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August 01-10, 2024

Boilers Bill, 2024



PIV-KUSUM More Details in Page 33

HIGHLIGHTS

- Global Methane
 Emissions
- Seaweed Farm
- Middle Income
 Trap

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mRNA Vaccine Development Against H5N1

Why in News?

The World Health Organization (WHO) has launched a new initiative to advance the development of mRNA vaccines against human avian influenza (H5N1).

Key Highlights

- Objective: To accelerate the development and accessibility of H5N1 mRNA vaccine candidates for manufacturers in low- and middle-income countries (LMICs).
- Implementation: This will be done through the WHO's mRNA Technology Transfer Programme (MTTP), complementing the ongoing work under the Pandemic Influenza Preparedness (PIP) Framework.

Pandemic Influenza Preparedness (PIP) Framework

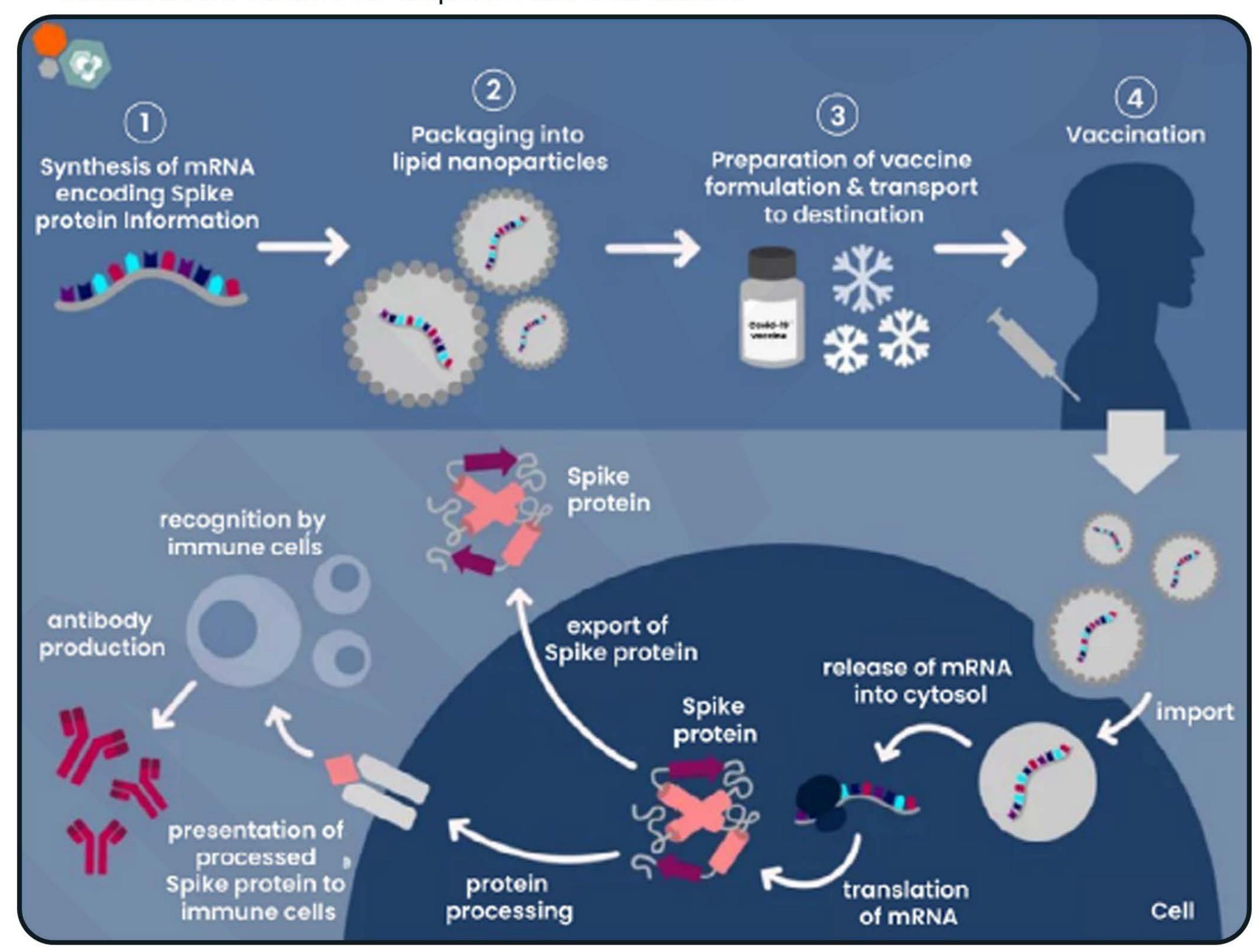
- Aim: To improve the sharing of influenza viruses with human pandemic potential and enhance LMIC access to vaccines.
- Significance: Promotes vaccine equity and prepares for future pandemics in a decentralized manner.

About mRNA Vaccine Technology

- Mechanism: mRNA vaccines introduce a piece of mRNA corresponding to a viral protein, usually found on the virus's outer membrane.
- Function: The mRNA instructs cells to produce viral proteins, triggering the immune system to create antibodies and boost immunity.
- **Example:** The COVID-19 mRNA vaccine directs cells to produce the coronavirus "spike protein," leading to an immune response.



- ➡ Vaccine Equity: Ensure broader access to mRNA vaccine technology in LMICs.
- Pandemic Preparedness: Strengthen global readiness for future pandemics through decentralized vaccine development and distribution.



IPEF's Supply Chain Council

Why in News?

India has been elected as the Vice-Chair of the Indo-Pacific Economic Framework (IPEF) Supply Chain Council, alongside 13 other IPEF partners.

Key Highlights

- Supply Chain Council: Established to pursue targeted, action-oriented work to strengthen supply chains in critical sectors, ensuring national security, public health, and more.
- Crisis Response Network: Provides a forum for collective emergency responses to disruptions in supply chains.
- Labor Rights Advisory Board: Brings together workers, employers, and governments to strengthen labor rights and workforce development across regional supply chains.

Supply Chain Resilience (SCR)

- Definition: SCR is the ability of a supply chain network to withstand disruptions and minimize impacts on revenues, costs, and customers.
- Supply chain refers to the interconnected process from raw material assembly to the final sale of products.
- Threats: Includes geopolitical issues (e.g., energy disruptions from Russia-Ukraine conflict) and economic shocks (e.g., COVID-19 induced disruptions).

Measures Taken for SCR by India

- Global Initiatives: Supply Chain Resilience Initiative (Australia, India, Japan), Quad Supply Chain Initiative, etc.
- National Initiatives: PM Gati Shakti National Master Plan, National Logistics Policy, PLI Scheme for various sectors, etc.



Way Forward

- Strengthen Participation: Enhance India's role in global supply chain initiatives and promote resilience.
- Focus on Resilience: Continue implementing national and global strategies to mitigate supply chain disruptions and ensure stability.

About IPEF (Indo-Pacific Economic Framework)

- Launch: Established in 2022 in Tokyo, Japan.
- Members: Includes 14 countries—Australia, Brunei, Fiji, India, Indonesia, Japan, Republic of Korea, Malaysia, New Zealand, Philippines, Singapore, Thailand, Vietnam, and USA.
- Objective: To strengthen economic engagement among partner countries, advancing growth, peace, and prosperity in the Indo-Pacific region.
- Four Pillars:

Pillar I: Trade

Pillar II: Supply Chain Resilience

Pillar III: Clean Economy Pillar IV: Fair Economy

 India's Participation: Active in Pillars II-IV, while maintaining observer status in Pillar I.



Bharatiya Vayuyan Vidheyak 2024

Why in News?

The Bharatiya Vayuyan Vidheyak 2024 has been introduced in the Lok Sabha, set to replace the 90-year-old Aircraft Act of 1934.

Key Highlights of the Bill

Aim: To address ambiguities in the current law and facilitate ease of business and manufacturing in the aviation sector.

Important Provisions:

International Compliance: Empowers the Central Government to make rules for implementing international civil aviation conventions, such as Chicago Convention (1944) & International Telecommunication Convention (1932).

Enhanced Authority: Increases the powers of the Directorate General of Civil Aviation (DGCA), the Bureau of Civil Aviation Security (BCAS), and the Aircraft Accident Investigation Bureau (AAIB).

Emergency Powers: Allows the Central Government to issue orders, like detaining aircraft, in the interest of public safety during emergencies.

Significance of the Bill

- Atmanirbhar Bharat: Aligns with the initiative by regulating the design and manufacturing of aircraft domestically.
- Technological Inclusion: Expands coverage to include drones, unmanned aerial vehicles (UAVs), flying taxis, and certain electronic gliders.
- Market Adaptation: Addresses the needs of a rapidly growing aviation market. ICRA estimates domestic air passenger traffic will grow by 8-13% in FY2024.

Way Forward

- Implement the bill to streamline aviation regulations.
- Strengthen the aviation sector through enhanced regulatory frameworks.
- Support the growth and modernization of the Indian aviation industry.

Privilege Motion

Why in News?

A breach of privilege notice has been moved in the Rajya Sabha against the Union Home Minister.

About Privilege Motion

- **Definition:** A privilege motion is raised when a member believes their privilege has been breached or misused.
- Scope: Parliamentary privileges include specific rights enjoyed by both Houses collectively and individual members, such as freedom of speech.
- Relevant Article: Article 105 of the Indian Constitution addresses the powers, privileges, and functions of the Houses of Parliament and their members and committees.

Conditions for Raising a Privilege Motion

- Specific Matter: The question of privilege must pertain to a specific, recent occurrence.
- House Intervention: The matter must require intervention from the House.

- Investigation: The Rajya Sabha will investigate the breach of privilege notice to determine the validity and necessary actions.
- Uphold Privileges: Ensure that parliamentary privileges are protected and adhered to by all members to maintain the integrity of parliamentary proceedings.



The Disaster Management (Amendment) Bill, 2024

Why in News?

The Bill seeks to amend the **Disaster Management (DM) Act, 2005**, integrating disaster management more effectively into development plans, aligning with recommendations of the **15th Finance Commission**.

Key Features of the Bill

Disaster Database

Creation of disaster databases at national and state levels.

Includes disaster assessments, fund allocation details, expenditure, preparedness, and mitigation plans, and risk registers.

Disaster Plan

Empowers the National Disaster Management Authority (NDMA) and State Disaster Management Authority (SDMA) to prepare disaster plans at national and state levels, respectively.

National plan to be reviewed every three years and updated at least once every five years.

Urban Authority

Proposes the establishment of "Urban Disaster Management Authority" for state capitals and large cities with Municipal Corporations.

Statutory Recognition

Grants statutory recognition to existing bodies:

National Crisis Management Committee (nodal body for major disasters)

High-Level Committee (for approval of financial assistance)

State Force

Enables state governments to constitute **State Disaster Response Forces** to strengthen state disaster response capabilities.

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Key Provisions of DM Act, 2005

Institutional Structure

National Level: NDMA, headed by the Prime Minister.

State Level: SDMAs, headed by respective Chief Ministers.

District Level: District Disaster Management Authorities (DDMAs), headed by District

Collectors, District Magistrates, or Deputy Commissioners.

Response Force and Fund

Establishes the **National Disaster Response Force** (for specialist response) and the **National Disaster Response Fund** (for meeting threatening disaster situations).

- Implement the amendments to enhance disaster management integration with development plans.
- Strengthen disaster preparedness and response at national, state, and urban levels.
- Regularly update disaster plans and maintain comprehensive disaster databases.



Eco-Sensitive Zone

Why in News?

The National Green Tribunal (**NGT**) has directed the Ministry of Environment, Forests and Climate Change (**MoEF&CC**) to finalize a deadline for declaring the Western Ghats as an Eco-Sensitive Zone (**ECZ**).

About Western Ghats

Geographic Spread: The Western Ghats extend across six states: Gujarat, Maharashtra, Goa, Karnataka, Kerala, and Tamil Nadu.

Historical Recommendations:

2011 Gadgil Panel: Recommended declaring the entire Western Ghats as an "Ecologically Sensitive Area" due to its dense forests and high biodiversity.

Kasturirangan Panel: Reviewed and revised the Gadgil report.

Draft Notification (2022)

Regulation of Human Activities:

Restricted: Mining, quarrying, sand mining, 'Red' category industries, and new thermal power projects.

Regulated: Hydropower projects.

Unrestricted: Existing healthcare establishments, agriculture, and plantation activities.

Monitoring: Establishment of a Decision Support & Monitoring Centre for assessing and reporting on the ecology of the Western Ghats.

Issues

- Local Impact: Concerns that the draft notification may adversely affect local residents' livelihoods and development activities.
- Scientific Basis: Claims that no comprehensive scientific survey was conducted before issuing the draft notification.

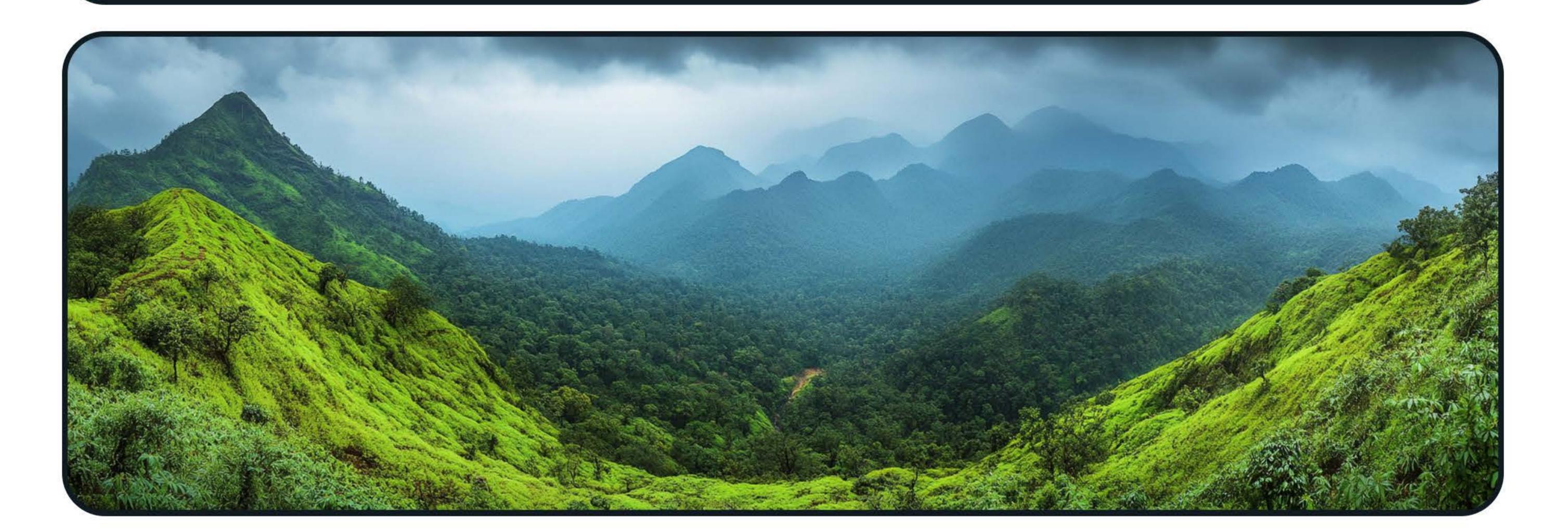


Way Forward

- Finalize Deadline: MoEF&CC to establish a deadline for the final notification of the Western Ghats as an Eco-Sensitive Zone.
- Balance Interests: Address concerns regarding the impact on local livelihoods and ensure the notification is based on comprehensive scientific surveys.
- Enhance Monitoring: Strengthen monitoring mechanisms to protect the ecological integrity of the Western Ghats.

Eco-Sensitive Zones

- Definition: Areas with unique environmental resources requiring special conservation attention due to their landscape, wildlife, biodiversity, and historical value.
- Regulation: Defined under the National Environment Policy (2006) and the National Wildlife Action Plan (2002-2016), and regulated by MoEFCC under the Environment Protection Act, 1986.



World Bank Report 2024: Middle-Income Trap

Why in News?

The World Bank has released its **World Development Report 2024,** focusing on the "**Middle-Income Trap**" and providing a roadmap for developing countries to advance beyond this economic challenge.

About the Middle-Income Trap

- **Definition:** A situation where a middle-income country (with an annual GDP per capita between \$1,136 and \$13,845) faces growth slowdowns and struggles to transition to high-income status.
- Trap Threshold: Countries often hit a growth plateau at approximately 10% of annual U.S. GDP per person (\$8,000) and fail to progress further.
- Statistics: Since 1990, only 34 middle-income countries (MICs) have successfully transitioned to high-income status.
- Current Scenario: As of late 2023, 108 MICs, accounting for 75% of the global population and generating over 40% of global GDP, are facing these challenges.

Challenges for MICs

- Aging Populations: Many MICs are experiencing rapidly aging populations.
- Rising Protectionism: Increased protectionism in advanced economies impacts trade and economic growth.
- Energy Transition: The need to accelerate energy transitions to sustainable sources.



India's Situation

- Current Status: India has been classified as a Lower MIC since 2007, with a GNI per capital of \$2,540.
- Projections: At current growth trends, it would take India 75 years to reach one-quarter of U.S. income per capita.

Key Recommendations

31 Strategy:

Investment: Prioritize investments in key sectors.

Infusion: Introduce new technologies and innovations.

Innovation: Adopt a balanced approach integrating investment, infusion, and innovation.

- Foster Business Dynamism: Reward value-adding firms and deepen capital markets.
- Enhance Social Mobility: Provide equal opportunities to women, minorities, and disadvantaged groups. For example, removing barriers for women entrepreneurs in India could boost real income by 40%.
- Economic Efficiency: Reflect environmental costs in energy prices to enhance overall efficiency.

- Policy Implementation: Develop and execute policies based on the 31 strategy to stimulate growth and innovation.
- Support Inclusivity: Focus on removing barriers to entrepreneurship and enhancing social mobility.
- Promote Sustainability: Ensure that economic practices reflect environmental costs to achieve long-term efficiency.



Seaweed Farming

Why in News?

NITI Aayog has released a report outlining strategies for advancing the seaweed value chain in India.

Significance of Seaweed Farming

- Economic Value: Seaweeds offer valuable bioactive compounds for food and pharmaceuticals.
- Environmental Impact: Plays a crucial role in carbon sequestration and enhancing climate resilience.
- Nutritional Benefits: Rich in essential minerals and vitamins (A, B1, B12).

Challenges in Seaweed Farming

- Policy Framework: Absence of a comprehensive policy.
- Quality Seeds: Limited availability of high-quality seeds.
- Ecological Concerns: Potential impacts of exotic species on biodiversity and coral reefs.

Recommendations for Promoting Seaweed Farming

- Regulatory Reforms: Establish a National Steering Committee; introduce Priority Sector Lending (PSL) for seaweed.
- Social Security & Financial Support: Provide crop insurance; mobilize farmers through Self-Help Groups (SHGs).
- Infrastructure Development: Set up seed banks, processing centers, and marketing centers.



Steps Taken by India

- PM Matsya Sampada Yojana: Aims for 1 million tons of seaweed production annually by 2025.
- Expert Committee: Chaired by Dr. V K Saraswat to review seaweed development policies.
- Offshore Cultivation: Initiated in the Andaman region by NIOT-ACOSTI.
- GIS-based Portal: Developed to map seaweed cultivation sites.

- Policy Development: Implement recommended regulatory and governance reforms.
- Investment & Infrastructure: Enhance infrastructure and support mechanisms for seaweed farming.
- Research & Innovation: Focus on improving seed quality and addressing ecological concerns.



China Plus One Strategy

Why in News?

The Economic Survey (2023-24) suggests leveraging Foreign Direct Investment (FDI) from China to benefit from the 'China Plus One Strategy'.

China Plus One Strategy

- Definition: A practice where international businesses active in China couple their investments with a second facility in another Asian economy.
- Drivers: Disruptions due to China's zero-COVID policy, growing US-China tensions, and rising labour costs in China.

Beneficiaries

- Current Beneficiaries: Mexico, Vietnam, Taiwan, and Korea.
- Potential for India: India could capitalize by integrating into China's supply chain or encouraging Chinese FDI. The latter is more advantageous:

Reduces trade deficit with China.

Aligns with the growing trend of beneficiaries increasing FDI inflow from China.

Concerns with Chinese FDI in India

- Border Dispute: Ongoing military tensions and China's regional supremacy ambitions.
- Security Risks: Potential for espionage due to Chinese laws mandating cooperation with national intelligence.
- China's Support for Pakistan: Adds a layer of complexity to India-China relations.



India-China Economic Relations

Bilateral Trade:

China is India's top import partner.

Bilateral trade was US\$ 118.4 billion in FY24.

India faces a trade deficit of around US\$ 85 billion.

China's FDI in India:

Accounts for around 0.37% of total FDI inflow (April 2000 - March 2024).

India's Initiatives to Narrow Trade Deficit

- PLI Scheme: Production-Linked Incentive scheme to boost manufacturing.
- Anti-dumping Duties: Measures to protect domestic industries from unfair foreign competition.
- Quality Control Orders: Ensuring imported goods meet Indian standards.

- Encouraging Chinese FDI for export-driven growth.
- Strengthening security measures to mitigate risks associated with foreign investments.
- Continuing initiatives to reduce trade deficit and improve domestic manufacturing capabilities.



NPA Provision Norms for Gooperative Banks

Why in News?

The Reserve Bank of India (RBI) has revised the norms for Non-Performing Assets (NPAs) provisions for cooperative banks.

Need for New Norms

- Some banks were not recognizing required provisions for NPAs as an expense.
- The new norms aim to bring uniformity in the treatment of Bad & Doubtful Debt Reserve (BDDR).

New Norms

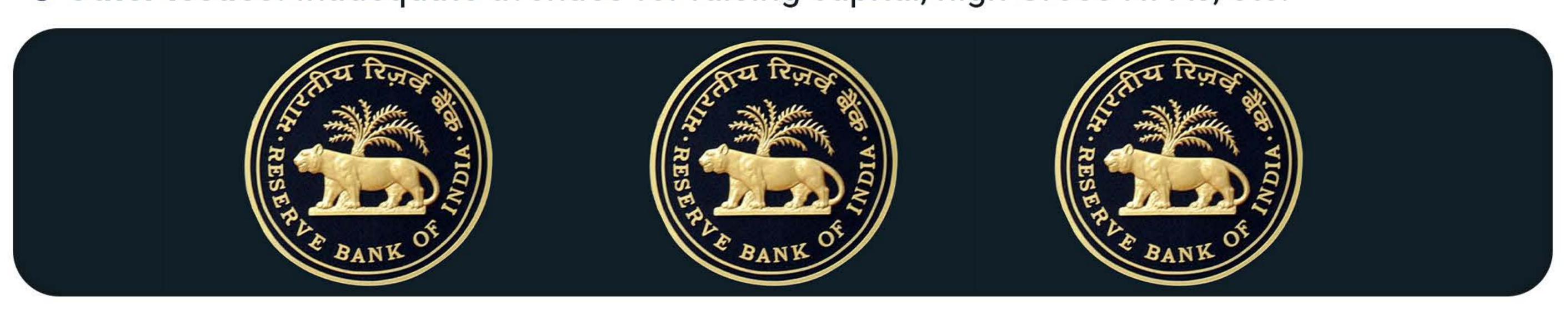
- All provisions under Income Recognition, Asset Classification, and Provisioning (IRACP) norms must be charged as an expense to the Profit and Loss Account.
- After accounting for all provisions as per IRACP norms and other regulations, cooperative banks may appropriate net profits to BDDR.

Cooperative Banks

- Operate on the principle of cooperation and are owned and operated by their members.
- Divided into Rural and Urban cooperative banks.

Issues with Cooperative Banks

- Regional Disparity: 82% of total Urban Cooperative Banks (UCBs) and around 90% of branches are concentrated in Western and Southern regions (2020).
- Dual Regulation: State governments oversee managerial and administrative activities, while RBI/NABARD regulates banking activities.
- Other Issues: Inadequate avenues for raising capital, high Gross NPAs, etc.





Steps Taken for Reform

- Banking Regulation (Amendment) Act, 2020: Brought management, governance, winding up, etc., under RBI's purview.
- Umbrella Organization for Urban Cooperative Banks: National Federation of Urban Co-operative Banks and Credit Societies Ltd.

Way Forward

- Implement new norms to ensure financial stability and uniformity.
- Address regional disparities and dual regulation challenges.
- Strengthen cooperative banks through adequate capital-raising avenues and improved governance.



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India's Foreign Policy Dilemma in West Asia

Why in News?

- Recent tensions between Iran and Israel, exacerbated by the assassination of Hamas and Hezbollah leaders, have prompted increased diplomatic efforts from the US and regional powers to prevent a broader conflict.
- India faces a complex foreign policy dilemma due to its significant interests in both countries.

India's Stakes in the Region

- Energy Security: The Gulf-West Asia-North Africa region accounts for over two-thirds of India's crude oil imports.
- Diaspora & Remittances: Approximately 8 to 9 million Indians reside in West Asia, with countries like UAE, Saudi Arabia, Kuwait, and Oman being major sources of remittances.
- Strategic Interests: Key projects such as the India-Middle East-Europe Economic Corridor and the Chabahar Port (Iran) are crucial for India's strategic goals.

India's Foreign Policy Approaches

- **Extended Neighbourhood:** The Gulf region is considered part of India's 'extended neighbourhood,' with Iran included in its 'proximate neighbourhood.'
- Look West Policy: Since 2005, this policy aims to enhance cooperation with West Asian countries and secure India's national interests in the region.
- Policy of De-hyphenation: India maintains separate and independent diplomatic relations with Israel and Palestine, focusing on merit-based interactions rather than linked relations.



Way Forward

- Diplomatic Balancing: Continue to navigate the delicate balance between maintaining strong ties with both Iran and Israel.
- Strategic Investments: Enhance engagement in strategic projects that benefit India's national interests while managing regional tensions.
- Diversification: Explore additional avenues for energy security and economic cooperation to reduce dependency on any single region or country.



Global Methane Emissions

Why in News?

Recent study reveals that global methane emissions have been increasing at the fastest rate in decades, with a significant rise since 2006 and especially since 2020.

The trend is expected to persist throughout the 2020s.

Key Highlights of the Study

- Contribution to Warming: Methane emissions since 1850 have contributed approximately 65% as much warming as CO2.
- Recent Surge: The sharp increase in methane emissions in the early 2020s is primarily due to warming-induced responses from wetlands, along with contributions from fossil fuel use.

About Methane Emissions

Climate Impact: Methane is a short-lived climate pollutant and the second-largest contributor to global warming after CO2.

Emission Sources

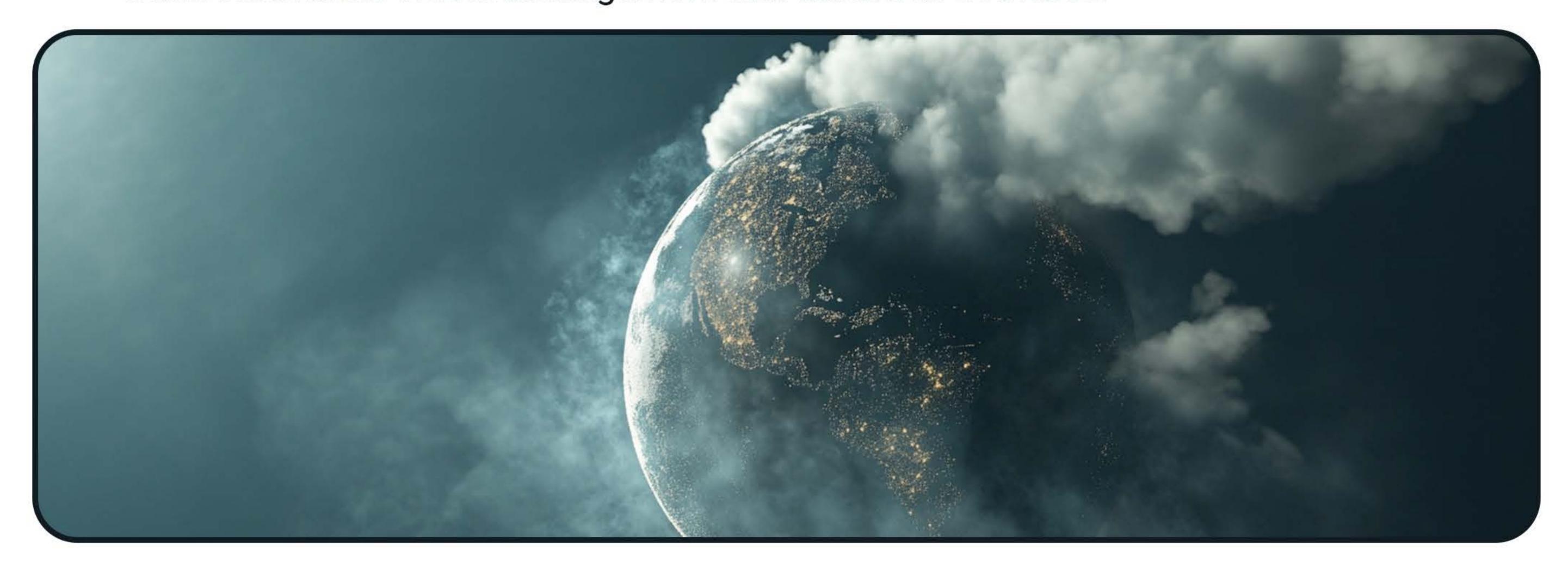
Natural Sources: Wetlands produce about 30% of methane; other sources include wildfires, biomass burning, permafrost, termites, and oceans.

Anthropogenic Sources:

Agriculture: Includes livestock, waste management, and rice cultivation (20%).

Fossil Fuels: Extraction processes (30%).

Other Activities: Waste management and industrial activities.



Impact

- Global Warming Potential (GWP): Methane has approximately 28 times the GWP of CO2.
- Pollution: Contributes to ground-level ozone formation, which is harmful, and methane leaks can cause explosions.

Initiatives to Reduce Methane Emissions

Global Initiatives:

Global Methane Pledge: Aims for a 30% reduction in methane emissions by 2030.

Methane Observatories: Includes Earth Surface Mineral Dust Source Investigation (EMIT) and Airborne Visible InfraRed Imaging Spectrometer - Next Generation (AVIRIS-NG).

Other Programs: Global Methane Initiative (2004), Methane Alert and Response System (MARS).

India's Initiatives:

National Mission on Sustainable Agriculture (NMSA).

Direct Seeded Rice & Crop Diversification Programme.

Gobar-Dhan Scheme (Galvanizing Organic Bio-Agro Resources).

National Livestock Mission.



Carry Trade

Why in News?

The yen carry trade has garnered attention recently due to the sell-off in shares of US technology giants.

About Carry Trade

Definition: A carry trade is an investment strategy primarily associated with foreign currency trading.

Mechanism:

Investors borrow in a low interest-rate currency.

They use the borrowed funds to buy a currency or asset that earns a higher interest rate.

Risks: It is a high-risk strategy due to potential volatility in currencies and changes in interest rates.

Key Highlights

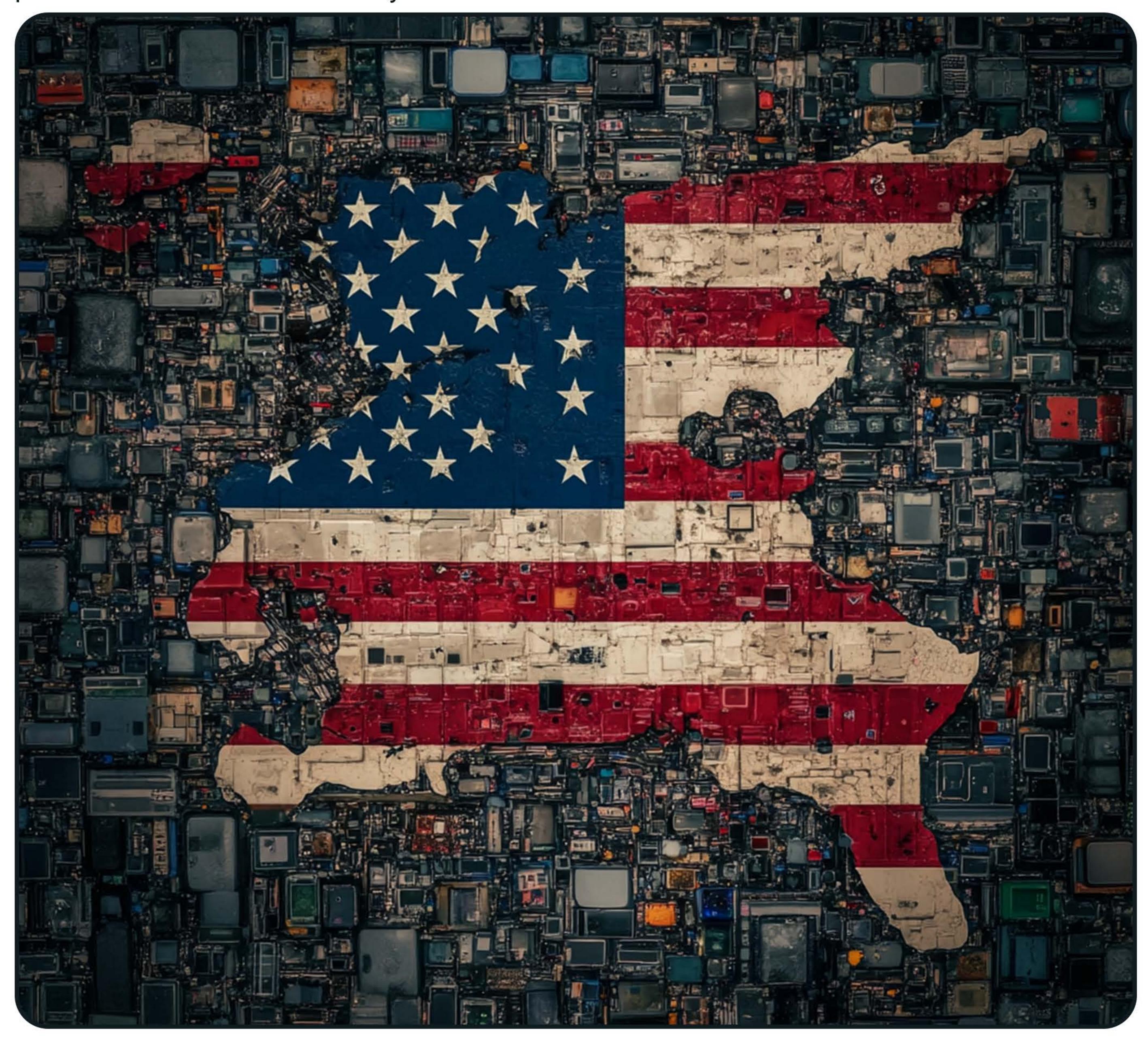
- Borrowing Currency: Typically involves low interest-rate currencies like the Japanese yen.
- Investment Target: Higher interest rate currencies or assets, offering better returns.
- Market Impact: Fluctuations in interest rates or currency values can lead to significant gains or losses.

Implications

- Investor Strategy: Investors need to carefully manage risks associated with currency volatility.
- Market Volatility: Changes in global economic conditions can impact the effectiveness of carry trades.



- Monitoring Economic Indicators: Keep an eye on global interest rate trends and currency movements.
- Risk Management: Employ strategies to mitigate potential losses due to market fluctuations.
- This strategy continues to be a significant topic in the financial markets, especially during periods of economic uncertainty.



Role of Technology in DMRR

Why in News?

Advancements in geospatial technology, AI, Machine Learning, and IoT are being increasingly utilized in Disaster Management and Risk Reduction (DMRR).

Use of Technologies in DMRR

Disaster Prediction and Early Warning Systems:

Technologies: Remote sensing, ML, GIS, drones.

Application: Collecting and processing data.

Example: Google Disaster Alerts.

Event Simulation:

Objective: To prepare and train people.

Technologies: Augmented Reality (AR), Virtual Reality (VR).

Example: Mobile Learning Hub Philippines.

Disaster Detection:

Source: Social media platforms as crucial information and communication tools.

Example: Earthquake detection through social media analysis.

Search and Rescue:

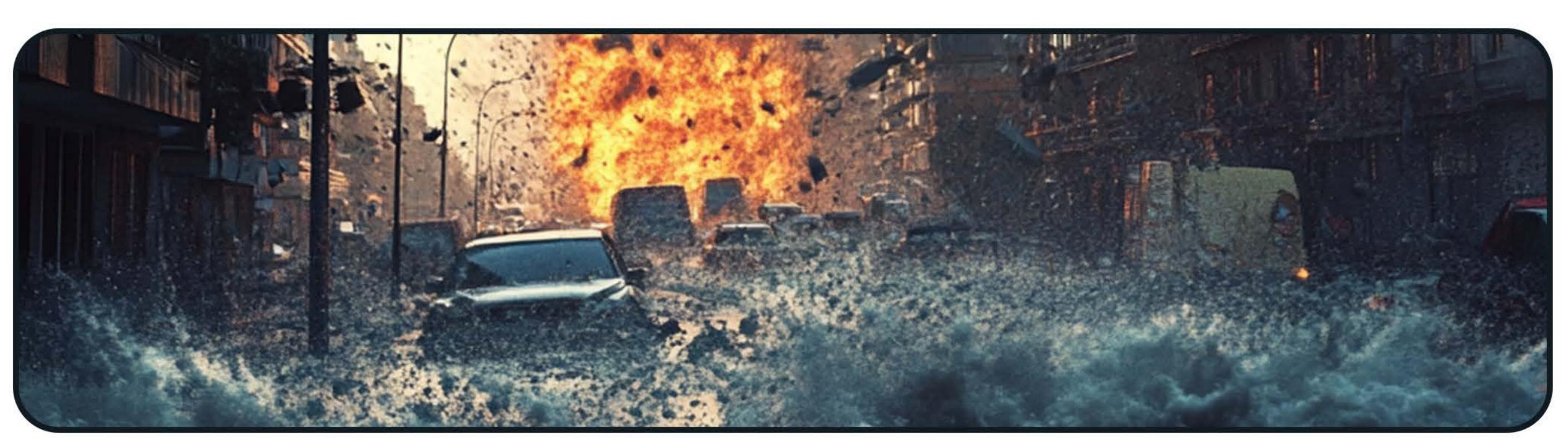
Methods: Identifying people in critical need through satellite imagery or social media posts.

Technologies: Drones for delivery of medical supplies and aid.

Emergency Communication:

Tools: Al-powered chatbots for managing and communicating with the public during disasters.

Example: COVID-19 chatbots launched by WHO.



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Challenges in Use of Technology

- Digital divide.
- Biased Al.
- High implementation costs.
- Security breaches.

Steps Taken

Forecasting Natural Disasters:

By: ISRO.

Example: Flood Early Warning System in Assam.

INSAT-3D Satellite:

Purpose: Aid in search and rescue operations.

GEMINI Device:

Developed by: INCOIS.

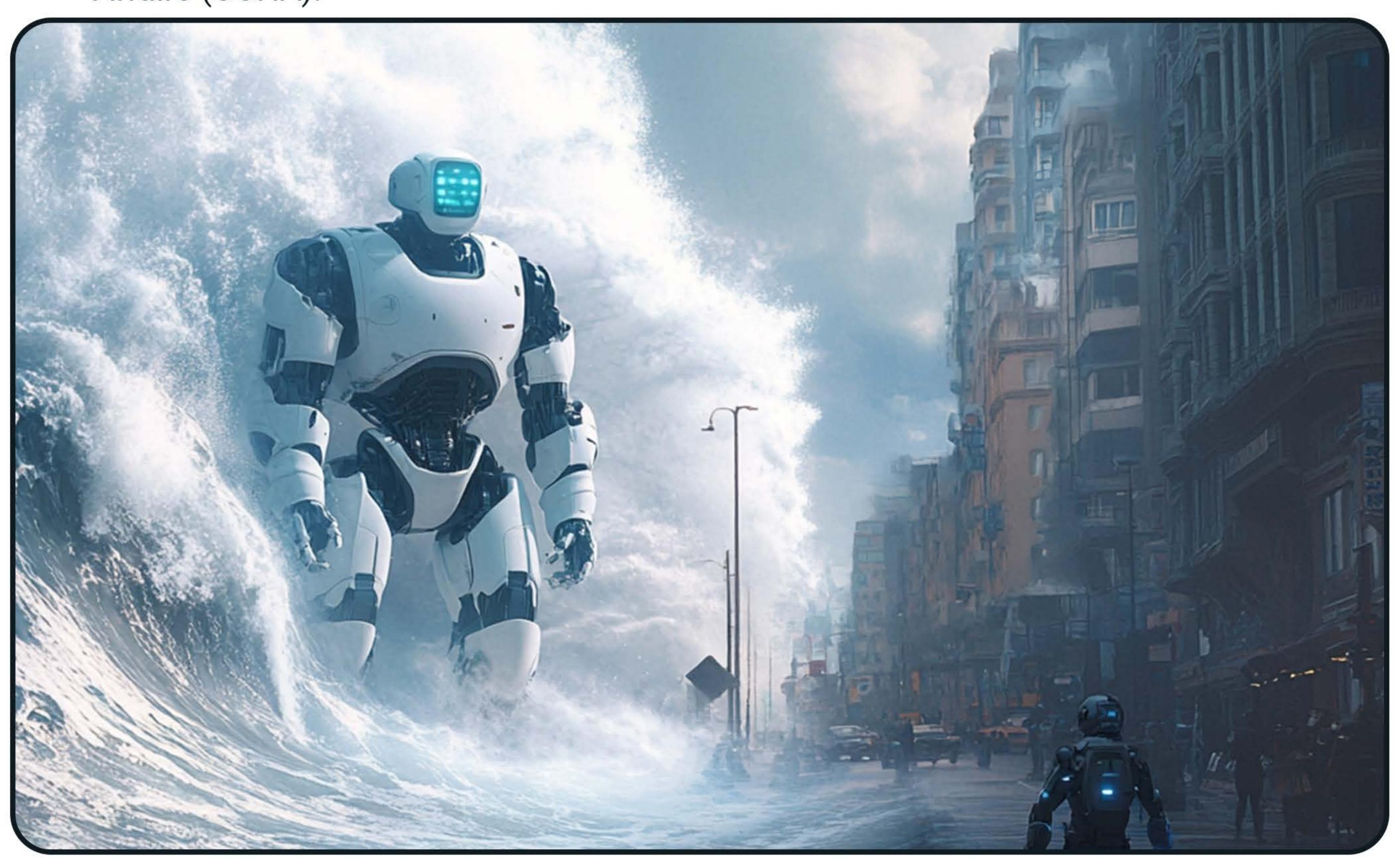
Use: Disaster warnings for fishermen in the ocean.

SATARK Web-Based Platform:

Developed by: Odisha State Disaster Mitigation Authority.

Connecting Business Initiative (CBi):

Joint initiative of: UNDP and United Nations Office for the Coordination of Humanitarian Affairs (OCHA).



Oilfields (Regulation and Development) Amendment Bill, 2024

Why in News?

The Oilfields (Regulation and Development) Amendment Bill, 2024 has been introduced in the Rajya Sabha to amend the existing Oilfields (Regulation and Development) Act, 1948.

Background

- Original Act: Initially, the regulation of oilfields, mines, and minerals was governed by the Mines and Minerals (Regulation and Development) Act, 1948.
- 1957 Amendment: The Mines and Minerals (Development and Regulation) Act was established to separately handle the development and regulation of mines and minerals.

Key Features of the Bill

- Expanded Definition: Broadens the scope of "mineral oils" to include naturally occurring hydrocarbons such as crude oil, natural gas, petroleum, condensate, coal bed methane, oil shale, and shale gas.
- Petroleum Lease: Introduces the concept of "petroleum lease" for activities related to prospecting, exploration, development, and production of mineral oils.
- Separation of Operations: Delinks petroleum operations from mining operations.
- Dispute Resolution and Decriminalization: Provides for efficient dispute resolution mechanisms and decriminalizes certain provisions of the Act.

Significance of the Amendment

- Energy Access and Security: Aims to enhance energy access, security, and affordability.
- Reduced Import Dependence: Seeks to increase domestic oil and gas production, reducing reliance on imports.
- Investment and Innovation: Attracts investment in the sector, promoting ease of business and technological advancements.
- Energy Transition: Supports the transition to cleaner fuels and energy sources.
- Compliance Enforcement: Establishes a robust enforcement mechanism for ensuring compliance with regulations.

QCI Surajya Recognition & Ranking Framework

Why in News?

The Quality Council of India (QCI) has introduced the QCI Surajya Recognition & Ranking Framework to acknowledge and reward excellence in quality and innovation across various sectors in India.

About the Framework

Objective: To recognize and reward states and organizations that excel in quality and innovation, contributing towards the goal of a Developed (Viksit) India.

Pillars

Shiksha (Education)

Swasthya (Health)

Samriddhi (Prosperity)

Sushasan (Governance)

About QCI

- Establishment: Founded in 1996 as the national accreditation body under the Societies Registration Act, 1860.
- Origin: Established jointly by the Government of India and Indian Industry (ASSOCHAM, FICCI, CII), based on the recommendations of the Expert Mission of the European Union.
- Nodal Department: Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry.
- Governing Council: Consists of 39 members including the Chairperson and Secretary General, with equal representation from Government, Industry, and other stakeholders. The Chairperson is appointed by the Prime Minister.





Role of QCI

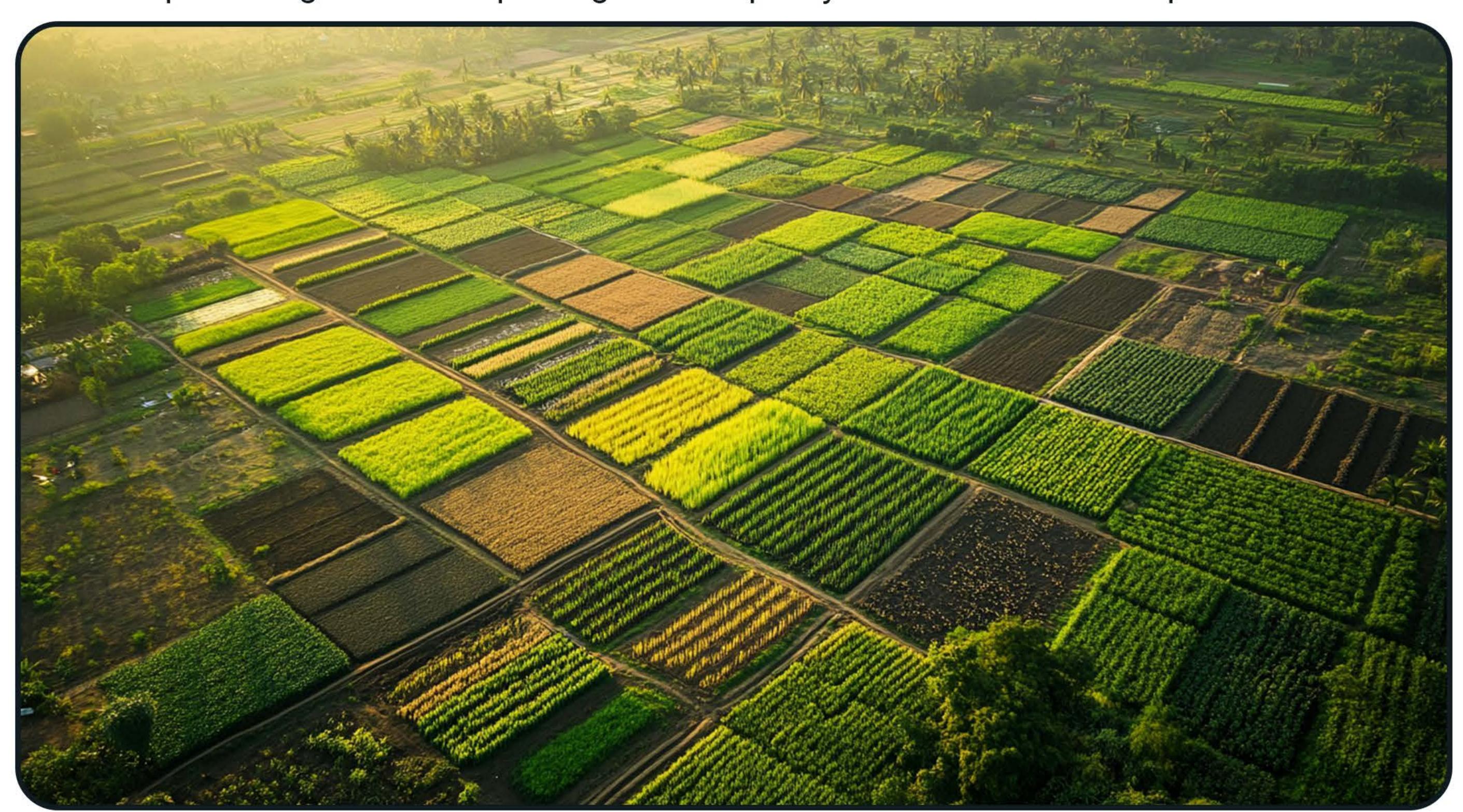
- National Accreditation Body (NAB): Promotes quality through the National Quality Campaign aligned with global standards.
- Assessment Mechanism: Provides third-party assessment for products, services, and processes.
- Quality Improvement: Aims to enhance the quality of life and wellbeing of Indian citizens.

Achievements

- Healthcare: Collaborated with ICMR to expand COVID-19 testing labs. Implemented ABPMJAY quality certification and Kayakalp Certification for healthcare facilities.
- Sanitation: Certified Urban Local Bodies (ULBs) as ODF, ODF+, and ODF++.
- Education: Launched eQuest: E-Quality Platform for skill development and employability.
- Agriculture: Developed standards and certification schemes for Good Agriculture Practices (GAP) in SAARC countries, in collaboration with FAO.

Way Forward

- Implementation: Expand the framework's application to more states and sectors to further enhance quality and innovation.
- Monitoring and Evaluation: Regularly assess the impact of the framework on achieving developmental goals and improving service quality across the identified pillars.



Tropospheric Ozone Pollution

Why in News?

A report highlights the increasing levels of Ground-level Ozone (GLO) pollution across India's major cities, with Delhi being the most affected.

Key Findings on Ground-level Ozone (GLO)

- Exceeding Standards: India's 10 metropolitan areas have exceeded the national ozone standard.
- Hotspots: GLO hotspots are in areas with low levels of NO2 and PM2.5, as the unavailability of NO2 hampers its dissipation.
- Persistent Night-time GLO: Night-time GLO continues to persist in all metropolitan areas.

About Ground-level Ozone (GLO)

- Definition: Ozone (O3) is a variant of oxygen composed of three oxygen atoms. It occurs both in the Earth's upper atmosphere and at ground level.
- Formation: GLO is a secondary, short-lived pollutant formed by the reaction between oxides of nitrogen and volatile organic compounds (VOCs) in the presence of sunlight. Peak 03 levels occur in summers.
- Sources: Pollution from cars, power plants, industries, and electronic equipment like photocopiers.

Impact of Ground-level Ozone (GLO)

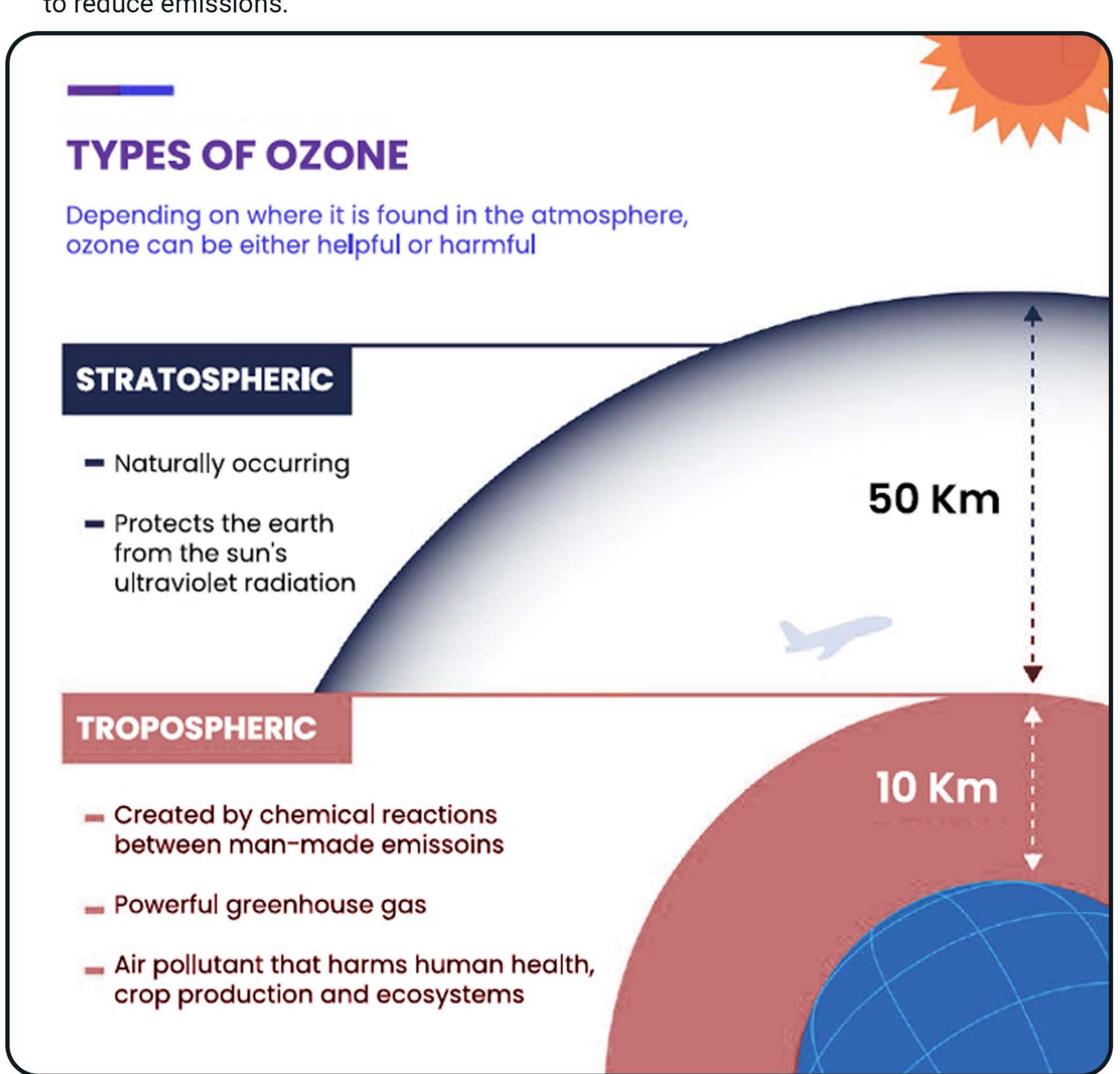
- Health: Worsens bronchitis, triggers asthma, and permanently damages lung tissue.
- Climate: Absorbs radiation and acts as a strong greenhouse gas.
- Agriculture and Ecosystem: Interferes with photosynthesis and stunts the overall growth of some plant species.



Strategies to Prevent Ozone Pollution

- Methane Reductions: Reducing methane emissions.
- **Cutting Pollution Levels:** Decreasing atmospheric pollution from cars, power plants, and other sources.

- Policy Implementation: Enforce stricter regulations on emissions from vehicles and industries.
- Public Awareness: Increase awareness about the sources and impacts of GLO pollution.
- Technological Innovations: Invest in cleaner technologies and alternative energy sources to reduce emissions.



Namami Gange Mission 2.0

Why in News?

- Four projects under Namami Gange Mission 2.0 have been operationalized in Bihar and Uttar Pradesh.
- These initiatives aim to enhance sewage treatment capacity by 145 MLD, improve sewer networks, and intercept various drains.

Key Highlights of Namami Gange Mission 2.0

Background

Namami Gange Programme, launched in 2014, is an Integrated Conservation Mission extended up to 31st March 2026 as NGM 2.0.

Objective

Focused on the effective abatement of pollution and rejuvenation of the River Ganga.

Main Pillars

Sewage Treatment: Increase in sewage treatment capacity and infrastructure.

River-Front Development: Enhancing riverfronts for better public access and environmental quality.

River Surface Cleaning: Regular removal of debris from the river's surface.

Afforestation: Increasing green cover to improve the river's ecosystem.

Biodiversity: Conservation of aquatic and terrestrial biodiversity along the Ganga.

Public Awareness: Engaging communities in the conservation effort.

Effluent Management: Regulation and treatment of industrial effluents.

Ganga Gram: Development of model villages along the Ganga.

Implementation Agency

National Mission for Clean Ganga (NMCG): Primary body under the Ministry of Jal Shakti, responsible for execution, registered under the Societies Registration Act, 1860.



Achievements

- Projects: 457 projects undertaken, 280 completed and operational as of February 2024.
- Local Engagement: Formation of 139 District Ganga Committees chaired by District Magistrates.
- Industrial Treatment: Sanction of Common Effluent Treatment Plants (CETPs) for managing industrial pollution.

- Continued focus on expanding sewage treatment capacity and infrastructure.
- Strengthening local and community-based conservation efforts.
- Ensuring the sustainability of the river's ecosystem through ongoing and new initiatives under NGM 2.0.



PIEKUSUK

Why in News?

The Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM) has only achieved 30% of its targets, raising concerns about meeting the 2026 deadline for the scheme.

Key Findings

- Component Performance: Most progress has been made under Component B, while Components A and C have seen minimal implementation.
- Solar-Powered Pumps: Farmers benefit from solar-powered pumps for daytime irrigation, but the availability of cheap electricity reduces the incentive to switch from electric to solar pumps.
- Regional Variability: In regions like Haryana, the availability of certain pump capacities (e.g., 5 hp and 7.5 hp surface pumps) is limited.

Recommendations

- Decentralized Implementation: Implementing agencies with local knowledge should be engaged to better address the specific needs of farmers.
- Financial Viability: Allow farmers to pay upfront costs in installments to enhance financial feasibility.
- Increased Central Assistance: Adjust financial support based on state needs and solar module prices.



Way Forward

- Enhanced Focus: Intensify efforts on Components A and C to achieve balanced progress across all scheme components.
- Policy Adjustments: Implement recommendations to improve the scheme's financial viability and regional implementation.



About PM-KUSUM

Launched: 2019

Objectives:

De-dieselize the farm sector

Ensure water and energy security for farmers

Increase farmer income

Reduce environmental pollution

- Target: Add 34.8 GW of solar capacity by March 2026
- Nodal Ministry: Ministry of New and Renewable Energy
- Components

Component A: Installation of 10,000 MW of solar capacity through small solar power plants (up to 2 MW each).

Component B: Installation of 1.4 million standalone solar-powered agriculture pumps.

Component C: Solarization of 3.5 million grid-connected agriculture pumps.



Waqf (Amendment) Bill, 2024

Why in News?

- The Centre has introduced the Waqf (Amendment) Bill, 2024 in Parliament, aiming to amend the Waqf Act, 1995.
- The term "Waqf" has been redefined as "Unified Waqf Management, Empowerment, Efficiency, and Development."

Key Features of the Bill

- Waqf Database: A database of waqf properties must be registered on a portal within six months of the Act's commencement.
- Definition of Waqf: Waqf is defined as property dedicated by any person practicing Islam for at least five years, with ownership of such property.
- Inclusive Representation: Ensures women's and non-Muslim representation on the Central Waqf Council and state boards.
- Audit Powers: The Central Government can direct the audit of any waqf property at any time by an auditor appointed by the Comptroller and Auditor-General of India or another designated officer.
- Dispute Resolution: The District Collector will decide if a disputed property is waqf or government land.

Objectives of the Bill

- To effectively address issues related to the powers of State Waqf Boards, and the registration and survey of waqf properties.
- To enhance the efficiency of the administration and management of waqf properties.

About Waqf Properties

- Definition: Moveable or immovable properties dedicated in the name of God for charitable purposes by a deed or an instrument.
- Management: Managed by a legal entity with nominated members known as the Waqf board.
- Oversight: The Central Waqf Council (CWC), a statutory body established in 1964, oversees and advises state-level Waqf Boards across India.



- Implement the Bill to streamline waqf management.
- Ensure transparency and accountability in the administration of waqf properties.
- Enhance representation and inclusivity within Waqf Boards.



Government Review of Dam Designs for GLOF Vulnerability

Why in News?

- The Ministry of Power has identified 47 dams (38 commissioned and nine under construction) that may be affected by Glacial Lake Outburst Floods (GLOFs).
- In response to the Teesta-III dam collapse last year, the Central Water Commission (CWC) will review the design flood for these dams to assess their vulnerability to GLOFs.

About Glacial Lake Outburst Flooding (GLOFs)

Definition: GLOFs occur when glacial lakes breach their boundaries, causing massive amounts of water to flood nearby streams and rivers.

Causes:

Geological: Earthquakes, moraine dam breaches.

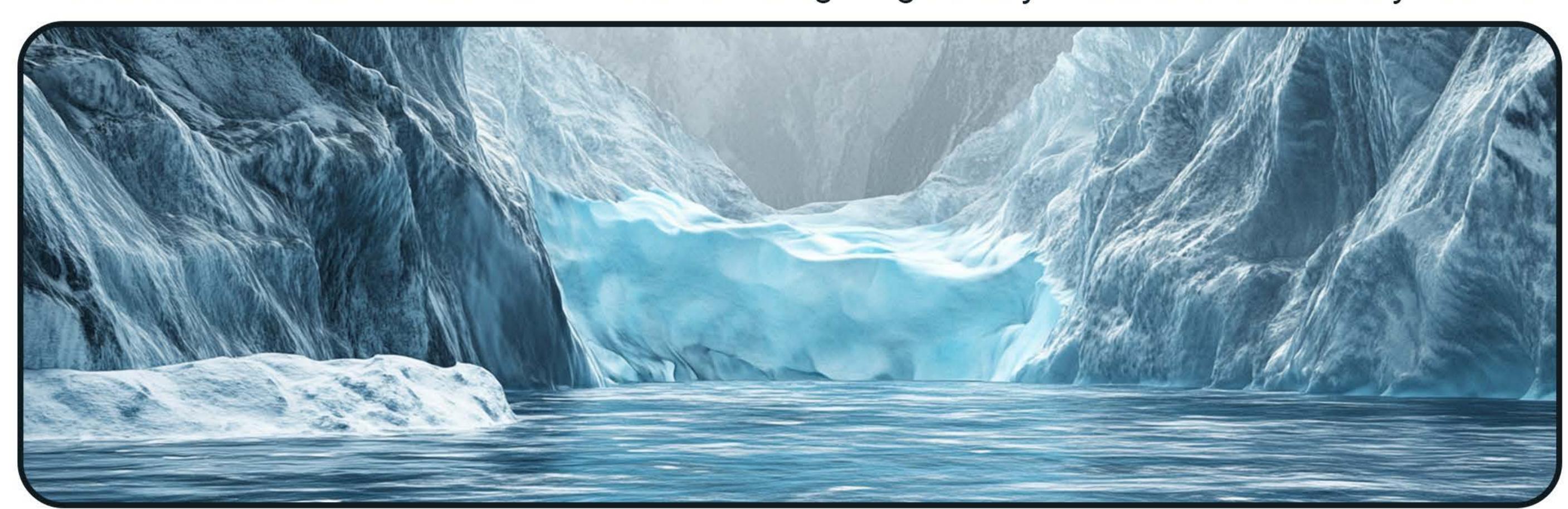
Morphological: Mass movements into glacial lakes, water seepage through glacial structures.

Physical: Excessive precipitation, cryoseism (non-tectonic seismic events in glaciers).

Anthropogenic: Climate change and global warming.

Challenges of GLOFs

- Unpredictability: GLOFs can occur suddenly with minimal warning.
- lmpact on Lives: For instance, the 2013 Kedarnath valley lake outburst resulted in approximately 6,000 deaths.
- Remote Locations: Areas like Chamoli's Rishighanga valley have been affected by GLOFs.



Strategies to Manage GLOF Risks

- Hazard Risk Zonation and Mapping: Identifying and mapping areas at risk from GLOFs.
- Technology Monitoring: Using technology to monitor glacial lakes.
- Regulation of Construction: Implementing restrictions and regulations on construction in hazard-prone areas.

- Design Reviews: Assess and update dam designs to ensure they can withstand potential GLOF scenarios.
- Enhanced Monitoring: Strengthen monitoring systems for early detection of GLOFs.
- Improved Regulations: Develop and enforce stricter regulations for construction in areas vulnerable to GLOFs.



Boilers Bill, 2024

Why in News?

The Boilers Bill, 2024 has been introduced in the Rajya Sabha to repeal the Boilers Act, 1923, aiming to modernize and update regulations pertaining to boilers.

Key Features of the Bill

- Repeal and Replacement: The bill will repeal the Boilers Act, 1923, and introduce new provisions for regulating boilers.
- Competent Authority: Defines a "competent authority" responsible for granting certificates to welders for boiler and component welding.
- Penalties for Unauthorized Work: Imposes penalties, including imprisonment up to two years or a fine up to one lakh rupees, for unauthorized structural alterations to boilers.
- Regulatory Authority: Establishes the Central Boilers Board to oversee the design, manufacture, erection, and use of boilers.
- Government Powers: Grants the Central Government authority to address any difficulties in implementing the new provisions within three years from the Act's commencement.

Objective of the Bill

- Safety and Uniformity: Aims to regulate the manufacture and use of boilers to ensure safety from explosions, prevent the use of unregistered and uncertified boilers, and standardize registration and inspection processes.
- Accident Reporting: Mandates reporting of boiler-related accidents.

Importance of Industrial Boilers

Functionality: Boilers handle burning of large quantities of fuel, operate at high temperatures and pressures, and manage high-energy steam, making their safe operation critical.

Way Forward

- lmplementation: Ensure smooth transition from the Boilers Act, 1923 to the new regulatory framework under the Boilers Bill, 2024.
- Regulatory Setup: Establish and empower the Central Boilers Board for effective regulation and oversight.
- Compliance and Enforcement: Develop mechanisms for enforcement of new regulations and penalties to maintain safety standards in boiler operations.

Banking Laws (Amendment) Bill, 2024

Why in News?

The Banking Laws (Amendment) Bill, 2024, has been introduced in the Lok Sabha to address the evolving needs of the banking sector and improve bank governance.

Key Provisions of the Bill

- lncreased Nominees: Allows depositors to nominate up to four individuals simultaneously, with specified proportions of their shares, and successively.
- Successive Nomination: Establishes a process for contacting nominees in the listed order for claiming funds.
- Investor Education and Protection Fund (IEPF):

Transfers unclaimed dividends, shares, and interest or bond redemptions to the IEPF if unclaimed for seven consecutive years.

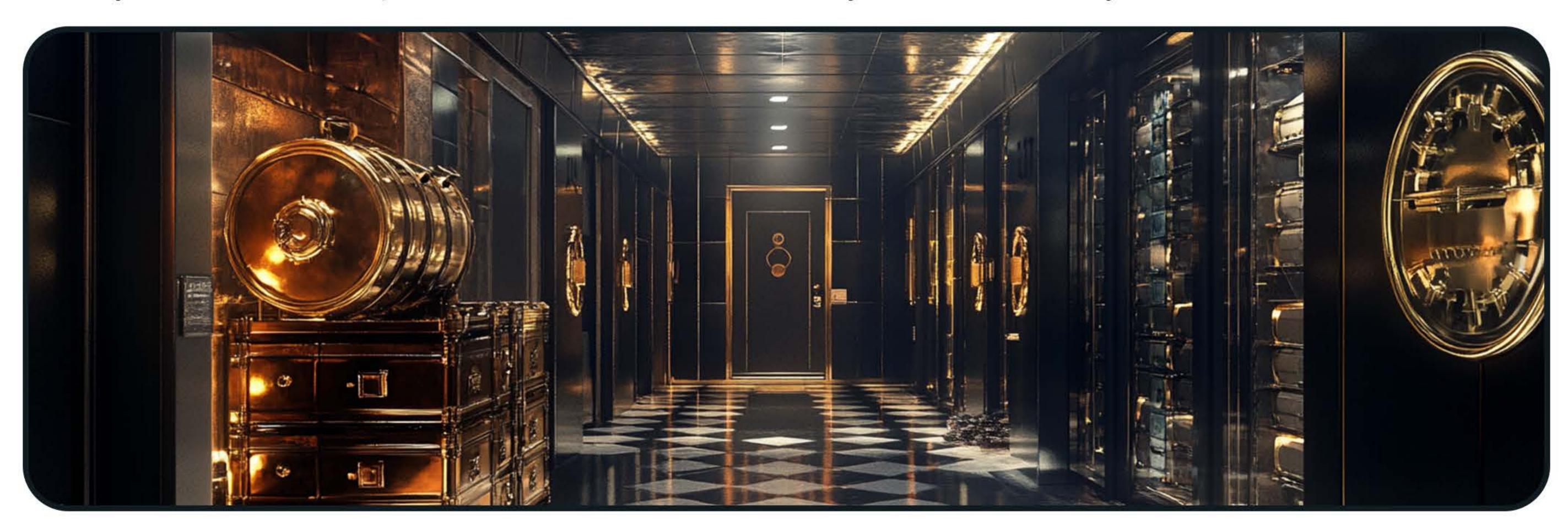
Individuals can claim transfers or refunds from the IEPF.

- Threshold for Directorships: Increases the threshold for substantial interest in shareholding from ₹5 lakh to ₹2 crore for directorship eligibility.
- Cooperative Banks: Extends the tenure of directors in cooperative banks from 8 years to 10 years.

Significance

- Consistency in Reporting: Enhances consistency in reporting to the RBI.
- Reduction of Unclaimed Deposits: Aims to reduce unclaimed deposits, which were over ₹42,000 crore as of March 2023, by increasing the number of nominees.

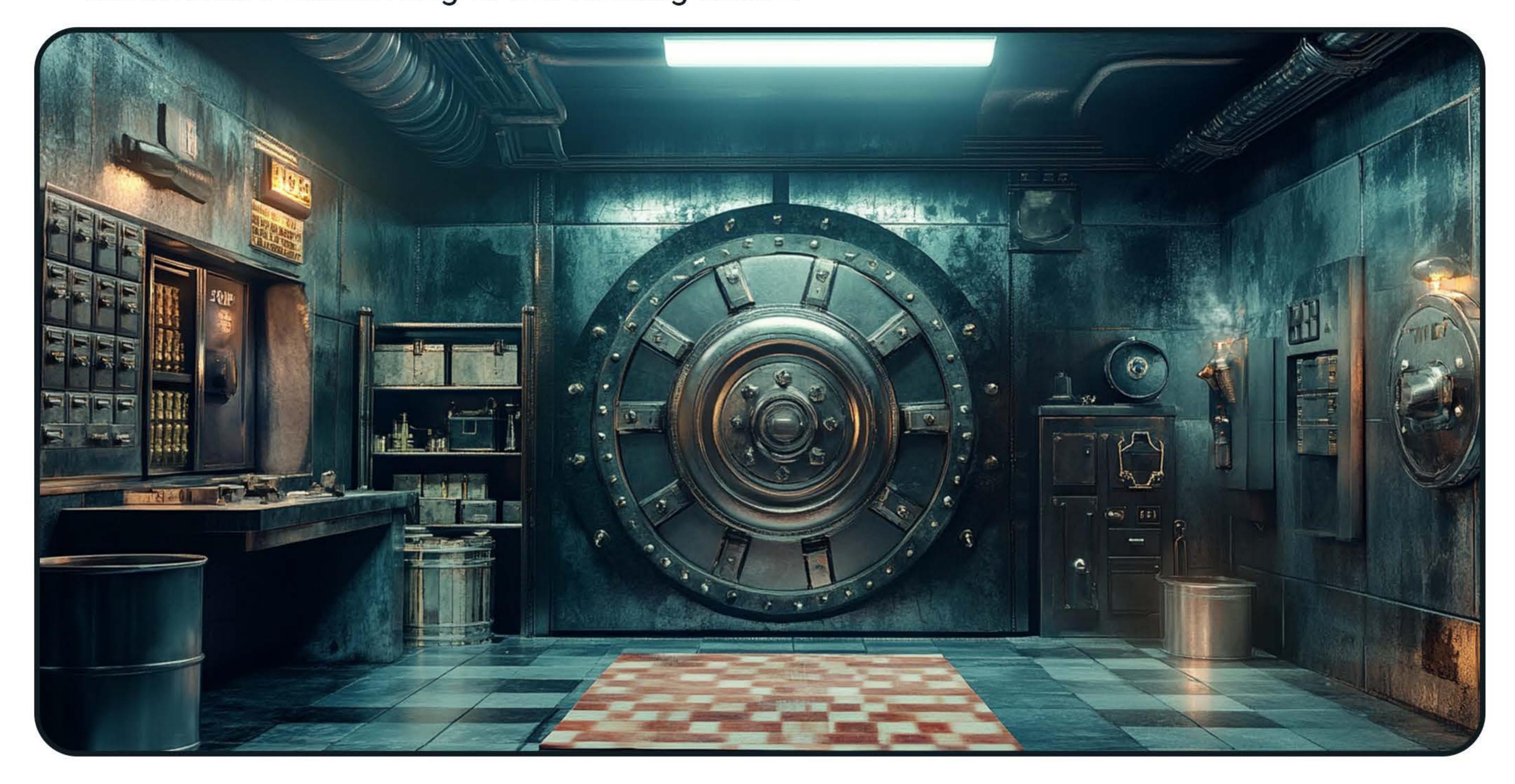
Unclaimed Deposits: Include savings/current account balances not operated for 10 years or term deposits not claimed within 10 years of maturity.



Investor Education and Protection Fund (IEPF)

- Establishment: Created under the Companies Act, 1956, via the Companies (Amendment) Act, 1999.
- Objective: To promote investor awareness and protect investor interests.
- Administration: Managed by the Investor Education and Protection Fund Authority (IEPFA) under the Ministry of Corporate Affairs.

- Implementation: Ensure effective implementation of the new provisions to enhance governance and protect depositor interests.
- Education and Awareness: Promote awareness about the IEPF and the changes in nomination provisions to prevent unclaimed deposits.
- Regulatory Adjustments: Monitor and adjust regulatory frameworks as needed to ensure the effective functioning of the banking sector.



Grain ATM

Why in News?

The World Food Programme (WFP) and the Government of Odisha have jointly launched India's first 24/7 'Grain ATM' called 'Annapurti' in Bhubaneswar.

Key Highlights

Annapurti

Made-in-India: Designed and developed by WFP India.

Functionality: Dispenses food grains (wheat, rice, or millet) to beneficiaries 24/7 under the National Food Security Act (NFSA) after biometric authentication.

Efficiency: Reduces waiting time by 70% while ensuring universal access to food grains, with energy-efficient, solar-powered refilling.

Recognition: Recognized as one of WFP's top 5 innovative solutions for disrupting hunger at the 2022 WFP Innovation Awards.

National Food Security Act (NFSA)

Coverage: Covers up to 75% of the rural and 50% of the urban population.

Entitlement: Provides access to subsidized food grains.

Way Forward

- Expansion: Consider expanding the 'Grain ATM' initiative across other states to ensure food security and reduce hunger.
- Efficiency: Enhance the efficiency and accessibility of public distribution systems through innovative technologies like Annapurti.

About UN World Food Programme (WFP)

- Established: In 1961 by the United Nations to alleviate world hunger.
- Scale: The world's largest humanitarian organization providing food assistance in emergencies.
- Recognition: Awarded the Nobel Peace Prize in 2020 for its efforts to combat hunger.





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