

HUMAN SUSTAINABILITY AND WORKFORCE RESILIENCE IN INDIA (SAHARA FRAMEWORK FOR PREVENTIVE PUBLIC HEALTH UNDER ONE HEALTH, ONE NATION APPROACH)

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ABSTRACT

Abstract: India's rapid economic growth and demographic transformation have been accompanied by rising workforce burnout, occupational stress, and declining resilience across healthcare, education, law enforcement, agriculture, hospitality, and corporate sectors. Existing approaches remain largely reactive, with support accessible only after significant distress emerges. The COVID-19 pandemic exposed the interdependence of institutional resilience and human resilience. This paper proposes an integrated preventive framework Project SAHARA (Sustainable Assistance, Healing, Awareness, Resilience, and Action) grounded in One Health principles and tailored to India's diverse workforce and policy landscape. Drawing on capability theory (Sen, Nussbaum), burnout research (Maslach), resilience science, psychological safety (Edmondson), Conservation of Resources theory, and public health prevention models, the paper develops a multi-level conceptual model. It introduces a measurable Human Sustainability Index (HSI) and outlines a rigorous protocol for future empirical validation. SAHARA extends the One Health paradigm by positioning workforce resilience and human sustainability as a strategic fourth pillar alongside human, animal, and environmental health. The framework emphasises prevention, early identification, recovery pathways, adaptive capacity building, continuous evaluation, and systems-level policy change. It is designed to be scalable across formal and informal sectors and aligned with India's National Mental Health Programme, Digital Health Mission, and emerging One Health capacity-building initiatives. By shifting from reactive clinical models to upstream, multi-level prevention, SAHARA offers a practical pathway to strengthen workforce sustainability and support national development goals under a One Health, One Nation vision. Future research should empirically validate the HSI and test SAHARA interventions across sectors and regions.

KEYWORDS: Human sustainability; Workforce resilience; One Health; Preventive public health; Burnout; Psychological safety; India; SAHARA framework

I. INTRODUCTION

India is entering a period of unprecedented social and economic transformation. Rapid urbanisation, digitalisation, technological innovation, and demographic change have created significant opportunities for economic growth while simultaneously increasing pressures on individuals and organisations. Across healthcare, education, agriculture, law enforcement, manufacturing, hospitality, and corporate sectors, workers face rising workloads, emotional demands, technological disruption, and increasing expectations for continuous productivity. These changes have intensified concerns regarding burnout, psychological distress, workforce disengagement, and declining organisational resilience.

The COVID-19 pandemic further exposed the vulnerability of existing public health and organisational systems. Institutions did not struggle solely because of shortages of infrastructure or medical resources; they struggled because the people responsible for operating these systems experienced prolonged stress, exhaustion, uncertainty, and emotional fatigue. Healthcare professionals, teachers, police personnel, farmers, community workers, and corporate employees demonstrated that institutional resilience ultimately depends upon the resilience of the workforce itself.

Although India has expanded access to healthcare through initiatives such as Ayushman Bharat, the National Mental Health Programme, Tele-MANAS, and digital health infrastructure, current systems remain predominantly treatment-oriented. Preventive strategies designed to strengthen resilience before psychological distress becomes clinically significant remain comparatively limited. This challenge is particularly important given that approximately 80–90% of India's workforce operates within the informal economy, where structured occupational health services and employee support mechanisms are often unavailable.

These realities indicate that workforce wellbeing should no longer be viewed exclusively as an organisational responsibility or mental health issue. Instead, it should be recognised as a national development priority directly influencing productivity, innovation, institutional performance, and sustainable economic growth.

This paper therefore proposes Human Sustainability as a strategic framework for preventive public health and workforce resilience. Rather than focusing solely on preventing illness, Human Sustainability emphasises strengthening the adaptive capacities that enable individuals, organisations, and communities to thrive despite changing occupational, social, and environmental demands. Building upon this concept, the paper introduces Project SAHARA (Sustainable Assistance, Healing, Awareness, Resilience, and Action) as a scalable preventive model capable of integrating workplace wellbeing, community support, leadership development, digital health, and public policy within a unified national strategy.

The paper has four objectives. First, it argues for recognising Human Sustainability as the fourth pillar of the One Health framework. Second, it presents the SAHARA Framework as a preventive systems model for workforce resilience. Third, it proposes the Human Sustainability Index (HSI) as a multidimensional tool for monitoring workforce wellbeing. Finally, it outlines future directions for empirical validation, organisational implementation, and policy integration under India's One Health, One Nation vision.

II. HUMAN SUSTAINABILITY AS THE FOURTH PILLAR OF ONE HEALTH

A. Rethinking One Health in the Twenty-First Century

The One Health paradigm has emerged as one of the most influential public health frameworks for addressing complex global health challenges. Recognising the interconnectedness of human, animal, and environmental health, One Health has guided international efforts to combat zoonotic diseases, antimicrobial resistance, food insecurity, and the health impacts of climate change. Organisations such as the World Health Organization (WHO), the Food and Agriculture Organization (FAO), and the World Organisation for Animal Health (WOAH) have increasingly adopted this integrated approach to improve health outcomes across sectors.

The COVID-19 pandemic demonstrated the importance of this framework by illustrating how disturbances at the interface of humans, animals, and ecosystems can rapidly escalate into global public health emergencies. However, the pandemic also revealed a critical limitation within contemporary One Health thinking. While considerable attention was directed toward controlling disease transmission and strengthening healthcare infrastructure, comparatively little emphasis was placed on the sustainability of the human systems responsible for implementing these interventions.

Hospitals required resilient healthcare workers as much as they required medical equipment. Schools depended on emotionally supported teachers as much as digital learning platforms. Public administration, agriculture, law enforcement, manufacturing, and essential services all relied on individuals who were expected to function effectively under prolonged uncertainty, increased workload, and psychological strain. These observations suggest that the success of One Health initiatives depends not only on biological systems but also on the resilience and adaptive capacity of the people who sustain them.

Accordingly, this paper proposes Human Sustainability as the fourth pillar of the One Health framework. Rather than replacing the existing pillars of human, animal, and environmental health, Human Sustainability functions as the enabling mechanism through which these pillars achieve their intended outcomes.

B. Defining Human Sustainability

Human Sustainability is defined as the capacity of individuals, organisations, communities, and nations to preserve and strengthen psychological wellbeing, resilience, social connectedness, adaptive functioning, productive engagement, and meaningful participation throughout changing social, occupational, and environmental conditions.

Unlike conventional occupational health models that primarily address illness after it occurs, Human Sustainability adopts a preventive, systems-oriented perspective. It seeks to cultivate the personal and institutional capacities that enable individuals to respond effectively to chronic stress, technological change, public health emergencies, environmental disruption, and evolving workplace demands. In this sense, Human Sustainability is not limited to mental health promotion; it represents a strategic investment in the long-term functioning of societies.

C. Human Sustainability as National Infrastructure

National development has traditionally been evaluated through indicators such as gross domestic product, employment rates, industrial growth, healthcare expenditure, and physical infrastructure. While these metrics remain essential, they provide limited insight into the condition of the people responsible for generating these outcomes.

Every national system depends upon human capability. Healthcare requires healthy professionals. Education depends upon motivated teachers. Agriculture relies on resilient farmers. Public administration, law enforcement, scientific research, and industrial productivity all depend upon workers who are psychologically healthy, socially connected, and capable of adapting to change. When these individuals experience chronic burnout, emotional exhaustion, disengagement, or declining wellbeing, institutional performance inevitably deteriorates.

Human Sustainability should therefore be understood as a form of national infrastructure. Just as governments invest in transportation networks, energy systems, and digital technologies, they must also invest in the psychological, emotional, and social capacities that sustain workforce performance. Such investments should be viewed not as welfare expenditure but as long-term investments in productivity, innovation, institutional resilience, and national development.

D. Why India Requires a Human Sustainability Framework

India provides a particularly compelling context for this expanded perspective. With a workforce exceeding 500 million people, rapid economic transformation, and one of the world's largest informal labour sectors, the country faces unique challenges in maintaining workforce wellbeing. Approximately 80–90% of Indian workers remain outside formal occupational health systems, limiting access to preventive mental health services, employee assistance programmes, and structured organisational support. Simultaneously, shortages of mental health professionals and substantial treatment gaps make exclusive reliance on treatment-oriented models increasingly unsustainable.

Furthermore, India's aspirations to become a global leader in healthcare, biotechnology, manufacturing, digital innovation, and sustainable development depend fundamentally on the resilience of its human capital. Economic growth cannot be sustained if the workforce responsible for delivering these ambitions experiences persistent psychological distress, burnout, or declining adaptive capacity.

Recognising Human Sustainability as a strategic national priority therefore extends beyond occupational health. It represents an integrated public health, economic, and development strategy that strengthens individuals while simultaneously enhancing organisational performance, institutional resilience, and national competitiveness.

E. From One Health to One Health, One Nation

Expanding One Health to include Human Sustainability represents an evolution rather than a departure from existing public health thinking. The traditional framework acknowledges the interdependence of humans, animals, and ecosystems. The proposed four-pillar model recognises that these relationships can only function effectively when supported by resilient individuals, psychologically healthy workforces, and adaptive institutions.

Within this expanded framework:

- i.** Human Health focuses on disease prevention, treatment, and health promotion.
- ii.** Animal Health addresses veterinary systems, food security, and zoonotic disease prevention.
- iii.** Environmental Health protects ecosystems, biodiversity, and climate resilience.
- iv.** Human Sustainability strengthens resilience, psychological safety, workforce wellbeing, social connectedness, and adaptive capacity.

Together, these four pillars provide a more comprehensive model for addressing the complex health, workforce, and societal challenges of the twenty-first century. They also establish the conceptual foundation for the SAHARA Framework presented in the following section, translating Human Sustainability from theory into a practical, measurable, and scalable strategy for preventive public health under India's One Health, One Nation vision.

III. THE SAHARA FRAMEWORK: OPERATIONALISING HUMAN SUSTAINABILITY

A. From Concept to Action

While Human Sustainability provides the conceptual foundation for strengthening workforce resilience, effective implementation requires a structured and scalable model that can be adopted across organisations, communities, and public institutions. Conceptual frameworks often fail because they describe problems without providing practical mechanisms for intervention. To address this gap, this paper proposes the SAHARA Framework (Sustainable Assistance, Healing, Awareness, Resilience, and Action) as an operational model for preventive public health.

SAHARA is designed to shift organisational and public health strategies from reactive crisis management to proactive resilience-building. Instead of waiting until burnout, mental illness, absenteeism, or organisational failure become evident, the framework promotes early intervention, continuous wellbeing monitoring, leadership engagement, and supportive workplace cultures. Its emphasis is not solely on preventing psychological illness but on creating environments in which individuals can sustain high levels of wellbeing, engagement, adaptability, and performance throughout their working lives.

Unlike conventional employee wellness programmes, which often function as isolated organisational initiatives, SAHARA adopts a systems perspective. It recognises that workforce resilience emerges from interactions between individuals, organisational culture, leadership practices, community resources, and national policy. Consequently, effective prevention requires coordinated action across multiple levels rather than isolated interventions.

B. The Five Components of SAHARA

Table 1. The Five Components of the SAHARA Framework

Pillar	Core Purpose	Key Components	Expected Outcomes
S – Sustainable Support Systems	Establish supportive organisational infrastructure	Leadership support, peer networks, referral pathways, Employee Assistance Programs (EAPs), community resources	Increased psychological safety and organisational support
A – Awareness & Early Identification	Promote prevention through early recognition	Mental health literacy, self-screening, resilience education, organisational monitoring	Earlier help-seeking and reduced crisis escalation
H – Healing & Recovery	Facilitate recovery and reintegration	Counselling, psychological interventions, occupational rehabilitation, family and peer support	Reduced burnout and improved recovery
A – Adaptive Resilience Development	Strengthen adaptive capacity	Emotional regulation, coping skills, Psychological Capital, leadership development	Greater resilience, engagement, and well-being
R – Research & Continuous Evaluation	Generate evidence and monitor progress	Human Sustainability Index (HSI), workforce surveillance, policy evaluation	Continuous quality improvement and evidence-informed policy
A – Action-Oriented Policy & Systems Change	Embed sustainability into organisational systems	Workforce policies, workload redesign, staffing norms, psychologically safe workplaces	Sustainable workforce and institutional resilience

C. Multi-Level Implementation Strategy

A defining feature of SAHARA is its multi-level approach. Human Sustainability cannot be achieved solely through individual behavioural change; it requires supportive organizational environments, resilient communities, and enabling public policy.

At the individual level, interventions focus on emotional wellbeing, resilience training, health literacy, and adaptive coping skills.

At the organisational level, priorities include psychologically safe leadership, workload management, employee engagement, occupational health services, flexible working practices, and continuous wellbeing assessment.

At the community level, partnerships with educational institutions, local governments, civil society organizations, and digital health platforms strengthen access to preventive resources while promoting social connectedness and community resilience.

At the national level, Human Sustainability should be integrated into workforce development strategies, labour policy, occupational health regulations, digital public health infrastructure, and One Health implementation frameworks. Such integration would position workforce wellbeing as a strategic investment supporting productivity, innovation, and sustainable national development.

D. The Human Sustainability Index (HSI)

To support implementation, this paper proposes the Human Sustainability Index (HSI) as a multidimensional assessment tool capable of monitoring workforce wellbeing across organisations, occupational sectors, and communities.

Unlike traditional health indicators that primarily measure disease prevalence or healthcare utilisation, the HSI is intended to assess the adaptive capacities that enable sustainable workforce functioning.

The proposed domains include:

- i. Psychological wellbeing
- ii. Burnout risk
- iii. Emotional resilience
- iv. Organisational support
- v. Psychological safety
- vi. Leadership quality
- vii. Social connectedness
- viii. Community engagement
- ix. Work-life integration
- x. Access to preventive mental health resources

These domains may be measured using validated psychometric instruments, organisational performance indicators, absenteeism rates, staff retention, employee engagement, and relevant public health data. Composite scoring would enable benchmarking across organisations while informing evidence-based policy and resource allocation.

Although conceptual at present, the HSI provides an important foundation for future empirical research aimed at quantifying Human Sustainability within both public and private sectors.

Table 2. Proposed Human Sustainability Index Domains and Indicators

HSI Domain	Related SAHARA Pillar(s)	Example Indicators
Psychological Well-being & Resilience	Adaptive Resilience Development	WHO-5, CD-RISC
Burnout & Emotional Exhaustion	Healing & Recovery	Maslach Burnout Inventory
Organisational & Leadership Support	Sustainable Support Systems	Psychological Safety Scale, Perceived Organisational Support
Community & Social Connectedness	Sustainable Support Systems, Adaptive Resilience	Social Connectedness Scale
Access to Preventive Resources & Help-Seeking	Awareness & Early Identification, Action-Oriented Policy	Mental health literacy, service utilisation, digital access

E. Conceptual Validation and Future Development

The SAHARA Framework should initially be regarded as a conceptual model requiring systematic validation. Future studies should evaluate its reliability, feasibility, acceptability, and effectiveness across diverse occupational settings including healthcare, education, agriculture, manufacturing, hospitality, government services, and India's extensive informal workforce.

Validation should include psychometric development of the Human Sustainability Index, longitudinal assessment of workforce resilience, organisational intervention trials, and cross-sector implementation studies. Such research will determine whether investments in Human Sustainability produce measurable improvements in employee wellbeing, organisational performance, healthcare utilisation, productivity, and long-term national resilience.

By integrating preventive public health, occupational wellbeing, organisational psychology, and systems thinking, the SAHARA Framework provides a practical roadmap for translating Human Sustainability from an emerging concept into an evidence-informed strategy capable of strengthening both workforce resilience and sustainable national development.

IV. APPLICATIONS ACROSS INDIA'S WORKFORCE

The relevance of Human Sustainability extends across every major occupational sector in India. Although workplace challenges differ considerably between professions, a common pattern emerges: sustained performance depends not only on technical competence but also on the psychological, emotional, and social resources available to workers.

Healthcare professionals frequently operate in high-pressure environments characterised by long working hours, emotional labour, critical decision-making, and repeated exposure to trauma. Burnout among healthcare workers has

been associated with reduced quality of care, increased medical errors, absenteeism, and workforce attrition. Human Sustainability interventions within healthcare should therefore prioritise psychological safety, peer support, leadership development, adequate recovery opportunities, and accessible mental health services.

Educational institutions face similar challenges. Teachers increasingly balance instructional responsibilities with administrative demands, technological adaptation, student wellbeing, and parental expectations. Chronic occupational stress contributes to emotional exhaustion, declining job satisfaction, and reduced educational quality. Strengthening resilience among educators supports not only teacher wellbeing but also student learning outcomes and institutional effectiveness.

Agriculture represents another critical priority within the Indian context. Farmers experience financial uncertainty, climate variability, market fluctuations, and significant psychosocial stress. Preventive approaches should therefore integrate financial literacy, community-based mental health initiatives, digital advisory systems, climate adaptation strategies, and social support networks. Such investments contribute simultaneously to individual wellbeing, food security, and national economic resilience.

Hospitality and customer service industries depend heavily upon emotional labour. Employees are expected to demonstrate empathy, attentiveness, and professionalism despite irregular schedules, demanding workloads, and frequent interpersonal challenges. Organizations within these sectors should promote supportive leadership, healthy work environments, flexible scheduling where possible, and recovery practices that reduce emotional exhaustion and staff turnover.

Within corporate and technology sectors, rapid digitalization has transformed both the opportunities and demands of modern work. Remote and hybrid employment models provide flexibility but have also blurred boundaries between professional and personal life. Continuous connectivity, information overload, and expectations of constant availability increase the risk of burnout and disengagement. Sustainable organizational performance therefore requires psychologically safe leadership, manageable workloads, employee autonomy, and organizational cultures that value recovery alongside productivity.

The informal workforce deserves particular attention because it represents the majority of India's labour force. Street vendors, domestic workers, construction labourers, transport workers, gig-economy participants, and self-employed individuals frequently lack access to occupational health services, employee assistance programmes, and structured wellbeing initiatives. National Human Sustainability strategies must therefore include community-based, digitally enabled, and low-cost preventive interventions capable of reaching workers outside traditional employment systems.

Across all sectors, the central principle remains consistent: resilient institutions depend upon resilient people. Investments in workforce wellbeing should therefore be recognised as investments in productivity, service quality, innovation, and sustainable national development rather than discretionary welfare initiatives.

V. POLICY IMPLICATIONS

Recognising Human Sustainability as the fourth pillar of One Health has important implications for public policy. Rather than responding primarily to illness after it occurs, governments should increasingly invest in preventive strategies that strengthen resilience before significant psychological or occupational impairment develops.

National policy should encourage the integration of Human Sustainability indicators within occupational health standards, organizational accreditation systems, labour regulations, and public health programmes. Ministries responsible for health, education, labour, rural development, and digital governance can collaborate to establish coordinated strategies that promote psychological wellbeing, leadership development, workplace resilience, and community engagement.

For organizations, Human Sustainability should become a strategic performance indicator alongside financial and operational outcomes. Employee wellbeing, psychological safety, organizational trust, and adaptive capacity should be monitored using evidence-based assessment tools such as the proposed Human Sustainability Index (HSI). Such metrics enable organizations to identify emerging risks, evaluate interventions, and strengthen long-term workforce resilience.

At the community level, partnerships among healthcare providers, educational institutions, civil society organizations, and digital health platforms can improve access to preventive services, reduce stigma surrounding mental health, and promote social connectedness. These collaborative approaches align closely with the principles of the One Health, One Nation vision by recognizing that resilient communities are fundamental to resilient institutions.

VI. FUTURE RESEARCH

The Human Sustainability framework and the SAHARA model are proposed as conceptual innovations requiring systematic empirical validation.

Future research should prioritise four areas.

First, the Human Sustainability Index should be developed and psychometrically validated using representative samples across multiple occupational sectors. Establishing reliability, validity, and normative benchmarks will enable meaningful assessment of workforce resilience.

Second, longitudinal studies should investigate how Human Sustainability predicts organisational performance, employee wellbeing, absenteeism, staff retention, innovation, and healthcare utilisation over time.

Third, intervention studies should evaluate the effectiveness of SAHARA-based programmes across healthcare, education, agriculture, manufacturing, hospitality, public administration, and informal employment settings. Comparative studies may determine which interventions produce the greatest improvements in resilience and organisational functioning.

Finally, international collaboration will be valuable in examining the applicability of Human Sustainability beyond India. Comparative studies involving BRICS nations and other low- and middle-income countries may demonstrate the broader relevance of Human Sustainability within global public health, workforce development, and sustainable economic policy.

VII. CONCLUSION

The challenges confronting modern societies extend far beyond the prevention of infectious disease or the treatment of chronic illness. Workforce transformation, climate change, technological disruption, demographic transitions, and global public health emergencies increasingly demand resilient individuals, adaptive organisations, and sustainable institutions. These realities require a broader understanding of health one that recognises human capability as a strategic national resource.

This paper proposes Human Sustainability as an expanded framework capable of strengthening the One Health paradigm by integrating psychological wellbeing, resilience, organisational health, and social connectedness into preventive public health. Within this broader perspective, the SAHARA Framework provides a practical roadmap for translating Human Sustainability into coordinated action across individual, organisational, community, and policy levels. The proposed Human Sustainability Index further offers a foundation for measuring resilience, monitoring workforce wellbeing, and informing evidence-based decision-making.

For India, where rapid economic growth is accompanied by profound workforce transformation, investment in Human Sustainability is not simply a health initiative but a nation-building strategy. Healthy economies depend upon healthy people, resilient institutions depend upon resilient workforces, and sustainable development ultimately depends upon the capacity of individuals and communities to adapt, contribute, and thrive.

Recognising Human Sustainability as the fourth pillar of One Health represents a conceptual evolution in public health thinking. It shifts the focus from responding to crises toward cultivating the human capacities that enable societies to withstand future challenges. If validated through interdisciplinary research and implemented through collaborative policy, the SAHARA Framework has the potential to strengthen workforce resilience, improve public health, and contribute to a more sustainable and equitable future under India's One Health, One Nation vision.

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