demands massive societal
		reprogramming and support systems.
8	Global Inequality in	Developing nations may lag in AI capabilities, deepening the global
	AI Access and	digital divide and leaving parts of the world outside the comfort
	Readiness	economy.
9	Sustainability of AI	While automation enhances efficiency, maintaining large-scale AI
	Resource	systems requires immense energy, hardware, and rare-earth
	Consumption	resources that may be unsustainable.
10	Unintended	AI-driven decisions in provisioning or policy can lead to unexpected
	Consequences of	outcomes, especially in diverse, dynamic, and culturally complex
	Autonomous	societies.
	Decision-Making	

9. ABCD ANALYSIS FROM STAKEHOLDERS' PERSPECTIVES:

9.1 About ABCD Analysis:

ABCD analysis (Advantages, Benefits, Constraints, Disadvantages) is used in conceptual modelling to structure evaluation across four constructs by first defining determinant issues, mapping affecting factors, and identifying critical constituent elements; this allows both qualitative listing and quantitative scoring of a model from multiple stakeholder perspectives, and has been applied to business models, systems, strategies, and company case studies to surface design trade-offs and guide implementation (Aithal & Shailashree, (2015). [121]; Aithal (2016). [122]. In scholarly research, ABCD analysis is used under the following four headings: (i) ABCD Listing by authors' perspectives [123 - 198], (ii) ABCD analysis from Stakeholders' perspectives [199 - 209], (iii) ABCD factors & elemental analysis [210-215], and (iv) ABCD quantitative and empirical analysis [216-236].

9.2 Advantages of the Analytical Model of Total Automation Economy:

Some of the Advantages under the ABCD stakeholders' analysis framework of the "Analytical Model of Total Automation Economy" are listed in Table 5 and categorized across key stakeholders—Citizens, Governments, Environment, and Institutions:

 Table 5: Advantages of the Analytical Model of Total Automation Economy

S.	Key Advantages	Description	
No.		~h	
	ntages for Citizens:		
1	Guaranteed Basic	Citizens receive automated access to food, shelter, healthcare, and	
	Needs Fulfillment	utilities—eliminating poverty and survival stress.	
2	Enhanced Quality	Freed from traditional work obligations, individuals gain time for	
	of Life and Free	creativity, education, and self-actualization.	
	Time		
3	Equitable Access to	AI systems deliver not just necessities but also lifestyle and	
	Comfort and	aspirational items, promoting social parity and well-being.	
	Aspirations		
Advar	ntages for Governments	s:	
1	Optimized	Governments can utilize AI to manage national resources, logistics,	
1	Resource	and distribution efficiently, minimizing waste.	
	Management		
2	Policy	Data-driven governance allows for real-time monitoring, feedback,	
	Implementation	and fine-tuning of public service delivery.	
	with Precision		
3	Resilience Against	Automation ensures continuity of services even during pandemics,	
	Crises	natural disasters, or economic shocks.	
Advar	dvantages for the Environment:		
1	Eco-friendly	AI optimization minimizes energy consumption, carbon emissions,	
	Production Models	and overproduction—supporting green sustainability goals.	
2	Reduction in	With fewer jobs requiring physical presence, emissions from travel	
	Commuting and	and industry are drastically reduced.	
	Industrial Pollution		
	Advantages for Institutions and Society:		
1	Data-Backed Public	Smart systems inform infrastructure design, population	
1	Planning and	management, and sustainable city development.	
	Urbanization		
2	Global Benchmark	The model positions participating societies as pioneers in redefining	
	for Post-Scarcity	prosperity beyond material accumulation and labor economics.	
	Civilization		

9.3 Benefits of the Analytical Model of Total Automation Economy:

Some of the Benefits under the ABCD stakeholders' analysis framework of the "Analytical Model of Total Automation Economy" are listed in Table 6 and are grouped across major stakeholders: Citizens, Governments, Environment, and Global Society.

Table 6: Benefits of the Analytical Model of Total Automation Economy

S.	Key Benefits	Description	
No.			
Benefi	Benefits for Citizens:		
1	Elimination of	The automated provisioning of food, shelter, healthcare, and	
	Poverty and	education ensures that no citizen lacks essential services.	
	Hunger		
2	Freedom from	Without the burden of job dependency, people can lead healthier,	
	Economic Stress	happier lives with reduced anxiety and mental strain.	
3	Universal Life	Citizens not only meet basic needs but also access lifestyle-	
	Comfortability	enhancing products and aspirational opportunities.	
Benefi	Benefits for Governments:		
1	Efficient and	AI systems anticipate needs, optimize supply chains, and reduce	
	Predictive Public	manual bureaucracy, improving governance outcomes.	
	Service Delivery		

2	Policy Innovation	The model empowers governments to explore futuristic policy
	and Technocratic	experiments without socio-economic destabilization.
	Advancement	
3	Enhanced National	Equitable access to resources reduces socio-economic inequalities
	Stability	and civil unrest, contributing to societal harmony.
Benef	fits for the Environment	:
1	Balanced Resource	AI manages planetary resources efficiently, matching production
	Utilization	with precise demand and reducing wastage.
2	Sustainable	With automation comes minimal overconsumption and energy use,
	Development	helping meet climate change targets and ecological preservation.
Benef	Benefits for Institutions and Society:	
1	Reduction in Global	If scaled across borders, such a model can bridge the gap between
	Inequality	developed and developing nations through shared technology.
2	Model for Post-	Demonstrates how humanity can transition from survival-driven
	Scarcity	economies to abundance-based systems, redefining human progress.
	Civilizations	

9.4 Constraints of the Analytical Model of Total Automation Economy:

Some of the Constraints under the ABCD stakeholders' analysis framework of the "Analytical Model of Total Automation Economy are presented in Table 7, categorized by stakeholder impact: Citizens, Governments, Institutions, and Global Systems.

Table 7: Constraints of the Analytical Model of Total Automation Economy

S.	Key Constraints	Description	
No.	Key Constraints	Description	
	Constraints for Citizens:		
1	Digital Literacy	A large segment of the population may lack the digital or	
1	Gaps	technological literacy to engage effectively with AI-driven systems.	
2	Loss of Work-	As jobs disappear, individuals may face psychological and	
	Identity Purpose	existential crises due to the loss of employment as a source of	
	lucinity I di posc	identity.	
Const	raints for Governments		
1	High Initial Capital	Building AI infrastructure, automated logistics, and smart city	
1	Investment	ecosystems requires immense upfront public investment.	
2	Technological	Seamless integration of AI across raw material procurement,	
	Bottlenecks and	production, and distribution is complex and prone to failure without	
	Integration	robust architecture.	
	Challenges	Tooust memberture.	
3	Ethical and Legal	Regulations for AI decision-making, data privacy, and autonomous	
	Uncertainties	operations remain underdeveloped, risking misuse or harm.	
Const	Constraints for the Institutions		
1	Dependency on	Governments and public institutions may become overly reliant on	
	Private Tech Giants	proprietary AI technologies controlled by large corporations.	
2	Security and Cyber	Fully automated systems are vulnerable to cyberattacks, requiring	
	Threat Exposure	advanced cybersecurity protocols and constant vigilance.	
Constraints for Society:			
1	Cross-Border	Not all countries can afford or access the infrastructure for such total	
	Technology	automation, creating geopolitical tensions and technological divides.	
	Disparities		
2	Resource Supply	Though AI systems are efficient, rare earth metals and high-energy	
	Limitations	needs for running AI infrastructure pose long-term resource	
		concerns.	

3	Coordination	Total automation requires synchronized functioning of agriculture,
	Across Sectors	manufacturing, logistics, and social services—a challenge for
		governance and planning.

9.5 Disadvantages of the Analytical Model of Total Automation Economy:

Some of the Disadvantages under the ABCD stakeholders' analysis framework of the "Analytical Model of Total Automation Economy" as presented in Table 8 across the key stakeholder groups: Citizens, Governments, Institutions, and Society at Large.

Table 8: Disadvantages of the Analytical Model of Total Automation Economy

		nalytical Model of Total Automation Economy	
S.	Key Disadvantages	Description	
No.			
Disad	vantages for Citizens:		
1	Loss of Individual	In a jobless society with all needs met automatically, individuals	
	Agency and	may struggle with identity, purpose, and motivation in the absence	
	Purpose	of economic roles.	
2	Erosion of	When all goods and services are provided without cost or effort, the	
	Innovation	drive for entrepreneurship and creative risk-taking may diminish.	
	Incentives		
3	Over-Reliance on	Complete dependence on AI systems for daily life may reduce	
	Systems	resilience in the face of technological failures or malfunctions.	
Disad	vantages for Governme		
1	Reduced	Over-automation and technocratic governance may marginalize	
	Democratic	citizen engagement and decision-making in public policy.	
	Participation		
2	Complexity in AI	Managing vast autonomous networks across sectors may overwhelm	
	Governance	traditional governance frameworks and public accountability	
		mechanisms.	
Disadvantages for the Institutions			
1	Loss of Traditional	Institutions built around skills training and employment readiness	
	Educational and	may become obsolete or require major restructuring.	
	Vocational Models		
2	Difficulty in	AI systems operate at speeds and scales that challenge real-time	
	Regulation and	human oversight, increasing risks of unintended outcomes.	
	Oversight		
Disad	Disadvantages for Society & Global Systems:		
1	Cultural	Uniform AI-driven provisioning may flatten cultural diversity in	
	Homogenization	preferences, traditions, and consumption patterns.	
2	Social Stratification	Even in a jobless economy, disparities may emerge in terms of AI	
	Based on Digital	access, influence, or algorithmic prioritization.	
	Influence		
3	Risk of Systemic	A single point of failure or systemic cyber-attack could disrupt all	
	Collapse	provisioning systems, with no backup mechanisms in place.	

ABCD Matrix:

Table 9: ABCD Matrix for Total Automation Economy

Category	Stakeholder Focus	ABCD Element
Advantages	Citizens	Guaranteed Basic Needs Fulfillment
Advantages	Citizens	Enhanced Quality of Life
Advantages	Citizens	Equitable Access to Comfort
Advantages	Governments	Optimized Resource Management
Advantages	Governments	Policy Implementation with Precision
Advantages	Governments	Resilience Against Crises
Advantages	Environment	Eco-friendly Production Models

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Advantages	Environment	Reduced Industrial Pollution
Advantages	Institutions	Data-Backed Urbanization
Advantages	Society	Post-Scarcity Global Benchmark
Benefits	Citizens	Elimination of Poverty
Benefits	Citizens	Freedom from Economic Stress
Benefits	Citizens	Universal Comfortability
Benefits	Governments	Efficient Public Services
Benefits	Governments	Policy Innovation
Benefits	Governments	National Stability
Benefits	Environment	Balanced Resource Use
Benefits	Environment	Sustainable Development
Benefits	Global Society	Reduced Global Inequality
Benefits	Global Society	Post-Scarcity Model Blueprint
Constraints	Citizens	Digital Literacy Gaps
Constraints	Citizens	Loss of Work Purpose
Constraints	Governments	High Initial Investment
Constraints	Governments	Integration Challenges
Constraints	Governments	Ethical Uncertainties
Constraints	Institutions	Tech Dependence
Constraints	Institutions	Cyber Threats
Constraints	Global Systems	Tech Access Divide
Constraints	Global Systems	Resource Limits
Constraints	Global Systems	Cross-Sector Coordination
Disadvantages	Citizens	Loss of Individual Purpose
Disadvantages	Citizens	Diminished Innovation Incentives
Disadvantages	Citizens	System Dependence
Disadvantages	Governments	Reduced Civic Engagement
Disadvantages	Governments	AI Governance Complexity
Disadvantages	Institutions	Obsolete Education Models
Disadvantages	Institutions	Regulation Difficulty
Disadvantages	Society	Cultural Flattening
Disadvantages	Society	Digital Stratification
Disadvantages	Society	Systemic Collapse Risk

10. SUGGESTIONS FOR IMPLEMENTATION:

10.1 Pilot projects by governments in smart cities:

Pilot projects initiated by governments in smart cities have emerged as crucial experimental grounds for testing the feasibility and scalability of AI-driven total automation systems. These projects typically integrate technologies such as Internet of Things (IoT), big data analytics, and artificial intelligence to optimize urban infrastructure and services. Cities like Singapore, Barcelona, and Dubai have implemented AI-enabled platforms for traffic management, predictive maintenance, smart energy usage, and citizen service automation. Such testbeds allow governments to collect real-time data, monitor system responsiveness, and evaluate public satisfaction. Importantly, these pilots represent preliminary steps toward automating the provisioning of essential services—like water, electricity, and transportation—which form the backbone of the proposed Total Automation Economy. By establishing frameworks for machine-managed urban living, these initiatives offer a glimpse into the operational and governance requirements of future jobless societies built on super-intelligent systems.

Moreover, these pilot initiatives enable adaptive policymaking and stakeholder engagement, which are vital for scaling automation across industries and demographics. By partnering with academic institutions, private tech firms, and civic bodies, governments can simulate diverse social scenarios and evaluate ethical, economic, and ecological implications before full-scale deployment. For example, Seoul's smart city initiative incorporates citizen feedback loops into its AI system design, ensuring that public values guide technological development. These urban-scale projects also provide a controlled environment for testing interoperability between AI subsystems managing raw material procurement,

goods production, and distribution logistics—key components of the envisioned AI-managed economy. Ultimately, these government-led pilot programs are not isolated innovations but foundational prototypes that inform the global strategy for achieving a post-scarcity, comfort-driven society where automation transcends efficiency and becomes a vehicle for universal well-being.

10.2 Integration with green and sustainable energy automation:

Integration with green and sustainable energy automation is a fundamental prerequisite for realizing the vision of an AI-driven Total Automation Economy that supports universal comfortability in a jobless society. As automation technologies assume control over production, distribution, and service delivery, their energy demands must be met through environmentally sustainable sources to prevent ecological degradation and ensure long-term viability. Emerging technologies such as AI-optimized solar farms, wind turbine systems with predictive maintenance capabilities, and energy-efficient data centers represent the confluence of sustainability and automation. Smart grids—enabled by AI—can dynamically allocate power based on real-time consumption data, weather forecasting, and production needs, thereby enhancing energy efficiency and reducing wastage. The integration of renewable energy with intelligent energy management systems also lowers operational costs, making the provisioning of basic and aspirational human needs both economically and ecologically sustainable.

Furthermore, aligning total automation with green energy initiatives advances global commitments to climate change mitigation while enabling a just transition to a post-scarcity economy. Projects such as Germany's Energiewende and China's AI-powered smart energy networks demonstrate the growing feasibility of automating national-scale renewable energy systems. These models show how governments and industries can embed ethical and ecological priorities into the infrastructure of comfort provisioning. AI can be trained not only to optimize energy flows but also to monitor carbon footprints, predict environmental risks, and enforce regulatory compliance. For the envisioned jobless society to be equitable and resilient, energy independence through AI-governed sustainable sources must be embedded into the foundational design. This integration ensures that automation supports planetary health alongside human well-being, embodying the ethical intelligence necessary for future governance systems.

10.3 Establishment of ethical AI frameworks:

The establishment of ethical AI frameworks is indispensable to the implementation of a Total Automation Economy, particularly when AI systems are expected to govern large-scale decisions related to human welfare, production, and distribution. As AI-driven super-intelligent machines gain autonomy over the provisioning of needs, wants, and desires, their design and application must align with ethical principles such as transparency, accountability, fairness, and human dignity. Leading scholarly and institutional guidelines—including the European Commission's Ethics Guidelines for Trustworthy AI and UNESCO's global AI ethics framework—advocate for AI systems that are lawful, robust, and socially beneficial. These frameworks become crucial when automation directly influences life comfortability, especially in a jobless society where human reliance on AI systems is total. Without established ethical norms, such systems could exacerbate inequalities, reinforce algorithmic biases, or be misused for surveillance or control.

Moreover, ethical AI frameworks help foster societal trust and encourage collaborative governance between governments, private sectors, and citizens. In the context of predictive automation models, ethics-driven policies must be institutionalized at every level—from data collection and model training to deployment and real-time decision-making. Mechanisms such as AI audits, bias impact assessments, and algorithmic accountability boards can ensure that AI systems act in the best interest of all stakeholders. Ethical frameworks also provide guidelines for managing trade-offs, such as balancing efficiency with equity, or innovation with inclusivity. As AI becomes central to life provisioning in a jobless society, its moral architecture must be proactive rather than reactive. Institutionalizing ethics in the development of super-intelligent automation is not merely a safeguard—it is a foundational enabler of the societal transformation envisioned in a future defined by comfortability and post-scarcity abundance.

10.4 Public-private alliances in AI infrastructure development:

Public-private alliances are pivotal in catalyzing the infrastructure necessary for an AI-driven Total Automation Economy. The complexity and scale of super-intelligent systems that automate production, logistics, governance, and citizen welfare require a synergistic effort between government institutions and technology firms. While governments provide regulatory frameworks, public accountability, and long-term social vision, the private sector contributes innovation, agility, and domain-specific technological expertise. Historical precedents such as the U.S. Defense Advanced Research Projects Agency (DARPA) model or the AI-focused collaboration under India's Digital India mission exemplify how joint ventures can spur breakthroughs in machine learning infrastructure, edge computing, and ethical data handling systems. These partnerships are especially critical for deploying AI platforms that manage entire sectors—such as automated agriculture or AI-governed supply chains—that are too resource-intensive or dynamic for a single entity to manage.

In the context of future human life comfortability, such alliances facilitate shared responsibility in developing resilient, inclusive, and scalable AI systems. Public-private cooperation can lead to the cocreation of autonomous resource distribution models, smart utility grids, and AI-enabled public services that transcend urban-rural divides. These collaborations also promote the standardization of technologies, ensuring interoperability between different sectors and regions within a national automation grid. Importantly, they enable equitable distribution of AI benefits by embedding social safeguards and ethical oversight from the design phase itself. As governments aim to provide basic needs, lifestyle comforts, and aspirational services at zero cost, partnering with AI innovators ensures that such provisions are not only technologically feasible but also socially equitable and sustainable. Public-private alliances, therefore, are the scaffolding upon which the vision of a jobless yet dignified and comfort-rich society can be responsibly constructed.

11. CONCLUSION:

This study explored the transformative potential of a jobless society shaped by AI-driven super-intelligent machines and Total Automation. The findings revealed a paradigm shift in how production, distribution, and comfort provisioning can be reimagined when technological advancement reaches the threshold of replacing human labour entirely. Through detailed analyses of raw material automation, self-optimizing manufacturing, AI-based logistics, and intelligent distribution systems, the paper outlined a viable model of universal comfortability without economic transactions. SWOC and ABCD stakeholder frameworks demonstrated both the promise and the complexity of this vision, highlighting critical areas such as ethical AI governance, sustainability integration, and the necessity for digital identity infrastructure.

Philosophically, the notion of a jobless society challenges traditional conceptions of human purpose, labor, and self-worth. If needs, wants, and desires can be met without human labor, society must redefine value systems that have historically been anchored in productivity and economic contribution. The vision of post-scarcity comfort, while empowering, raises deeper ethical and existential questions—what becomes of motivation, creativity, and ambition in a world where survival is guaranteed and abundance is normalized? The future of human existence in such a world must be rooted not only in technological efficacy but also in a renewed focus on education, empathy, collective wellbeing, and purposeful engagement with life beyond work.

Given the complexity and interdisciplinarity of this transformative agenda, a call is made for continued, collaborative research involving technologists, economists, ethicists, policy-makers, and sociologists. Implementing such a radical model will require co-creation of global policy frameworks, inclusive governance mechanisms, and experimental pilot programs that can inform large-scale rollouts. This paper serves as a starting point for envisioning an equitable, intelligent, and compassionate future—one in which super-intelligent machines are not merely tools of automation but catalysts for a dignified, purpose-rich, and comfort-secured human civilization.

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