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GEOGRAPHY AND ENVIRONMENT

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Despite progressive reforms, states with higher inter-caste marriages also see increased honor killings. Critically analyze the socio-legal factors that reinforce and legitimize this violence, undermining social reforms and constitutional values.

Introduction

Honor killings, rooted in caste and patriarchy, persist paradoxically in progressive states with higher inter-caste marriages, revealing the deep conflict between constitutional values and entrenched social hierarchies.

The Paradox of Honor Killings

1. **Higher Inter-caste Marriages:** States like **Tamil Nadu, Telangana, Maharashtra, and Kerala** report relatively higher rates of inter-caste marriages (India Human Development Survey-II: ~5% nationally; higher in South & West India).
2. **Higher Honor Killings:** These very states also record frequent cases — **Tamil Nadu's Udumalpet case (2016)** where Dalit youth Shankar was murdered; **Maharashtra's Khairlanji massacre (2006)**; **Telangana's Pranay case (2018)**.
3. **Explanation:** Violence is not strongest where caste is entrenched, but where caste hierarchies are most **challenged** by Dalit assertion, social justice movements, and inter-caste unions.

Socio-Cultural Factors Reinforcing Honor Killings

1. **Caste as Social Control:** Caste operates through **family and kinship systems**. Marriages are crucial for maintaining caste purity and status. Families become the primary enforcers; killings are often **collective decisions by kin groups or khap-style structures**, even in South India.
2. **Patriarchy and Gendered Honor:** Honor is tied to women's sexuality. Inter-caste marriages — especially between Dalit men and dominant caste women — are viewed as **"polluting lineage"**. Studies (UNFPA, 2017) show **90% of honor killing victims are women**.
3. **Resistance to Dalit Empowerment:** Education, employment, and mobility of Dalits in states with strong social justice movements (Tamil Nadu's Periyarist legacy, Maharashtra's Ambedkarite assertion) increase interactions across caste lines. Dominant caste backlash emerges as **reactive violence to perceived loss of social power**.
4. **Cultural Legitimization:** Social media anonymity fuels **caste glorification and defence of honor killings**. Family and community rituals transmit caste consciousness to children, **normalising exclusion** and discouraging inter-caste relationships.

Legal and Institutional Shortcomings

1. **Absence of Specific Law:** No standalone law against honour killings. They are prosecuted under **general IPC provisions (Sec. 302 – murder)**. Law Commission (242nd Report, 2012) recommended special legislation; remains unimplemented.
2. **Khap Panchayats and Informal Justice:** Supreme Court in **Shakti Vahini v. Union of India (2018)** condemned khaps, but in practice, caste councils still exert control, legitimising violence.
3. **Weak Police and Judicial Response:** Police often reluctant to register cases due to **political patronage of caste groups**. Conviction rates in honour killing cases remain dismal (NCRB reports show <30%).
4. **Undermining Constitutional Values:** Article **14 (Equality)**, **15 (non-discrimination)**, **21 (Right to Life)**, **17 (Abolition of Untouchability)** are routinely violated. Supreme Court in **Lata Singh v. State**

of UP (2006) upheld inter-caste marriages and directed protection for couples, but enforcement is poor.

Way Forward

1. **Legal Measures:** Enact a separate law against honour killings; implement Law Commission's recommendations.
2. **Protection Mechanisms:** Strengthen **Safe House schemes** (as per MHA advisory, 2018) to protect inter-caste couples.
3. **Social Reforms:** Invest in **digital counter-narratives** against caste glorification; integrate anti-caste education in schools.
4. **Community Engagement:** Encourage **civil society vigilance** (Tamil Nadu's democratic movements show promise) and promote role models of inter-caste marriages.
5. **Judicial Monitoring:** Fast-track honour killing cases; accountability for police negligence.

Conclusion

Honour killings reveal caste hierarchies under siege, not strength. Only by coupling strong legal deterrence with deep social transformation can India uphold its constitutional promise of equality and dignity.

To plan its next economic leap, India must rationalize subsidies and invest in agri-R&D. Examine how these reforms can be integrated with environmental sustainability for a resilient and balanced growth model.

Introduction

India's growth story since independence has been remarkable, yet structural challenges in agriculture persist. Rationalizing subsidies and investing in agri-R&D, aligned with environmental sustainability, is critical to achieve resilient and inclusive growth.

India's Growth and Agriculture: Context

1. India is projected to become the **fourth-largest economy (\$4.19 trillion by 2025, IMF)** and is already the **third-largest in PPP terms (\$17.6 trillion)**.
2. Agriculture, employing nearly **42% of India's workforce (PLFS 2023)**, has achieved **foodgrain production of 353.9 MMT in 2024-25**, but growth is subsidy-driven rather than innovation-led.
3. Subsidies for food and fertilizers consume **₹3.71 lakh crore in FY26 budget (~1% of GDP)**, crowding out long-term productivity-enhancing investments.

Subsidy Rationalization: The Need and Impact

1. **Current Issues:** Food subsidy leakages: **20-25% do not reach intended beneficiaries (NITI Aayog, 2020)**. Fertilizer subsidy: promotes overuse of urea, soil degradation, and groundwater depletion. Example: **Punjab and Haryana** face soil salinity, falling water tables, and stubble burning, linked to distorted subsidy regimes.
2. **Rationalization Measures:** **Direct Benefit Transfer (DBT)** for fertilizer subsidies (already piloted, needs scaling). Diversifying food subsidy to include **nutrient-rich millets and pulses** (aligned with

International Year of Millets 2023). Linking subsidies with **climate-smart practices** like micro-irrigation, organic farming, and renewable-powered cold chains.

Investing in Agri-R&D: A Growth Driver

1. **Current R&D Gap:** India spends **less than 0.6% of agri-GDP on R&D**, compared to **2.8% in China** (FAO). Public R&D dominates, but private investment is limited and risk-averse.
2. **Benefits of Higher Agri-R&D:** **Productivity gains** like each rupee in agri-R&D yields ₹11 in long-term returns (ICAR). **Nutritional outcomes** by biofortified crops (zinc-rich rice, iron-rich pearl millet) improve child and maternal health. **Technology diffusion** like AI-driven soil health monitoring, drones for precision agriculture, and blockchain-based supply chains.
3. **Examples:** **China's hybrid rice revolution** lifted yields and ensured food self-sufficiency. **Brazil's EMBRAPA** model shows how tropical agri-R&D, linked with global markets, transformed exports.

Integrating Environmental Sustainability

1. Agriculture contributes **~20% of India's GHG emissions (MoEFCC)**, primarily from rice cultivation, livestock, and fertilizer use.
2. Reforms must address the **food-energy-water nexus**:
 - **Climate-smart crops** (drought-tolerant, short-duration paddy, millets).
 - **Water efficiency** via drip irrigation (coverage only ~18% of irrigated land, needs scaling).
 - **Renewable integration:** solar pumps under **PM-KUSUM** reduce diesel reliance.
 - **Agroforestry and soil carbon management** to meet India's **Net Zero 2070** targets.

Way Forward

1. Shift from input subsidies to **output- and innovation-linked incentives**.
2. Expand **public-private R&D partnerships**, leveraging startups in agri-tech (e.g., DeHaat, Ninjacart).
3. Build **resilient value chains** through cold storage, logistics, and farmer-producer organisations (FPOs).
4. Align with **SDG 2 (Zero Hunger)** and **SDG 13 (Climate Action)**, ensuring growth with equity.

Conclusion

India's next economic leap requires rebalancing subsidies toward innovation, investing in agri-R&D, and embedding sustainability into policy. Only then can growth be resilient, inclusive, and aligned with long-term environmental security.

Global talks on plastic pollution face an impasse. Examine the role of mutual trust and differentiated responsibilities in forging a binding international treaty to effectively combat plastic waste.

Introduction

Plastic pollution is a transboundary challenge threatening ecosystems, human health, and climate stability. Building mutual trust and ensuring differentiated responsibilities are critical to forge a binding global treaty for sustainable solutions.

The Global Plastic Crisis

1. The world produces **430 MT of plastic annually** (UNEP), two-thirds of which are short-lived products.
2. In **2019**, plastic generated **1.8 billion tonnes of GHG emissions (3.4% of total)**.
3. Only **9% of global plastic waste is recycled**; 22% is mismanaged and becomes litter.
4. Microplastics are now detected in **human blood, placentas, and oceans**, threatening biodiversity and food chains.

Why Global Talks Face an Impasse

1. **Disagreement on the root cause** – While some nations demand a cut in plastic production, others prefer focusing on recycling and waste management.
2. **Trade and economic concerns** – Developing nations view production cuts as hidden trade barriers, fearing impacts on packaging, exports, and low-cost consumer goods.
3. **Fragmented domestic policies** – India banned 20 single-use plastic items, yet recycling remains at **~30%**. Similar patchwork policies exist globally.
4. **Geopolitical trust deficit** – Developed countries push for bans, but their historical overconsumption and export of waste to developing nations erode trust.

Role of Mutual Trust

1. **Learning from climate negotiations**: The Paris Agreement succeeded where Kyoto faltered because it emphasised flexibility, nationally determined contributions (NDCs), and mutual monitoring.
2. **Transparency and accountability**: Developed countries must disclose production data, waste exports, and finance commitments to build credibility.
3. **Technology sharing**: Access to alternatives (bioplastics, recycling infrastructure, waste-to-energy plants) must be guaranteed without intellectual property hurdles.
4. **Trust-building mechanisms**: Platforms like the **Intergovernmental Negotiating Committee (INC) on Plastics** should enable dialogue, not dictate terms.

Differentiated Responsibilities in a Global Treaty

1. **Polluter Pays Principle**: Major producers (USA, EU, China), accounting for bulk of plastic consumption, should bear greater responsibility.
2. **Equity considerations**: Per capita plastic waste is **>100 kg/year in the US**, compared to **<10 kg/year in many African nations**.
3. **Financial support**: Like the **Green Climate Fund**, a **Global Plastic Action Fund** could finance waste management in the Global South.
4. **Capacity building**: Support for small island developing states (SIDS) and coastal nations swamped by imported waste.

Way Forward

1. **Legally binding targets** for production reduction, recycling, and extended producer responsibility (EPR).
2. **Circular economy transition** – redesign packaging, promote biodegradable substitutes, incentivise reuse.
3. **Regional cooperation** – e.g., ASEAN's Regional Action Plan on Marine Litter can serve as a model.
4. **Multi-stakeholder engagement** – businesses, civil society, and local communities must be co-opted for effective compliance.

Conclusion

A binding plastic treaty demands trust, equity, and differentiated responsibilities. Only by balancing historical accountability with shared innovation can nations collectively reduce plastic waste and ensure planetary sustainability.

Proposed GST reforms aim to boost consumption by lowering tax slabs. Evaluate the potential fiscal implications and economic benefits of such a reform for sustainable and inclusive growth in India.

Introduction

The GST reform proposals to rationalise tax slabs mark a watershed in India's indirect tax regime. They promise consumption stimulus but raise fiscal challenges, demanding careful balancing for inclusive growth.

GST and Its Evolution

1. Introduced in **2017**, GST subsumed multiple indirect taxes into a unified regime.
2. India adopted a **multi-rate structure (0%, 5%, 12%, 18%, 28%)**, unlike many countries with a single or dual rate, to balance revenue and equity.
3. Despite being hailed as a **"Good and Simple Tax"**, GST has faced criticism for complexity, litigation, and compliance burden.

Proposed Reforms

1. **Rate Rationalisation:** Shifting **99% of items from 12% slab to 5%**, and **90% of items from 28% to 18%**. Reducing multiplicity of slabs → fewer disputes and simpler compliance.
2. **Procedural Ease:** Simplifying registration, return filing, and faster refunds. Reducing scope for **input tax credit (ITC) frauds**, which accounted for **₹55,000 crore in fake claims (CBIC, 2023)**.
3. **Complementary to Direct Tax Reforms:** Along with **new Income Tax Bill and revised slabs (Budget 2025)** → a holistic tax reform moment.

Potential Economic Benefits

1. **Boost to Consumption:** Lower rates → more disposable income for the **middle class**. Example: FMCG and consumer durables, heavily taxed at 28%, would become more affordable, stimulating demand. RBI estimates GST cut could lift **private consumption expenditure (currently 57% of GDP)** significantly.
2. **Formalisation of the Economy:** Lower compliance burden encourages MSMEs to enter GST net. Wider base → long-term revenue stability.
3. **Growth & Investment Multiplier:** By reducing litigation and easing refunds, working capital lock-ups will ease. Higher demand boosts capacity utilisation → incentives for private investment.
4. **Equity and Inclusivity:** Essential goods and services become more affordable. Women-centric consumption (hygiene products, household items) taxed at lower rates → social inclusion.

Fiscal Implications

1. **Revenue Shortfall:** RBI (2022) estimated effective GST rate at **11.6%**; post-reform this may fall to **~9%**. Short-term revenue hit could strain **Centre and States**, especially since compensation cess ended in 2022.

2. **Impact on States:** States already seek higher devolution from the **16th Finance Commission**. Lower GST revenue makes inclusion of **petroleum, alcohol** into GST less likely, leaving States dependent on high-yield “sin taxes”.
3. **Risk of Fiscal Slippage:** At a time of high infrastructure spending and welfare commitments, lower tax revenues may expand fiscal deficit unless offset by buoyant consumption.

Way Forward

1. **Phased Implementation** to manage revenue loss.
2. **Compensation Mechanism for States** – perhaps a GST Stabilisation Fund.
3. **Widening Tax Base** – include high-revenue items like petroleum in medium term.
4. **Leveraging Technology** – AI-based GSTN monitoring to plug leakages.
5. **Global Lessons** – Countries like **Australia** and **Malaysia** simplified GST/VAT to 1-2 slabs, boosting compliance and stability.

Conclusion

GST rationalisation promises a consumption-led growth push and tax simplicity. But ensuring fiscal sustainability, state cooperation, and inclusive benefits will be key for India's long-term equitable development trajectory.

The Supreme Court's data-driven approach to case disposal can be a blueprint for other forums. Examine how judicial strategies based on empirical data can enhance justice delivery and reduce pendency across India's courts.

Introduction

India's judiciary, burdened with over 5.1 crore pending cases, faces a chronic backlog. The Supreme Court's recent data-driven reforms show how evidence-based strategies can transform justice delivery nationwide.

Supreme Court's data-driven success

1. Between Nov 2024 and May 2025, SC reduced pendency by **4.83%** in registered matters (71,223 to 67,782).
2. Case Clearance Ratio (CCR) reached **106.6%**, up from a three-year average of 96.5%.
3. **Measures included:**
 1. **Streamlined verification** with IIM-Bangalore's study of listing processes.
 2. **Differentiated Case Management (DCM):** Categorisation of 10,000+ cases for prioritised listing.
 3. **Case Categorisation Framework:** 48 categories, 182 sub-categories to identify bottlenecks.
 4. **Use of AI (SUPACE):** For defect identification and summarisation of bulky evidence.

Potential as a blueprint for other forums

1. **High Courts:** Over **60 lakh cases** pending in HCs (NJDG, 2025). Case categorisation and DCM can help — e.g., separating routine bail matters from constitutional cases. Karnataka HC's pilot on e-filing dashboards already shows reduced defect-cure time.

2. **District and subordinate courts:** With **4.5 crore cases** pending, these are the biggest bottlenecks. Templates for simple disputes (traffic challans, petty offences) can expedite disposal. AI tools for scrutiny of procedural defects can cut months of delay.
3. **Tribunals and quasi-judicial forums:** Debt Recovery Tribunals, NCLT, CAT often face case pile-ups due to staffing shortages. Empirical tracking of categories like “insolvency” or “service matters” can help allocate more benches.

Why data-driven strategies matter

1. **Transparency:** Real-time dashboards like the **National Judicial Data Grid (NJDG)** allow stakeholders to act on bottlenecks.
2. **Targeted staffing:** If motor accident claims dominate a district, more special benches can be created.
3. **Reducing government litigation:** With **60–70% of all cases involving government as a litigant**, categorization helps ministries act early.
4. **Learning loops:** Periodic audits ensure that reforms are evidence-based, not ad-hoc.

Challenges and caution

1. **Infrastructure gaps:** Many lower courts lack digitization; e-filing penetration is uneven.
2. **Capacity building:** Judges and registry staff require training to use data analytics.
3. **Over-reliance on tech:** AI tools must complement, not replace, judicial discretion.
4. **Political and bureaucratic delays:** Without timely appointments and budgetary support, data-driven reforms may stagnate.

Way forward

1. Nationwide rollout of **Case Categorization Framework** with contextual modifications.
2. **Institutionalization of research units** in High Courts, similar to SC’s Centre for Research and Planning.
3. **Integration with NJDG 2.0:** Linking case categories to dashboards for real-time monitoring.
4. **Adoption of AI-assisted systems** for defect curing, translation, and evidence summarization at scale.
5. **Reducing inflow:** Government litigation reforms (as recommended by the Law Commission, 2017) must complement disposal reforms.

Conclusion

The Supreme Court’s data-led efficiency drive illustrates how empirical strategies can reduce pendency and restore faith in justice delivery. Replicating these across forums is essential for sustainable judicial reform.

India’s climate taxonomy aims to guide its climate finance ecosystem. Examine the challenges and opportunities in using this framework to mobilize green finance and ensure a just and sustainable energy transition.

Introduction

India’s draft Climate Finance Taxonomy is a pivotal tool to channel investments toward green sectors. Its effectiveness will determine whether climate finance can support a just, transparent, and sustainable transition.

The Promise of India's Climate Taxonomy

1. **Mobilising Green Finance:** By classifying sustainable activities, the taxonomy will direct funds towards mitigation, adaptation, and transition goals, reducing investor ambiguity and preventing “greenwashing.”
2. **International Alignment:** India's framework aligns with global best practices like the EU Green Taxonomy and supports its obligations under the **Paris Agreement and SDG 13 (Climate Action)**.
3. **Supporting National Targets:** It underpins India's **Panchamrit commitments at COP26**, including 500 GW of non-fossil capacity by 2030 and net zero by 2070.
4. **Boosting Investor Confidence:** Clear definitions of green activities, legal consistency with SEBI's green bond guidelines and the Energy Conservation Act will strengthen investor trust in India's green finance market.

Opportunities in Climate Finance Ecosystem

1. **Carbon Market Synergy:** The rollout coincides with the operationalisation of the **Carbon Credit Trading Scheme (2023)**, enabling integration of taxonomy-based classifications into carbon trading.
2. **Green Bonds & ESG Markets:** India issued its first sovereign green bonds in 2023, raising ₹16,000 crore. Taxonomy can standardise definitions, attracting global ESG funds.
3. **Just Transition Pathways:** By including MSMEs, informal sectors, and vulnerable communities, the taxonomy can enable inclusive growth and prevent widening socio-economic divides in the energy transition.
4. **Dynamic Framework:** The “living” nature of the taxonomy allows adaptive revisions every 5 years, corresponding with **UNFCCC's Global Stocktake** cycles.

Challenges in Implementation

1. **Legal and Institutional Overlaps:** Lack of harmonisation between SEBI norms, Energy Conservation Act, and climate finance mandates risks confusion and regulatory conflict.
2. **Capacity Constraints:** Financial institutions, MSMEs, and state-level agencies may lack expertise to interpret or comply with evolving taxonomy thresholds.
3. **Greenwashing Risks:** Without robust review and disclosure protocols, companies may falsely claim taxonomy alignment, eroding credibility.
4. **Equity Concerns:** High compliance costs for MSMEs and rural enterprises could marginalise them from accessing climate-linked capital.
5. **Global Investor Expectations:** International markets demand strict standards (e.g., EU taxonomy excludes natural gas), whereas India's taxonomy may adopt flexible thresholds to support developmental needs. Balancing ambition with pragmatism remains critical.

Way Forward

1. **Institutional Review Mechanism:** Annual reviews for operational gaps and **five-year comprehensive revisions** to align with NDCs and global stocktake.
2. **Transparent Governance:** Standing expert committee, public dashboards, and stakeholder consultations to enhance accountability.
3. **Capacity Building:** Simplified entry points and staggered compliance for MSMEs and agriculture sectors to ensure inclusivity.

4. **Global Cooperation:** Drawing from EU, ASEAN, and South Africa's taxonomies while safeguarding developmental priorities will ensure India's taxonomy is globally credible yet domestically feasible.
5. **Integration with Fiscal Policy:** Linking taxonomy to **budgetary incentives, blended finance, and public-private partnerships** can amplify mobilisation of private capital.

Conclusion

India's climate taxonomy is both a governance tool and market signal. If implemented transparently with inclusivity, it can mobilise finance, build investor confidence, and anchor a just energy transition.

Critically analyze The Constitution (130th Amendment) Bill, 2025, implications for democratic norms, political accountability, and the rule of law in a charged political climate.

Introduction

The Constitution (130th Amendment) Bill, 2025, seeking automatic removal of arrested ministers, raises profound concerns over constitutional morality, democratic accountability, and misuse of criminal law in India's increasingly polarized political climate.

Intent of the Bill – Accountability or Political Tool?

1. The Bill inserts Articles 75(5A) and 164(4A) mandating removal of ministers, including PMs and CMs, if they spend 30 days in custody.
2. Ostensibly, it addresses the long-standing problem of criminalisation of politics, highlighted by the Vohra Committee (1993), the 244th Law Commission Report (2014), and SC rulings like Lily Thomas v Union of India (2013).
3. However, unlike Section 8 of the Representation of the People Act (RPA), 1951, which ties disqualification to conviction, this Bill shifts the threshold dangerously to mere arrest.

Democratic Norms and Constitutional Principles at Stake

1. **Presumption of Innocence:** The Bill undermines Article 21 by equating arrest with guilt, contravening *Maneka Gandhi v Union of India* (1978) and the principle of "innocent until proven guilty."
2. **Separation of Powers:** Articles 75 and 164 already vest removal powers in the President/Governor on PM/CM's advice. Automatic disqualification bypasses parliamentary and judicial checks, concentrating power in investigating agencies.
3. **Due Process:** SC in *Rameshwar Prasad v Union of India* (2006) stressed that executive action must not subvert constitutional morality. Here, removal without trial or judicial scrutiny denies procedural fairness.

Political Climate and Risks of Misuse

1. Data reveals ED registered 193 cases against politicians in the last decade, 71% in the last 5 years, but secured only **two convictions** (Rajya Sabha, March 2025).

2. Between 2014–2022, 95% of high-profile ED cases targeted Opposition leaders (Indian Express analysis). SC and CJI Gavai have repeatedly flagged “overreach” of agencies.
3. Given the long pre-trial detentions under PMLA and UAPA (with stringent bail conditions), the Bill effectively hands ruling regimes a constitutional weapon to topple Opposition governments.

Comparative and Institutional Context

1. Globally, democracies distinguish between conviction and mere arrest. In the UK, ministers resign only when facing serious charges proven in court.
2. In India, existing safeguards — like SC’s Lily Thomas ruling (disqualification on conviction) — already check misuse. Strengthening investigative autonomy of CBI/ED and faster judicial trials would be more effective than this amendment.

Balancing Political Accountability and Liberty

Genuine decriminalization of politics requires:

1. Independent appointments to CBI/ED through bipartisan committees (as suggested by the Second Administrative Reforms Commission).
2. Making bail the rule except for heinous crimes, in line with SC’s Satender Kumar Antil v CBI (2022).
3. Electoral reforms — barring candidates with serious charges framed by a court, as proposed by the Law Commission, not on mere arrest.

Conclusion

While seeking to curb political corruption, the 130th Amendment risks institutionalising vendetta politics. Democratic accountability must rest on conviction and due process, not arbitrary arrests that erode constitutional morality and liberty.

India urgently needs a national space law. Examine how such legislation can balance international obligations with the promotion of a robust private space economy and affordable insurance frameworks for startups.

Introduction

As India transitions from a state-driven space programme to a dynamic public-private ecosystem, the absence of a national space law risks regulatory ambiguity, undermining international obligations and private sector growth.

Why a National Space Law is Urgently Needed

1. India is among the world’s top five spacefaring nations, with ISRO’s budget at ₹13,042 crore (2024–25) and 150+ private startups (e.g., Skyroot, Agnikul, Dhruva).

2. Yet, without statutory backing, policies like the Indian Space Policy 2023 and IN-SPACe guidelines lack enforceability, leaving investors and startups vulnerable.
3. India has ratified UN space treaties (OST 1967, Liability Convention 1972, Registration Convention 1976) but has not translated them into binding domestic law, unlike the US, Luxembourg, or Japan.

Outer Space Treaty (OST) and India's Obligations

1. OST stipulates: Space is the “province of all humankind”; no national appropriation (Art. II). States are responsible for both governmental and private activities (Art. VI). States are internationally liable for damage caused by national space objects (Art. VII).
2. OST is not self-executing → national legislation is needed for compliance, licensing, liability sharing, and sustainability enforcement. Example: the US Commercial Space Launch Competitiveness Act (2015) and Luxembourg's Space Resources Law (2017) operationalise OST while enabling private mining and insurance frameworks.

Balancing International Commitments with Private Growth

1. **Licensing & Oversight:** Law should empower IN-SPACe with statutory authority, ensuring transparent rules for licensing, FDI, launch approvals, and liability.
2. **Insurance & Liability:** Under the Liability Convention, India is absolutely liable for damage caused by its space objects. Without compulsory insurance, startups risk crippling losses. Affordable insurance pools, public-private reinsurance models, and capped liability (as in US launch laws) can balance responsibility and innovation.
3. **Intellectual Property & Innovation:** Clear IP rights for space technologies, protection from excessive state control, and data-sharing frameworks will prevent talent flight and attract foreign capital.
4. **Debris & Safety:** Binding debris mitigation norms and accident investigation mechanisms are needed to align with UN COPUOS guidelines.

India's Current Approach and Gaps

1. Progressive steps: Indian Space Policy (2023), IN-SPACe NPG (2024), Catalogue of Standards (2023).
2. Missing: A comprehensive “Space Activities Bill” (earlier draft introduced in 2017, never passed).
3. Current ambiguity causes delays — e.g., startups often need multiple ministry approvals for dual-use technologies, slowing innovation.

Insurance and Startups – A Crucial Link

1. Space assets are high-risk, with launch insurance premiums at **15–20% of mission cost** globally.
2. For Indian startups with limited capital, such costs are prohibitive.
3. A law enabling **affordable insurance pools, government-backed reinsurance, and partial liability sharing** would encourage entrepreneurship while protecting India from treaty-based liabilities.

Conclusion

A national space law is India's missing launchpad — harmonising global obligations with private enterprise growth, safeguarding liability risks, and creating affordable insurance frameworks essential for a competitive, innovative space economy.

China remains India's primary strategic challenge due to a lack of interest convergence. Examine the foreign policy and strategic imperatives for India in managing this long-term geopolitical rivalry.

Introduction

India and China, two rising Asian powers, share deep civilizational ties yet remain locked in a structural rivalry. Divergent interests, unresolved borders, and strategic competition make China India's foremost challenge.

Why China remains India's primary strategic challenge

1. **Unresolved boundary dispute and military standoffs:** Despite multiple rounds of talks, the Line of Actual Control (LAC) remains disputed. Galwan (2020) and persistent Chinese incursions in Eastern Ladakh highlight mistrust and militarization.
2. **Asymmetric economic and military power:** China's economy (\$18 trillion GDP) and defence budget (\$230 billion) dwarf India's (~\$4.1 trillion GDP, ~\$73 billion defence budget), limiting India's bargaining power.
3. **Geopolitical divergence:** China's close ties with Pakistan (CPEC through PoK), Belt and Road Initiative, and growing footprint in South Asia and the Indian Ocean threaten India's sphere of influence.
4. **Limited interest convergence:** While both are in BRICS, SCO, and RIC formats, divergences dominate — trade imbalance (~\$100 billion deficit), border tensions, and opposing positions on Indo-Pacific.
5. **Technology and security concerns:** Cyber intrusions, rare earths dominance, and critical technology supply chains (e.g., semiconductors, telecom) raise vulnerabilities.

Foreign policy imperatives for India

1. **Pursue strategic autonomy with diversified partnerships:** Maintain RIC dialogue but deepen Quad ties (with US, Japan, Australia) and G7 outreach to counterbalance Beijing. Strengthen strategic ties with Russia despite US pressures, leveraging energy and defence.
2. **Leverage multilateral platforms and norms:** Use BRICS, SCO for dialogue, but push for rules-based order in the Indo-Pacific. Engage ASEAN and IORA to strengthen maritime diplomacy and connectivity.
3. **Strengthen deterrence and border infrastructure:** Accelerate projects like the Border Roads Organisation's advanced connectivity along the LAC, deploy ISR and satellite assets, and modernise forces (Agni-5 test, Tejas Mk1A). Indigenisation through Make in India and Atmanirbhar Bharat to reduce dependency on Chinese supply chains.
4. **Economic resilience and technological capability:** Diversify trade and investment partners, incentivise domestic manufacturing in electronics, critical minerals, and defence. Invest in AI, cybersecurity, space, and critical tech partnerships with the West and East Asia.
5. **Engage China where possible, manage conflict where necessary:** Confidence Building Measures (CBMs), military-to-military hotlines, and dialogue mechanisms can avoid escalation. Explore selective cooperation on climate change, multilateral finance (AIIB, NDB), and public health.

Strategic imperatives at home

1. **Political and economic unity:** Domestic cohesion and economic reform enhance credibility abroad.
2. **Defence-industrial reform:** Private sector, FDI liberalisation, and R&D to build credible deterrence.

Conclusion

India-China relations will remain marked by competition more than cooperation. Managing this rivalry needs a mix of deterrence, dialogue, partnerships, and domestic strength to safeguard India's sovereignty and strategic autonomy.

India's vocational training system needs reinvention through public-private partnerships. Examine how this governance model can enhance employability and address the national skill gap for harnessing the demographic dividend.

Introduction

India's demographic dividend is at risk as only 4% of the workforce is formally skilled. Reinventing vocational training through strong public-private partnerships (PPP) can boost employability and productivity.

Why India needs VET reform

1. **Low formal skilling:** Only ~4% formally trained versus 75% in Germany and 96% in South Korea (MSDE, 2023).
2. **High youth unemployment:** PLFS 2023 showed ~17% unemployment in 15–29 years age group.
3. **Industry demand-supply mismatch:** Sectors like manufacturing, EV, semiconductors, green energy demand mid-level technical skills unmet by current system.
4. **Sub-optimal institutions:** 14,000+ ITIs, but only 48% seat utilisation; one-third trainer posts vacant; outdated curricula.

Challenges of the existing system

1. **Late entry point:** VET is introduced post-school; NEP 2020 recommended integration from Class 6, but implementation is slow.
2. **Lack of career pathways:** No credit transfer or linkage to higher education; unlike Singapore's polytechnic and university pathways.
3. **Perception issues:** Seen as inferior to academic education; weak industry linkages lower job absorption.
4. **Fragmented funding and governance:** Multiple ministries and schemes; low private investment.

Role of Public-Private Partnerships (PPP)

PPP can act as a governance and delivery mechanism for efficiency and scale. Successful models abroad show:

1. **Curriculum and quality design:** Industry-led updates to keep courses market-relevant (Singapore SkillsFuture, German Dual System).

2. **Infrastructure modernisation:** Private players invest in labs, simulators, smart classrooms; example: Tata STRIVE upgrading ITIs.
3. **Apprenticeships and placements:** Germany's 50% apprenticeship model leads to ~90% employability; India can scale its National Apprenticeship Promotion Scheme (NAPS).
4. **Faculty and trainers:** PPP allows flexible hiring of industry experts; Larsen & Toubro and Maruti Suzuki ITI tie-ups show better outcomes.
5. **Funding and sustainability:** Shared investment reduces pressure on public finances; CSR and Sector Skill Councils can pool resources.

Recent initiatives and gaps

1. **PM Kaushal Vikas Yojana (PMKVY 4.0):** Skill hubs proposed; yet coverage limited.
2. **National Credit Framework and Skill India Digital Platform:** Can integrate credit-based mobility across VET and academics.
3. **PM Internship and ELI Schemes:** Focus on jobs, but weak skilling components.

Way forward

1. **Early integration and career pathways:** Implement NEP 2020's vision; link to higher education.
2. **Institutional reforms:** Grant ITIs autonomy, performance-linked funding, state-level Skill Universities.
3. **PPP at scale:** Use hub-and-spoke models with MSMEs; incentivise private investment via tax breaks, CSR credits.
4. **Demand-driven skilling:** Use real-time labour market data; focus on sunrise sectors like AI, green hydrogen, EV.
5. **Inclusion and equity:** Ensure rural, women, and marginalised groups have access; integrate digital skilling.

Conclusion

Harnessing India's demographic dividend requires aligning skills with market needs. PPP-led vocational training can deliver industry-ready workers, bridge the skill gap, and power inclusive economic growth.

The increasing use of Artificial Intelligence (AI) in courtrooms requires clear guardrails. Examine the ethical and technical challenges in integrating AI into the justice system for ensuring fair, responsible, and transparent adjudication. (500 words)

Introduction

Artificial Intelligence can enhance efficiency in judicial processes, but without robust ethical and technical safeguards, it risks undermining fairness, accuracy, and public trust in the justice system.

Context and significance

1. India's judiciary faces over **5 crore pending cases** (National Judicial Data Grid, 2025). AI tools like **transcription, translation, legal research, and defect identification** promise efficiency.
2. Kerala High Court (2024) was the first to release guidelines for AI use; the **eCourts Project Phase III** envisions deeper digital integration.

3. Globally, AI pilots in courts include **COMPAS risk assessment tools** (U.S.), AI-supported sentencing (China), and predictive analytics (Estonia).

Policy Challenges

1. **Bias and fairness:** AI models learn from historical data, which may reflect societal or systemic biases (e.g., studies in the U.S. showed racial bias in COMPAS).
2. **Hallucinations and misinformation:** AI tools can create inaccurate translations or case citations (e.g., Supreme Court judge reported 'leave granted' translated as 'holiday approved').
3. **Transparency and explainability:** Most AI tools function as "black boxes." Lack of explainability can erode litigant trust and make judicial review difficult.
4. **Right to be informed:** Litigants and lawyers must know when AI is used. There's a need for **consent and opt-out provisions** in pilots.
5. **Privacy and data security:** Court records contain sensitive personal data; without strong protocols, risk of breaches and misuse rises.

Technical and institutional challenges

1. **Infrastructure gaps:** Majority of courts are still paper-based; digital divide and connectivity issues limit AI deployment in rural/district courts.
2. **Quality of AI tools:** Vendor solutions vary in accuracy; OpenAI's Whisper and other LLMs can make errors or hallucinate content.
3. **Procurement and oversight:** Absence of **standardised procurement and evaluation frameworks** can lead to inappropriate adoption or vendor lock-in.
4. **Capacity building:** Judges, lawyers, and staff need **AI literacy**—not just usage training, but understanding limitations and risks. Judicial academies can collaborate with AI experts.
5. **Data governance:** Need policies for **data ownership, anonymisation, and retention**; absence of clear frameworks can undermine confidentiality.

Way forward – building guardrails

1. **Policy frameworks:** Formal guidelines like Kerala High Court's policy should be expanded nationally; include **ethical codes, performance metrics, and accountability mechanisms**.
2. **Human oversight:** AI should remain an **assistive tool**, not a decision-maker; final adjudication must rest with judges.
3. **Tech offices and audits:** As suggested in **eCourts Vision Document**, set up technical cells for procurement, risk assessment, and periodic audits.
4. **Stakeholder inclusion:** Engage bar councils, industry, civil society in policy-making to ensure balance of efficiency and rights.
5. **Global best practices:** Adopt OECD AI Principles (transparency, accountability), EU's AI Act approach to high-risk systems.

Conclusion

AI can modernise courts and reduce pendency, but must be guided by ethics, transparency, and human oversight. Responsible adoption ensures technology strengthens, not supplants, judicial reasoning and fairness.

Despite signals to move past the Galwan clashes, a genuine reset in India-China ties remains elusive. Examine the geopolitical and strategic challenges impeding a full normalization of relations.

Introduction

Since the 2020 Galwan clashes, India-China engagement has resumed in fits and starts—talks by Special Representatives, limited CBMs (flights, visas, border trade)—yet the relationship remains adversarial. Structural, not episodic, frictions impede full normalization.

What still blocks a reset?

The boundary is quiet, not settled

1. **Status quo ante unresolved:** Friction points (e.g., Depsang, Demchok) are not fully restored to pre-2020 positions. Differing LAC perceptions prevent routine patrolling and keep large forward deployments in place.
2. **Military asymmetry and posture:** PLA's border infrastructure, dual-use "model villages", bridges (e.g., Pangong Tso), UAVs and integrated air-defence create persistent pressure; India must mirror-deploy, raising costs and escalation risks.
3. **CBMs frayed:** The 1993/1996 agreements, 2005 "Political Parameters", and 2013 BDCA are stressed; verification, patrolling protocols, and crisis hotlines have not rebuilt trust.

The China-Pakistan nexus

1. **CPEC across PoK** undercuts India's sovereignty claims and is now linked to prospective extensions into Afghanistan.
2. Diplomatic shielding of Pakistan-based militants at the UN and coordinated messaging after terror incidents deepen India's security concerns.

Strategic competition beyond the Himalayas

1. **Indian Ocean & Indo-Pacific:** PLA Navy's growing presence, dual-use ports, and surveillance around critical sea lanes collide with India's SAGAR vision and QUAD cooperation.
2. **Technology & cyber:** Suspicion over 5G vendors, critical minerals, and data security, plus cyber intrusions on Indian grids and ports attributed to China, make tech decoupling/derisking sticky issues.
3. **Space and emerging tech:** Rivalry in launch, EO/communication satellites, and standards-setting adds a long-tail strategic contest.

Economic entanglement without trust

1. **Trade imbalance (~\$100+ bn deficit):** India depends on Chinese inputs (electronics, APIs, solar), while maintaining investment and procurement scrutiny. This "security-first interdependence" is hard to unwind or to normalize.
2. **Coercion fears:** App bans, investment screening and tariff/standards spats reflect a cycle of defensive measures that dampen business confidence.

Narrative and domestic politics

1. **Public opinion after Galwan** constrains political space for overt concessions.
2. **Cartographic/identity disputes** (maps, stapled visas for Arunachal, naming places) repeatedly reignite sentiment.

Multilateral friction: NSG membership, UNSC reform, BRI norms, debt diplomacy: Divergences recur in nearly every forum (SCO/BRICS/UN), limiting space for a broad détente.

Why “manage, not solve” has limits

The traditional formula—compartmentalize the boundary, grow economics—has flipped: the boundary now **conditions** economics and politics. Deterrence without reconciliation is fiscally heavy, crisis-prone, and vulnerable to a single incident unraveling gains.

What India must do—strategic imperatives

1. **Deterrence with endurance:** Multi-domain denial: ISR, air mobility, precision fires, winter logistics, and redundant comms; harden critical grids against cyber/space disruption. Complete eastern/central sector connectivity (tunnels, feeder roads) and tri-service theatre synergy.
2. **Codify robust border guardrails:** Restore verifiable patrolling regimes, disengagement templates, and incident-prevention SOPs; push for **sector-wise LAC clarification** even if a final settlement is distant.
3. **De-risk the economy:** Targeted import substitution in APIs/electronics, trusted-vendor rules for critical infrastructure, diversified supply chains (Japan+1, Europe, ASEAN), and calibrated FDI screening that still allows non-sensitive capital.
4. **Coalitions without containment:** Deepen QUAD and minilateral practicals (HADR, maritime domain awareness, critical tech), while keeping **issue-based cooperation with China** (climate, health, financial stability) to avoid total fracture.
5. **Leverage competitive statecraft:** Offer credible alternatives to BRI: IMEC, east-west corridors, neighbourhood connectivity, and development finance that is timely and transparent.
6. **Narrative management and crisis communication:** Institutionalized media transparency on border incidents, regular SR-level reviews, and Track-II/Track-1.5 channels to reduce misperception.

Conclusion

A durable reset needs more than quiet borders; it requires verifiable de-escalation, balanced interdependence, and guardrails in every domain. Until structural divergences narrow, India must pursue **deterrence, de-risking, and disciplined dialogue**—engagement without illusion, stability without surrender.