



**POLITICS & DEMOCRACY**

Volume XI • Issue

III March 2025

Pages 52 • Rs. 40/-



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Volume XI, Issue III | March 2025 | Pages 52 | Rs. 40

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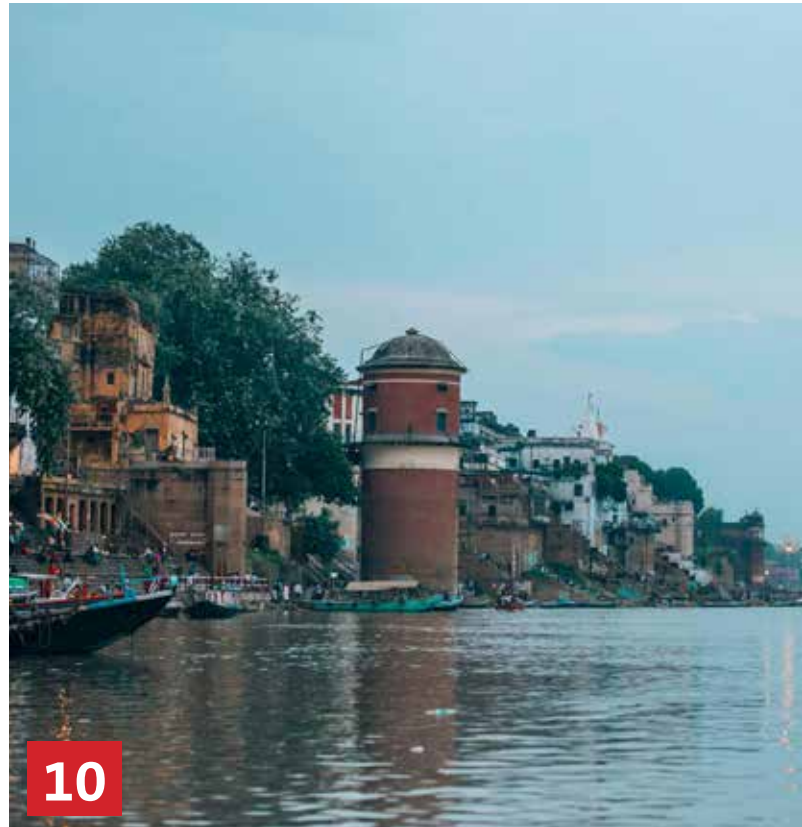
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## Bihar 2025

Through Union Budget 2025, India focuses its development efforts on Bihar by outlining plans to deal with past infrastructure neglect along with agricultural problems and human resources needs. Through its budget allocation of over ₹60000 crores, the state receives the largest support package ever which will set Bihar on a new path. In their upcoming assembly polls, the state needs budgetary funds to reach its political aims while making investments for...



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## Trump-Zelenskyy Meeting Ends in Tension Amidst Ongoing Ukraine Conflict



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being grateful for U.S. support, while Zelenskyy emphasised the need for substantial security assurances.

The meeting concluded without an agreement, and Trump later suspended U.S. military aid to Ukraine, exacerbating tensions. However, in recent days, Zelenskyy has expressed a willingness to negotiate with Russia and finalise the minerals deal, signaling

a potential easing of tensions. Despite this, European leaders have rallied in support of Ukraine, underscoring the importance of U.S. involvement in securing peace. Upcoming talks in Saudi Arabia aim to explore steps toward ending the conflict. The situation remains volatile, with Ukraine's reliance on international aid critical to its defense against Russian aggression.



## India Faces New Tariff Challenges as US Imposes Reciprocal Duties

The United States has announced the imposition of reciprocal tariffs on India, effective April 2, 2025, in response to what President Donald Trump describes as

"unfair" trade practices. Trump criticized India for charging high tariffs, particularly in the auto sector, where duties exceed 100% on U.S. goods. This move is part of a broader

strategy to align U.S. import duties with those imposed by other nations, affecting key Indian exports such as automobile parts, electronics, and textiles.

Indian officials are working to mitigate the impact, with Commerce Minister Piyush Goyal engaging in trade talks in Washington. Despite these efforts, India remains hopeful that ongoing negotiations for a bilateral trade agreement can help resolve trade issues. The U.S. has proposed a zero-tariff regime for most goods, excluding agricultural products, but it is unlikely to exempt India from the new tariffs. India is considered among the least vulnerable Asian economies in this trade war, but the tariffs still pose significant challenges.



## Europe Unites in Support of Ukraine Amidst Shifting US Stance



In a significant display of solidarity, European leaders have reaffirmed their commitment to supporting Ukraine in its ongoing conflict with Russia. This comes as the U.S., under President Donald Trump, has suspended

military aid to Ukraine, raising concerns about the reliability of American support. The EU's stance is driven by fears that Russia's aggression could extend beyond Ukraine, posing a threat to European security.

At an emergency summit in Brussels, EU leaders agreed to increase defense spending and enhance military capabilities to reduce reliance on the U.S. for security. They also pledged to provide substantial financial support to Ukraine, with plans to allocate 30.6 billion euros financed from Russian assets. Despite divisions on specific strategies, such as nuclear deterrence proposals by France, there is a consensus on bolstering defense and backing Ukraine.

Hungary's potential veto on supporting Ukraine could complicate EU unity, but most nations remain committed to Kyiv. The EU's efforts aim to ensure Ukraine's sovereignty and prevent a dictated peace, emphasizing the need for a just and fair resolution to the conflict. As tensions escalate, Europe's stance underscores its determination to protect Ukraine and bolster its own defenses against potential Russian aggression.

## SpaceX's Starship Suffers Second Consecutive Failure, Debris Scatters Over Florida and Bahamas

In a significant setback for SpaceX, its Starship rocket experienced a catastrophic failure during its eighth test flight, resulting in a fiery explosion in space. The incident occurred shortly after the spacecraft reached orbit, scattering debris across parts of Florida and the Bahamas. This marks the second consecutive failure for Elon Musk's ambitious Mars exploration program this year, following a similar explosion in January.

The mission aimed to test the rocket's capabilities and deploy dummy satellites, but it ended in disaster



when the Starship began spinning

uncontrollably with its engines shut off. Despite successfully recovering its massive first-stage booster, the upper stage's disintegration highlighted significant challenges in developing the Starship program. The Federal Aviation Administration temporarily grounded flights at four Florida airports due to debris concerns, underscoring the need for rigorous safety measures. SpaceX is working closely with regulatory bodies to investigate the cause and ensure public safety, emphasizing that lessons from these failures will improve Starship's reliability.

## Japan Battles Largest Wildfire in Decades as Ofunato Blaze Continues



Japan is grappling with its largest wildfire in over three decades, as a massive blaze continues to rage in the northern region of Iwate Prefecture. The fire, which

began on February 26, 2025, in the city of Ofunato, has spread across approximately 2,900 hectares (7,200 acres) of forested land, making it the largest wildfire in Japan's history. The

inferno has resulted in one fatality and forced the evacuation of over 4,500 residents, with many seeking shelter in evacuation centers or with relatives.

Despite recent rainfall, the fire persists due to challenging weather conditions, including strong winds and snow. Prime Minister Shigeru Ishiba is considering declaring the disaster a "major disaster," which would provide additional government support for recovery efforts. Firefighters from across Japan, supported by aerial firefighting helicopters, are working tirelessly to contain the blaze. The evacuation order has been partially lifted for some areas, but remains in place for others as the situation continues to be monitored closely.

## Khalistani Extremists Disrupt Jaishankar's London Visit, Tear Indian Flag

In a disturbing incident, Khalistani extremists attempted to disrupt Indian External Affairs Minister S Jaishankar's visit to London, escalating tensions during a public event at Chatham House. On March 6, 2025, a protester ran towards Jaishankar's car and tore the Indian national flag in front of police officers, who initially appeared unresponsive before intervening to detain the individual.

The incident occurred as Jaishankar was leaving the venue, with pro-Khalistan supporters chanting slogans and waving separatist flags outside. The UK government condemned the act, stating that such attempts to intimidate or disrupt public events are "completely unacceptable"[6]. UK Opposition MP Bob Blackman raised the issue in Parliament, criticizing the security lapse and calling for measures to ensure the safety of



visiting dignitaries.

India strongly condemned the security breach, urging the UK to fulfill its diplomatic obligations to

protect visiting officials. Despite this, Jaishankar's visit aimed to strengthen India-UK ties, focusing on strategic partnerships and bilateral issues.



## Karnataka Caps Movie Tickets at Rs 200 Across All Cinemas

**K**arnataka Chief Minister Siddaramaiah announced that movie ticket prices will be capped at Rs 200 across all theaters, including multiplexes, in the state. This decision, part of the state's 2025-26 budget, aims to boost cinema attendance and support the local film industry by making movies more affordable for the general public.

The cap applies to all films, regardless of language, and is expected to increase footfall in theaters. This move follows similar initiatives in other states like Tamil Nadu, which has long maintained



affordable ticket prices. Additionally, the government plans to launch a state-run OTT platform to promote Kannada cinema and has granted industry status to the cinema sector, making it eligible for benefits under the Industrial Policy.

While the decision is welcomed

by many, multiplex operators have expressed concerns about the financial viability of such a cap, as it could impact their business model and revenue from high-priced tickets for blockbuster films. Despite these challenges, the move is seen as a positive step for the Kannada film industry and local audiences.

## India Clinches Record Third ICC Champions Trophy Title with Thrilling Win Over New Zealand



**I**ndia secured a historic third ICC Champions Trophy title by defeating New Zealand by four wickets in the 2025 final held at the Dubai International Cricket Stadium. Led by captain Rohit Sharma, India

remained unbeaten throughout the tournament, showcasing a dominant performance in all departments.

In the final, India restricted New Zealand to 251/7, thanks to impressive bowling from Kuldeep Yadav (2/40)

and Varun Chakaravathy (2/45). Rohit Sharma set the tone for the chase with a crucial 76, while Shreyas Iyer (48) and KL Rahul (34\*) played pivotal roles in securing the win. The match ended with Ravindra Jadeja hitting the winning runs, sparking jubilant celebrations among the Indian team and fans.

This victory marks India's seventh ICC title and extends their record in the Champions Trophy, following wins in 2002 (shared with Sri Lanka) and 2013. Rohit Sharma became the second Indian captain, after MS Dhoni, to win multiple ICC trophies, solidifying India's dominance in white-ball cricket.



**"The Budget is progressive and futuristic. It will help accelerate the state's growth. I thank Prime Minister Narendra Modi and Finance Minister Nirmala Sitharaman for this."**

**-Nitish Kumar  
(CM of Bihar)**

# Bihar 2025

● Adarsh Tiwari

**Through Union Budget 2025, India focuses its development efforts on Bihar by outlining plans to deal with past infrastructure neglect along with agricultural problems and human resources needs. Through its budget allocation of over ₹60000 crores, the state receives the largest support package ever which will set Bihar on a new path. In their upcoming assembly polls, the state needs budgetary funds to reach its political aims while making investments for lasting progress. This evaluation shows how Bihar can use budget funds to overcome its poor state status and drive development in eastern India.**

## **Bihar's Dual Reality—Potential and Peril**

While Bihar has unexploited possibilities it struggles with severe developmental problems at the same time. Bihar with its 9% share of residents generates only 3.1% of the nation's total GDP output. 80% of its workers depend on agriculture but the sector suffers from poor output because farms are small and exposed to weather risks. Through its infrastructure development and training programs plus updates to production systems the 2025 Budget aims to establish a different growth path for Bihar. For the budget to succeed Bihar needs to solve longstanding problems in government corruption and slow bureaucracy alongside training shortages. This budget could determine if investors choose Bihar to launch a new \$500 billion economy by 2035 as they see building opportunities in the region.





## Agricultural Revitalisation

### The Makhana Board

State authorities took their biggest horticultural opportunity yet through forming an Makhana Board. Due to its substantial makhana production of 90% for India Bihar intends to turn the ₹5,000 crore cottage industry into a globally successful value chain. The board designs a sequenced approach to turn makhana into a globally valued health supplement from its current regional food status.

The project creates 100,000 smallholder farmers into 12 specific districts that form Farmer Producer Organisations. By working together the collectives will secure favorable market rates, obtain affordable production tools, and adopt methods



that resist climate challenges. The national budget assigns ₹1,200 crore to build joint processing centers in Darbhanga and Madhubani. Our facilities will use AI technology and vacuum fryers to manufacture gluten-free products for European and North American export markets where international food safety needs exist and demand for superfoods grows by 14% yearly. The state seeks to get makhana internationally recognised through a Geographic Indication (GI) tag which will align its market position with that of other globally successful branded products. Experts expect a Geographical Indication certification will raise farmers' income by 35-40% during the next three years.

### Western Kosi Canal Project

The ruling party invests 1200 crore rupees to revive the Western Kosi Canal Project which combats simultaneous threats from lack of water and floods. When ready for use the 196km pipeline system will irrigate 58,000 hectares across eight



districts in Mithilanchal to increase maize output by 100% while making oilseed production soar by 300%. The project includes Dutch-made flood protection gates and automatic water controls to stop 2.5 million hectares from flooding in 2023. The canal's operations will serve both projects by delivering piping water to 1200 villages and lightening women's manual water tasks while improving their health.

## Infrastructure Revolution

### Aviation

The aviation industry in Bihar is ready to grow rapidly through four essential actions. These four new greenfield airports at Bhagalpur, Motihari, Saharsa, and Jehanabad will open direct



connections from the state's rural areas to the national and global air transportation system. Motihari airport serves as a cargo center for farming products through exports to South East Asia. The facility stands 40 km from the Nepal border. The Jay Prakash Narayan International Airport in Patna prepares to serve 20 million annual passengers when the new terminal opens to offer aerobridge and automatic luggage handling facilities. Bihar stands ready to develop aerospace production thanks to a ₹850 crore Bihta Air Force Station upgrade into a civilian-operable facility which enables partnership with nearby IIT Patna defense research activities. The old World War II airstrip in Darbhanga prepares to become a UDAN link for regional travel which benefits 4 million residents of Mithila.

### Road and Rail

The budget helps establish two path-changing transportation routes. Drivers will travel 556 kilometers on the Ganga





Expressway from Patna to Kolkata through Bhagalpur after joining the Bharatmala Pariyojana which reduces shipping expenses by 30%. The progress of Bihar into Delhi-Kolkata Dedicated Freight Corridor gets stronger as Muzaffarpur and Gaya open electronics and agro-exports logistics parks. The new logistics parks enable a fast 100-kmph train service through the DFC to bring Muzaffarpur lychees to Dubai shops in two days and Gaya silk to Paris stores in three days.

## Educational Empowerment

### IIT Patna 2.0

The ₹650 crore expansion of IIT Patna goes beyond standard university operations. The university will train 4,000 students before 2027 and it will give 40% of these slots to students from Bihar. The institute leads South Asia with its new River Ecology Center which develops strategies to protect cities along the Ganges River from floods. Kyoto University and Toshiba have joined forces with India to create a research facility aimed at making Indian chips self-sufficient. Students from the "IIT-Industry 360" program will do joint development work in local MSMEs by creating technology such as rice mills running on solar power plus AI systems to detect farm pests.

## National Institute of Food Technology

The new institute in Darbhanga will transform how farming businesses operate across all of Bihar's agricultural sector. Its researchers develop low-cost packaging for makhana

which doubles shelf life from six to eighteen months helping the product enter new export markets worth ₹2,000 crore. Through our partnership with Volcani Center, we will teach farmers mango irrigation methods while our nanotechnology laboratories will make stronger lentils that fight anemia in women.

## Social Architecture

### Gig Worker Safeguards

Bihar became the first Indian state to create a formal registry





of its 1.2 million gig platform workers who aspire to Swiggy rideshare drivers and Uber delivery partners. Individual workers obtain access to accident and skill insurance benefits through biometric ID cards. The government works with internet platforms to build local talent groups by providing 50,000 women in Muzaffarpur online commerce delivery training.

## Healthcare

The budget provides increased health services to make them easier to access. Thirty-six new medicines were added to the free medicine program of the nation including TB vaccines



that use mRNA technology and anti-venom treatments. Mobile clinics with telemedicine technology will visit worker migration paths in busy periods while mental health services under Ayushman Bharat health insurance became available to attend the spike in farmer suicide cases which increased by 22% last year.

## Economic Implications

### Sectoral Metamorphosis

The budget arranges money across different industries to



rearrange how Bihar uses its resources. Agriculture receives ₹8,200 crore to increase exports from \$2.5 billion today to \$7.5 billion in 2030. The budget provides ₹22,000 crore to quadruple infrastructure growth up to 12.1% annually by establishing 500 MW solar parks in Kaimur and building Patna Metro Phase II. The money allocated for Education at ₹4500 crore will establish digital classrooms across 23000 primary schools and set up Augmented and Virtual Reality laboratories in 500 secondary schools.

## Private Investment Surge

The new policies made businesses want to invest more in the area than ever before. Tata Electronics wants to build a 6,000 crore component plant near Bihta Airport while Olam International plans to put 1,200 crore into a makhana processing unit in India. 50 hotels in the Bodh Gaya area are being built because tourism has begun to recover again. One of these new hotels is run by the Taj Group and features a meditation center for Buddhists.





## Political Landscape

### Electoral Calculus

Voters from every budget-affected district contribute 68% to Bihar's total electorate of 76 million people making these grants a major factor in the elections. The JD(U) and BJP form a pact to build the "New Bihar" they contrast it with RJD's view that the center ignores Bihar. The main winning areas Seemanchal land Kosi now have direct access to specific development funds totaling ₹2,100 crore and ₹1,800 crore respectively.

## Implementation Hurdles

Historical bottlenecks threaten progress. During 2024 the state of Bihar managed to use just 72% of its available funds because property purchases took too long and contractors fleeced public funds. The public authority monitoring aviation projects needs to halt operations on flood-prone land but conservationists warn makhana farming would eliminate 34,000-hectare wetlands.

## Challenges Ahead

### Employment

Bihar demands 1.8 million fresh employment opportunities each year as its young population grows. The majority of available work positions do not receive official employment status. The program to teach 500,000 youths about AI robotics

requires solving two main issues: just 12% of ITI students meet employer standards and 78% of rural women do not know how to use digital devices.

## Ecological Sustainability

Development projects risk ecological costs. The development of these airports in vulnerable flood areas will displace 12,000 families causing damage to the natural water systems. Environmental experts suggest Kerala's eco-friendly approach in their projects by combining water storage systems with wild animal migration paths.

## Bihar's Tryst with Destiny

The 2025 Budget provides Bihar with a special moment to transform into a new identity. Achievement demands these steps: improving governance for fast project handling, listening to local people for scheme development, protecting nature from growth impacts, and securing political backing to keep progress moving forward past elections. Bihar could reproduce China's Sichuan model by developing its workplace into a modern agro-industrial base through the proper application of this strategy. With its ideal location and abundant land coupled with young talent, the state of Bihar can lead India's economic expansion. The budget sets things in motion yet the real development flame needs continuous innovation plus oversight and support for all citizens. Bihar now faces a moment in history where it can become the leading example for balanced and resilient development. ■



# *Rock Painting*

*Earliest attempt by human beings to depict their natural world symbolically*



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# How Technology is Transforming the Construction Industry

● Vishal Prajapati

The construction industry has long been regarded as a traditional sector, slow to adopt new technologies. However, in recent years, a digital revolution has reshaped the industry, improving efficiency, safety, and sustainability. Technological advancements such as artificial intelligence, automation, and innovative materials are significantly altering the way buildings and infrastructure are designed, constructed, and maintained. This article explores the key technological trends driving transformation in the construction industry and their long-term impact.

## 1. Building Information Modelling (BIM)

Building Information Modelling (BIM) has revolutionised construction planning and design. BIM is a digital representation of a building's physical and functional characteristics, enabling architects, engineers, and contractors to collaborate more effectively.

### Key Benefits of BIM:

● **Enhanced Visualization:** 3D modelling provides stakeholders with a clear and detailed visual representation of designs before construction starts. It enhances understanding, reduces misinterpretations, and allows for better decision-making. By offering a realistic preview of the project, it helps identify potential issues early, ensuring smoother execution and improved collaboration among all parties involved.

● **Improved Coordination:** It minimizes clashes between various disciplines, such as plumbing, electrical, and structural elements, by identifying potential conflicts early in the design phase. This proactive approach ensures better coordination, prevents costly errors, and streamlines construction



processes, leading to a more efficient and seamless project execution with fewer disruptions and delays.

● **Cost and Time Savings:** It reduces errors and enhances resource utilization, ensuring smoother project execution. By improving accuracy and efficiency, it helps prevent costly mistakes, minimizes material waste, and streamlines workflows. This optimisation leads to better productivity, faster project completion, and improved overall quality in construction and infrastructure

development.

● **Lifecycle Management:** BIM simplifies maintenance and renovations by providing comprehensive data on a building's components. With detailed digital records, facility managers can efficiently track materials, systems, and structures, making repairs and upgrades more seamless. This enhances long-term building management, reduces downtime, and ensures informed decision-making throughout the structure's lifecycle.



## 2. Artificial Intelligence (AI) and Machine Learning

AI and machine learning are revolutionizing the construction industry by improving decision-making, safety, and efficiency. These technologies process



vast amounts of data to predict potential risks, optimise project schedules, and enhance cost estimation. By integrating AI-driven tools, construction firms can streamline operations, reduce delays, and improve overall productivity. Key Applications of AI in Construction:

- **Predictive Analytics:** AI leverages historical data to anticipate project delays, helping managers take proactive measures to keep projects on track.

- **Quality Control:** Using computer vision technology, AI can detect



construction defects in real time, ensuring higher accuracy and reducing rework.

- **Risk Management:** AI-powered algorithms assess workplace hazards, analyse safety conditions, and provide recommendations to mitigate potential risks, enhancing worker safety.

- **Automation in Design:** AI optimizes building layouts and designs, reducing manual planning efforts while ensuring cost-effective and efficient structures.

By embracing AI, the construction industry is moving toward smarter, data-driven decision-making, minimising inefficiencies, and improving project outcomes. As technology continues to advance, AI will play an even greater role in automating processes, enhancing quality, and ensuring construction projects are completed on time and within budget.

## 3. Drones in Construction

Drones have emerged as a crucial asset in the construction industry, offering advanced capabilities in aerial data collection, site inspections, and project monitoring. Their ability to capture high-resolution images and videos has significantly improved efficiency, accuracy, and safety in construction operations. Key Benefits of Drones in Construction:

- **Site Surveys and Mapping:** Drones capture detailed aerial imagery to generate precise topographical maps, allowing for accurate site analysis and planning.

- **Enhanced Safety:** By eliminating the need for workers to inspect hazardous or hard-to-reach areas manually, drones reduce workplace risks and improve overall safety standards.

- **Progress Monitoring:** Drones provide real-time aerial updates, enabling project managers to track construction milestones, assess site conditions, and document progress efficiently.

- **Cost Reduction:** Automating site inspections with drones reduces the reliance on manual labour, cutting down on operational costs while improving productivity.

By integrating drone technology, construction companies can enhance project efficiency, ensure safer working conditions, and optimize resource allocation. As drone capabilities continue to advance, their role in construction will expand, driving innovation and improving the accuracy and speed of construction projects.

## 4. Robotics and Automation

Automation and robotics are transforming the construction industry

by enhancing efficiency and minimizing the need for manual labour. Advanced robotic systems can now execute complex tasks such as bricklaying, 3D printing, welding, and demolition with remarkable precision, accelerating project timelines and reducing costs.

## Key Applications of Robotics in Construction:

- **Bricklaying Robots:** Machines like SAM (Semi-Automated Mason) can lay thousands of bricks daily, significantly improving speed, reducing labour expenses, and ensuring consistent quality.

- **3D Printing:** This technology allows for the rapid and cost-effective construction of buildings and homes using minimal materials and manpower, promoting sustainability and efficiency.

- **Demolition Robots:** Remote-controlled robots enhance worker safety by handling hazardous demolition tasks in high-risk environments, reducing the potential for accidents and injuries.

- **Automated Equipment:** Self-operating bulldozers and excavators streamline site preparation, increasing productivity and reducing human

intervention in repetitive or dangerous tasks.

By integrating robotics and automation, the construction sector can boost efficiency, lower costs, and improve workplace safety. As technology continues to advance, the adoption of robotic systems will further revolutionize the industry, making construction projects faster, more precise, and more sustainable.

## 5. Internet of Things (IoT) in Construction

The Internet of Things (IoT) is transforming the construction industry by integrating smart sensors and data analytics to connect machinery, materials, and workers. This connectivity enhances efficiency, improves safety, and optimizes resource management, making construction projects more streamlined and cost-effective. Key IoT Applications in Construction:

- **Equipment Monitoring:** IoT sensors track the performance of heavy machinery, providing real-time diagnostics to prevent breakdowns, reduce maintenance costs, and minimize downtime.

- **Smart Buildings:** IoT-enabled systems regulate energy consumption, detect maintenance needs, and automate operations, enhancing sustainability and reducing operational expenses.

- **Wearable Technology:** Smart helmets, vests, and other wearables monitor worker health and environmental conditions, alerting teams to potential hazards and improving on-site safety.

- **Supply Chain Optimization:** RFID tags and IoT tracking systems provide real-time data on material deliveries, reducing waste, preventing shortages, and ensuring construction projects stay on schedule.

By leveraging IoT technology, construction companies can enhance productivity, improve safety protocols, and reduce costs. As IoT continues to evolve, its impact on construction will grow, leading to more efficient project execution, better resource utilization, and safer working environments.

## 6. Sustainable Construction Technologies

Sustainability is becoming a top priority in the construction industry, with emerging technologies enabling companies to minimize their environmental impact and create more eco-friendly structures. By adopting innovative practices, construction firms are reducing waste, conserving resources, and enhancing energy efficiency. Key Sustainable Innovations in Construction:

- **Green Building Materials:** The use of eco-friendly materials such as recycled steel, bamboo, and engineered wood helps lower the environmental footprint while maintaining structural integrity.

- **Energy-Efficient Designs:** Smart HVAC systems, solar panels, and advanced insulation techniques optimize energy consumption, reducing operational costs and promoting sustainability.

- **Water Conservation Technologies:** Rainwater harvesting systems and low-flow fixtures help minimize water waste, ensuring responsible resource management in both residential and





commercial buildings.

● **Modular Construction:** Prefabricated modules streamline construction, significantly cutting down on material waste and reducing project completion times.

By incorporating these sustainable innovations, construction companies can build more environmentally responsible structures while improving efficiency and cost-effectiveness. As the industry continues to evolve, the integration of green technologies will play a crucial role in shaping a more sustainable and energy-efficient future for construction.

## 7. Augmented Reality (AR) and Virtual Reality (VR)

Augmented Reality (AR) and Virtual Reality (VR) are revolutionizing the construction industry by enhancing visualization, improving project execution, and streamlining collaboration. These immersive technologies provide interactive experiences that help workers, designers, and clients better understand and engage with construction projects. Key Benefits of AR and VR in Construction:

● **Enhanced Training:** Virtual simulations enable workers to practice safety protocols in realistic scenarios, improving preparedness and reducing on-site accidents.

● **Design Validation:** AR overlays digital building models onto physical construction sites, allowing stakeholders to view and assess designs in real time, ensuring accuracy and minimizing errors.

● **Client Presentations:** VR creates fully immersive, 3D walkthroughs of projects before construction begins, giving clients a realistic preview and enabling design adjustments early in the process.

By integrating AR and VR into construction workflows, companies can enhance efficiency, improve decision-making, and reduce costly revisions. These technologies bridge the gap between conceptual designs and real-world execution, offering greater accuracy and collaboration. As AR and



VR continue to evolve, they will play an increasingly vital role in shaping the future of the construction industry.

## 8. Cloud Computing and Big Data

Cloud-based solutions are revolutionizing project management by enabling real-time collaboration and data sharing.

### Impact of Cloud Computing:

● **Remote Access:** Teams can access project data from anywhere, improving efficiency.

● **Data-Driven Decisions:** Big data analytics help optimize project planning and execution.

● **Improved Documentation:** Digital records reduce paperwork and streamline workflows.

## 9. Challenges and Future Outlook

Despite the benefits, the construction industry faces challenges in adopting new technologies, including high initial costs, resistance to change, and cybersecurity concerns. However, as technology continues to evolve, it is expected to drive greater efficiency, sustainability, and safety in construction.

### Future Trends:

● **AI-Driven Construction Planning:** Smarter algorithms will further optimize project scheduling and resource allocation.

● **Blockchain for Contracts and Payments:** Secure, transparent transactions will improve efficiency in procurement and payments.

● **Increased Use of 3D Printing:** The technology will enable faster and more affordable housing solutions.

● **Autonomous Construction Equipment:** Drones and robots will play an even greater role in automating tasks.

Technology is revolutionizing the construction industry, enhancing efficiency, safety, and sustainability. From AI and robotics to IoT and AR, these innovations are reshaping how projects are designed and executed. As companies continue to embrace digital transformation, the construction sector is set to become more efficient, cost-effective, and environmentally friendly. The future of construction is undoubtedly high-tech, and embracing these changes will be essential for industry growth and development. ■

# Pollution and Health

Pollution has emerged as one of the most pressing global challenges, impacting not only the environment but also human health in profound ways. From the air we breathe to the water we drink and the food we consume, pollution infiltrates nearly every aspect of our lives, posing serious risks to public health. While technological advancements and industrial growth have improved living standards, they have also exacerbated environmental contamination, creating an urgent need for sustainable practices and policies.

● Adarsh Tiwari

The intersection of pollution and health is complex, involving various pollutants, health conditions, and socio-economic factors. Understanding this relationship is critical to mitigate the adverse effects of pollution and safeguard public health. This article delves into the multifaceted issue of pollution and its impact on human health, highlighting the causes, types, and solutions to this global concern.

## The Scale of Pollution

Pollution refers to the introduction of harmful substances into the environment, resulting in adverse effects on ecosystems and human well-being. It encompasses various forms, including air, water, soil, noise, and plastic pollution. According to the World Health Organization (WHO), pollution contributes to millions of premature deaths annually, with developing countries bearing the brunt of the burden. The consequences of pollution are not confined to physical health but extend to mental and social well-being, making it a comprehensive public health issue.

## Air Pollution and Health Risks

Air pollution is among the most significant contributors to health problems worldwide. It stems from various sources, including vehicle emissions, industrial discharges, and the burning of fossil fuels. The release



of pollutants such as particulate matter (PM2.5 and PM10), carbon monoxide (CO), nitrogen oxides (NOx), sulfur dioxide (SO2), and volatile organic compounds (VOCs) severely compromises air quality.

Prolonged exposure to polluted air can lead to chronic respiratory diseases like asthma and bronchitis, as well as cardiovascular complications. The fine particulate matter present in polluted air penetrates deep into lung tissues and can enter the bloodstream, causing inflammation and oxidative stress. Over time, these effects increase the risk of heart attacks and strokes. Moreover, the inhalation of toxic air pollutants has been linked to lung cancer and other malignancies. Beyond physical health, emerging studies suggest that air pollution may contribute to cognitive decline, including Alzheimer's disease and other forms of dementia.

## Water Pollution: A Silent Threat

Water pollution results from the contamination of water bodies through industrial effluents, agricultural runoff, and untreated sewage. Common pollutants include heavy metals,

nitrites, phosphates, and pathogenic microorganisms. Contaminated water is a primary cause of waterborne diseases such as cholera, typhoid, and hepatitis. These illnesses disproportionately affect vulnerable populations, particularly in regions lacking access to clean drinking water.

Heavy metals like lead and mercury, often found in polluted water, pose severe health risks. Lead exposure can damage the nervous system, particularly in children, leading to developmental delays and cognitive impairments. Mercury contamination, often associated with fish and seafood, can affect neurological function and fetal development during pregnancy. Endocrine disruptors, found in many industrial pollutants, interfere with hormonal balance and can have long-term reproductive and metabolic effects.

## Soil Pollution and Its Consequences

Soil pollution arises from the accumulation of harmful substances, including pesticides, fertilizers, industrial chemicals, and heavy metals. These pollutants degrade soil quality and





reduce agricultural productivity. Crops grown in contaminated soil absorb toxic substances, which then enter the food chain and pose health risks to consumers.

Ingestion of food grown in polluted soil can lead to chronic illnesses, including kidney and liver diseases. Direct contact with contaminated soil can cause skin disorders and infections. Furthermore, soil pollution's impact on biodiversity and ecosystem services indirectly affects human health by undermining food security and natural resource availability.

## Noise Pollution: An Overlooked Hazard

Noise pollution, though less visible than other forms, significantly affects public health. It is primarily caused by urbanization, industrial activities, and transportation systems. Chronic exposure to high noise levels can result in hearing loss, sleep disturbances, and psychological stress.

Stress induced by noise pollution has been linked to cardiovascular problems, including hypertension and increased heart disease risk. Additionally, persistent noise disrupts cognitive functions and

academic performance in children. These effects highlight the need to address noise pollution as part of public health strategies.

## Plastic Pollution and Microplastic Infiltration

Plastic pollution has reached alarming levels, with millions of tons of plastic waste entering the environment annually. This pollution not only threatens wildlife but also has direct and indirect impacts on human health. Microplastics, the small fragments resulting from the degradation of plastic products, are now ubiquitous in the environment and have been detected in food, water, and even human tissues.

Consumption of microplastics may lead to inflammation, oxidative stress, and hormonal disruptions. The chemicals leached from plastics, such as bisphenol A (BPA) and phthalates, have been linked to endocrine system interference and potential carcinogenic effects. Addressing plastic pollution requires reducing plastic production, improving waste management systems, and fostering global cooperation.

## Vulnerable Populations and Pollution Inequalities

The health impacts of pollution are not distributed evenly across societies. Children, the elderly, pregnant women, and individuals with pre-existing health conditions are more susceptible to pollution's adverse effects. Socio-economic factors also play a critical role, with low-income communities often exposed to higher pollution levels due to proximity to industrial zones and inadequate infrastructure.

In many developing countries, informal settlements near industrial areas experience severe air and water pollution. Residents of these areas face increased risks of respiratory diseases, waterborne infections, and toxic exposure. Addressing these disparities requires targeted policies that prioritize vulnerable populations and promote environmental justice.

## Technological and Policy Interventions

Efforts to combat pollution and its health impacts involve a combination of technological innovations and regulatory measures. Advanced technologies, such as air purification systems, wastewater treatment plants, and soil remediation techniques, can significantly reduce pollution levels. Research in green chemistry and biodegradable materials offers promising solutions to minimize environmental contamination.

On the policy front, international agreements like the Paris Agreement aim to reduce greenhouse gas emissions and limit global warming. National governments have enacted laws to regulate industrial emissions, manage hazardous waste, and promote renewable energy. Public awareness campaigns also play a crucial role in encouraging sustainable practices, such as reducing single-use plastics and conserving natural resources.

## The Role of Communities and Individuals

Community engagement is vital in addressing pollution at the grassroots level. Urban planning initiatives, such as creating green spaces and promoting public transportation, can reduce air and noise pollution in cities. Community-based recycling programs and waste management systems enhance resource efficiency and reduce landfill dependence. Individuals, too, have a role to play in reducing pollution. Simple actions, such as using energy-efficient appliances, minimizing plastic use, and adopting sustainable transportation options, can collectively make a significant difference. Public advocacy for stricter environmental regulations and corporate accountability further strengthens the fight against pollution.

By fostering collaboration among governments, industries, communities, and individuals, we can mitigate pollution's impact on health and create a cleaner, healthier world for future generations. ■



“

Madhya Pradesh stands at the forefront of India's growth story, making remarkable strides across diverse sectors and becoming a beacon of progress.

With its strong emphasis on ease of doing business, investor-friendly policies, and sustainable development, the state has created an enabling environment where innovation, industry, and infrastructure thrive.

As Madhya Pradesh continues on its transformative journey, it is poised to emerge as a pivotal force shaping India's economic future and a leading destination for global investors.

**Shri Narendra Modi**  
Prime Minister, India

# Madhya Pradesh Global Investor Summit 2025

**M**adhya Pradesh achieved a major investment milestone when the Invest MP Global Investor Summit (GIS) 2025 took place in Bhopal from February 24 to 25. During two days, the state demonstrated its capability to connect innovation with sustainability and cultural heritage while companies from 60+ countries proposed projects valued over 30.8 lakh crore rupees. During the summit, Madhya Pradesh demonstrated its plan to help India achieve \$10 trillion economy status by 2030 through new investment opportunities. Indira Gandhi Rashtriya Manav Sangrahalaya formed the perfect base for the live event that mixed traditional friendly behavior with

industrial planning ideas to reshape state economics.

## **A Confluence of Vision and Opportunity**

At GIS-2025 Prime Minister Narendra Modi declared this event would shape India's future economic growth and show how Madhya Pradesh helps regional goals meet international possibilities. Through extensive international promotion and local conversations, the Chief Minister built a platform that went beyond dealing with investors. During the event named "Infinite Possibilities," people celebrated that Madhya Pradesh has three main assets including its cross-country position,

agricultural and mineral resources, plus its pool of young workers. A total of 1200 attendees joined the event made up of Fortune 500 top executives and leaders belonging to diplomatic offices representing international multi-level institutions. The meeting created a strategic plan while building support for future development that benefited everyone.

## **Global Leadership and Collaborative Vision**

On the summit's first day, many distinguished experts from across the world gathered for the event. Business leaders Gautam Adani from Adani Group and Kumar Mangalam

● Adarsh Tiwari





I warmly welcome investors, industry leaders, and stakeholders to the Global Investors Summit 2025. Inspired by Hon'ble Prime Minister Shri Narendra Modi's vision of a Viksit Bharat by 2047, Madhya Pradesh is unlocking growth through progressive policies and sustainable development. With abundant resources, robust infrastructure, and a vibrant workforce, the state is fostering progress across key sectors like manufacturing, IT, and renewable energy, propelling India towards becoming a global economic powerhouse.

**-Dr. Mohan Yadav**  
**Chief Minister, Madhya Pradesh**

Birla from Aditya Birla Group joined political representatives from Morocco to Japan and industrial heads from Godrej Industries. In his leadership address, Prime Minister Modi explained the three key attributes of Madhya Pradesh including its endowed resources, human capital potential, and responsive administration. Chief Minister Yadav introduced a strategic plan to make this state stand among India's top three economies by 2030.

World Bank Country Director Auguste Tano Kouame praised Madhya Pradesh's progress in lifting people out of poverty at the same time as the state doubled agricultural output. According to him the state achieved 9.5% GDP growth in a decade because its government equally supported farmlands and industrial sectors. The ₹2.1 lakh crore investment plan from Adani shows corporate India trusts Madhya Pradesh's plans for renewable energy development.

Rwanda's High Commissioner and

German Consul General Thomas Graf conducted diplomatic talks which resulted in an MoU for mutual training programs and a plan for an Indo-German advanced manufacturing facility respectively. Multiple foreign representatives made GIS-2025 not just a state festival but an international forum about sustainable industry.

### Sectoral Breakthroughs

GIS-2025's sectoral sessions revealed a carefully curated growth strategy, balancing traditional strengths with emerging opportunities.

### Renewable Energy

Madhya Pradesh became the top producer of renewable energy in India through commitments totaling ₹5.7 lakh crore. The Adani Group will install 10 GW of solar power plants throughout Chhatarpur and Neemuch while UK firm Balfour Beatty put ₹6,000 crore towards hybrid wind-solar projects in

tribal districts. During the environmental hydrogen meeting, ACME Group declared their intention to establish a ₹12,000 crore electrolyzer plant in Pithampur where the state's water sources and industrial zones will be utilized.

CM Yadav established "Green Credit" investments to show that the state will treat energy development as a way to help tribal areas solve their problems. Union Minister R.K. Singh explained that when people of Alirajpur use solar power they not only receive electricity but also achieve their hopes.

### Tourism

The Tourism Summit launched a new marketing plan by making Madhya Pradesh the cultural entrance to India. As Head of Tourism Brands Madhya Pradesh Pankaj Tripathi unveiled the Spiritual MP route connecting Mahakaleshwar Ujjain to Omkareshwar and Chitrakoot. Business leaders including Oberoi Group and Dhamma Projects made official



Under the able leadership of the Hon'ble Chief Minister, these Regional Industry Conclaves are driving unprecedented industrial growth. The State's exceptional industrial environment has fostered the success of numerous businesses.

Bansal Group of Industries has announced plans to invest ₹1,350 Crores in the State, including the establishment of four super specialty hospitals, a 100 MW solar plant and a hotel.

**-Mr. Sunil Bansal**  
Managing Director  
Bansal Group of Industries

commitments totaling ₹68,000 crore for land developments in PENCH and SANCHI respectively.

MakeMyTrip invested ₹850 crore to build village homestays and set up tribal craft paths for the tourism experience. Tourism offers opportunities for guests to live new stories instead of spending time at particular destinations. Tourism Minister Usha Thakur announced during her session that the World desires to witness Madhya Pradesh's 10,000-year-old cave art and present temple worship.

## Technology & Innovation

The IT & Technology Summit showed that Indore became a main center for semiconductor production and drone engineering. Atta for Supporting Technologies of Bahrain promised 200 billion rupees to create a space for design innovation whereas Tholons Capital established India's first farming guidance platform equipped with artificial intelligence technology by leveraging MP's 1.2 million producer groups. AgriBot from Bhopal secured farming drone technology for detecting plant diseases with their ₹320 crore investment.

During a special discussion, NASSCOM President Debjani Ghosh talked with IIT Indore Director Professor Suhas Joshi about developing India's initial Regional Language LLM based on MP's many

speech variations. Our strategy makes technology available to everyone just like Aunty-National AI in Chhindwara markets and blockchain land records in Balaghat.

## Urban Development & Smart Cities

With ₹1.9 lakh crore in urban infrastructure commitments, the summit redefined smart urbanization. Japan's JICA finalized a ₹4,200 crore loan for Bhopal's metro phase-II, while Tata Realty unveiled plans for a ₹8,000 crore greenfield city near Jabalpur, featuring India's first hydrogen-powered public transit system. A session on circular economy saw Indore's municipal commissioner clinch a ₹1,100 crore PPP deal for waste-to-energy plants, building on the city's six-time "Cleanest City" accolade.

## Investment Milestones

The cost of total investments at the summit proves that global investors trust Madhya Pradesh for effective leadership. Investors from Singapore and the United Arab Emirates invested more than 31,851 crore rupees in the nation mostly through GIC Singapore's agri-logistics projects and the Indian People's Forum UAE's mineral processing activities. The Tata Group invested ₹7,500 crore in Pithampur to start making electric vehicles while Reliance Industries gave ₹18,000 crore for bio-energy parks in the same district.

Through 43% of new projects PM Modi aims to develop Bundelkhand and Baghelkhand regions as part of his balanced growth strategy. The renewable energy industry captured most of the funding at ₹5.7 lakh crore supported by ₹1.9 lakh crore for urban infrastructure and ₹2.12 lakh crore for IT and electronics ventures. Companies promised to create 17.3 million jobs in industries that need skilled workers mainly.

## Logistics Revolution

On Day 2 the top session called







The State not only has locational advantages, but also possesses a robust industrial ecosystem, excellent infrastructure and an educated workforce, all of which have propelled its economic growth. MP Birla Group's largest investment is in Madhya Pradesh and, in the next 3-4 years, the Group plans to invest an additional ₹3,500 Cr.

**-Mr. Sandip Ghose**

Managing Director & CEO  
MP Birla Group

Logistics: Connecting MP to the World presented an important logistics framework. Under its ₹43 billion strategy, Madhya Pradesh built both Indore and Bhopal multimodal logistics parks to connect better with global shipping lanes. DP World's CEO Sultan Ahmed Bin Sulayem declared plans to invest ₹3,200 crores to build a direct transportation route from Madhya Pradesh's car manufacturing district Pithampur to Mundra Port thus decreasing export logistics times by 40%.

Two leaders from NITI Aayog and FedEx Asia Pacific joined forces to talk about drone logistics as a new delivery method. According to CM Yadav the Drone Didi project will let 500 women SHGs use drones for medical and business deliveries by 2026. To evaluate supply chain performance districts use the Logistics Efficiency Index which allows them to reduce export costs by 30 percent by 2027.

## Policy Innovations

GIS-2025 wasn't just about capital—it was about institutional reinvention. The state launched 18 sector-specific policies, including:

MP Industrial Employment Initiative: Mandating 60% local hiring for incentivized projects.

- Land Bank 2.0: A blockchain-powered portal offering 15,000+ hectares of pre-cleared land with 3D virtual tours.

- Single Window 3.0: Reducing approvals from 35 to 10, with a 30-day clearance guarantee powered by AI-driven workflow automation.

A game-changer was the "Plug-Play-Pay" model for MSMEs, offering pre-built factories with 2-year tax holidays. "We've cut red tape so investors can focus on growth, not paperwork," asserted Industrial Policy Minister Rajesh Agarwal during a session attended by 600+ foreign delegates.

## Cultural Renaissance

Beyond boardrooms, the summit celebrated Madhya Pradesh's living heritage. The ODOP (One District One Product) Village showcased artisans like 72-year-old Ramlal Prajapati from Gwalior, whose terracotta pottery now graces Parisian stores via a ₹220 crore e-commerce tie-up. A textile summit saw designer Anita Dongre partner with Chanderi weavers for a luxury collection debuting at Milan Fashion Week.

The "Cinematic MP" session, featuring director Imtiaz Ali, announced 50% subsidies for films shot in MP's UNESCO sites. "When I shot *Jab We Met* in Patni Top, I didn't know MP's Pachmarhi could

offer Swiss vistas with Indian soul," Ali remarked, encapsulating the state's cultural pitch.

## The Road Ahead

After GIS-2025 finished the main task turned into putting plans into practice. CM Yadav established a GIS Progress Tracker system to display investor updates online while initiating Chief Secretary-led review sessions every month. The state plans sectoral conferences that kick off with a technology summit in Indore followed by the Agri-Innovation Expo in Jabalpur later in 2025.

Most investments for the summit went to Tier-2 cities which formed the basis for its impact on rural and urban development. According to PM Modi the future developments that shape India will be located in Madhya Pradesh. Across its events and activities the GIS-2025 initiative demonstrated how Madhya Pradesh stands at the strategic heart of worldwide growth opportunities through drone and robotics programs. ■

# The Impact of 3D Printing on the Future of Textiles

● Vishal Prajapati

The textile industry, one of the most ancient and essential sectors, is undergoing a significant transformation with the emergence of 3D printing. Historically, fabric production has relied on labour-intensive methods such as weaving and knitting. However, the integration of 3D printing technology is revolutionising the way textiles are designed, manufactured, and utilized across various industries.

Unlike conventional textile manufacturing, which involves intricate manual processes, 3D printing allows for the creation of complex patterns, innovative fabric structures, and customized garments with greater efficiency. This shift is paving the way for enhanced design flexibility, reduced material waste, and improved sustainability in textile production.

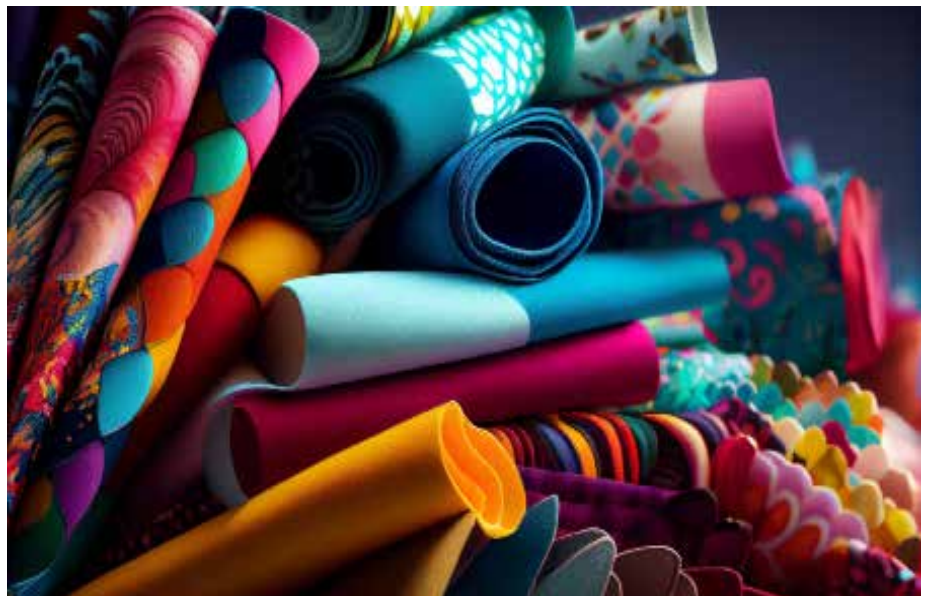
The impact of 3D printing extends beyond fashion, influencing industries such as healthcare, sportswear, and interior design. While this technology offers numerous advantages, including precision, personalization, and reduced environmental impact, it also presents challenges such as material limitations, high costs, and scalability issues. As advancements continue, 3D printing is expected to become more accessible and efficient, fostering a future where textiles can be produced on demand with minimal waste. This article explores the growing role of 3D printing in the textile industry, highlighting its benefits, challenges, and future potential.

## The Role of 3D Printing in Textiles

3D printing, often referred to as additive manufacturing, is a revolutionary technology that constructs three-dimensional objects by layering materials in precise accordance with a digital design. This innovative approach is now making significant strides in the textile industry, transforming how fabrics, garments, and functional materials are produced. Unlike traditional textile manufacturing methods, which rely on weaving, knitting, and other labour-intensive techniques, 3D printing enables greater precision, efficiency, and creative freedom.

In the textile sector, 3D printing facilitates the development of intricate fabric structures, avant-garde fashion designs, and specialized functional

textiles. Designers and manufacturers can craft highly detailed and complex



patterns that would be challenging or even impossible to achieve with conventional techniques. This opens up new possibilities for the fashion industry, allowing for unique, customized apparel that pushes the boundaries of traditional garment construction.

Beyond aesthetics, 3D printing also enhances the functionality of textiles. It enables the integration of smart materials, such as fabrics embedded with sensors, heating elements, or medical applications. These innovations make





making it a more sustainable fashion solution. Additionally, recycled materials can be incorporated into 3D-printed textiles, further reducing environmental impact.

3D printing allows designers to experiment with intricate patterns and avant-garde aesthetics that are difficult to achieve with conventional textile manufacturing. This has introduced new creative possibilities in high fashion and couture. Beyond aesthetics, 3D printing enables the development of smart textiles that incorporate sensors, heating components, and even biomedical applications. These functional fabrics have applications in sportswear, medical attire, and military uniforms. 3D printing accelerates the prototyping of textile designs, reducing the time required to bring new concepts to market. This

3D-printed textiles highly valuable in fields such as healthcare, sportswear, and protective clothing, where performance and adaptability are critical.

One of the key advantages of 3D printing in textiles is its efficiency in material usage and waste reduction. Traditional fabric production methods often result in significant material waste due to excess cutting and leftover fabric scraps. However, 3D printing constructs textiles layer by layer, using only the precise amount of material required. This reduces waste and contributes to a more sustainable manufacturing process. Additionally, the ability to use biodegradable or recycled materials further enhances the eco-friendly potential of 3D-printed textiles.

By offering superior control over material consumption, design intricacy, and production efficiency, 3D printing is reshaping the textile industry. As this technology continues to advance, it is likely to play an increasingly vital role in fashion, functional textiles, and sustainable manufacturing, paving the way for a more innovative and environmentally conscious future in textile production.

Benefits of 3D Printing in the Textile



## Industry

With 3D printing, designers and manufacturers can develop garments that are customized to an individual's specifications. Unlike traditional mass production, which relies on standard sizing, 3D printing facilitates on-demand production of uniquely tailored clothing and accessories. Conventional textile production results in substantial fabric waste from excess cutting and discarded materials. 3D printing minimizes waste by constructing garments layer by layer,

rapid iteration process benefits both high fashion and large-scale production by increasing efficiency and adaptability.

## Challenges in Adopting 3D Printing for Textiles

### 1. Material Constraints

Despite its advantages, 3D printing still faces limitations in terms of material flexibility, durability, and comfort. Many 3D-printed fabrics lack the softness and breathability of traditional textiles,





making them less suitable for everyday wear.

## 2. High Initial Investment

The cost of 3D printers and materials remains a significant barrier to widespread adoption. Advanced 3D printers capable of producing high-quality textiles are expensive, restricting access for smaller designers and manufacturers.

## 3. Scaling for Mass Production

While 3D printing is ideal for small-batch production and prototyping, mass production remains a challenge. Traditional textile manufacturing methods continue to be more cost-effective for large-scale fabric production.

## 4. Need for Specialized Skills

Designers and manufacturers must acquire expertise in 3D modelling and

printing technologies. The learning curve can be steep, and the industry requires more skilled professionals to facilitate widespread adoption.

Real-World Applications of 3D-Printed Textiles

### 1. Fashion and Apparel

Leading fashion designers and brands are incorporating 3D printing into their creations. Designers like Iris van Herpen have crafted stunning couture pieces using this technology, while brands such as Adidas have introduced 3D-printed footwear for enhanced performance and comfort.

### 2. Sportswear and Footwear

Sports brands, including Nike and Under Armour, leverage 3D printing to develop custom-fitted shoes and high-performance sportswear. 3D-printed soles and uppers offer superior

cushioning, durability, and flexibility.

### 3. Medical and Wearable Technology

3D-printed textiles are advancing healthcare through the production of customized prosthetics, compression garments, and wearable health-monitoring devices. Smart textiles with embedded sensors can track vital signs and aid in medical rehabilitation.

### 4. Home Decor and Interior Design

3D printing is also being used in home decor, producing unique textile designs for curtains, upholstery, and decorative elements. The ability to generate intricate patterns and textures adds a new dimension to interior design.

## The Future of 3D Printing in the Textile Industry





As technology continues to advance, 3D printing is poised to play a larger role in the textile industry. Researchers are actively developing bio-based and biodegradable printing materials to promote sustainability and reduce environmental impact. Additionally, improvements in printing speed, material flexibility, and cost-effectiveness are making 3D printing a more practical solution for large-scale textile production.

Looking ahead, the industry may experience a shift towards localized and on-demand manufacturing. This would enable consumers to produce custom garments at home or through specialized retail outlets, reducing reliance on mass production. Such a transformation could significantly cut down on transportation emissions, lower production waste, and prevent overproduction—major challenges faced by the fashion industry

today.

With the ability to create intricate designs, reduce material waste, and enhance personalization, 3D printing is reshaping the future of textiles. As innovation continues, it is likely to revolutionize not only fashion but also industries such as healthcare and sportswear. By making textile manufacturing more efficient, sustainable, and adaptable to consumer needs, 3D printing is set to redefine how garments and fabrics are produced, ultimately leading to a more responsible and technologically driven approach to textile production.

3D printing is transforming the textile industry by unlocking new opportunities in design, sustainability, and functionality. Despite challenges like material constraints and high costs, continuous research and technological advancements are driving wider

adoption. This innovative approach minimizes waste, enables intricate designs, and enhances the production of smart textiles with embedded functionalities. As the industry embraces 3D printing, it paves the way for sustainable and customizable solutions in fashion, healthcare, and beyond. The future holds exciting possibilities, from on-demand clothing production to eco-friendly manufacturing processes.

With ongoing improvements in printing technology and material development, 3D-printed textiles are set to revolutionize the way fabrics are created and utilized, offering greater efficiency and personalization. As this cutting-edge method evolves, it will redefine the textile landscape, making production more sustainable, innovative, and adaptable to changing consumer needs and industry demands. ■

## Workplace Burnout Epidemic

# The Workplace Burnout Epidemic: India's Silent Productivity Killer

● Adarsh Tiwari



"Working hard and smart is what I believe in, but turning life into a perpetual office shift? That's a recipe for burnout, not success. Work-life balance isn't optional, it's essential. Well, that's my view!

**-Harsh Goenka**

RPG Enterprises Chairman

Companies in India face a dilemma when top managers push employees to work long hours in competition while workers experience unmanageable workplace pressure. The burnout rate among Indian professionals stands at 58% surpassing the global average by 10% and creating threefold distress for their mental health, work-life separation, and productivity moral issues. Senior business leaders including S.N. Subrahmanyan advocate 90-hour workweeks yet official research and HR studies show the serious health risks to employees and the overall economy. This analysis explores why India faces excessive burnout as it grows faster than other major economies and recommends necessary changes to improve work quality in the country's biggest economy.

### India's Burnout Crisis: Beyond the 70-Hour Workweek Debate

According to FICCI-BCG research





from 2024 burnout affects half of Indian workers and this evidence pushes for large-scale changes in the workplace. Despite global work overload being the biggest issue people face Indians name collaborative overload especially when meetings keep interrupting task separation while supervisors monitor everything closely as their major sources of work stress. Cultural values that support hard work create additional pressure on staff who currently put in 46.7 hours per week more than any other nation except Qatar. New Economic Survey data shows that working 70 to 90 hours per week raises the risk of stroke by 35% and causes a 100-point drop in mental well-being scores as explained in studies referenced in numbers 5 and 6. Great leaders of Infosys and L&T fight against medical recommendations on work performance methods while India faces a crucial choice between business expansion and employee protection.

## The Anatomy of India's Workplace Burnout

### The Data: A Nation Pushed to the Brink

According to a 2024 study from UK Workforce Institute burnout symptoms affect 78% of corporate workers in India while 59% meet clinical definitions of burnout.

Half of Indian workers put in more than 49 hours every week according to ILO and WHO stats indicate people who work over 55 hours each week have 17% higher heart disease death rates.

Indians who miss work due to stress end up costing companies ₹7,000 per day in lost productivity. These absences amount to \$1 trillion in overall productivity losses at present.

A new report from Gallup Global Workplace shows that only 14% of Indian employees feel motivated to work while this figure stands at 34% worldwide. The data shows that people in India



"I don't agree with the work-life balance concept because if you are enjoying your work, you will find happiness in life also and work also, and both of them will be in harmony,"

**-Bhavish Aggarwal**

CEO, Ola

now experience depression and anxiety symptoms at a 31% rate which has grown by 40 percent over two years.

**The Indian workplace culture fosters burnout due to its underlying causes.**

### Toxic Productivity Metrics

When companies place their emphasis on Key Result Areas instead of employee well-being they bring about continuous overwork habits. Employees put in extra time on their days off to reach their performance targets until they can no longer distinguish between work time and personal time. Shifting priorities and intense supervision reported by 44 percent create a hopeless situation according to McKinsey research.

### Collaborative Overload

Recent FICCI-BCG research showed that small ongoing work interactions with minimal impact on results become a major stress source for workers. Approximately 22 digital communications each day interfere with concentration and double the risk of employee burnout.

### Cultural Stigmas and Leadership Failures

"Face time" bias—equating long office hours with dedication—permeates Indian



# Workplace Burnout Epidemic

management. When Subrahmanyam made employees look at their wives in response to questions about work-life balance he displayed unprofessional treatment of that issue. Most CXOs ignore the engagement problems despite the significant empathy discrepancy between them and others.

## Structural Inequities

A large group (37 percent) complains about their supervisors taking team success for themselves while offering different workers special time extensions.

The Economic Survey confirms that 52% of workers lack training to adapt to their changing job roles which makes them more anxious about their performance.

## The 90-Hour Workweek Debate: Ambition vs. Reality

### Pro-Long Hours Camp

According to Narayana Murthy from Infosys he points out that 70-hour workweeks helped rebuild post-war Germany and Japan and states they will aid India in reaching a \$10 trillion GDP target.

According to S.N. Subrahmanyam of L&T, long working hours in China make other nations weak because they think weekends are useless.

Gautam Adani says eight hours of daily work from home harms marriage and family life yet he presents overworking as his family duty.

## Health and Productivity Counterarguments

The Economic Survey 2025 proves through data that output reaches its peak at 55 working hours but does not continue to grow. Mental health quality drops 100 points when someone works 12 hours at a desk each day.

According to WHO medical research people who work more than 55-hour weeks risk 35% more stroke or heart disease deaths each year which leads to global deaths of 745,194 people.

Both Anand Mahindra of Mahindra

Group and Harsh Goenka from RPG push for outcome evaluations due to their belief that burnout destroys creative abilities when working long hours.

## Consequences: Beyond Individual Suffering

### Health System Strains

Almost one-third of workers show clinical anxiety or depression and metropolitan cities have only a 1:3 ratio of therapists to patients.

Sitting for twelve hours daily in a static position boosts diabetes odds by 42 percent while causing the average employee to miss 5.2 hours of sleep each night.

### Economic Repercussions

The majority or 57 percent of employees want new job opportunities according to Gallup research and they quit primarily because of burnout at



work which represents 68 percent of all departures.

When burnout sets in at work the problem-solving capabilities of 72% of employees decrease leaving their innovation projects behind.

## Social Fabric Erosion

Stressed employees are causing a double problem: many wait to marry while sexual relations wane which leads to lower birth rates and higher divorce rates across America.

## Emerging Solutions: From Crisis to Opportunity

### Policy Interventions

Under the OSH Code 2025 Amendments the government plans to make new work rules such as limiting employees to 48 hours per week with mandatory rest periods of 30 minutes and providing mental health leave.

Businesses that keep stress-related burnout below 10% qualify to deduct up to 150% of their wellness program expenses from their CSR responsibility status.

### Corporate Best Practices

These companies use AI output tracking systems which praise staff performance instead of tracking their working hours. As a result they decrease job demands by 18% according to research.

Diverse teams led by DEI leadership set specific diversity goals and report a 29% less burnout rate for their teams.

The firm policies at Deloitte and Godrej helped employees avoid collaborative fatigue by 41% and reduced their after-hours email volume by 63%.

## Cultural Shifts

Through deep work training, L'Oréal India helps employees learn focus methods which brings back eleven hours per week from meeting time.

Leaders in 67% of precedent companies rely on employee well-being metrics to determine bonus payments. ■





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# Apple Introduces iPhone 16e

Apple has introduced the iPhone 16e, expanding its iPhone 16 lineup with a powerful yet budget-friendly option. Designed to offer high performance at a more accessible price, the iPhone 16e aims to attract users seeking a balance between affordability and advanced features. Pre-orders for the device opened on February 21, 2025, and it is now officially available for purchase starting today, February 28, 2025, across various regions, bringing Apple's latest innovations to a wider audience.

## Design and Display

The iPhone 16e boasts a 6.1-inch Super Retina XDR display, delivering vivid colors and crisp visuals. Retaining the familiar notch design, it incorporates the TrueDepth camera system for seamless Face ID authentication. Available in two sleek matte finishes—black and white—it also offers a variety of colorful cases for added personalization, allowing users to customize their device to match their style.

## Performance and Hardware

Powered by Apple's latest A18 chip, the iPhone 16e ensures fast performance and seamless multitasking. This chip also enables compatibility with Apple Intelligence, Apple's AI system set to launch in April 2025. The device offers storage options of 128GB, 256GB, and 512GB, catering to various user needs.

## Camera System

The iPhone 16e is equipped with a single 48-megapixel rear camera, capable of capturing high-resolution images with optical zoom options at 1x and 2x. The front-facing camera features a 12-megapixel lens, making it ideal for selfies and video calls. Although it lacks the ultra-wide camera available in higher-end models, the iPhone 16e still delivers impressive photography



performance.

## Battery Life and Charging

A standout feature of the iPhone 16e is its extended battery life, providing up to 26 hours of video playback. It supports USB-C charging, aligning with Apple's transition away from the Lightning port. However, MagSafe charging remains exclusive to premium models, and the iPhone 16e does not support this feature.

## Connectivity and Additional Features

The iPhone 16e debuts Apple's custom-designed C1 cellular modem, reducing reliance on third-party suppliers. It supports 5G connectivity, ensuring faster internet speeds and improved network efficiency. Additionally, the

device includes an Action Button in place of the traditional mute switch, allowing users to customize quick access to various functions.

## Pricing and Availability

With a starting price of \$599, the iPhone 16e offers a more affordable alternative within the iPhone 16 lineup. However, it is priced higher than the previous iPhone SE, which launched at \$429, reflecting its upgraded features. Pre-orders began on February 21, 2025, with the official release following on February 28, 2025.

## Market Reception and Considerations

The iPhone 16e has gained attention for its balance of advanced features and affordability within Apple's lineup. However, some critics argue that the \$599 price tag may still be high for a budget-friendly device, particularly in emerging markets. Additionally, the lack of features such as MagSafe charging and an ultra-wide camera may lead some consumers to consider older models like the iPhone 15, which offer a more comprehensive feature set at a similar price.

## Conclusion

The iPhone 16e represents Apple's commitment to providing a diverse range of products catering to different consumer needs and budgets. With its powerful A18 chip, impressive battery life, and integration with upcoming Apple Intelligence features, the iPhone 16e offers a compelling package for those seeking a modern iPhone experience without the premium price tag of higher-end models. As it becomes available worldwide, it will be interesting to observe how the iPhone 16e resonates with consumers and impacts the competitive landscape of mid-tier smartphones.. ■



# England's Setback: Champions Trophy 2025

England's premature exit from the 2025 ICC Champions Trophy has stunned the cricketing world. Once a powerhouse in white-ball cricket, their recent struggles have sparked concerns about their tactics, leadership, and future competitiveness. The team's inability to perform under pressure, coupled with strategic missteps, has led to widespread criticism. Questions are being raised about squad selection, adaptability to different conditions, and overall team management. With key players underperforming and leadership changes on the horizon, England faces a crucial period of introspection. To reclaim their dominance, a significant overhaul in approach and mindset may be necessary in the coming years.

## A Series of Setbacks

England's campaign got off to a rocky start with a heavy defeat against Australia. Despite setting an imposing target of 351, their bowlers struggled to contain the Australian batters, who comfortably chased down the total. This loss not only shook England's confidence but also exposed significant weaknesses in their bowling lineup.

Hoping to bounce back in their next match against Afghanistan, England instead faced another setback. Afghanistan delivered a spirited performance, with Ibrahim Zadran leading the charge with a brilliant 177, setting a formidable target of 326. Joe Root fought hard with a resilient 120, but a lack of support from the rest of the batting lineup resulted in a narrow eight-run loss, ultimately sealing England's early exit from the tournament.

## Leadership Under Scrutiny

Jos Buttler's captaincy has been a



subject of heated discussion. In the wake of England's early exit, he stepped down as white-ball captain, recognizing the need for new leadership to rejuvenate the team. His resignation highlights deeper concerns within the squad, including erratic performances and tactical shortcomings.

## Injury Woes

Adding to England's woes were injuries to key players. Fast bowler Mark Wood sustained a knee injury during the match against Afghanistan, raising concerns about his long-term fitness and the possibility of surgery. These setbacks disrupted team cohesion and exposed the squad's lack of depth.

## Criticism from Cricketing Fraternity

The cricketing world has been outspoken in its criticism of England's performance. Former players and analysts have highlighted the team's complacency and inability to adjust to subcontinental conditions. Michael Vaughan, in particular, stressed the importance of England taking matches in the subcontinent more seriously, suggesting their approach may have been too relaxed.

## Statistical Decline

Since their victorious 2019 World Cup campaign, England's ODI performance has steadily declined. With more losses than wins, the team's struggles point to deeper systemic issues that extend beyond on-field execution. This downturn underscores the need for a thorough evaluation of their training methods, selection process, and overall strategy.

## Looking Ahead

England's early exit from the Champions Trophy serves as a stark reminder of the evolving competitiveness in international cricket. Teams like Afghanistan have risen to the occasion, showcasing talent and determination that challenge traditional powerhouses. For England, this tournament should be a catalyst for introspection and restructuring. Embracing adaptability, investing in player development, and fostering a culture of resilience will be crucial as they aim to reclaim their stature in world cricket.

In conclusion, while the 2025 ICC Champions Trophy was a disappointment for England, it also offers an opportunity—a chance to rebuild, innovate, and emerge stronger in future competitions. ■

# Trump & Gaza

In early 2025, former President Donald Trump introduced a contentious plan to address the ongoing Israeli-Palestinian conflict, with a particular emphasis on the Gaza Strip. His proposal involved the United States taking control of Gaza and redeveloping it into a thriving region, likened to the "Riviera of the Middle East." A key aspect of this plan was the relocation of nearly two million Palestinian residents to nearby countries, a suggestion that has ignited significant debate and criticism.

## The Proposal Unveiled

On February 4, 2025, during a joint press conference with Israeli Prime Minister Benjamin Netanyahu, former President Donald Trump presented his vision for Gaza. He proposed that the United States should "take over" and "own" the Gaza Strip, with plans to demolish and rebuild the area, creating "unlimited amounts of jobs and housing" for the local population. This ambitious redevelopment aimed to turn Gaza into a thriving economic center, attracting a diverse range of people. However, the plan involved the displacement of the current Palestinian residents, relocating them to an unspecified "beautiful area" with no option to return. Trump suggested that neighboring Arab countries, including Egypt and Jordan, could accommodate the displaced population. While initial discussions took place with Jordan's King Abdullah II, no concrete agreements were reached, and Egypt was expected to explore alternative solutions.

## Historical Context

The 2025 proposal is not the first instance of the Trump administration engaging in Middle East peace efforts. In January 2020, former President Trump introduced the "Peace to Prosperity" plan, which recognised Jerusalem as Israel's undivided capital and proposed granting Israeli sovereignty over large parts of



the West Bank, including the Jordan Valley. The plan outlined a fragmented Palestinian state with limited autonomy, connected by corridors and surrounded by Israeli-controlled areas. Palestinian leaders rejected the proposal, arguing that it was heavily skewed in favor of Israel. Similarly, the 2025 plan appears to prioritize Israeli security and regional stability, potentially at the cost of Palestinian self-determination.

## International Reactions

The 2025 proposal has sparked a wide range of reactions from the international community. Israeli Prime Minister Benjamin Netanyahu has strongly endorsed the plan, considering it a major step toward achieving regional peace and security. In contrast, Palestinian leaders have fiercely opposed it, condemning it as a violation of their rights and labeling it an act of ethnic cleansing. United Nations officials have echoed these concerns, warning that the forced displacement of an entire population would constitute a serious violation of international law. The broader Arab world remains divided—while some countries are engaged in discussions with the U.S., others have outright rejected the plan, stressing the importance of Palestinian sovereignty and the right of return.

## Feasibility and Challenges

Implementing this plan presents significant challenges. The forced relocation of two million people raises serious ethical, legal, and logistical concerns. It remains uncertain whether neighboring countries would be willing to accept such a large influx of displaced

Palestinians, and the financial and infrastructural requirements for such a move would be substantial. Additionally, the proposal fails to acknowledge the deep historical and cultural connections that Palestinians have to the land, nor does it account for the potential rise in regional instability that could result from mass displacement. The international community's dedication to protecting human rights and adhering to existing international agreements further complicates the feasibility of the plan.

## Comparisons to Previous Initiatives

The 2025 proposal shares similarities with previous initiatives that have been criticized for sidelining Palestinian interests. The 2020 "Peace to Prosperity" plan, for example, was widely regarded as granting Palestinians only a nominal state with restricted autonomy and sovereignty. Both plans have been perceived as prioritizing Israeli territorial and security concerns while offering economic benefits to Palestinians instead of political rights. This approach has faced strong opposition from Palestinian leaders and communities, who see such proposals as undermining their pursuit of true self-governance and international recognition.

## Potential Implications

If implemented, the 2025 proposal could bring significant geopolitical changes to the Middle East. Turning Gaza into a thriving economic hub under U.S. control might reshape regional power dynamics and economic structures. However, forcibly displacing the Palestinian population could heighten tensions, potentially sparking further unrest and resistance. Additionally, the plan could establish a controversial precedent for resolving territorial disputes through population transfers, a concept laden with ethical and legal concerns. The long-term viability of this proposal would largely hinge on regional cooperation, significant financial investment, and the creation of strong governance frameworks to oversee the redevelopment of Gaza.



# United States Sending Back Migrants

In early 2025, the United States, under President Donald Trump's administration, initiated a series of mass deportations utilizing military aircraft to expedite the removal of undocumented immigrants. This unprecedented approach has sparked significant controversy, raising questions about human rights, international relations, and the logistical and financial implications of such operations.

## Escalation of Deportation Efforts

After beginning his second term in January 2025, President Trump issued more than 50 executive orders, which he referred to as part of the "complete restoration of America." Among these were measures focused on undocumented immigrants, including ending birthright citizenship and cutting off federal benefits for those without legal status. These actions highlighted the administration's dedication to strengthening immigration enforcement.

To address logistical challenges in carrying out mass deportations, the administration sought support from the Department of Defense. Military aircraft, including C-17 and C-130 cargo planes, were utilized to transport deportees to their home countries. This approach was intended to supplement the capabilities of Immigration and Customs Enforcement (ICE), which had primarily depended on chartered flights.

## Financial and Logistical Considerations

The deployment of military aircraft for deportations has sparked concerns about cost-effectiveness. For example, the expense of deporting a single migrant to Guatemala was estimated at a minimum of \$4,675—considerably higher than the cost of ICE's standard charter flights. Despite these increased costs, the administration emphasized speed over financial efficiency, considering the



approach crucial for national security.

The handling of these operations has also sparked controversy. Reports indicate that deportees were handcuffed and shackled during flights, drawing strong criticism from human rights organizations and the international community. Some deportees have even described the treatment as "torture," underscoring the harsh conditions they endured during removal.

## International Repercussions

The administration's forceful deportation measures have put a strain on diplomatic relations with several nations. In January 2025, Mexico refused to grant landing permission to a U.S. military plane, forcing the flight's cancellation. Likewise, Colombian President Gustavo Petro prohibited U.S. military planes carrying deported nationals from landing, insisting that deportees be treated with dignity and transported on civilian aircraft. These events highlight the diplomatic obstacles tied to using military resources for immigration enforcement.

The situation has also created challenges in countries like Panama, where around 300 deported migrants from various nations—including Afghanistan, China, India, Iran, and Turkey—were relocated to a remote immigration center following their deportation from the United States.

Human rights organizations and attorneys have condemned both the U.S. and Panamanian governments for insufficient asylum screening, restricted legal access, and inadequate treatment of the migrants.

## Domestic Implications and Controversies

Within the U.S., the large-scale deportation effort has resulted in notable administrative shifts. Caleb Vitello, the acting director of ICE, was reassigned to focus on field and enforcement operations due to the administration's dissatisfaction with the speed of deportations. This decision reflects growing internal pressure to accelerate removals, despite ongoing logistical hurdles such as limited enforcement personnel, detention facilities, and transportation capacity.

To further expedite the deportation process, the administration has explored proposals from private military contractors. Erik Prince, founder of the controversial security firm Blackwater, has put forward a plan involving private forces, "processing camps," and a fleet of aircraft to help remove an estimated 12 million undocumented immigrants. This \$25 billion proposal has sparked both interest and skepticism, highlighting the ethical and logistical challenges of outsourcing immigration enforcement.

## Human Rights Concerns

The deportation methods used have faced strong opposition from human rights advocates. The reliance on military aircraft, the physical restraints placed on deportees, and the speed of the removal process have been criticized as inhumane and degrading. Legal experts argue that these practices may violate international human rights standards, particularly when deportees are denied proper legal representation and due process.

# Airlines Embracing Spirituality: Connecting Pilgrims to Sacred Destinations



In recent years, there has been a marked shift in the travel industry as airlines begin to recognize the profound connection between spirituality and travel. Spiritual tourism, which centres on visiting sacred or religious sites for deep reflection, inner peace, and personal growth, has emerged as a significant and growing trend. In response, airlines have tailored their services to meet the unique needs of spiritual travellers-offering dedicated flights to pilgrimage destinations, cultural immersion, and in-flight experiences that encourage mindfulness and reflection.

**R**ather than being merely a means of transport, for many passengers, the journey itself has become an integral part of the spiritual experience. Today, airlines are curating experiences that allow travellers to embark on a meaningful journey, with services that reflect their religious and spiritual values. From prayer spaces on flights to cultural performances that evoke a sense of serenity, airlines are going beyond the traditional travel experience, ensuring that the spiritual journey begins the moment passengers board.

This article explores how various airlines are embracing this spiritual shift, providing more than just a means to an end, but an experience that nurtures the body, mind, and soul. Let's take a closer look at how these carriers are serving the growing number of spiritual travellers seeking

not just destinations, but transformative experiences.

## Air India: Connecting Devotees to Sacred Sites

As the national carrier of India, Air India has long been a popular choice for pilgrims traveling to the country's most revered spiritual destinations. India, with its deep religious heritage and array of sacred sites, draws millions of spiritual seekers each year. Whether it's the Ganga-ghats of Varanasi, the Golden Temple of Amritsar, or the sacred hilltop temples of Tirupati, Air India provides a vital link to these transformative locations.

## Air India's Unique Offerings

Air India ensures that spiritual travellers experience







both comfort and reverence throughout their journey. The airline offers vegetarian meal options, catering to religious dietary requirements, and enhances the atmosphere with announcements in Sanskrit on select flights to certain spiritual hubs. During peak pilgrimage seasons, Air India increases its frequency of flights to accommodate the surge of devotees. Additionally, it is not uncommon to find in-flight offerings that encourage passengers to reflect on their spiritual journey, further integrating faith into the travel experience.

### **Saudi Arabian Airlines (Saudia): The Gateway to Mecca and Medina**

Saudia, the national airline of Saudi Arabia, plays an indispensable role in the annual influx of pilgrims traveling to Mecca and Medina for the Hajj and Umrah pilgrimages—two of the five pillars of Islam. With millions of Muslims visiting Saudi Arabia every year, Saudia is dedicated to ensuring that the journey itself is spiritually enriching and seamless.



### **Saudia's Pilgrim-Centered Services**

For Hajj and Umrah travellers, Saudia offers specialized flights designed to support the needs of pilgrims, featuring dedicated religious guidance and onboard Quran recitations. Select flights also include prayer spaces, allowing passengers to observe their religious duties during the flight. The airline's attention to detail extends to its meal offerings, which adhere strictly to halal dietary laws, ensuring that passengers can remain focused on their spiritual journey. This commitment to enhancing the pilgrim experience before, during, and after the flight underscores Saudia's role as a leading carrier for religious travel.

### **Garuda Indonesia: Connecting Spiritual Seekers to Bali and Beyond**

Garuda Indonesia has emerged as a leading airline for travellers seeking peace and spirituality in Southeast Asia. Known for its breathtaking landscapes and rich spiritual

As spiritual tourism continues to gain traction, airlines are increasingly recognizing the need to create enriching travel experiences that go beyond traditional transit. Whether facilitating pilgrimages to Mecca, offering cultural and spiritual experiences on flights to Bali, or ensuring monks can travel easily to Buddhist temples, airlines are innovating to meet the demands of this growing segment. By focusing on the spiritual and cultural needs of travellers, these airlines are not simply providing transportation but creating an atmosphere of reflection, peace, and personal growth, ensuring that the journey is as transformative as the destination.

In today's world, the journey itself has become an essential part of the pilgrimage, and these airlines are at the forefront of making that journey an experience of spiritual enrichment.



culture, Indonesia attracts visitors from all over the world. Bali, in particular, is renowned for its tranquil temples and wellness retreats, making it a prime destination for those looking for spiritual renewal.

### Garuda Indonesia's Holistic Approach to Travel

Garuda Indonesia stands out by offering passengers cultural and spiritual experiences that enhance their journey before they even arrive at their destination. The airline partners with wellness resorts in Bali, providing exclusive spiritual tour packages that offer guided meditation sessions and cultural performances onboard. Additionally, Garuda's in-flight entertainment includes soothing meditation music and spiritual programs, allowing passengers to mentally prepare for the spiritual retreats that await them in Bali. These carefully curated offerings ensure that the journey becomes as enriching as the destination itself.

### Thai Airways: The Buddhist Pilgrim's Airline

Thailand's rich Buddhist heritage has made it a popular destination for spiritual travellers, and Thai Airways has positioned itself as a key carrier for those visiting the country's sacred temples. With its iconic temples in Chiang Mai, Bangkok, and Ayutthaya, Thailand attracts pilgrims from across the globe who are seeking to connect with Buddhist traditions and teachings.

### In-Flight Spiritual Practices

Thai Airways enhances the spiritual journey by offering onboard meditation guides and Buddhist chants during flights. These services help passengers maintain a tranquil

and centered mindset as they travel to sacred Buddhist sites. Additionally, Thai Airways has partnered with meditation centres across Thailand to offer exclusive retreat packages for those looking to deepen their spiritual practices. The airline also provides special fares for monks and pilgrims, making the journey more accessible to those undertaking religious duties. These efforts make Thai Airways a natural choice for those embarking on a Buddhist pilgrimage to Thailand.

### Nepal Airlines: The Route to Himalayan Spirituality

Nepal, with its towering Himalayan mountains and sacred religious sites, has long been a spiritual haven for travellers seeking enlightenment and peace. Nepal Airlines connects travellers to some of the most revered pilgrimage destinations in the country, including Lumbini, the birthplace of the Buddha, and Kathmandu, home to the Pashupatinath Temple.

### Nepal Airlines' Eco-Spiritual Tourism Initiatives

Nepal Airlines promotes eco-spiritual tourism by offering customizable spiritual tour packages, which allow passengers to visit remote pilgrimage sites in the Himalayan region. These packages provide travellers with opportunities to not only connect with their spirituality but also to experience Nepal's natural beauty in a sustainable manner. The airline's focus on responsible tourism ensures that spiritual travellers can explore the sacred landscapes of Nepal without compromising the integrity of the environment. By embracing both spirituality and sustainability, Nepal Airlines is carving a path for the next generation of eco-conscious pilgrims. ■





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# The New Age of Gen Z

The world is witnessing a transformative era shaped by Generation Z—those born between 1997 and 2012. Often characterized as digital natives, social justice advocates, and entrepreneurial spirits, Gen Z is rewriting the rules of society, business, and culture. This article delves into the defining characteristics of this generation, their impact on various sectors, and how they are leading the charge toward a more inclusive, technologically advanced, and environmentally sustainable future.

## Understanding Generation Z

Gen Z is distinct from previous generations in many ways. Having grown up in a hyper-connected world with social media, instant access to information, and rapid technological

advancements, their perspectives and expectations are vastly different from those of Millennials or Gen X. Some of the key attributes of Gen Z include:

- **Digital Natives:** Unlike Millennials, who witnessed the rise of the internet, Gen Z was born into it. Smartphones, apps, and social media platforms are integral to their daily lives.

- **Socially Conscious:** They are deeply engaged in social justice movements, advocating for issues such as climate change, racial equality, LGBTQ+ rights, and mental health awareness.

- **Independent Thinkers:** Having grown up in a time of economic uncertainty and political unrest, Gen Z values financial independence, self-sufficiency, and personal growth.

- **Diversity and Inclusion:** This generation embraces diversity in all

● Vishal Prajapati

forms and expects brands, workplaces, and institutions to reflect their inclusive values.

## Gen Z and Technology: A Digital Revolution

Technology is at the heart of Gen Z's identity. They are the first generation to be raised entirely in a digital landscape, making them more tech-savvy than any group before them. Here's how technology shapes their lives:

### 1. Social Media and Communication

Gen Z's communication is largely shaped by platforms like TikTok, Instagram, Snapchat, and YouTube. While older generations use social media mainly for staying connected, Gen Z goes beyond that, utilizing it



for activism, education, and financial opportunities. These platforms serve as tools for learning, self-expression, and raising awareness about global issues.

Many influencers, content creators, and social entrepreneurs have turned social media into a business, using it to build brands, generate income, and promote social change. This generation leverages digital spaces not just for entertainment but also as a means to drive meaningful conversations and create lasting impact.

## 2. E-commerce and Digital Transactions

Gen Z favours digital payments over cash, relying on apps like Venmo, Cash App, and cryptocurrency platforms for seamless financial transactions. Convenience and speed drive their preference for cashless solutions, making traditional payment methods less appealing. When it comes to shopping, they gravitate toward online platforms like Amazon, Shein, and Depop, valuing accessibility, variety, and competitive pricing.

E-commerce offers the flexibility they seek, allowing them to shop anytime, anywhere, without the constraints of physical stores. This shift highlights

Gen Z's tech-driven lifestyle, where digital transactions and online shopping dominate their purchasing behaviour and financial interactions.<sup>3</sup> Artificial Intelligence and Automation

With the rapid advancement of AI technology, Gen Z is seamlessly incorporating it into their daily lives. From virtual assistants like Siri and Alexa to AI-generated content and smart home devices, they embrace automation

for convenience and efficiency. In education and the workplace, they are more receptive to AI-driven tools, using them for personalized learning, task automation, and productivity enhancement.

This tech-savvy generation recognizes the benefits of AI in simplifying routines, improving accessibility, and streamlining processes. As AI continues to evolve, Gen Z remains at the forefront of integrating



these innovations into various aspects of their personal and professional lives.

## Gen Z in the Workforce: A New Professional Landscape

The traditional 9-to-5 job structure is becoming obsolete for many Gen Z workers. Unlike previous generations, they prioritize work-life balance, mental health, and purpose-driven careers. Here's how they are reshaping the workforce:

### 1. Rise of the Gig Economy

Gen Z prefers flexibility in their careers, gravitating toward freelance work, side hustles, and entrepreneurship instead of traditional nine-to-five jobs. They value independence, creative freedom, and financial autonomy,

seeking opportunities that align with their passions and skills. Digital platforms such as Fiverr, Upwork, and Patreon have become essential tools for this generation, allowing them to monetize their talents in areas like graphic design, content creation, digital marketing, and more.

These platforms provide access to global clients, enabling Gen Z to build personal brands, develop multiple income streams, and gain professional experience without relying on conventional employment structures. Unlike previous generations, they are more open to project-based work, gig economy roles, and self-employment, favouring careers that offer autonomy, flexibility, and meaningful engagement. This shift is transforming industries, pushing companies to adapt to the changing workforce dynamics and offering more remote, contract-based, and freelance opportunities to attract Gen Z talent.

## 2. Workplace Expectations

Gen Z seeks workplaces that prioritize inclusivity, mental health support, and flexibility. They value environments where diversity is embraced, well-being is prioritized, and work-life balance is respected. Unlike previous generations, they are unwilling to stay in jobs that do not align with their personal values or offer opportunities for growth and development.

If a company fails to provide meaningful work, career advancement, or a supportive culture, Gen Z employees are more likely to leave in search of better options. They expect employers to be socially responsible, adaptable, and employee-focused, making companies rethink their policies to attract and retain this dynamic and value-driven generation in the workforce.

## 3. Learning and Upskilling

Gen Z prioritizes skills-based learning over solely relying on traditional college degrees. They recognize the importance of continuous learning and

adaptability in an evolving job market. Online platforms like Coursera, Udemy, and LinkedIn Learning have become popular alternatives, providing access to specialized courses, certifications, and practical knowledge.

These platforms allow Gen Z to upskill at their own pace, often at a lower cost than formal education. Rather than following a rigid academic path, they prefer flexible, hands-on learning that aligns with their career goals and industry demands. This shift reflects their desire for practical experience, self-improvement, and career readiness, enabling them to stay competitive in a rapidly changing professional landscape. As a result, Gen Z is redefining education, emphasizing lifelong learning and skill

development over conventional degrees.

### Social and Environmental Activism

Gen Z is leading global activism, passionately advocating for social and environmental change. Their influence is evident in movements like #BlackLivesMatter, #FridaysForFuture, and #MeToo, where they use digital platforms to raise awareness, mobilize communities, and demand action. This generation is committed to challenging injustices and pushing for progressive reforms across various sectors. Whether fighting for racial equality, climate action, or gender rights, Gen Z is leveraging social media, protests, and grassroots organizing to drive meaningful impact. They are unafraid to speak out, hold corporations and governments accountable, and push





for systemic change. Their activism reflects a deep sense of responsibility, inspiring a more conscious, inclusive, and equitable society for future generations. Some key areas where they are driving impact include:

### 1. Climate Change and Sustainability

Gen Z is deeply aware of environmental issues and actively seeks sustainable solutions from businesses. They prefer brands that demonstrate a commitment to eco-friendly practices, ethical sourcing, and waste reduction. Sustainability is a key factor in their purchasing decisions, influencing their support for companies that prioritize green initiatives.

From biodegradable packaging to carbon-neutral operations, they expect businesses to take responsibility for their environmental impact. This generation's demand for sustainability is reshaping industries, pushing brands to adopt more responsible and transparent practices to meet their evolving expectations.

### 2. Political Engagement

Gen Z is highly politically engaged and outspoken, using social media to stay informed, raise awareness, and drive change. They actively participate in protests, advocate for policy reforms, and challenge societal norms. Unlike previous generations, they leverage digital platforms to amplify their voices, push for justice, and demand

accountability from governments and institutions.

### 3. Mental Health Advocacy

Gen Z has played a crucial role in destigmatizing mental health discussions, advocating for stronger support systems in schools, workplaces, and healthcare. They prioritize mental well-being and actively promote access to therapy, mindfulness practices, and self-care routines. This generation values open conversations about mental health, challenging outdated stigmas and encouraging a culture of understanding and support. By emphasizing emotional well-being, they push for policies and resources that make mental health care more accessible and effective. Their proactive approach is reshaping how society views and addresses mental health challenges.

### Entertainment and Cultural Influence

Gen Z is reshaping the entertainment industry with their preference for personalized, interactive content over traditional media. Key trends include:

- **Streaming over Cable:** Services like Netflix, Hulu, and Disney+ have largely replaced conventional television.
- **Short-form Content:** Platforms such as TikTok and YouTube Shorts are more popular than long-format videos.
- **Virtual and Augmented Reality:** Interest in immersive experiences, including the metaverse and VR gaming, is growing among Gen Z audiences.

Their evolving preferences are driving major shifts in how entertainment is consumed and created.

Gen Z is more than just a generation—they are a transformative force shaping the future. With a strong focus on technology, social justice, sustainability, and entrepreneurship, they are driving change toward a more inclusive and innovative society. As their influence continues to expand, businesses, governments, and institutions must evolve to meet their expectations. The rise of Gen Z marks a new era, redefining the world in groundbreaking ways. ■



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# Digital Astrology in India

## Bridging Ancient Wisdom and Modern Tech for the Connected Generation

In this digital era, people use smartphones to access astrology while continuing an Indian people's traditional interest in astrology. People no longer need to enter dimly lit rooms to meet astrologers since accessing their services has become digital. Our new generation in Mumbai uses her smartphone and mobile app to match her astrological personality to potential partners while enjoying a cup of coffee. Attracting 1.4 billion clients for spiritual guidance this digital astrology movement lets Indians adapt traditional practices to mobile technologies.

Digital astrology serves its users in a contemporary yet traditional manner. As India embarked on its digital transformation it also advanced its spiritual heritage alongside. Academically trained pandits of astrology now use phone applications that combine digital birth chart decoding and blockchain authentication technology to serve their clients. Digital tools have spread the teachings of astrology between people of urban cities and rural communities without changing their true power. Tech companies connect people using guna analysis systems and Rahu-Ketu detection bots while creating a profitable spiritual technology market for India's estimated future needs.

### The Rise of Astrology Apps: Celestial Guidance in Your Pocket

Digital astrology in India follows the overall trend of using technology to protect and preserve traditional Indian culture. Digital age start-ups AstroTalk and AstroYogi bring this ancient connection into online practice. Our platform connects users with different astrologer types including Jyotish experts who come from lineages of three generations plus tech professionals who sell gemstones and provide remote consultation methods. The simple early horoscope production systems have developed into advanced platforms. Users can see current panchang info and receive AI dash reading results while creating their home Vastu plan via smartphone camera graphics.

When the pandemic hit society this became a sudden driving factor. When Indians were confined to their homes they relied on these applications both for prophecy and mental support. Young professionals needed help with their careers during market downturns while

couples used relationship astrology to handle lockdown stress and entire families participated in virtual temple puja rituals to fight pandemic stress. People started using these services because they wanted to combine modern life with traditional principles of stability. Digital astrology reports show how traditional resources extend beyond metro areas to meet people's cosmic needs everywhere.

### Technology Meets Tradition: The Engine Behind Digital Jyotish

A powerful support system integrates NASA data with ancient Parashara sutras. Machine learning processing historical Kundli records finds common patterns at work between IT workers and farmers together with which stars drive business triumph. Using 10,000 Vedic text sources AstroSage trains its AI system which creates customized life reports quickly in twelve different languages. Through its voice interface, MyPandit enables Tamil Nadu grandmothers to speak their native language for Guru Chandal Yoga information that comes from both ancient

texts and contemporary astro-psychology.

The human element remains vital. The platforms evaluate astrologers through tests to build professional talent marketplaces. Rajasthani pandits who focus on Manglik Dosha remedies pass their expertise to junior colleagues through MyPandit's knowledge center and Kolkata tarot readers observe how to blend Vedic teachings into their readings. The impact of blockchain systems is subtle yet essential in this field. It tracks how well AI performs in consultations while keeping astrologers' professional backgrounds safe and indestructible to build trust among users.

### Why Millennials Swipe Right for Cosmic Counsel

The critics who saw astrology as dying missed its new life online. Young people in India use these apps to find themselves by making selected choices. At 22 years old an influencer follows only her Instagram story's tarot readings without heeding Mercury warnings. Business owners release products based on AI astrology



results and fitness people follow lunar schedules when exercising. Apps now describe cosmic power examination as "energy audits" instead of addressing traditional doshas procedures and supply relationship matching percentages instead of Manglik ratings.

This generation's engagement is nuanced. They smile at old beliefs while constantly looking at Co-Star during Mercury's backward movement. Established relationships and promising businesses depend on moon sign matching and market predictions based on astrology in their profiles. The apps deliver their services through a blend of popular memes alongside serious descriptions of astrological events for the modern hybrid audience. Our lives lead to adulthood by following cosmic guidance instead of fixed fates.

### **Women and Wellness: Redrawing Cultural Boundaries**

Digital astrology makes subtle changes that benefit female users in India. These applications let people search for male astrologers without facing social judgment in towns that disapprove of such meetings. Married working women ask for career and family solutions from experts who keep their opinions private while single professionals use astrology tools to predict their future fertility. The demand for lunar cycle wellness advice through AstroVed increased by 300% among its female platform users.

Today pregnancy astrology uses digital technology to provide customized labor tracking and nanoasts along with live virtual Zoom meetings to select baby names. Women hosted digital Surya Namaskar challenges two times more than normal during the bonus lunar

month of 2023. Digital services help women combine their traditional beliefs with new spiritual practices to build their personal followings.

### **From Villages to the Metaverse: Astrology's New Horizons**

The industry's creativity flow matches the intellectual thirst of a Gemini personality. Today users view planetary motion in their home base through virtual reality technology and explore Kumbh Mela rituals during temple visits thanks to virtual reality applications. In 2025 AstroDunia will introduce a metaverse platform that empowers users to design 3D shrines and watch pujas conducted by digital avatars. Users may also access holographic astrological services. GrahaGo and other farming apps serve agricultural regions with AI-by-text alerts for perfect planting days and by merging panchang data with IoT livestock trackers.

Corporate India is taking note. Major tech parks check building alignments with drone scanning services while HR departments match teams using astro-technical data and the film industry uses AI to find launch times based on potable moments. People cannot tell if these tools help them spiritually or make their daily routines easier because apps now link to fitness and wellness devices.

### **Throughout the Digital Universe People Face Various Difficulties**

Although spirituality and technology blend well together they experience numerous challenges. The news about astrology influencers selling crystals without real qualifications makes people debate the need for industry oversight. Birth chart data contains sensitive personal information that makes many

people worried about their privacy. AvanzaTalk now supports GDPR-compliant services for NRIs and SureAstro provides a zero-data mode to stay anonymous during queries.

The industry deals with many ethical problems in its daily operations. The app should not limit intercaste marriage choices based on Kundli analysis results. Does AI technology work in a moral way to forecast human lifespans? Renowned platforms work with ethics professionals and spiritual leaders to establish guidance for the new digital astrology field. Jyotish Tech for All trains village astrologers to use digital tools so they can keep their human element as this industry evolves.

### **Digital services will combine digital technologies with astrology in future developments**

As India works to reach a \$5 trillion economy it shows the way for its digital astrology services by working with traditional methods and using new approaches. The following decade will feature AI systems that personalize their services through astrology training based on your family lineage or NFTs that display your planetary constellation. To improve mental health users can now book Counselors at MindAstro to help them handle relationship issues during Venus cosmic transitions.

Global expansion continues apace. Indian astrology services now explain Indian Vedic astrology concepts in ways that Western users can relate to including pop psychology about Saturn cycles and advertising gemstones as energy solutions. Software engineers at home learn Python during work hours and practice Brihat Parashara Hora Shastra as their night studies. ■

## Hyatt Place Aurangabad Airport: Innovation, Personalization & Meaningful Hospitality



In an exclusive interview, Senior Editor of T3FS Magazine, Tarsh Sharma, speaks with Amit Jain, General Manager of Hyatt Place Aurangabad Airport, about how the hotel is adapting to evolving guest expectations, balancing innovation with personalization, and redefining hospitality experiences. He also shares insights on the impact of meaningful leadership and the philosophy that drives his approach to guest service.

### With evolving guest expectations, how is Hyatt Place Aurangabad Airport adapting its service offerings to stay ahead of emerging trends in the hospitality industry?

**AJ:** Hyatt Place Aurangabad Airport is continuously adapting its service offerings to stay ahead of emerging trends in the hospitality industry by focusing on several key areas:

● **Personalized Guest Experience:** With evolving guest expectations, the hotel is utilizing advanced technologies such as guest management systems and data analytics to offer more personalized experiences. This allows the team to tailor services, recommendations, and experiences to each guest's preferences.

● **Seamless Technology Integration:** Hyatt Place Aurangabad Airport is enhancing its digital offerings to provide convenience and efficiency. From mobile check-in/check-out services to smart room controls, the hotel integrates technology to streamline guest interactions and elevate the overall experience.

● **Sustainability Initiatives:** As guests become more eco-conscious, the hotel is embracing sustainable practices. This includes energy-efficient systems, waste reduction programs, and sourcing locally to promote sustainable tourism and reduce the hotel's carbon footprint.

● **Health & Safety Focus:** In response to the post-pandemic world, Hyatt Place Aurangabad Airport has implemented enhanced health and hygiene protocols, ensuring guests feel safe and comfortable. This includes regular sanitization, contactless services, and strict health checks for both guests and staff.

● **Culinary Innovation:** Recognizing

the growing demand for diverse and healthy food options, the hotel is offering locally inspired and globally influenced menus with a focus on healthy, organic, and sustainable ingredients. This caters to the changing dietary preferences and wellness-focused guests.

● **Wellness and Work-Life Balance:** With the rise in "bleisure" (business + leisure) travel, the hotel provides flexible workspaces, fitness facilities, and wellness programs for guests looking to balance work and relaxation during their stay.

By staying agile and responsive to these emerging trends, Hyatt Place Aurangabad Airport is ensuring it remains at the forefront of the hospitality industry, delivering exceptional and innovative service to meet the evolving needs of guests.

### In your view, how can hotels balance innovation with personalization to enhance the guest experience without compromising on quality or service?

**AJ:** Balancing innovation with personalization is key to enhancing the guest experience without compromising quality or service. Here's how hotels can achieve this:

● **Leverage Technology Without Replacing Human Touch:** Innovation through technology—such as express check-in/check-out, room automation, or personalized in-room experiences—can greatly enhance convenience. However, it's essential to complement this with personalized service, like friendly staff interactions and attentive hospitality, to ensure the human connection isn't lost.

● **Data-Driven Personalization:** Hotels can use guest data to provide

tailored experiences (e.g., preferred room settings, special requests, or customized recommendations), but this should be done in a transparent, ethical way. By using data to anticipate guest needs without being intrusive, hotels can offer a truly personalized stay while maintaining trust and privacy.

● **Quality-First Innovation:** Any new technology or service innovation should always be evaluated with an emphasis on quality. Whether it's a new wellness offering or a high-tech in-room service, the focus must remain on delivering superior experiences that uphold the hotel's high standards of service and comfort.

● **Flexible Service Models:** Incorporating both innovative self-service options (like contactless check-in or digital concierge) and traditional face-to-face services can strike the right balance. Guests who prefer more tech-driven experiences should have the option to do so, while those seeking traditional, high-touch service are never left behind.

● **Staff Empowerment and Training:** Empowering staff with training on new technologies and service offerings ensures they can provide personalized and informed support. A knowledgeable and approachable team is crucial in maintaining quality, ensuring innovation adds value rather than disrupting the guest experience.

In conclusion, the key is integrating technology to enhance convenience and personalization, while ensuring that quality and service remain at the core of every guest interaction. By continuously adapting to guest needs and preferences, hotels can strike the perfect balance between innovation and personalized service, delivering an experience that feels both modern and deeply tailored.





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