



BUILDING A MORE SUSTAINABLE, INCLUSIVE AND INNOVATIVE TOMORROW

People | Policy | Technology |
Leadership | Global Impact

SUSTAINABILITY IN ACTION

Ideas, innovations
and collective effort
for a greener planet



LEADERSHIP FOR A CHANGING WORLD

Vision, values and
people who make
a difference



AI AND THE NEXT FRONTIER

Opportunities,
challenges and
the human perspective



PEOPLE, INCLUSION AND SOCIAL IMPACT

Stronger communities
for a brighter future



SPECIAL FEATURE

INDIA 2047:

PEOPLE • PROGRESS • POSSIBILITIES

Charting the Path to a Developed and Empowered Nation



EDUCATION
& SKILLS

Preparing
for the future



INDUSTRY
& INNOVATION

Driving growth
and competitiveness



ECONOMY
& POLICY

Building resilience
and opportunity



SOCIETY
& INCLUSION

Leaving no one behind



ENVIRONMENT
& SUSTAINABILITY

For a healthier
and brighter planet



EDITORIAL

BUILDING A MORE SUSTAINABLE, INCLUSIVE AND INNOVATIVE TOMORROW

Ideas, people and innovation must come together to create a brighter, fairer and greener future.

The future is no longer something we can simply wait for — it is something we are creating through the choices we make today. Technology is advancing at extraordinary speed, businesses are redefining their strategies, societies are becoming more interconnected and environmental concerns are compelling us to reconsider conventional models of development.

Against this backdrop, Issue No. 03 of Factsopedia explores a central idea: Building a More Sustainable, Inclusive and Innovative Tomorrow. These three dimensions are interconnected and must progress together to create a better world.

Sustainability must become part of everyday decision-making. Artificial Intelligence is transforming how we learn, work and make decisions, but its use must be guided by human values. Inclusion ensures that the benefits of progress reach every section of society. Leadership is crucial for building resilient institutions. And for India, the journey towards 2047 offers a historic opportunity to become a developed and empowered nation.

The future will not emerge automatically. It requires collaboration across government, industry, academia and society. At Factsopedia, we remain committed to bringing meaningful insights and ideas that encourage informed thinking and positive action.

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A sustainable, inclusive and innovative tomorrow will not emerge automatically. We have to build it — together.

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By Dr. Gaurav Jangra

Editor-in-Chief, Factsopedia

EDITOR'S NOTE



The future we inherit will reflect the choices we make today. Sustainability, inclusion and innovation are not separate goals; they are interconnected pillars that must progress together. Through this issue, we aim to bring ideas, research and perspectives that inspire a more responsible, equitable and prosperous tomorrow.



INDIA 2047: PEOPLE, PROGRESS AND POSSIBILITIES



India's journey to a developed and empowered nation will depend on the quality of education, entrepreneurship, research, technological capabilities, social inclusion and environmental sustainability. With the right investment in its people, the possibilities are immense.



SUSTAINABILITY IS NO LONGER AN OPTION



Climate change and resource depletion remind us that growth cannot continue at the expense of the planet. Sustainability becomes meaningful when responsibility turns into action.



ARTIFICIAL INTELLIGENCE AND THE NEXT FRONTIER



AI is transforming how we learn, work, research and make decisions. The goal should be to use AI to augment human potential while preserving human values.



INCLUSION MUST BE AT THE HEART OF PROGRESS



A truly progressive future must provide opportunities irrespective of gender, geography, socioeconomic background or physical ability. When opportunities become more inclusive, innovation itself becomes richer.



LEADERSHIP FOR A CHANGING WORLD



Today's leaders must demonstrate vision, adaptability, integrity, empathy and accountability. Leadership is about empowering others and building institutions that continue to succeed even after the leader is gone.





THE GLOBAL DILEMMA: CAN GLOBAL COOPERATION SURVIVE NATIONAL INTERESTS?

As global challenges grow more complex, the world faces a critical question: can nations set aside individual interests to work together for a safer, fairer and more sustainable future?

The world today stands at a difficult crossroads. Nations are more interconnected than ever, yet international politics is increasingly shaped by competition, nationalism and the pursuit of national advantage. Climate change, pandemics, wars, economic instability, artificial intelligence and cyber threats do not respect borders. Yet the countries expected to address these problems often disagree about who should bear the costs, who should make the rules and whose interests should come first.

This creates a central dilemma of our age: Can global cooperation survive when national interests remain the primary concern of states?

GLOBAL COOPERATION AND ITS PROMISE

Global cooperation, or multilateralism, is based on the idea that countries can achieve more by working together than by acting alone. The United Nations describes multilateralism as collective action among countries to address problems that individual states cannot solve by themselves.



A more secure, stable and prosperous world is possible only when countries choose collaboration over confrontation.

THE RISE OF NATIONAL INTERESTS

National interest is at the heart of international relations. Governments are ultimately accountable to their own citizens, and they naturally prioritize economic growth, employment, national security, energy supplies and political stability.

During periods of crisis, countries may impose trade restrictions, compete for strategic technologies or strengthen military capabilities. While national competition can drive innovation and development, problems arise when it becomes so intense that countries are unwilling to cooperate, even when cooperation is in their long-term interest.

CHALLENGES THAT TRANSCEND BORDERS

Many of today's most serious challenges are fundamentally international. Climate change, infectious diseases, financial instability and cyberattacks can spread across countries within a short time. Artificial intelligence, one of the most transformative technologies of our era, also requires global coordination due to its far-reaching impact on security, employment and society. Pursuing narrow national interests may offer short-term gains, but it can ultimately worsen global risks and undermine a country's long-term security.

AREAS WHERE GLOBAL COOPERATION IS CRUCIAL



CLIMATE CHANGE

A shared planet needs shared responsibility.



PANDEMICS

Health security is a global priority.



AI & TECHNOLOGY

Innovation must be guided by global norms.



ECONOMIC STABILITY

Interconnected economies require collective solutions.



PEACE & SECURITY

Lasting stability comes through dialogue and trust.



By Ms. Komal Singh

Research Scholar,
Chandigarh University

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True progress in a divided world is possible only when nations recognise that their future is shared, and no country can thrive in isolation.

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KEY TAKEAWAYS



Global challenges require global solutions.



National interests and global cooperation must coexist.



Trust, dialogue and inclusive institutions are essential.



Long-term security depends on collective action, not isolation.



A fairer, safer and sustainable future is possible through collaboration.





THE QUIET REDESIGN OF THE CLASSROOM

AI hasn't replaced teachers and researchers — it has redrawn what they spend their time on. Here's what that shift actually looks like, up close.

Sunday nights used to mean thirty essays and a red pen. Today, an AI tool drafts first-pass feedback in minutes, and the teacher spends that saved hour on the one student who actually needed her attention.

That shift is happening everywhere in education. Roughly six in ten U.S. teachers now use AI at work, nearly double last year's rate. Most are using it for exactly what eats their evenings: proofreading, lesson plans, quizzes. But readiness hasn't kept pace. Seven in ten teachers say they don't feel fully prepared to use these tools well, and nearly all want more support from school leaders. This isn't resistance, it's infrastructure moving faster than training.



When technology handles the routine, humans get back to what truly matters — guidance, curiosity and growth.



By Ms. Kiran Shukla

“AI is not here to replace educators, but to empower them to focus on what truly matters — teaching, mentoring and building better human beings.”

1 WHERE IT'S WORKING



Feedback, fast. Draft-level grading now takes minutes, not weekends, freeing teachers for the judgment calls no model can make, like telling genuine confusion from a bad week.



Real personalization. AI can adjust difficulty, surface targeted practice and flag a struggling student weeks before a report card would — the individualized-tutoring model researchers have chased for decades, now within reach.



Research, compressed. Literature reviews that took a month can now take days. AI tools summarize published work and surface patterns across thousands of studies, leaving more room for the thinking itself.

2 THE REAL RISKS



Cheating concerns. Over half of teachers cite AI essay generators as the top method, with AI-assisted exam help close behind. Detection tools remain unreliable and prone to false positives.



Risk of dependency. Students who never wrestle with a hard first draft may never learn to write one, and researchers who rely entirely on AI summaries may miss important insights. Speed, unchecked, can produce fluency without depth.



Equity challenge. AI can support students without private tutors, but without deliberate investment, it may widen the gap — well-resourced schools get both the tool and training, under-resourced ones often get only the tool.

3 WHAT GOOD PRACTICE LOOKS LIKE



Treat AI output as a first draft, never a final answer.



Teach students to question and critically evaluate AI-generated content.



Provide proper training and professional development for educators.



Use AI thoughtfully and know when not to, especially in assignments where struggle is part of the learning process.

4 THE TAKEAWAY



The bigger story here isn't automation — it's a redistribution of attention. The repetitive, searchable parts of teaching and research are moving to machines. What's left is harder to automate and, increasingly, harder to overlook.



The teacher who no longer spends her Sunday night on grammar hasn't lost part of her job. She's been handed back the time to do the part that mattered most all along.

KEY TAKEAWAYS



AI can enhance teaching, learning and research when used thoughtfully.



Teachers need proper training and institutional support.



Human judgment, creativity and empathy cannot be replaced by machines.



Equity and access must be prioritized to avoid widening the education gap.



The future of education lies in a balanced partnership between AI and human educators.

