

CURRENT PULSE



FEBRUARY 2026

ESSENTIAL, THAT
WILL BOOST YOUR
PREPARATION

CHANAKYA IAS ACADEMY
SECTOR 25 CHANDIGARH

WE HAVE COMPILED THIS MAGZINE FROM ONLINE SITES AND NEWSPAPERS

NSO to conduct Survey on Migration across India



Survey to be conducted during July 2026 to June 2027 would capture detailed information on extent/nature of migration, rural–urban and inter-state movement, key reasons, etc.

Recent Trends on Migration in India

- **Overall migration rate** stood at **28.8%** with sharp gender differences in patterns (Periodic Labour Force Survey (PLFS) 2020-21).
- Migration rate was estimated at **10.7% among males** and **47.9% among females**.

Key Reasons for Migration

- **Gender Specific:** **Marriage** accounted for the predominant cause among **females (86.8%)** while **employment (labour market opportunities)** accounted for the major reason among **males (22.8%)**.
- **Pull Factor:** Driven primarily by the presence of job opportunities and the prospect of a better life. E.g., Case of **Rural-to-Urban Migration**.
 - Nearly **one in four rural Indians (26.8%)** was a migrant in 2020-21. (Economic Survey 2025-26).
- **Push Factors:** Person tend to leave their **native place due to lack of job opportunities**, low wages or salaries, unfavourable environmental conditions and natural calamities, etc.



Key Measures to taken to address challenges

- **Rural Development Initiatives:** Deendayal Antyodaya Yojana – National Rural Livelihoods Mission (DAY-NRLM); Viksit Bharat- Guarantee for Rozgar and Ajeevika Mission (Gramin) Act, 2025 strengthening rural employment, etc.
- **Urban Resilience Initiatives:** Atal Mission for Rejuvenation and Urban Transformation (AMRUT); Smart Cities; Implementation of Transit-oriented Development (ToD), etc.
- **Workers' Welfare:** Key Schemes like Pradhan Mantri Shram Yogi Maan-Dhan Yojana (PMSYM); Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY); One Nation One Ration Card (ONORC) scheme for robust safety net for migrants, etc.

SC objects to WhatsApp's 2021 privacy policy



SC was hearing appeals by Meta Platforms & WhatsApp against the NCLAT's decision upholding Competition Commission of India (CCI)'s ₹213.14 crore penalty over WhatsApp's 2021 privacy policy.

What is WhatsApp's 2021 privacy policy?

- The policy allows WhatsApp to share users' data with Facebook and all its group companies for the purposes of commercial advertising and marketing.
- **Take-it-or-Leave-it framework:** Under the policy, WhatsApp users have **two options:** Agree to share their personal information with Facebook or delete their WhatsApp accounts.

Issues observed in WhatsApp's 2021 privacy policy

- **Commercial exploitation of personal data:** SC noted that personal data is used to analyze behavioral trends, which Meta then leverages for a **dominant advantage in online advertising on other platforms like YouTube or email.**
- **Abuse of dominant position:** Policy abused its dominant market position by imposing unfair conditions and discriminating against those who did not accept data sharing.
- **Erosion of privacy by Data sharing:** By significantly expanding **internal sharing of personal data with Facebook** and related companies for advertising and business purposes.
- **Lack of Clarity:** SC emphasized that the policy's complex/vague language is unintelligible to common/poor citizens.

Steps taken in India for data protection

- **Digital Personal Data Protection (DPDP) Act, 2023:** To provide for processing of digital personal data in a manner that recognizes both the right of individuals to protect their personal data and the need to process such personal data for lawful purposes.
 - SC pointed out **DPDP Act, 2023** does not contain provisions for "**rent sharing**" i.e. issue of value put on data shared by users to companies.
- **Judicial Oversight:** Supreme Court's Puttaswamy judgment (2017) recognized the right to privacy as a fundamental right under Article 21.
- **Justice B.N. Srikrishna Committee (2017):** Examined data protection issues and recommended a comprehensive law for data protection.

MPLADS

Recently, a controversy broke out over the use of MPLADS funds.



- According to critics, MPLADS funds are **inefficiently utilized, diverted and poorly monitored** and the scheme should be discontinued.

About MPLADS

- **Type:** Central Sector Scheme launched in **1993**.
- **Ministry:** Ministry of Statistics and Programme Implementation is responsible for prescribing guidelines for implementation.
- **Objective:** To enable the Members of Parliament to recommend works for creation of durable community assets like drinking water, sanitation, etc. based on locally felt needs.
- **Implementing Agency:** Govt. departments, trusts, and cooperatives selected by Implementing District Authority (IDA) to execute MPLADS work.
- **Funds Allocation:** Each MP is entitled to ₹5 crore per annum
 - **Lok Sabha MPs** can recommend works in their Lok Sabha constituencies.
 - **Rajya Sabha MPs** can recommend works within the state of election.
 - **Nominated members** can recommend works anywhere in the country.
- **Special provisions for fund allocation to SC/ST Population**
 - **MPs** shall recommend at least **15% of MPLADS funds** for SC-inhabited areas and 7.5% for ST-inhabited areas every year.
 - **If LS constituency has fewer tribals:** Then MPLAD fund may be utilized in areas predominantly inhabited by Scheduled Castes and vice-versa.
- **Non-lapsable fund:** The funds not released in a particular year are carried forward for release in the subsequent years.
- **Exceptions:** MPs can recommend 25 lakh/year outside their region. In a calamity, MPs can recommend up to 1 crore for the affected district.

Governor's Address

In recent times, many State Governors have walked out of the State Assemblies without completely reading the Governor's address prepared by the State Cabinet.



About Governor's Address to State Legislature

- **Article 176:** At the commencement of the **first session after each general election** to the Legislative Assembly and at the commencement of the **first session of each year**, the Governor shall address -
 - the Legislative Assembly or,
 - in the case of a State having a Legislative Council, both Houses assembled together and inform the Legislature of the causes of its summons.
- **Nature of address:** Reflects the policies and legislative agenda of the elected government.
- **Judicial interpretation:** Supreme Court held that the Governor's address is an executive act performed on the aid and advice of the Council of Ministers. (**Nabam Rebia v. Deputy Speaker (2016)**).

Ad hoc judges

Supreme Court Collegium has cleared 5 ex-judges in ad hoc role for Allahabad High Court.



About Ad hoc Judges

- **Article 224A** empowers the **Chief Justice of a High Court** to request a **retired judge of any High Court** to sit and act as a judge, with the **prior consent of the President of India**.
- **Appointment is temporary**: The person serves only for the period specified and is **not treated as a permanent judge**.
- **Jurisdiction and powers**: Enjoys the same powers, jurisdiction, and privileges as a regular High Court judge while in office.

Motion of Thanks

Protests in Lok Sabha prevent Prime Minister's reply to the Motion of Thanks.



About Motion of Thanks

- **Article 87 (1)** provides that at the commencement of the **first session after each general election to the Lok Sabha** and at the commencement of the **first session of each year** the President shall address both Houses of Parliament assembled together and inform Parliament of the causes of its summons.
- **Under Rule 17 of the Rules of Procedure and Conduct of Business in Lok Sabha**, discussion on matters referred to in the President's Address takes place on a **Motion of Thanks** moved by a member and seconded by another member.
- **Amendments allowed**: Opposition members may move amendments expressing regret that the Address omitted or inadequately covered certain issues.

UTs with Assembly

Chief Minister of Jammu and Kashmir asks to do away with the model of Union Territories (UTs) with Assembly model from the Constitution.



UTs with Assembly in India

- Currently, there are 3 UTs with the Legislative Assembly – National Capital Territory of Delhi, Puducherry, and Jammu and Kashmir.
- **Constitutional Provisions**
 - **Article 239A** authorizes Parliament to create legislatures/Council of Ministers for UTs.
 - **Government of Union Territories Act, 1963** was enacted under this provision which provides for Legislative Assemblies and Council of Ministers for certain UTs.
 - **Article 239AA (69th Amendment)** provides for Legislative Assembly and Council of Ministers for the NCT of Delhi.

Prakash Singh Judgement

The Supreme Court observed that states were opting for 'acting' and avoiding appointment of regular DGPs with a fixed tenure of two years in violation of Prakash Singh Judgement (2006).



Prakash Singh Judgement (2006)

- **Selection and Tenure of DGP:** The DGP must be chosen from a UPSC panel of senior officers and given a minimum two-year tenure.
- **State Security Commission(SSC):** Every State must establish a SSC to prevent unwarranted political interference in police functioning.
- **Separation of Investigation:** The investigation wing must be separated from law and order duties.
- **Police Establishment Board:** Each State must set up it (headed by DGP) to decide transfers, postings and promotions up to DSP level.
- **Police Complaints Authorities:** To inquire into complaints of serious misconduct, abuse of power and human rights violations by police officers.
- **National Security Commission:** To be established by the Central Government to select and place heads of Central Police Organisations.

Right to Recall

Recently a Member of Parliament in Rajya Sabha floated the idea of introducing 'Right to Recall' in India's parliamentary democracy.



About Right to recall

- It is a form of direct democracy which allows voters to **remove an elected representative before their term ends**.
- **Status:** In India, it is only supported at local level in some states e.g., Chhattisgarh.
 - Many other countries like the US (in some States), UK have provisions for Right to Recall.

Other tools for Direct democracy

While India is a **Representative Democracy**, certain tools allow citizens to exercise power directly.

- **Referendum:** A proposed piece of legislation is referred to the electorate for acceptance or rejection.
- **Initiative:** Citizens can propose a bill to the legislature for enactment.
- **Plebiscite:** Primarily deals with sovereignty, territorial disputes, or political status.

Bonded Labour System



Enacted in February 1976, the **Bonded Labour System (Abolition) Act (BLSA)** marked an important milestone in equality in the Indian society.

Constitutional and Legal Framework against Bonded Labour

- **Constitutional:** Articles 21, 23, and 24 of the Indian Constitution protect against bonded labour.
- **Legal:** The BLSA, 1976 abolishes the system, while Section 143 of the Bhartiya Nyaya Sanhita, 2023 penalizes trafficking and forced labour.

Bonded Labour System (Abolition) Act, 1976

- **Completely abolished** the bonded labour system and declared all forms of bonded labour **illegal**.
- Cancelled all existing bonded debts and mandated **immediate release** and freedom of all bonded labourers.
- **Protection from eviction** of freed bonded labourers from lands they occupied.
- **District-level enforcement** by District Magistrates and Vigilance Committees to identify, release, and rehabilitate bonded labourers.
- **Rehabilitation**, through Central and State-level programmes, offering financial assistance, land, housing, and livelihood support.
- **Rescue operations** through periodic surveys and rescue drives that have identified and released lakhs of bonded labourers over decades.

Why Does Bonded Labour Persist?

- **Persistent poverty**, lack of formal contracts and **weak** regulation in the **informal** sector enable exploitative work.
- **Caste hierarchies** and discrimination mean SC/ST communities are disproportionately affected.
 - Data shows **only ~300,000 freed/rehabilitated since 1978**, indicating gaps in enforcement.
- **Low conviction rates** and a lack of a victim-centric approach fails to act as a deterrent.

Conclusion

- A coordinated strategy combining legal reforms, robust monitoring, rehabilitation support, and social awareness is essential to eradicate bonded labour. Sustained political will and community participation will be the true determinants of lasting change.

Removal of the Lok Sabha Speaker

Recently opposition moved a Resolution for removal against Lok Sabha Speaker Om Birla.



Procedure for removal of LS Speaker

- **Constitutional Provision:**
 - **Article 94** provides for the vacation, resignation and removal of those occupying the offices of Speaker and Deputy Speaker.
 - **According to Article 94(c)**, A member holding office as Speaker or Deputy Speaker of House of the People:
 - May be removed from his office by a resolution of House of People passed by a majority of all then members of the House(94(c)).
- **Procedure for admission of resolution for removal by house of people:**
 - A member wishing to give notice of a resolution for removal of the Speaker or the Deputy Speaker has to do it in **writing to Secretary-General of Lok Sabha**.
 - This resolution must be supported by at least 50 members in the House for admission.
 - But no resolution for removal of such officials can be moved unless **at least fourteen days' notice** has been given of intention to move resolution.
 - After such notice is received, a motion for leave to move resolution is **entered in List of Business** on a day fixed by Speaker.
- **Speaker status during Discussion for his removal:** Cannot preside over the House.
 - However, they have the right to speak, take part in proceedings, and vote in the first instance (but not a casting vote in case of a tie).

History of resolution for removal Against LS speaker

- Past instances include notices against G.V. Mavalankar (1954), Sardar Hukam Singh (1966), and Balram Jakhar (1987).
- None of them lost the Speaker chair **because of the motion**.

Substantive Motion

A MP has submitted a notice to move a substantive motion against the leader of opposition in Lok Sabha.



- **Motion** is a proposal by a **member seeking a decision or opinion of the House.**

About Substantive Motion

- It is a self-contained proposal **moved by a member of the House** to bring forward a specific subject for **discussion and decision.**
- The **conduct of persons in high authority** can only be **discussed on a substantive motion** drawn in proper terms.
- Motions for the impeachment of President, or a no-confidence motion are **examples** of substantive motions.
- A substantive motion against an MP may result in censure (formal disapproval without removal), suspension, or expulsion.

Other Major Motions

- **Subsidiary motions** – Dependent on a substantive motion and **used to regulate debate** (e.g., amendments, adjournment).
- **Substitute Motion:** Motions moved in substitution of **the original motion for taking into consideration a policy or situation.**

Boost for Orange Economy

The Union Finance Minister highlighted the Orange Economy (Creative Economy) in the Union Budget 2026, recognising its role in employment generation, innovation, exports, and soft power.



What is the Orange Economy?

- The term was coined by former Colombian President **Iván Duque Márquez** and **Felipe Buitrago** in their 2013 book “**The Orange Economy: An Infinite Opportunity**”.
- It refers to knowledge-based economic activities **where ideas and creativity are transformed into cultural goods and services**, with their value primarily **determined by intellectual property**.
- Unlike traditional manufacturing-led growth, these sectors derive their primary value from **ideas, artistic expression and cultural capital rather than physical goods**.
- **Sectors Included:** Audiovisual media (film, television), Live Entertainment like Music Concerts, Gaming Industry, Design, Theatre etc.

Key Budget Announcements

- **AVGC (Animation, VFX, Gaming & Comics) Sector:** Support to **Indian Institute of Creative Technologies (IICT), Mumbai** in setting up AVGC Content Creator Labs in 15,000 secondary schools and 500 colleges.
- **Strengthening Design Education:** Establishment of a new **National Institute of Design (NID)** in the eastern region through the challenge route.
 - India currently has seven NIDs, all recognised as institutes of national importance.

Present state of Orange Economy

- Globally, the **creative economy is estimated to generate an annual revenue of more than \$2 trillion and generate nearly 50 million jobs.**
- According to UNCTAD estimates, the creative industries contribute between **0.5% and over 7% of GDP across countries.**
- The size of India's **creative industry is \$30 billion with the employment share: ~8% of India's working population.**

16th Finance Commission



सत्यमेव जयते

16th Finance Commission

16th FC was constituted in 2023 under the chairmanship of Dr. Arvind Panagariya, former Vice- chairman of NITI ayog,

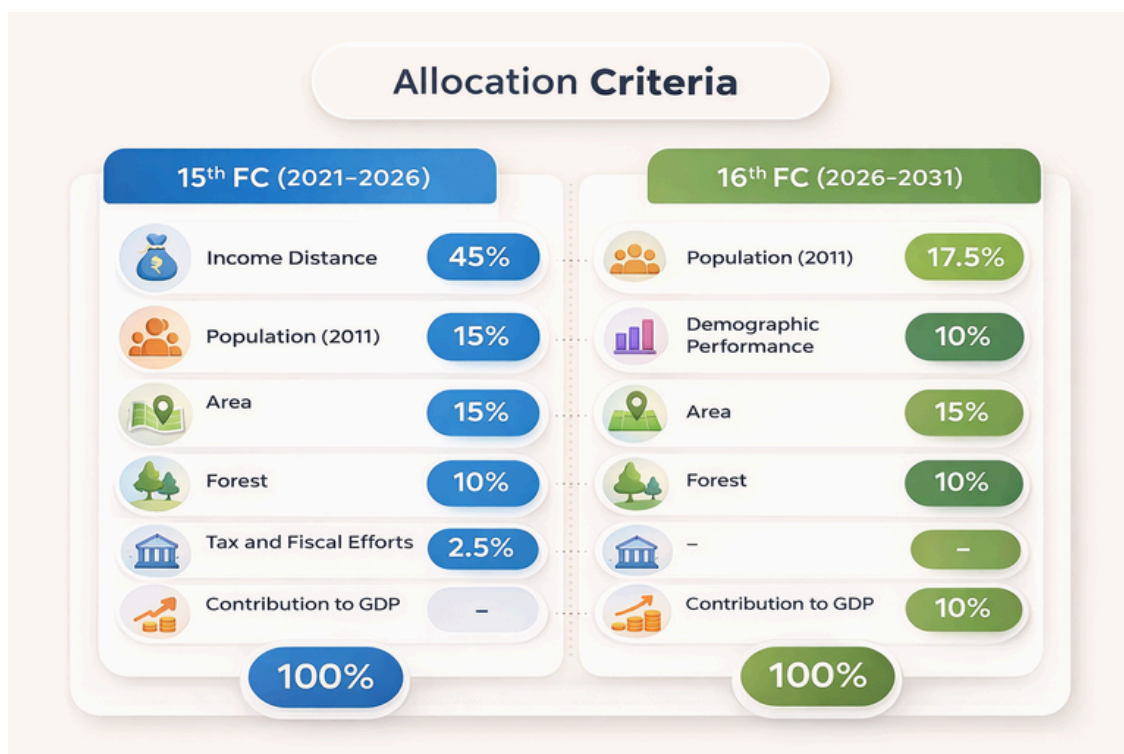
- Its key recommendations have been accepted by the Government for implementation from **2026-27 to 2030-31**

About FC

- It is a **Constitutional body** under **Article 280**, constituted by the President of India every 5 years or earlier.
- **Composition:** Chairman and 4 other members appointed by the president for a term specified by him.
- Under **Article 281**, Government lays the Finance Commission's report and an Action Taken Memorandum before Parliament.

Key recommendation

- **Vertical devolution:** States' share in the divisible pool remains at **41%**, unchanged from the 15th FC.
 - The divisible pool consists of gross tax revenue **excluding the cost of collection, cesses, and surcharges**
- **Horizontal Devolution:** how the 41% is divided among states
 - **Southern States** will see higher devolution due to inclusion of Contribution to GDP as a criteria, reduced weightage to Income distance and area.
- **Path to Macro and Fiscal Stability:** States' fiscal deficit should be capped at 3 % of their respective GSDP (excluding loans under Special Assistance to States for Capital Investment (SASCI) scheme).



Creating Champion MSMEs

It recognises a three-pronged approach to help MSMEs grow as 'Champions' for Viksit Bharat.



Three-pronged approach Includes

- **Equity Support**
 - Dedicated ₹10,000 crore **SME Growth Fund** for incentivizing enterprises based on select criteria.
 - Proposed to top up the **Self-Reliant India Fund** set up in 2021, with ₹2,000 crore to micro enterprises.
- **Liquidity Support**
 - Maximizing the potential of the **TReDS (Trade Receivables Discounting System)** platform through four specific measures:
 - **Mandatory TReDS Use:** All CPSE purchases from MSMEs to be settled via TReDS.
 - **Credit Guarantee Support:** CGTMSE to provide guarantees for invoice discounting on TReDS, reducing lender risk. **GeM-TReDS Integration:** Linking GeM with TReDS to share government purchase data with financiers, enabling faster and cheaper MSME credit.
 - **Secondary Market Development:** Introduction of TReDS receivables as asset-backed securities to boost liquidity.
- **Professional Support (Corporate Mitras)**
 - These **accredited para-professionals** will help MSMEs meet compliance requirements at affordable costs.
 - Professional institutions like ICAI, ICSI, and ICMAI will be facilitated to design short-term, modular courses to train these professionals.

About TReDS (Trade Receivables Discounting System)

- TReDS is an **electronic platform** set up to facilitate MSMEs to unlock working capital by converting their receivables into cash.

About Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE)

- Set up in 2000 by **Ministry of Micro, Small and Medium Enterprises** and SIDBI
- The scheme aims to **provide credit guarantees** for the credit facilities extended to MSEs by the Member Lending Institutions (MLIs), without collateral security or third-party guarantees.

Bharat-VISTAAR for Agricultural

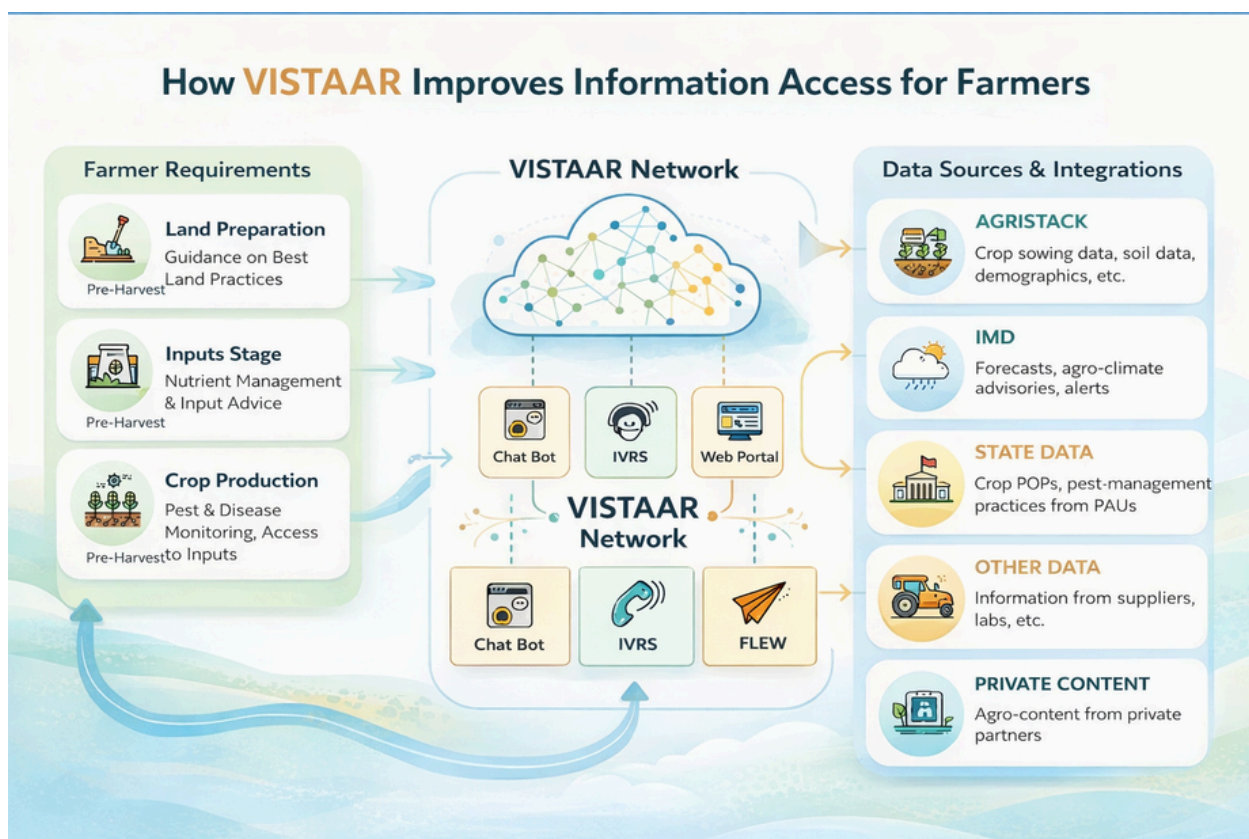
Bharat VISTAAR (Virtually Integrated System to Access Agricultural Resources) will be a multilingual AI (Artificial Intelligence) tool that will integrate the AgriStack portals and the ICAR package on agricultural practices with AI systems.



- AgriStack has been envisaged as a **Digital Public Infrastructure (DPI)** for Agriculture, based on India's **Digital Ecosystem Architecture (InDEA) 2.0**.

About Bharat-VISTAAR

- VISTAAR is an **open, interoperable, and federated public network** dedicated to **agricultural information and advisory services**.
- A decentralized repository, it will facilitate the **discovery & fulfillment of verified agriculture content, best practices, and agri-skilling** across diverse private and public provider platforms.
- **Potential Significance:**
 - Enhancing **farm productivity** through data-driven and timely interventions.
 - Improving **farmer decision-making** at every stage (input, crop production, market etc.) by providing accurate, localized insights, best practices and data services.
 - **Reducing market risks** via customized, crop- and region-specific advisory support.
 - **Supporting Government** in real-time monitoring, improved delivery of agriculture extension services, and targeted intervention.



Dedicated Rare Earth Corridors

Corridors to be developed in Odisha, Kerala, Andhra Pradesh, and Tamil Nadu for mining, processing, research, and manufacturing of Rare Earth Permanent Magnets (REPMs).



What are REPMs?

- They are amongst the **strongest types of permanent magnets** with high magnetic strength and stability.
- **Applications:** Advanced engineering applications such as **electric vehicle motors, wind turbine generators etc.**
- **Significance:** REPM demand is expected to **double by 2030.**

Significance for India

- **Strategic Self-Reliance:** Ensures access to **critical materials** reducing India's heavy dependence on imports, particularly from **China**.
 - India imported **60-80% (value-wise)** and **85-90% (quantity-wise)** REPMs from China (2022-25).
- **Climate Goals:** REPMs support India's **clean-energy transition** and **Net Zero 2070 vision**.
- **National Security:** Ensures reliable domestic supply for **defence equipment** and **precision sensors**, reducing vulnerability to global supply chain disruptions.

Key government Initiatives

- **REPM Manufacturing Scheme:** 7,280 crore Scheme to establish an **integrated domestic REPM manufacturing ecosystem** with **6,000 MTPA capacity**, covering the full value chain from rare-earth oxides to finished magnets.
- **National Critical Minerals Mission (NCMM):** Creation of a long-term, **end-to-end supply chain** for critical minerals including rare earths.
- **MMDR Amendment Act, 2023:** Amendments to the **Mines and Minerals (Development and Regulation) Act, 1957**, providing **Dedicated list of critical and strategic minerals**, **Auction of mineral concessions** etc.



Agricultural Credit Societies

The Government aims to establish new multipurpose PACS/dairy/fisheries cooperatives to cover all panchayats and villages over the next 5 years.



About PACS

- PACS are the **grass-root level institutions** of the **short-term co-operative credit structure** and it acts as a **last-mile link** between borrowers and higher financing institutions such as Scheduled Commercial Banks and RBI/NABARD.
- **Status:** PACS sanctioned: 79,630, New PACS registered: 32,802, PACS digitised: 61,478
- **Regulation:**
 - **Multi State PACS:** Entry 44 of Union List of the Constitution and are centrally administered by **Central Registrar of Cooperative Societies (CRCS)** under provisions of **Multi-State Co-operative Societies Act, 2002**.
 - **Single State PACS:** Entry 32 of State List of the Constitution and are administered by the concerned **State Registrar of Cooperative Societies (RCS)** under respective **State Cooperative Societies Act**.

Potential & Significance of PACS

- **Agriculture:** Enhanced infrastructure and post-harvest support through the **World's Largest Decentralized Grain Storage Plan** (which establishes godowns and custom hiring centres).
- **Dairy Sector:** Enhance milk procurement by **50% over 5 years** through registration of **>21,000 new Dairy Cooperative Societies**.
- **Fisheries sector:** Improve market linkages and value addition through **converting 1,000 fisheries cooperative societies into Fish Farmer Producer Organisations (FFPOs)**.

Initiatives taken for PACS Promotion

- **PACS Computerization Project:** Computerization of PACS under a common ERP-based national software.
- **National Cooperation Policy (NCP) 2025:** Membership expansion and leadership roles for women and weaker sections.
- **Adoption of Model Bye-laws:** Enabling PACS to function as multipurpose service centres (PM Kisan Samridhi Kendras, Common Service Centres, warehousing, custom hiring centres, primary processing).
- **Inclusive Governance:**
 - Mandatory representation of women and SC/ST members in cooperative boards under **Multi-State Cooperative Societies (Amendment) Act, 2023**.
 - Inclusion of SHGs, small & marginal farmers and tribal communities.

Strengthening Capital Goods Sector



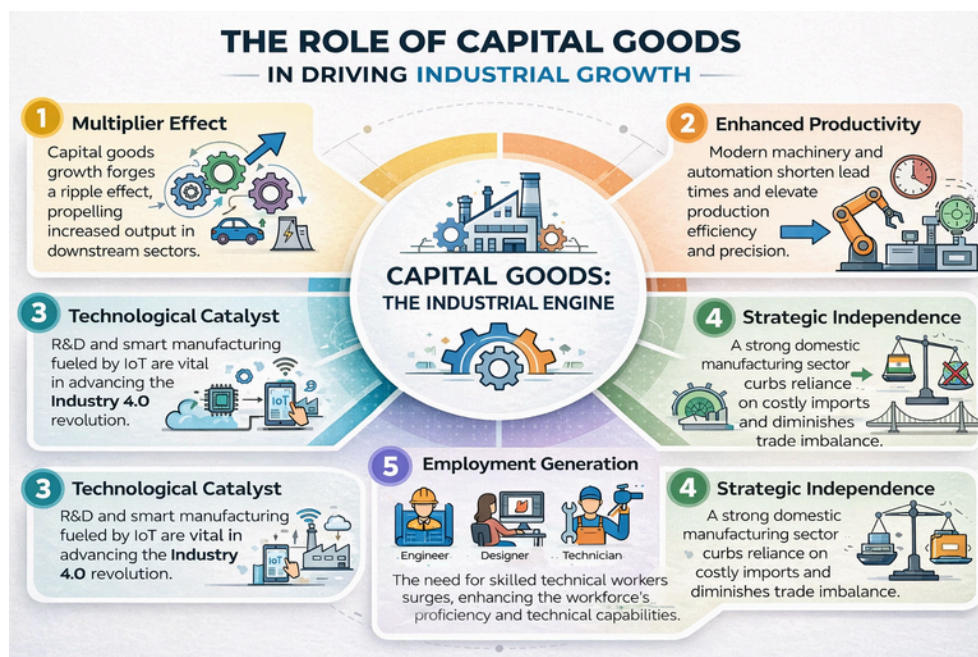
Capital Goods means any plant, machinery, equipment or accessories required for manufacture or production, either directly or indirectly, of goods or for rendering services, including those required for replacement, modernization, technological up-gradation or expansion.

Budget Focus on Capital Goods

- **Infrastructure Engine:** Increased public capex by ~9% to ₹12.2 lakh crore in FY 2026–27 aimed at increased inland shipping and expanding high-speed rail corridors.
- **High-Tech Tool Rooms:** Establishment of CPSE-led hi-tech tool rooms to locally design and manufacture high-precision components at scale.
- **CIE Scheme:** Launch of the **Scheme for Enhancement of Construction and Infrastructure Equipment (CIE)** to boost indigenous production of tunnel-boring machines.
- **Logistics Boost:** Outlay of ₹10,000 crore for a new **Container Manufacturing Scheme** to reduce import dependency and logistics costs.
- **Duty Exemptions:** Extension of Basic Customs Duty (BCD) exemptions for capital goods used in Lithium-ion cell manufacturing and critical mineral processing.
- **Income tax exemption:** For a period of five years to any non-resident entity that provides capital goods, equipment or tooling to a toll manufacturer operating in a bonded zone.

Recent Policy Support Strengthening Capital Goods Sector

- **PLI Schemes:** **Production-Linked Incentives** driving technology adoption & scale.
- **Scheme for Enhancement of Competitiveness in the Indian Capital Goods Sector:** Focusing on advanced **Centers of Excellence** and testing infrastructure.



Minimum Alternate Tax



Union Budget 2026-27 proposed making Minimum Alternate Tax (MAT) a final tax and reducing its rate from 15% to 14%.

- It also proposed to provide exemption from MAT to all non-residents who pay tax on presumptive basis.

About MAT

- It is a tax that requires a company to pay a minimum amount of its book profit when its normal income-tax liability is minimal or zero.
 - A company is required to pay higher of either MAT or corporate tax.
- **Legal basis** - it is levied under Income Tax Act 1961.
- **Applicable:** To both domestic and foreign companies.

Bond Yields



Benchmark 10-year bond yield settled at around 6.77%, sharply higher than the previous session with its highest close since mid-Jan 2025.

About Bond Yields

- It represents the **annual return** an investor earns by **holding a security until maturity**, taking into account both **interest payments** and the **principal repayment relative to the purchase price**.
- It has **inverse relations with bond prices**. A rise in yields translates into lower bond prices in the secondary market.
- **Impact of Higher bond yields:** Reduce the market value of existing bond; raise borrowing costs for companies, etc.

Power Gap Index

Economic Survey 2025-26 cited the Power Gap Index to show that India is operating below its full strategic potential.



About Power Gap Index

- It is a **secondary analysis** derived from the **Asia Power Index**, an **annual index** produced by the **Australia-based Lowy Institute**.
- It measures **resources and influence** to rank the **relative power of states in Asia**.
- Ranks **27 countries and territories** through **131 indicators across 8 thematic measures**:
 - Military capability and defence networks, Economic capability and relationships, Diplomatic and cultural influence, as well as Resilience and Future resources.
- As per 2025 Edition, India is **operating below its full strategic potential** with a **power gap score of -4.0**.

Debt-to-GDP ratio

India is on track to reach debt-to-GDP ratio of 50 ± 1 percent by 2030-31 as debt-to-GDP ratio is estimated to be 55.6 percent of GDP in BE 2026-27.



- **Debt-to-GDP ratio** is being increasingly used as the **primary policy target** instead of **fiscal deficit-GDP ratio** used under **Fiscal Responsibility and Budget Management Act, 2003**.
- FRBM Act aims to guide the **government's fiscal policy towards a sustainable path**, thereby promoting economic stability.

About Debt-to-GDP ratio

- It is a financial metric that compares a **country's public debt** to its **gross domestic product (GDP)**, indicating the **nation's ability to repay its debt**.
- The **higher the debt-to-GDP ratio**, the **less likely** it becomes that the country will **pay back its debt** and the **higher its risk of default**.

Advance Pricing Agreement

Union Budget rationalises Advance Pricing Agreement (APA) rules etc., indicating a more investor-friendly tax regime.



Key Changes for IT sector

- Consolidation of **IT services** into a single category of **Information Technology Services** with a **uniform safe harbour margin** to reduce disputes and litigation.
 - Threshold for **safe harbour eligibility** raised (₹300 crore to ₹2,000 crore); automated, rule-based approvals.
- **Advance Pricing Agreement (APA)** process **fast-tracked** to be completed within 2 years (extendable 6 months).
 - **APA is a pre-emptive arrangement** between a **taxpayer and tax authorities** that determines transfer pricing methodology for specified transactions in advance, ensuring **tax certainty and reducing disputes**.
 - **Transfer Pricing** means **fixing fair prices** for transactions between related companies so that **profits are not shifted to avoid tax**.

Gross Value Added

As per the provisional estimates(PE), GVA of the agriculture sector registered a growth of 10.4% during 2024-25.



- The government has raised the budget allocation of Department of Agriculture & Farmers Welfare(DA&FW) to Rs. 1.27 lakh crore (2025-26).
- GVA percentage growth in agriculture and allied sector including crops, livestock, fisheries and horticulture, during the last five years (at current prices) is as under:

2020-21	2021-22	2022-23	2023-24	2024-25
10.0	10.6	8.5	9.6	10.4

- GVA is the value of **total output** produced in the economy less the value of **intermediate consumption** (the output which is used in production of output further, and not used in final consumption).
 - GVA at basic prices includes the net production taxes but not net product taxes.

PFC and REC Merger



About PFC

- **Genesis:** Incorporated in 1986, it is a **Schedule-A Maharatna** Central Public Sector Enterprises (CPSEs)
- It is a leading **Non-Banking Financial Corporation (NBFC)** in the Country.
- Classified as an **Infrastructure Finance Company** by the RBI in 2010.
- **Ministry:** Ministry of Power.

About REC

- **Genesis:** Incorporated in 1969 in the backdrop of severe drought and famine, to energise agricultural pump-sets for irrigation purposes.
- It is a '**Maharatna**' company and is registered with RBI as NBFC, Public Financial Institution (PFI) and Infrastructure Financing Company (IFC).
- **Ministry:** Ministry of Power.
- It is the National Project Implementation Agency for the “PM Surya Ghar Muft Bijli Yojana”.

Chemical Parks

The initiative, backed by a ₹600 crore allocation, aims to transform India into a global manufacturing hub through a cluster-based, infrastructure-led approach.



About Chemical Parks

- They are planned industrial clusters explicitly designed for **chemical and petrochemical manufacturing**, where multiple units operate together, sharing world-class infrastructure and common services.

Status of Chemical Industry in India

- Contributes **7% to national GDP**.
- Accounts for **8.1% of manufacturing GVA** (Gross Value Added) (FY24)
- India is **6th largest chemical producer globally** and **3rd largest in Asia**.

Challenges faced by Chemical Industry

- **Import Dependency:** Heavy reliance on imports led to a **USD 31 billion trade deficit** in 2023.
- **Infrastructure & Logistics:** Outdated industrial clusters and **high logistics costs** create a significant price disadvantage compared to global competitors.
- **Missed Opportunities:** Focusing on **bulk production (upstream)** instead of **high-value specialty products** (downstream).
- **Low R&D:** Investment in R&D stands at only **0.7%** (against global average of 2.3%).
- **Environmental compliance (EC) hurdles:** Long processing times, complex clearance requirements, and overlapping regulatory scrutiny at state and central levels.
- **Skill Gap:** A **30% shortfall** in skilled professionals, particularly in niche areas like green chemistry, nanotechnology, etc.

Other Initiatives for promotion of Chemical Industry:

- **Plastic Parks:** Focuses on plastic waste management, recycling, and synergizing capacities of processing industry.
- **Bulk Drug Parks:** Aimed at achieving self-reliance in pharmaceutical raw materials (APIs).
- **Petroleum, Chemicals and Petrochemicals Investment Region (PCPIRs):** Large-scale investment regions for petroleum and petrochemicals.
- **Production linked incentive (PLI) Schemes:** For Promotion of Domestic Manufacturing of Critical Key Starting Materials (KSMs), Drug Intermediates and APIs.

Startup Recognition Framework Revised

Revision was done with a view to expand access to research, innovation in startups, establish India as a manufacturing-led economy and hub for emerging technologies.



Key Provisions of Revised Framework

- **Enhanced Turnover Threshold:** Increased from ₹100 crore to **₹200 crore**.
- **Introduction of dedicated Deep Tech Startups Category:** For entities working on cutting-edge and breakthrough technologies.
 - This category has been accorded **expanded eligibility criteria** with **age limit** extended from 10 to 20 years from date of incorporation/registration, **turnover limit enhanced to ₹300 crore**.
- **Inclusion of cooperative societies as eligible entities:** Extended to both **Multi-State Cooperative Societies** (under Multi-State Cooperative Societies Act, 2002) and **Cooperative Societies** (under State and Union Territory Cooperative Acts).

Recognised Startups and Startups Ecosystem in India

- **Recognised Startups:** Startup granted **official recognition** by **Department for Promotion of Industry and Internal Trade (DPIIT)**, based on **eligibility criteria** notified from time to time.
- **Benefits of a Recognised Startup:** Not required to include cash flow statement with financial statements; **100% tax exemption on profits for three years** under Income Tax Act 1961; etc.
- **Status in India:** Over 2 lakh DPIIT-recognised startups (December 2025), with around **50% of** originating from **Tier-II and Tier-III cities**.
- **Key Initiatives for Startup Support:** Startup India Initiative; Atal Innovation Mission (AIM); GENESIS (Gen-Next Support for Innovative Startups); NIDHI (National Initiative for Developing and Harnessing Innovations), etc.

Startup Recognition Criteria



Years Since Founding

Startup must be founded no longer than 10 years ago, or 20 years ago for deep tech.



Business Structure

Must be registered as a Private Limited Company, Limited Liability Partnership, Registered Partnership, or Cooperative Societies.



Annual Revenue

Annual revenue must not exceed **Rs. 200 crore** (Rs. 300 crore for deep tech) since inception.



Originality

Must not be created by splitting up, rebranding, or restructuring an already existing business.



Innovation & Scalability

Demonstrate product, process, or service innovation with a scalable and profitable business model.

Rat-hole mining

Rat-hole mining is prone to collapsing because they lack engineered roofs and side-wall protections.



What is Rat-hole mining?

- Rat Hole' mining is a primitive and unscientific form of mining.
- In this process, **Land is first cleared by cutting and removing the ground vegetation** and then **digging pits** into the ground to reach the **coal seam**.
 - **Coal seams** are reached by excavating the hill slopes and then coal is extracted through a horizontal tunnel, where workers enter and extract coal.
- **Methods of extraction:** Side-cutting, Box-cutting

Reasons for Illegal Mining Continuation

- **Natural Factors:** E.g., Coal seams in Meghalaya are very thin which makes rat-hole mining more economically viable than opencast mining.
- **Lack of Alternatives:** Without viable economic substitutes in sectors like horticulture, construction, manufacturing, the population reverts to mining for survival.
- **Complex Ownership Structures:** The specific ecosystem in Meghalaya involves small, privately or community-owned landholdings with fragmented ownership.

Measures taken to stop illegal rat hole mining

- **Meghalaya** has a framework to prevent illegal mining, transport, and storage under the Mines & Minerals (Development & Regulation) Act, 1957.
- **National Green Tribunal (NGT) banned** rat hole mining in Meghalaya In 2014, stating it is unscientific and unsafe for workers. The ban was upheld by the Supreme Court.

Integrated Farming System

The Union Agriculture Minister urged scientists to develop Integrated Farming Systems (IFS) for small farmers



About Integrated Farming System (IFS)

- A synergistic approach integrating multiple components: crops, livestock, horticulture, fishery, poultry, and apiary, on a single farm unit.
 - ~89.4% of Indian farmers are operating on small landholdings (<2 hectares)

Significance of IFS for Small Farmers

- **Income Security:** Diversified revenue streams buffer farmers against crop failure and market volatility, potentially increasing net income.
- **Resource Efficiency:** Recycling on-farm nutrients reduces input costs (fertilizers, feed).
- **Nutritional Security:** Provides a balanced diet (milk, eggs, vegetables) for the farming household, combating rural malnutrition.
- **Ecological Diversity:** Enhances biodiversity through scientific cropping methods (intercropping, mixed crop rotation) to reduce competition for water, nutrition, and space.

Challenges

- **Capital Intensive:** Establishing allied sectors (e.g., cattle sheds, fishponds) requires high initial investment.
- **Knowledge Gap:** Traditional farmers may lack technical skills to manage complex, multi-layered systems.
- **Labour Requirement:** IFS is labour-intensive.

Government Initiatives

- **National Mission for Sustainable Agriculture (NMSA)- Rainfed Area Development (RAD):** The primary mission promoting location-specific IFS clusters.
- **Rashtriya Krishi Vikas Yojana (RKVY):** Provides states flexibility to fund diverse IFS models and infrastructure.
- **Paramparagat Krishi Vikas Yojana:** Promotes organic nutrient cycling between livestock and crop components.
- **Viksit Krishi Sankalp Abhiyan:** Aims to bridge the lab-to-land gap, deploying scientists to disseminate region-specific IFS models.
- **ICAR-AICRP:** The All India Coordinated Research Project (AICRP) on IFS is developing location-specific models across 25 states to optimize productivity for different agro-climatic zones.

Integrated Programme for the Textile Sector announced in Union Budget 2026-27

Integrated Programme is a comprehensive and integrated policy framework that aims to strengthen the entire textile value chain—from fibre to fashion, from village industries to global markets.

- It consists of five sub-components.

Five sub-components of the Integrated Programme

- **National Fibre Scheme:** Aimed at achieving self-reliance across the fibre spectrum.
 - The scheme will support natural fibres such as silk, wool and jute, man-made fibres, and new-age fibres.
- **Textile Expansion and Employment Scheme:** Focuses on modernisation of traditional textile clusters through capital support for machinery, technology upgradation, and the establishment of common testing and certification centres.
- **National Handloom and Handicraft Programme:** Existing schemes for handloom and handicrafts will be integrated and strengthened under a unified national programme.
- **Tex-Eco Initiative:** Aims to promote globally competitive, environmentally sustainable textiles and apparel manufacturing.
- **Samarth 2.0:** Aims to modernise the textile skill ecosystem through deeper collaboration with industry and academic institutions.

Another initiative announced for the Textile Sector

- **Mahatma Gandhi Gram Swaraj Initiative:** It will strengthen khadi, handloom and handicrafts. The initiative will focus on global market linkage, branding, etc.
 - It will support the One District One Product (ODOP) initiative.
- **Mega Textile Parks and Technical Textiles:** It will support growth in technical textiles, a high-potential segment critical for industrial, medical, defence and infrastructure applications.

16th Finance Commission gives recommendations for strengthening local bodies

It has recommended a total grant of ~₹7.9 Lakh crore to India's rural and urban local bodies for the next five years (FY 2026-27 to 2030-31) with other important recommendations.

Challenges in Local Body Financing

- **Structural Revenue Gaps:** E.g., Property tax collections are low due to incomplete and inaccurate property records, low coverage, undervaluation of properties etc.
- **Overdependence on Union/State Govt.:** E.g., Panchayats' reliance on Grants (over 90% of their revenues)
- **Limited Access to Debt and Capital Markets:** Municipal borrowings in India are estimated at less than 0.05% of GDP.
- **Other:** Underdeveloped Bond Market; Data Gaps and Accounting Issues; Delays in Constitution of State Finance Commissions (SFCs) etc.

Recommendations by 16th Finance Commission

- **Property database:** States should develop a citizen friendly GIS based property tax IT system.
- **Rural-Urban Split:** The aggregate grant to be divided in a 60:40 ratio between RLBs and ULBs.
- **Urbanisation Premium:** An allocation of ₹10,000 crore is designated to incentivize merger of peri-urban villages into adjoining larger ULBs (with population > 1 lakh).
- **Constitutional Amendment:** Removing constitutional requirement (Articles 280(3) (bb) and (c)) that binds Central FC to make recommendations "on the basis of" SFC recommendations.
- **Best Practices:** NITI Aayog recommended to study SFC functioning and publish a compendium of good practices for States.

Sources of Local Body Financing

- **Own Tax Revenue:** Under Article 243X of the Constitution.
- **Non-Tax Revenue:** Includes licensing fees, fees for granting permits, etc.
- **Inter-governmental Transfers:** FC Grants, State transfers, Scheme specific transfers.
- **Borrowings:** Municipal Bonds, General Obligation Bonds, etc.
- **Financing:** Pulled financing for small ULBs, Land Monetization etc.

Liberalized Remittance Scheme

Union Budget 2026 cut the Tax Collected at Source (TCS) rate for education and medical expenses abroad under the Liberalised Remittance Scheme (LRS).



- TCS is an additional tax collected by sellers from buyers at the time of sale for specific goods/services under Section 206C of the Income Tax Act, 1961.

About Liberalised Remittance Scheme

- **Overview:** All resident individuals (including minors) are allowed to freely remit up to **USD 2,50,000** per financial year for permissible current or capital account transaction or a combination of both.
 - It is **not available** to corporates, partnership firms, Hindu Undivided Family (HUF), Trusts etc.
- **Introduced:** 2004 by Reserve Bank of India (RBI)
- **Prohibited under LRS:** Gambling & Lottery, Trading & Speculation

Exchange Traded Funds

In a first for India, investments in gold Exchange Traded Funds (ETFs) were greater than inflows into equity-oriented mutual funds.



About ETFs

- It is an investment fund that **holds multiple underlying assets**. It can be bought and sold on an **exchange**, much like an individual stock.
- ETF share prices **fluctuate throughout the trading day**, unlike mutual funds, which only **trade once a day after the market closes**.
- ETFs, generally, **have higher daily liquidity and lower fees than mutual fund schemes**.
- It cannot be bought or **sold in fractions**, unlike mutual fund units.

NITI Aayog Report Critical Mineral

The report highlights that India's pathway to Net Zero by 2070 will be materially shaped by secure, affordable and responsible access to Critical Energy Transition Minerals (CETMs).



- Critical minerals are those minerals which are essential for **economic development and national security** of a country.

Key Challenges Associated

- **Demand Surge:** Projected demand for CETMs under Net Zero Scenario is 51% higher than the current policy scenario primarily due to **battery-linked minerals** demand.
- **High Import Dependence:** E.g. 100% import-dependent for key minerals like lithium, cobalt, nickel.
- **Concentration Risk:** E.g. dependence on China exposes India to price volatility and supply disruptions.
- **Domestic Bottlenecks:** Underutilised domestic mining, refining and recycling capabilities, limited private sector participation, limited R&D capabilities.

Policy Suggestions:

- **Strengthen Domestic Exploration & Mining:** Introduce conditional "**First Come, First Served**" (FCFS) model in early-stage exploration.
- **Build Domestic Innovation (R&D):** Launch **mission-oriented R&D** focused on processing and refining technologies.
- **Diversify International Supply:** Participate in "**value-chain stack**" **partnerships** (e.g., **Mineral Security Partnership**), Strengthen **Khanij Bidesh India Limited (KABIL)** for overseas CETM execution.
- **Scale Circularity & Refining:** Provide financial incentives (capital support, output-linked incentives) to make domestic refining and recycling economically viable.
- **Institutional Architecture:** Establish a **National Critical Raw Material (CRM)** Analytical Unit to conduct continuous risk assessments etc.

Other Initiatives for Critical Minerals

- **National Critical Mineral Mission (NCMM):** To establish a robust framework for self-reliance in the critical mineral sector.
 - **Incentive Scheme for the Promotion of Critical Mineral Recycling:** To incentivize the development of recycling capacity in critical minerals.
- **Khanij Bidesh India Limited (KABIL):** A joint venture company of the Ministry of Mines to acquire critical minerals globally.
- **Rare Earth Corridors** across four states Odisha, Kerala, Andhra Pradesh, and Tamil Nadu.

NITI Aayog releases Study on Agriculture

The report on Scenarios Towards Viksit Bharat and Net Zero emphasises on 'strategic sequencing' as a transition strategy focussing on resource efficiency like micro irrigation and fertilizer optimization.

- Strategic scaling of pathways like **crop diversification** (away from rice, sugarcane), increasing share of solar and electric pumps could offer **mitigation co-benefits** and energy savings.

Agriculture Sector of India

- **Contribution:** Supports **46% of workforce** and contributes **~14% to Gross Value Added (GVA)**.
- **Role in Food Security:** Between 2011 and 2019, food grain production increased to **~285 million tonnes** and to **~332 million tonnes in 2023-24**.
- **Key Challenges:**
 - Dominance of **small and marginal farmers**.
 - **Dual challenge of meeting food demand and managing environmental food prints:**
 - Sector currently accounts for **~14% of national Greenhouse Gas (GHG) emissions**, driven by **methane from enteric fermentation** and **rice cultivation** and **nitrous oxide from agricultural soils**.
 - Consumes **~18% of national electricity** primarily to **power groundwater irrigation** and **expanding mechanisation**.
- **Emission Scenario:**
 - **Under Current Policy Scenario:** Agricultural emissions (non-energy) are expected to rise from **~506 MtCO₂e in 2019** to **~531 MtCO₂e in 2070**.
 - **Net Zero Scenario:** Total emissions of **~399 MtCO₂e in 2070**, offering **~25% mitigation co-benefits** relative to the CPS.
- **Key Policy Suggestions:** Integrating both demand and supply side levers to create targeted roadmaps; Institutionalize integrated "agri-food" systems framework, etc.

Implementation Approaches and Expected Benefits

Intervention Strategy	Associated Government Initiatives	Intervention Strategy	Associated Government Initiatives	Intervention Strategy
Productivity Enhancement & Crop Diversification	Pradhan Mantri Krishi Sinchai Yojana (PMKSY); Crop Diversification	Increase productivity per hectare (kg/ha)	Higher farmer earnings; Improved food availability; Greater resilience	Lower emission intensity per unit area (CO ₂ e/ha)
Organic & Natural Farming Promotion	National Mission on Natural Farming (NMNF); Paramparagat Krishi Vikas Yojana	Improvement in soil organic carbon (SOC); Enhanced agro-biodiversity	Sustainable yields over time; Better nutritional outcomes	Reduction in nitrous oxide (N ₂ O) emissions
Climate-Smart Rice Farming Techniques	Bringing Green Revolution to Eastern India (BGREI)	Improved water-use efficiency (litres/ha)	Income stability for farmers; Greater climate adaptability	Significant cut (up to ~60%) in methane (CH ₄) emissions

Anti-microbial Resistance

The Compact, supported by Unified Coalition for AMR Response aims to unlock sustainable financing from both public and private sources to reduce the global AMR deaths, saving more than 100 million lives by 2050.



About AMR

- It occurs when **bacteria, viruses, fungi and parasites** no longer respond to antimicrobial medicines (antibiotics, antivirals, antifungals, etc.) making them ineffective.
- It is a **natural process** that happens over time through genetic changes in pathogens.
 - However, its spread is accelerated by human activity, mainly the **misuse and overuse of antimicrobials**.
- **Status in India:** Around **6 lakh lives are lost each year** due to resistant infections.

 Expansion of Drug-Resistant Microbes	 Transmission of Resistance Genes	 Impact on Human Capital	 Economic Consequences
The growing presence of antimicrobial-resistant organisms weakens our ability to cure routine infections and safely conduct critical medical treatments and surgeries.	The movement of resistance genes among pathogens is fueling a “hidden pandemic,” projected to result in more than 39 million deaths worldwide between 2025 and 2050.	AMR affects quality of life by reducing productivity, disrupting education and employment, and raising healthcare costs.	The transfer of resistant pathogens from animals to humans could impose global losses of up to \$5.2 trillion, according to the World Bank.

Key Initiatives taken to address AMR

- **National Action Plan on AMR 2.0 (2025-2029):** Unified and coordinated effort across the human, animal, agriculture and environmental sectors.
- **First Indigenous Antibiotic, Nafithromycin:** Launched in 2024 ,it is designed to treat both typical and atypical drug-resistant bacteria.
- **National surveillance networks:** Generate annual AMR surveillance reports, with data submitted to the **Global AMR Surveillance System (GLASS)**.
- **Global Initiatives Efforts:**
 - **Global Action Plan (GAP) on AMR** during 2015 World Health Assembly.
 - **United Nations General Assembly High-Level Meeting on AMR, 2024**, to reduce global deaths associated with **bacterial AMRs by 10% by 2030 against the 2019 baseline, etc.**

Periodic Labour Force Survey

PLFS is the primary source of data on employment-unemployment conditions of the population conducted by National Statistical Office (NSO) under the Union Ministry of Statistics & Programme Implementation (MoSPI).



Periodic Labour Force Survey

Key Findings of PLFS during October – December 2025

- **Labour Force Participation Rate (LFPR):** Overall LFPR among persons of age 15 years and above witnessed an increase to 55.8%.
- **Female LFPR showed an increasing trend:** Overall LFPR of females aged 15 years and above showed upward trend, increased to 34.9%.
- **Rise in workforce:** The overall Worker Population Ratio (WPR) for persons of age 15 years and above rose to 53.1%.
- Rural WPR for persons aged 15 years and above continued to show a steady upward trend across both genders.
- **Unemployment Rate (UR):** It declined across both rural (4%) and urban (6.7%) sectors.
- **Self-employment:** Increased in both rural (63.2%) and urban (39.7%) areas.
- **Concentration of workforce:** In Rural areas the majority of workers engaged in the **agriculture sector** (58.5%), whereas in the urban areas, the **tertiary sector** remained stable, engaging 61.9% of workers.

Important Definitions

- **Labour Force Participation Rate (LFPR):** It is defined as the number of persons/ person-days in the labour force per 1000 persons /person- days.
- **Labour force** is defined as the total persons working (or employed) and seeking or available for work (or unemployed).
- **Worker Population Ratio (WPR):** It is defined as the number of persons/person-days **employed** per 1000 persons/person-days.
- **Unemployment Rate (UR):** It is defined as the number of persons/person-days unemployed per 1000 persons/person-days in the **labour force**.

Consumer Price Index

Ministry of Statistics & Programme Implementation
released Consumer Price Index (CPI) with base year 2024



CPI has been revised for representing current household consumption patterns, price structures, and the evolving nature of the Indian economy.

- The base updation was done on the basis of latest **Household Consumption Expenditure Survey (HCES) 2023–24**, which provides comprehensive information on household expenditure patterns across rural and urban areas of the country.

Key Highlights of CPI

- **Inflation:** Year-on-year inflation rate for month of January 2026 over January 2025 is 2.75% (Provisional).
 - Corresponding inflation rates for rural and urban are 2.73% and 2.77%, respectively.
- **Change in Items:** **Addition of new items** including OTT subscriptions, rural house rent, value-added dairy, pen drives, babysitting services, fitness equipment, and **removal of obsolete items** like VCR/DVD, tape recorders.

About CPI

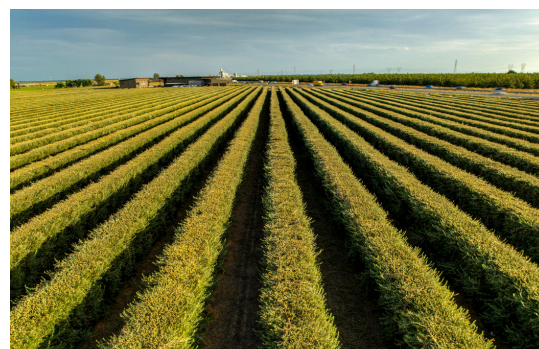
- CPI track **changes over time in the general retail prices of a basket of goods and services** purchased by households for consumption.
- **Compilation:** It is compiled by **MoSPI every month** for rural, urban and combined sectors.
- **Formula:** For compiling **CPI, Laspeyre’s Index Formula is used**, which is based on three elements – Base Year Price, Base Year Weights, and Current Month’s Price.

CPI Methodology Comparison: Base 2012 vs Base 2024

Aspect	CPI (Base 2012)	CPI (Base 2024)
Reference Year	2012 as the base year	2024 as the base year
Number of Items in Basket	299 items (259 goods + 40 services)	358 items (308 goods + 50 services)
Coverage of Online Markets	Not included	Covers 12 online platforms in cities with population above 25 lakh
Classification Framework	Based on COICOP 1999 (Groups & Sub-groups)	Based on COICOP 2018 (Divisions, Groups, Classes & Sub-classes)
House Rent Index (HRI)	Only urban areas; includes employer-provided housing	Covers urban and rural areas; excludes employer-provided housing
State-Level Data Release	Only combined (overall) index released	Separate rural, urban and combined index along with inflation rates
Weight of Food & Beverages	45.86%	36.75%

Agriculture Infrastructure Fund

The Prime Minister has announced the doubling of the Agriculture Infrastructure Fund (AIF) loan target from ₹1 lakh crore to ₹2 lakh crore. It is aimed at strengthening India's entire agriculture value chain.



Agriculture Infrastructure Fund

About Agriculture Infrastructure Fund (AIF)

- **Objective:** It is a **medium-long term debt financing facility** for investment in viable projects for **post-harvest management infrastructure** and **community farming assets** through **interest subvention** and **credit guarantee support**.
- **Type:** Central Sector Scheme
- **Implementation Period:** From 2020-21 to 2029-30.
- **Key Feature:** Loans with **interest subvention of 3% per annum** and credit guarantee coverage under **Credit Guarantee Fund Trust for Micro and Small Enterprises** for loans up to ₹ 2 Crores.
- **Eligible Beneficiaries**
 - **Primary Beneficiaries** such as Farmers, Primary Agricultural Credit Societies (PACS), Farmers Producer Organizations (FPOs), Self Help Groups (SHGs), etc
 - **Government/Agencies** such as Agricultural Produce Market Committees.
- **Eligible Projects**
 - **Post-Harvest Management Projects:** Such as warehouses, Cold Chains, Cold storage, Ripening Chambers.
 - **Community Farming Assets:** Such as Infrastructure for smart and precision agriculture (e.g., Drones, Sensors, AI).

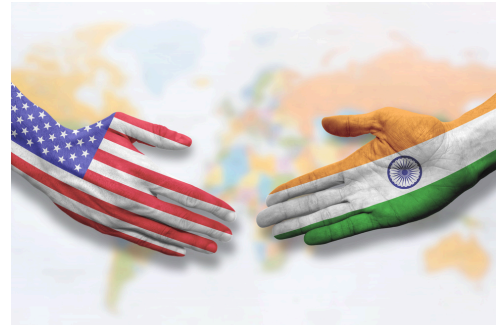
Reliance on Agriculture	Dominance of Marginal Farmers	Losses After Harvest
A large share of the population depends on farming for livelihood and income generation.	The agricultural sector is largely composed of small and marginal landholders with limited operational area.	Significant quantity of farm produce is lost due to inadequate storage, processing, and supply chain facilities.

Other Initiatives for Agriculture Infrastructure Development in India:

- **Agricultural Marketing Infrastructure (AMI):** Subsidy support for constructing rural godowns.
- **Mission Organic Value Chain Development (MOVCDNER):** Focuses on organic clusters in the North East
- **Pradhan Mantri Matsya Sampada Yojana (PMMSY):** Aiming to boost fish production to 22 million metric tons and exports to ₹1 lakh crore by 2024-25.
- **Micro Irrigation Fund (MIF):** ₹5,000 crore corpus to expand micro-irrigation coverage.

India-US trade Deal

India and the United States sign Landmark Trade Agreement



About the Trade Agreement

- US reciprocal tariffs on Made in India products will now be **reduced from 25% to 18% effective immediately**. US has also **withdrawn the additional 25% duty**.
 - **In August 2025**, the US imposed a tariff of up to **50%** comprising a **25%** reciprocal tariff plus an **additional 25% duty** over **Russian oil imports**.
- As reported by the US, **India** has agreed to scale up **imports** of **American goods**, including over **\$500 billion** worth of energy, technology products, and nuclear equipment.
 - India will **progressively reduce its Tariffs and Non-Tariff Barriers** against the US.

Significance of the deal

- **Economic Significance:** Provides increased opportunities for farmers, MSMEs, entrepreneurs, and skilled workers to **Make, Design and Innovate in India for the world**.
 - It will help India get **technology** from the US.
- **Strategic Reset in Bilateral Relations:** The deal ends a phase of tariff-led escalations and upholds **momentum and trust** in India–US strategic and economic engagement.
- **Geopolitical implications:** It strengthens India's position in the **global supply chain**, potentially countering **China's dominant position** in global trade and manufacturing.
- **Macroeconomic Stability:** The deal potentially helps stabilise capital flows, supports the rupee, and improves investor confidence amid global uncertainty.

About India-US trade

- **Largest Trading Partner:** The US is one of India's top trading partners; India runs a **trade surplus** with the US, driven mainly by services and high-value goods exports.
- **FDI investment:** USA is the 3rd largest investor in India with cumulative foreign direct investment (FDI) inflows of US\$ 70.65 billion (2000-2025).
- **Trade volume:** Bilateral trade has stood at a record US\$ 132.2 billion in FY25 as against US\$ 119.71 billion in FY24.
- **Key Indian exports to US:** Pharmaceuticals, engineering goods, electronics, gems & jewellery etc.
- **Key US exports to India:** Crude oil, LNG, aircraft and parts, defence equipment etc.

India - Gulf Cooperation Council

Signed between India and Gulf Cooperation Council (GCC), ToR defines the scope, structure and modalities of the proposed India-GCC FTA.



- **Framework Agreement of Economic Cooperation** to explore the possibility of FTA between India and GCC was signed in New Delhi in 2004.

Significance of India-GCC FTA for India

- **Unlock Full potential of a mutually-beneficial Economic relationship:** GCC countries represent a market of **61.5 million people (2024)** and **US\$ 2.3 trillion** in terms of GDP at current prices.
- **Diversifying India's Energy Sources:** Sectors like **food processing, infrastructure, petrochemicals, and Information and Communication Technology (ICT)** are expected to benefit largely from this.
- **Reinforce Relations amidst prevailing global uncertainties:** Helping strengthen **long-term supply security** and **trade expansion**.
- **Enhance Trade and Investment:** India's trade with GCC stood at **USD 178.56 billion** in FY 2024-25, (15.42% of India's global trade).
 - Region is also a significant source of **Foreign Direct Investment (FDI)** with investments exceeding **USD 31.14 billion** (September 2025).
- **Enhance People to people ties:** GCC is home to nearly **ten million members** of Indian community.

About GCC

- **Genesis:** Cooperative agreement among **six-nation bloc**, established by an agreement concluded on 25 May 1981.
- **Members (6):** United Arab Emirates; Kingdom of Bahrain; Kingdom of Saudi Arabia; Oman; Qatar; Kuwait.
- **Headquarters:** Riyadh, Kingdom of Saudi Arabia.
- **Objective:** Effect coordination, integration and inter-connection between Member States to **achieve unity between them**.
- **Main Organizations under GCC:** **Supreme Council** with attached Commission for Settlement of Disputes; The **Ministerial Council**; The **Secretariat General**.

BRICS Centre for Industrial Competencies



India has Joined BRICS Centre for Industrial Competencies (BCIC) to support manufacturing and MSMEs.

- BRICS is a group of **eleven countries** which serves as a political and diplomatic coordination forum for countries from the Global South.

About BCIC

- Launched in partnership with the **United Nations Industrial Development Organization (UNIDO)**.
- It serves as a **one-stop centre** providing integrated support services to **manufacturing companies and Micro, Small and Medium Enterprises (MSMEs)** across BRICS countries, with a focus on strengthening Industry 4.0 competencies.
- **National Productivity Council (NPC)** has been designated as the India Centre for BCIC.

FORGE Initiative



The United States announced the launch of the Forum on Resource, Geostrategic Engagement (FORGE) during the inaugural Critical Minerals Ministerial.

- **Ministerial was hosted by US** in Washington DC, bringing together delegations from over **50 countries (including India)** to advance collaboration on securing and diversifying global critical mineral supply chains.

About FORGE

- FORGE has been created as a **successor to the Minerals Security Partnership (MSP)**.
 - MSP aimed to bolster critical minerals supply chains to support economic prosperity and climate objectives.
- **Objective:** FORGE partners will collaborate at the policy and project levels to advance initiatives that strengthen **diversified, resilient, and secure critical minerals supply chains**.

Chabahar Port

Iran reaffirms its commitment to the Chabahar port and cooperation with India, despite US sanctions uncertainty.



About Chabahar port

- **Location:** Sistan-Balochistan province in Iran's southern coast.
- **Genesis:** India Ports Global Limited (IPGL) started operating the port in **2018**.
- **Significance:** It connects **India to Afghanistan ,Central Asia and International North-South Transport Corridor (INSTC) bypassing Pakistan**
- In 2024, IPGL signed a 10-year contract with the **Ports and Maritime Organisation** of the Islamic Republic of Iran for equipping and operating the Shahid Beheshti Terminal of Chabahar Port.
- India has fulfilled its commitment of contributing **USD 120 million** for the procurement of port equipment.

Greece

India and Greece have signed joint declaration of intent to strengthen defence cooperation.

Political Features

- **Location:** southernmost of the countries of the Balkan Peninsula.
- **Bordering Nations:** Albania (northwest), North Macedonia(north), Bulgaria (north) and Turkey(northeast)
- **Bordering water bodies:** The Aegean Sea (East), Mediterranean Sea (South) and Ionian Sea (West) and Cretan Sea (South)

Geographical Features

- **Mountains:** Pindos (or Pindus) Mountains (central mountain range forming the core of mainland Greece).
- **Highest Point:** Mount Olympus
- **Climate:** Mediterranean climate

Prime Minister of India's Official Visit to Malaysia

During the Official visit, the joint statement emphasizes a shared commitment to regional stability, economic integration, and technological synergy.

- India-Malaysia diplomatic relations were elevated to a **Comprehensive Strategic Partnership (CSP)** in August 2024.

Key Highlights of the Joint Statement

- **Strategic & Defence Cooperation**
 - Establishment of **Strategic Affairs Working Group (SAWG)** and **Su-30 Forum** that Enables cooperation between both the air forces on **maintenance and technical expertise, reducing supply-chain vulnerabilities.**
 - Conducted **joint military exercise Harimau Shakti (5th edition)** and called for **zero tolerance of terrorism** and for concerted **international efforts to combat terrorism.**
- **Energy & Climate Cooperation**
 - Malaysian companies **expanding investments in India's: Solar energy, Green hydrogen, shared commitment to net-zero emissions.**
 - Semiconductor cooperation in **Workforce development, Supply chain resilience and institutional tie-ups.**
- **Trade & Investment**
 - Focus on **balanced, diversified trade; priority sectors: Semiconductors, Digital Economy, Local currency settlement (INR–MYR) encouraged via RBI–Bank Negara Malaysia cooperation.**
 - Cooperation across trade, **resilient supply chains, investment, and advanced manufacturing.**
- **Food Security & Agriculture**
 - Malaysia reaffirmed commitment as a **reliable palm oil supplier.**
 - **Cooperation in: Oil palm value chain, Downstream & value-added products.**
 - Support for **Coalition for Disaster Resilient Infrastructure (CDRI).**
- **Regional & Multilateral Cooperation**
 - Reiterated commitment for: **UN reforms, India's permanent membership in a reformed UNSC.**
 - Support for: **ASEAN Centrality, Indo-Pacific vision to implement ASEAN Outlook on the Indo-Pacific (AOIP) for Peace and India's Indo-Pacific Oceans Initiative (IPOI), Reaffirmation of UNCLOS 1982, freedom of navigation.**

India-Malaysia Relations

- **Economic & Trade Significance:** Malaysia is India's **3rd largest trading partner in ASEAN.**
- **Strong People-to-People connect:** Malaysia has the **largest Pravasi Bharatiya Divas participation.**
 - Malaysia hosts: **~2.75 million Persons of Indian Origin (2nd largest globally after the US),**
 - **~2.9 million Indian diaspora (3rd largest globally)**
- **Cultural & Soft Power:** Strong cultural footprint with **almost 20,000 Hindu temples, Gurudwaras and many Indian languages.**

India-US Interim Trade Agreement Framework



The agreement paves way for a comprehensive U.S.-India Bilateral Trade Agreement (BTA).

Tariff Reform Measures

- India proposes to lower customs duties on a broad range of U.S. industrial and farm products, including items such as nuts and alcoholic beverages.
- Duties on select American agricultural goods — such as distillers grains (DDGs), feed sorghum, edible oils, fruits (fresh and processed), and spirits — may be reduced or phased out.

Reciprocal Trade Adjustments

- The United States plans to impose an 18% reciprocal tariff on certain Indian exports, with a roadmap for possible tariff withdrawal after successful completion of the interim agreement.
- Tariff relaxations or quota-based access may apply to sectors such as:
 - Aircraft components
 - Certain metal-related goods
 - Automobile parts
 - Generic medicines
 - (Subject to national security reviews and compliance requirements.)

Strategic Procurement Commitment

- India has expressed intent to procure approximately \$500 billion worth of U.S. energy resources, aircraft, and defense equipment over a five-year period.

Reduction of Non-Tariff Restrictions

- Both countries aim to streamline regulatory standards in:
 - Medical devices
 - Information and Communication Technology (ICT) products
- Efforts will also focus on aligning digital trade regulations to facilitate smoother cross-border commerce.

Technology & Supply Chain Cooperation

- Enhanced collaboration is planned in:
 - Advanced semiconductor-related hardware such as GPUs
 - Data center infrastructure
- The objective is to strengthen critical technology supply chains and improve resilience.

Significance

- Supply chain resilience: Enhanced economic security alignment and innovation through complementary actions.
- Pharma Access: Opens negotiated pathways for Indian generic pharmaceuticals, reinforcing India's role in global healthcare supply chains.

India Seychelles Relations

Both Countries announced a joint vision for Sustainability, Economic Growth, and Security through Enhanced Linkages.



Key Outcomes

- **Special Economic Package:** India announced a package totaling USD 175 million, aimed at development projects, capacity building, and maritime security.
- **Regional Cooperation:** Seychelles to become a full member of the **Colombo Security Conclave (CSC)**.
 - CSC is a regional security grouping comprising India, Sri Lanka, Mauritius, Maldives and Bangladesh.
 - It aims to promote regional security by addressing transnational threats and challenges of common concern to the Member States.
- **Disaster Resilience:** Seychelles agreed to join the **Coalition for Disaster Resilient Infrastructure (CDRI)**.
- **Health:** Seychelles to recognize **Indian Pharmacopoeia**, book of standards for the drugs, to procure affordable, quality medicines.
- **Digital Transformation:** India agreed to undertake comprehensive efforts to build Digital Public Infrastructure (DPI) in Seychelles.
- **Maritime cooperation:** Seychelles will set up a **Hydrographic Unit** with Indian assistance.

Significance of Seychelles for India

- **Vision MAHASAGAR & SAGAR:** Seychelles is a central pillar in India's vision of **SAGAR** (Security and Growth for All in the Region) and the recently articulated Vision **MAHASAGAR** (Mutual and Holistic Advancement for Security and Growth Across Regions).
- **Geostrategic:** Its location near critical **Sea Lines of Communication** enables monitoring of key shipping routes, particularly the **Mozambique Channel**.
 - E.g., India's quest to develop **Assumption Island** to boost surveillance.
- **Balancing China's expansion:** E.g., deployment of the **Coastal Surveillance Radar** System in Seychelles by India for Maritime domain awareness.
 - China is increasing its influence in the Indian Ocean through String of Pearls, Two Ocean Strategy, and Belt and Road Initiative (BRI).
- **UNSC Bid:** Seychelles supports for India's permanent membership at the UN Security Council.
- **Defence Cooperation:** E.g., joint maritime exercise **LAMITYE**

Global wind and solar 2025: The G7 gap

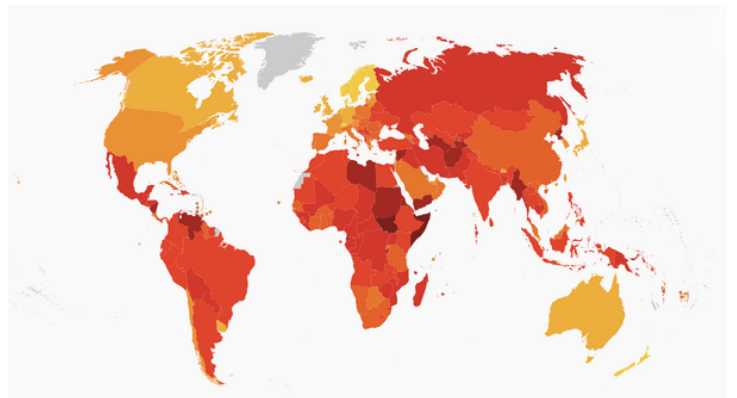


Global Energy Monitor (GEM) released a new analysis of the global pipeline of wind and utility-scale solar projects.

Key Highlights

- **Pipeline:** The global wind and utility-scale solar pipeline reached a **record 4.9 TW** in 2025, **marking an 11% year-on-year increase**.
- **The G7 Gap:** G7 nations account for **only 11%** of this prospective capacity, despite controlling **50% of the global wealth**.
- **Operating solar and wind power capacity:** China has passed 1.6 TW of operating wind and solar projects. India ranks third globally, with more than 163 GW of operating wind and solar capacity.
- **Solar Composition:** Distributed solar now comprises **42%** of **global** solar capacity, though deployment remains unevenly concentrated in a few key markets.

Corruption Perceptions Index



The 2025 Corruption Perceptions Index reveals **worsening global corruption**, with **number of countries scoring above 80 dropping from 12 to just five in a decade**.

About Corruption Perceptions Index

- **Released by:** Transparency International.
- **Methodology:** It evaluates **182 countries** based on perceived public sector corruption, using a scale from **zero (highly corrupt) to 100 (very clean)**.
- **Least Corrupt nations:** Denmark, Finland and Singapore.
- **Most Corrupt nations:** South Sudan, Somalia and Venezuela.
- **Performance of India:** Rank improved from **96 (2024) to 91 (2025)**.

Arctic Sentry

North Atlantic Treaty Organization (NATO) launched a new mission, Arctic Sentry, to bolster security in the Arctic.



- NATO is a **political and military alliance** created in **1949** after signing the **North Atlantic Treaty**.
- Currently has **32 members** and is **headquartered in Brussels, Belgium**.

About Arctic Sentry

- **Led by: Joint Force Command Norfolk (JFC Norfolk)** that serves as a bridge between North America and Europe for NATO.
- **Strategic Purpose:** Safeguard NATO members, protect territory, and maintain stability in challenging scenarios like increased military activity from Russia and growing interest from China.

Announcement of Biopharma SHAKTI

Union Finance Minister announced 'Biopharma SHAKTI (Strategy for Healthcare Advancement through Knowledge, Technology & Innovation)'.



About Biopharma SHAKTI

- **Objective:** Develop India into a global biopharmaceutical manufacturing hub by building the ecosystem for domestic production of biologics and biosimilars.
 - **Biologics** are class of medicines which are made from natural and living sources like animal and plant cells, and microorganisms. These include vaccines, blood and blood components, somatic cells, gene therapy, proteins etc.
 - **Biosimilars** are copies of biologics that are highly similar to biologics and have no clinically meaningful differences from the reference product.
- **Funding:** Outlay of ₹ 10,000 crores over the next 5 years.
- **Strategy:**
 - Biopharma-focused network with **3 new National Institutes of Pharmaceutical Education and Research (NIPER)** and upgrading 7 existing ones.
 - Creating a network of over **1000 accredited India Clinical Trials sites**.
 - **Strengthening the Central Drugs Standard Control Organisation (CDSCO)** to meet global standards and approval timeframes through a dedicated scientific review cadre and specialists.
- **Potential Outcomes:**
 - Catalysing investments in **advanced biomanufacturing infrastructure**, promote innovation and enhance India's capabilities in high-value, next-generation therapies.
 - Enhancing the **quality and credibility of clinical research** in India, and accelerating drug development timelines.
 - Developing a **highly skilled workforce**, promoting industry–academia collaboration, and supporting the growth of a globally competitive biopharmaceutical sector.

India's Bioeconomy

- **Bioeconomy** uses renewable resources like plants, animals, and microorganisms to produce food, energy, and industrial goods.
- India's bioeconomy grew from **USD 10 bn (2014) to USD 165.7 bn (2024), targeting USD 300 bn by 2030**.
- It contributes **4.25%** to the national GDP.
- India's bioeconomy is **powered by four key subsectors**: BioIndustrial (47%), BioPharma (35%), BioAgri (8%), and BioResearch (9%).

Kaziranga National Park



A study by Birbal Sahni Institute of Palaeosciences (BSIP) has examined reasons behind decline and present confinement of megaherbivores, especially Indian one-horned rhinoceros to Kaziranga NP.

- Study shows through fossil evidence that the species was once **widely distributed across the Indian subcontinent**, but this distribution greatly **reduced since the Holocene**.

About Kaziranga National Park

- **Geography:** Located in Assam's **Brahmaputra floodplains** between the Brahmaputra River and the Karbi (Mikir) Hills in Assam, India.
- **Status:** Declared **UNESCO World Heritage Site in 1985** and a **Tiger Reserve**.
- **Biodiversity:** The park hosts two-thirds of the world's one-horned rhinos, Tiger, Elephant, Asiatic Water Buffalo, and Eastern Swamp Deer.
- **Conservation:** Established as a **Reserve Forest in 1905**, it is now an recognized **Important Bird Area** by birdlife international.

Turtle Trails

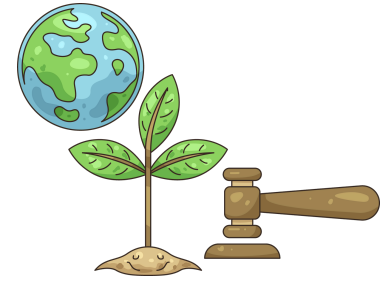
The Union Budget's 'turtle trails' announcement has drawn apprehension from conservationists and wildlife researchers.



Turtle Trails

- **Budget Proposal:** The Centre plans **ecologically sustainable Turtle Trails** along key coastal nesting sites in Odisha, Karnataka, and Kerala.
- **Ecological Threat:** Experts argue **Arribada** (mass nesting) sites must remain **no-go zones**, as artificial light and movement disorient turtles.
- **Conservation vs. Tourism:** Researchers warn against building infrastructure at critical rookeries like Rushikulya, **citing past ecotourism failures in sensitive habitats**.
- **Sustainability Path:** non-invasive infrastructure, low carbon impact, community engagement.

Weakening of India's Environmental Laws



Of late, systematic "watering down" of environmental protections have been observed, characterized by the judicial recall of progressive judgments, the adoption of reductionist definitions for protected areas (such as the Aravalli hills), etc.

Systematic Dilution of Environmental Regulation

- **EIA Process Undermined:** Since December 18, 2025, for non-coal mining projects, land acquisition can occur before an Environmental Impact Assessment (EIA), and EIAs can be conducted without specific details regarding location and area.
- **Judicial recalls:** The recall of **Vanashakti vs Union of India (2025)** diluted the ban on retrospective clearances, signalling a retreat from pro-environment jurisprudence.
- **Aravalli Hills Controversy:** The Court accepted a 100-metre height-based definition, excluding large ecologically vital areas from protection impacting violation of Article 21, weakens article 48A.
- **Mangroves & Coastal Ecology:** Judicial approval for destruction of mangroves (e.g., Raigarh, Maharashtra for Adani Cementation Ltd.) reflects reliance on compensatory afforestation, which ignores ecological science.
- **Strategic Defense vs. Ecology:** Court allowed wider roads based on strategic defense needs despite recognizing the area's ecological importance. (**Citizens for Green Doon vs Union of India, 2021**).
 - This "balancing act" has been linked to subsequent flash floods and ecological disturbances in Uttarakhand.

Constitutional and Jurisprudential Implications

- **Constitutional provisions at risk:** Article 14 (principle of non-arbitrariness and equality before law), Article 21 (right to clean and healthy environment), **Article 51A(g)** (fundamental duty of citizens to safeguard the environment), etc.
- **Erosion of Public Trust doctrine:** Established in **M.C. Mehta vs. Kamal Nath (1996)**, the **Public Trust Doctrine** asserts that natural resources belong to the state in trust for the people and cannot be sold for private exploitation.
 - Current judicial trends that approve environmental degradation appear to contradict this foundational jurisprudence.

New 'bio-warrior' Marine Worm Species



Researchers from the Zoological Survey of India (ZSI) have uncovered two remarkable new 'bio-warrior' marine worm (polychaetes) species from the coasts of West Bengal.

- Known as 'bio-warrior' as they thrive where other life withers.

About New Marine Worm Species

- **Namalycastis solenotognatha:**
 - Named for its "channeled jaw" structure.
 - Found in sulfide-rich, foul-smelling mudflats and decaying mangrove wood.
 - Adapted to extreme and polluted environments.
- **Nereis dhritiae:**
 - Named after the first woman director of ZSI, Dhriti Banerjee
 - Found inside wooden dock piles on sandy beaches.
 - Survives in areas submerged during high tide.

Tea Board of India



According to Tea board of India, India witnessed highest-ever tea exports (280.40 million kg) in 2025.

- Tea is a **perennial evergreen crop**.
- It requires **well drained soil with high amount of organic matter, pH 4.5 to 5.5 and Optimum temperature of 20 – 27 degree C**.

About Tea Board of India (HQ: Kolkata)

- **Statutory body:** Constituted in 1954 under the Tea Act 1953.
- **Ministry:** Ministry of Commerce and Industry.
- **Board:** Comprises of **31 members** (including Chairman) from Members of Parliament, tea producers, traders, brokers, consumers, etc.
 - Board is **reconstituted every three years**.
- **Key Functions:** Financial and technical assistance for **cultivation, manufacture and marketing of tea, export promotion**, etc.

Mangrove Clams

ICAR–Central Marine Fisheries Research Institute (CMFRI) has successfully achieved induced breeding of mangrove clam (*Geloina Erosa*) under captive conditions.

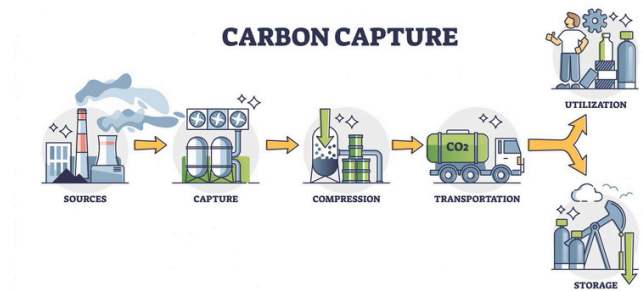


About Mangrove Clam

- Mangrove clams, commonly known as **mud clams**, are **ecologically important but dwindling bivalve species** distributed across mangrove and estuarine ecosystems in South and Southeast Asia.
 - **Bivalves** are diverse group of mollusks that include clams, oysters, scallops and mussels.
 - These have **two shells** and live in both freshwater and saltwater.
- Inhabits **organic-rich muddy substrates**; ecologically important for **nutrient recycling and sediment stabilisation**.
- Supports **coastal livelihoods and food security** (locally called *Kandal Kakka* in parts of Kerala).

Carbon Capture Utilization and Storage

Aligning with Department of Science and Technology's CCUS Roadmap 2025, CCUS technologies at scale will achieve higher readiness levels in end-use applications across five industrial sectors, including, power, steel, cement, refineries and chemicals.



About CCUS

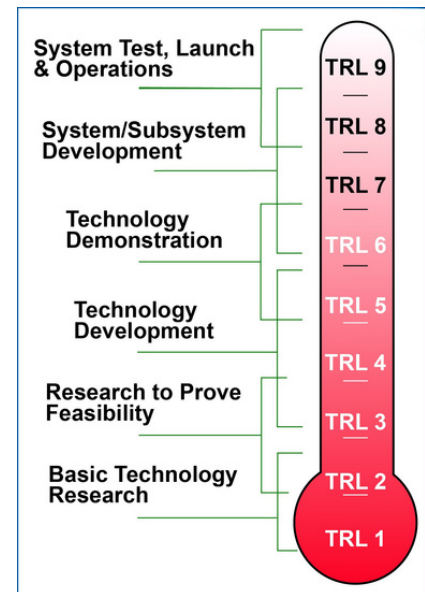
- **CCUS:** CCUS involves the **capture of CO₂**, generally from large point sources like power generation or industrial facilities that use either fossil fuels or biomass as fuel.
 - If not being used on-site, the **captured CO₂ is compressed and transported** to be used in a range of applications, or **injected into deep geological formations** such as depleted oil and gas reservoirs or saline aquifers.
- **Technologies:** Chemical Solvent-based Absorption, Cryogenic Separation, Direct Air Capture, Enhanced Oil Recovery, Bio Energy Carbon Capture and Storage etc.
- **Need:**
 - **Tackling emissions in hard-to-abate sectors**, particularly heavy industries like cement, steel or chemicals.
 - **Enablement of least-cost low-carbon hydrogen production**, which can support decarbonisation of different sectors.
 - **2050 global net zero target** requires at least 1 billion tonnes per year CCUS capacity by 2030.
 - **Making products competitive** in external markets in the wake of carbon-related tariffs like CBAM.
- **Challenges:** Insufficient technological maturity, prohibitive cost along its entire value chain (especially carbon capture), limited testing and scaling of technologies and insufficient funding.

DST's CCUS Roadmap

- **Phase 1 (2025-2030):** Support breakthrough research programs for materials discovery, creation of few critical research facilities, support pilot-scale projects etc.
- **Phase 2 (2030-2035):** Initiate implementation of hub and cluster model, draft national CCS regulations, accelerate mineralization projects in basalt formations/Deccan Trap, create carbon market linkages etc.
- **Phase 3 (2035-2045):** Develop two commercial scale CCS hubs in industrial clusters, integrate CCS with India's hydrogen economy initiatives and complete regulatory frameworks for CCS commercialization.

Research, Development and Innovation (RDI) Scheme

First Technology Development Board (TDB) call under RDI Fund focuses on supporting projects at Technology Readiness Level (TRL) 4 and above.



- TRL is a measure of **estimating technology maturity** of core technologies until these technologies, or products utilizing them, attain market readiness.
- Originally **introduced by NASA**, the TRL scale is a metric with nine TRLs for describing the maturity of a technology from **ideation stage (TRL-1)** to **highest degree of application/commercial readiness (TRL-9)**.

About RDI Fund

- **Special Purpose Fund under RDI Scheme** which is a flagship initiative under Department of Science and Technology (DST).
- **Objective:** Accelerating investment in India's RDI ecosystem and support private sector enterprises, startups, and industries working in sunrise and strategic sectors to transform ideas into globally competitive technologies and products.
- **Corpus:** Rs.1 lakh crore over six years.
 - **Mode of Funding** include **Loans** (long tenure collateral free) upto 50% of fund requirement, **Equity participation** upto 25% of assistance sought, and **Debt to Equity Conversion** at a later date.
- **Priority Sectors:**
 - Energy Security, Transition and Climate Change
 - Deep Technology (Quantum, Robotics and Space)
 - Artificial Intelligence for Indian Applications
 - Biotechnology and Medical Technologies
 - Digital Economy and Digital Agriculture

Sodium Ion vs. Lithium Ion Battery

Amid rising EV adoption and energy storage needs, India is rethinking its battery strategy to reduce dependence on lithium-ion technology and strengthen energy security.



Sodium-ion battery vs Litium Ion Battery

Aspect	Sodium-ion Batteries (SiB)	Lithium-ion Batteries (LiB)
Raw Material	Uses abundant sodium (e.g., soda ash)	Depends on relatively scarce lithium, cobalt, nickel, and graphite
Energy Density	Slightly lower energy density	Higher energy density
Safety	Safer; lower thermal runaway risk; can be stored at zero volts	Higher fire risk; classified as dangerous goods
Supply Chain	Low geopolitical risk; widely available materials	High import dependence; globally concentrated supply chain
Charging Speed & Lifecycle	Charges faster; up to three times higher lifecycle	Slower charging rate; comparatively smaller lifecycle

Technology-driven Border Management

Highlighting modernization of Defence forces, he asserted that advanced tech is essential to achieve the goal of zero infiltration.



merging Challenges to Border Management

- **Use of Technology: Asymmetric Threats** such as surge in **drone** incursions dropping **narcotics and weapons**, particularly in the western sector.
- **Cyber & Electronic Warfare**: E.g. attacks on border surveillance infrastructure and communication networks.
- **Terrain**: Managing **unfenced gaps** in difficult terrain like the **shifting eastern riverine borders** and marshes of Gujarat.

Role of Technology in Border Management

- **Smart Fencing**: Comprehensive Integrated Border Management System (**CIBMS**) to plug gaps where physical fences are not feasible. E.g. **BOLD-QIT** (Border Electronically Dominated QRT Interception Technique) along Bangladesh border.
- **Anti-Drone Systems**: Integration of jamming and detection tech to **counter** aerial threats. E.g. IG T-Shul Pulse Anti-Drone System
 - **V.O. Chidambaranar Port**, Tamil Nadu India's first port to initiate installation of advanced 'Anti-Drone System'.
- **Communication and Data Systems**: Secure satellite and digital communication networks, Real-time command centers and AI-based analytics assist Inter-Agency Coordination.
- **Vibrant Village Programme (VVP)**: To enhance digital and physical connectivity in border villages, turning them into the "first villages" of India.

Border Management in India

- **Scale**: India has a **15,106.7 km land border** with seven nations and a **coastline of 11,098.89 km**.
- **Framework**: The Department of Border Management (**Ministry of Home Affairs**) operates on the **One Border, One Force principle**.
- **Forces**: Key agencies include-
 - **Border Security Force (BSF)** (Pakistan/Bangladesh),
 - **Indo-Tibetan Border Police (ITBP)** (China),
 - **Sashastra Seema Bal (SSB)** (Nepal/Bhutan), and
 - **Assam Rifles** (Myanmar).

National Quantum Mission



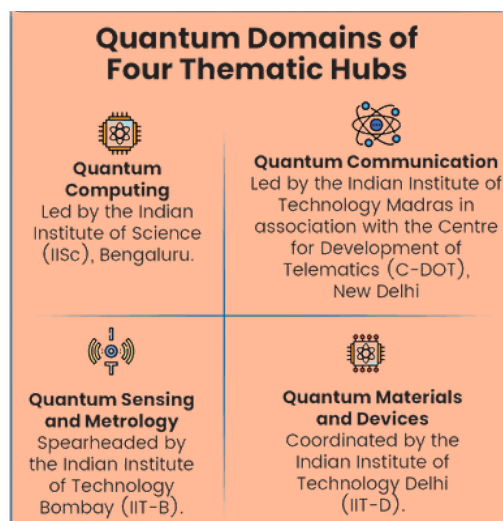
Amaravati is being developed as a major hub for quantum research and innovation, under National Quantum Mission.

About National Quantum Mission (NQM)

- **Aim:** To seed, nurture and scale up scientific and industrial R&D and create a vibrant & innovative ecosystem in Quantum Technology (QT).
 - **Quantum Technology** uses qubits as the basic unit of information instead of binary bits (0 and 1).
- **Budget Allocation:** ~₹6,000 crore (2023–24 to 2030–31)
- **Objectives**
 - **Developing intermediate-scale quantum computers:** With 20-50 physical qubits within 3 years, scaling up to 1,000 qubits within 8 years.
 - **Quantum Communications:** Satellite-based secure communications over 2,000 km and inter-city Quantum Key Distribution (QKD) networks.
 - **Advanced Sensing & Metrology:** Creating high-sensitivity magnetometers and atomic clocks for precision navigation.
 - **Synthesizing next-gen materials:** Like superconductors and topological materials for fabricating qubits.

Significance of NQM

- **Strategic and security Necessity:** Facilitate unhackable quantum encryption and QKD to protect defense, banking, and digital infrastructure.
- **Global Standing:** Positions India among a select group of elite nations with dedicated quantum missions.
- **Sectoral Transformation:**
 - **Healthcare:** Enable precision radiation therapies, faster drug discovery, and personalized medicine.
 - **Economy:** Expected to drive job creation, support startups, and boost India's space economy.



Bharat GenAI

Bharat GenAI will complete text models in all 22 scheduled languages this month as per Union Minister of State (Independent Charge) for Science and Technology.



BharatGen

GenAI for Bharat, by Bharat

- Currently, supports **15 Indian languages**.

About Bharat GenAI

- **First government supported national initiative** to develop a range of sovereign **foundational AI models** tailored to Indian languages and societal contexts.
- Spans multiple modalities, including text (Large Language Models), speech (Text-to-Speech and Automatic Speech Recognition), and vision-language systems.
- **Spearheaded by: IIT Bombay**, with participation from several other institutions.
- **Active Technology Innovation Hubs (TIH):** In **IIT Bombay** and **IIT Madras** under **National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS)**.

Agni-III

India successfully test-fires Agni-III intermediate-range ballistic missile from Integrated Test Range in Odisha



About Agni-III

- **Developed by:** Defence Research and Development Organisation (DRDO)
- **Specification:** It is a two-stage, solid-fuelled ballistic missile
- **Range:** >3000 km
- **Warhead:** It is capable of carrying both conventional and nuclear warheads.

CAR-T Cell

A new study has shown a gentler way to recover lab-grown T-cells without damaging them.

About T-cells

- They are **white blood cells that detect infections** and abnormal cells like cancer.
- They either **kill diseased cells directly or activate other immune cells**.
- Their precision makes them **central to modern immunotherapy**.

What is CAR T-cell therapy?

- Doctors collect **T-cells from a patient's blood**.
- In the lab, these cells are **genetically modified to carry Chimeric Antigen Receptors (CARs)**.
- CARs act like **targeting systems, helping T-cells recognise cancer cells**.
- The engineered cells are **multiplied and infused back into the patient**.

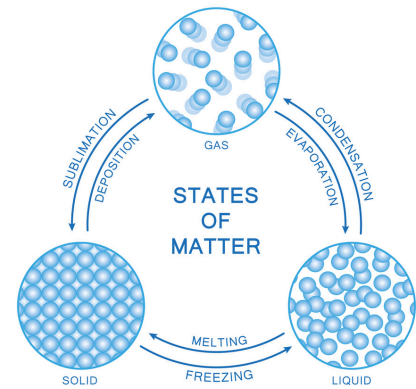
Phases of matter

In a study scientists observed a reversible phase transition from superfluid to supersolid for the first time ever.

- It will help understand quantum phase transitions, explore new states of matter, **advance quantum materials science** etc.

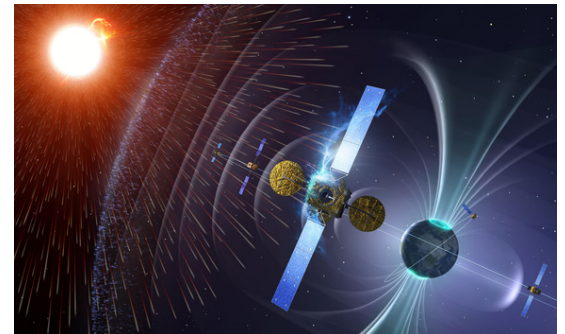
About Phases of matter

- **There are four states of matter:** solid, liquid, gas and plasma.
- **But there are other possibilities such as,**
 - **Superfluid:** A rare quantum state of matter in which a fluid flows without any friction or viscosity.
 - **Supersolids:** Rare and exotic quantum state of matter that behave like a solid and a superfluid at the same time.



Space Situational Awareness

Indian aerospace firm Azista Space successfully demonstrated "in-orbit snooping" (or "space watch") by capturing images of the International Space Station.

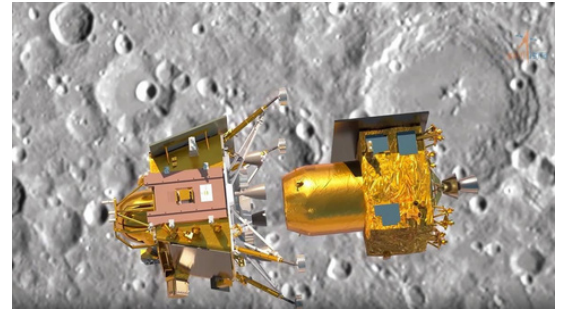


- This strengthens the country's space **situational awareness capabilities**.

About Space Situational Awareness (SSA)

- It is a **comprehensive monitoring, tracking, and prediction** of man-made satellites, space debris, and natural objects (like asteroids) in Earth's orbit.
- **Significance:** Ensure the safety and sustainability of space activities by analysing potential collisions and enabling avoidance maneuvers.
- **Initiatives of ISRO:**
 - Network for space objects TRacking and Analysis (NETRA) project
 - IS4OM (Space Situational Awareness Control Centre) at Bengaluru.

Chandrayaan-4 and Mons Mouton



Chandrayaan-4 Mission identified Mons Mouton, a location on the Moon to land its lander.

- Chandrayaan-4 will be **India's fourth mission** to Moon that will demonstrate taking off from the lunar surface after collecting surface samples, and bringing back the same to the Earth.
- The planned timeline for **Chandrayaan-4 mission is 2027.**

About Mons Mouton

- Mountain near **Moon's south pole**, known informally as **Leibnitz Beta**, named after NASA mathematician and computer programmer Melba Roy Mouton.
- **Key Features:** Flat-topped spanning almost **100 kilometres** and rises roughly 6000 meters above the surrounding terrain.

Kyasanur Forest Disease

Indian Council of Medical Research (ICMR) initiated human clinical trials towards developing an improved vaccine against KFD.



About KFD

- **Viral Disease** caused by **KFD virus**. First reported in 1957 in **Shimoga District, Karnataka**.
 - **KFD virus** is a member of the genus **flavivirus** and family **Flaviviridae**.
- Found in **Karnataka, Tamil Nadu, Kerala, Goa, and Maharashtra states of India**.
- **Spread to people:** Primarily occurs through **tick bites** [Hard ticks (*Hemaphysalis spinigera*)] who spread the virus to people and animals like rodents and monkeys.
- **Other Features:** prevalent mainly in the **dry season of November to June**.

NLST and NLOT

The 2026 Union Budget has sanctioned the establishment of two new telescopes to study the sun and the origins of the universe in Ladakh



About the Two New Telescopes

- **National Large Solar Telescope (NLST):** A 2-metre aperture telescope in Merak (Ladakh) to study solar dynamics, magnetism, and space weather.
 - Once operational, NLST will serve as India's third ground-based solar observatory.
 - Currently, the Kodaikanal Solar Observatory (in Tamil Nadu, established 1899) and the Udaipur Solar Observatory (in Rajasthan, established 1975) are operational.
- **National Large Optical Telescope (NLOT):** A 13.7-metre segmented-mirror telescope in Hanle (Ladakh). It will research exoplanets and the universe's origins using optical-infrared wavelengths.

Lysosomal Storage Disorders

Researchers from 28 institutions across six States and two UTs have compiled India's first government-supported national biobank for Lysosomal Storage Disorders (LSDs).



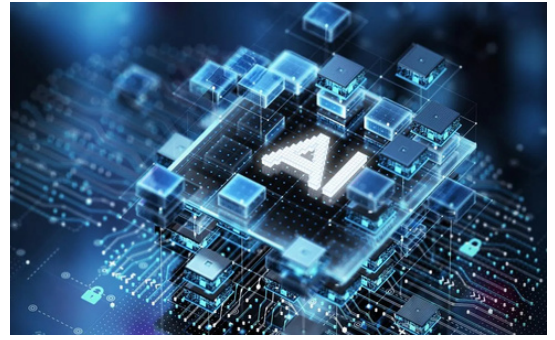
- **Biobank** is a special facility where biological samples like blood, tissue, or DNA are collected and safely stored along with health information.

About Lysosomal Storage Disorders (LSDs)

- LSDs are a group of **inherited metabolic diseases** arising due to defects in **genes** encoding **lysosomal proteins**.
- LSDs cause a buildup of toxic materials in the body's cells.
- Treatment options are **limited and extremely costly**, with **many LSDs having no cure yet**.

Note: Lysosomes are **membrane-bound organelles**, also called the “**suicidal bags**” of the cell, contain digestive enzymes to break down waste and recycle cellular components.

India's strategy to democratize AI



Democratization of AI refers to making artificial intelligence accessible, affordable and usable for a wide and diverse set of users.

- It goes beyond access to finished applications. It includes **access to the core building blocks of AI** such as computing power, datasets and model ecosystems.

Key Pillars of AI Democratization

- **Democratizing AI Applications for Public Impact:** Such as Bhashini (Enabling Language Access through AI), Kisan e Mitra for aiding farmers, MausamGPT for disaster management etc.
- **Accessible Data and Models:** The national platform **AIKosh** serves as a shared resource, offering over 7,500 datasets and 273 reusable models to developers.
- **Affordable Computing Power:** **IndiaAI Mission** has onboarded over **38,000 high-end GPUs** available at a subsidized rate of **₹65 per hour**, significantly lower than the global average.
- **Robust Infrastructure & Connectivity:** Widespread AI deployment is supported by **5G services**, which now cover **99.9% of districts** in India
- **Sustainable Energy:** Recognizing the high energy demands of AI, India has aligned its infrastructure with green energy goals, achieving 50% of installed electricity capacity from non-fossil fuel sources by June 2025.

Steps taken for AI Democratization

- **Regulatory and Policy Environment:** GI Cloud known as MeghRaj under Digital India initiative for e-governance, Digital Personal Data Protection Act 2023 strengthens safeguards around personal data.
- **Education, Skilling and AI Literacy:** 5 National Centres of Excellence for Skilling, Skilling for AI Readiness initiative, YUVAi initiative, AI Competency Framework etc.

ISRO Propelling National Development Goals



Indian Space Research Organisation (ISRO) has undertaken a number of projects to aid in National development across various sectors.

Key Development Goals Supported by Space-Based systems

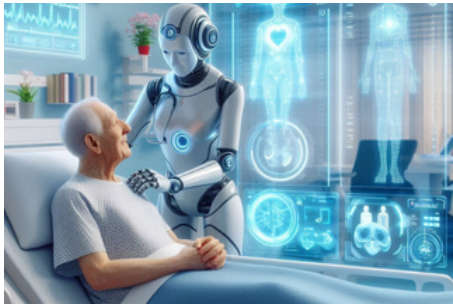
- **Agricultural Development:** **CROP** (Comprehensive Remote Sensing Observation on Crop Progress); support to schemes like **Pradhan Mantri Fasal Bima Yojana (PMFBY)**; etc.
- **Disaster Management:** Monitoring of Glacial Lakes, Mapping of flood affected area; Lightning Nowcasting; Satellite Integrated landslide Assessment and Alert System, etc.
 - **Vessel Communication and Support System (VCSS)** under **Pradhan Mantri Matsya Sampada Yojana (PMMSY)** provides safety-of-life and disaster alerts to fishermen.
- **Climate Monitoring:** Development of **GeoAI Framework** for Air Quality Monitoring; Quantification of **Greenhouse Gas Emission Inventory** for Land Use, Land Use Change, etc.
- **Societal Welfare:** Monitoring of the **Watershed Development Component** – Pradhan Mantri Krishi Sinchayee Yojana (WDC-PMKSY); Monitoring projects under **Pradhan Mantri Awas Yojana-Housing For All (Urban)**, **Bhuvan Geoportal** providing online remote sensing data services, etc.
- **Defence:** E.g., **MOSDAC-IN** (Meteorological and Oceanographic Satellite Data Archival Centre – Indian Navy) web-portal providing customised satellite derived weather products.

India's Space Profile

- **ISRO (Hq: Bengaluru):** Formed in 1969 is India's space agency aiming to harvest the **benefits of outer space for India and mankind**.
 - Major constituent of the **Department of Space (DOS)**.
- **Major Fleet: Active operational launch vehicles:** Polar Satellite Launch Vehicle (PSLV), Geosynchronous Satellite Launch Vehicle (GSLV), Geosynchronous Satellite Launch Vehicle Mk-III (LVM3); **Key Spacecraft Missions:** NISAR; Aditya L1; Chandrayaan-3; etc.

AI in Healthcare

Transforming Healthcare Delivery Through Artificial Intelligence (AI)



Role of AI in Healthcare

- **Disease Management and Diagnostics:** AI is extensively used to overcome specialist shortages and enhance screening capabilities.
 - E.g. MadhuNetrAI for diabetes retinal screening
- **Telemedicine and Remote Monitoring:** AI enhances the reach of medical advice to rural and underserved areas.
 - E.g. eSanjeevani CDSS: AI-based differential diagnosis recommendations
- **Public Health Surveillance and Nutrition:** AI systems are deployed to monitor population health and environmental factors.
 - E.g. Media Disease Surveillance (MDS): Early warnings based on AI scans national digital news sources for symptom clusters
- **Administrative Efficiency and Fraud Detection:** AI streamlines healthcare administration and ensures the integrity of government schemes.
 - **Record Management:** Tools like Eka Doc and Sunoh.Ai use AI and Natural Language Processing (NLP) to summarize patient records

Challenges: Algorithmic bias may affect underrepresented populations, digital divide, accuracy and reliability of AI diagnostics, data security, etc.

Health Priority	AI-Based Initiative	How Technology is Applied	Healthcare / System Impact
 Tuberculosis Control	Treatment Risk Forecasting Model	AI systems identify patients who are more likely to experience unsuccessful treatment outcomes at the start of therapy.	Documented reduction of nearly 27% in negative treatment results.
 Indigenous & Traditional Medicine	Ayurgenomics and National AYUSH Digital Platform	Artificial Intelligence analyzes Prakriti (body constitution) patterns and classical Ayurvedic literature to detect disease indicators.	Appreciated internationally as a benchmark for combining AI with traditional medical systems.
 Oncology Services	National Imaging Repository	A centralized database of over 20,000 cancer cases (radiology and pathology records) is being developed to support AI research.	Facilitates development of precise AI tools for early diagnosis and better cancer management.

Neolithic Age (7000 BCE- 2000 BCE)



A team led by a scholar from the US has unearthed a largely intact human burial site from Neolithic and later periods, in Ballari district of Karnataka.

About Neolithic Age

- It was the **final stage of the Stone Age**.
- It was characterized by **stone tools shaped by polishing or grinding, dependence on domesticated plants and animals, settlement in permanent villages**, and the appearance of pottery and weaving.
- Neolithic cultures of India were **contemporary with Harappan, Chalcolithic and microlith-using hunter-gatherers**.
- **Neolithic sites in India:** Kashmir (Burzahom), Vindhyan region of Prayagraj, Mirzapur and the Belan river valley, The area of northern part of Bihar, Central Eastern region, Assam and the sub-Himalayan region, Peninsular India etc.

Tamil Brahmi Script



Researchers have identified inscriptions in Tamil Brahmi script in Valley of the Kings in Egypt belonging to 1st and 3rd Centuries C.E. shedding light on ancient trade links.

- It mentions names of trader in **Tamil Brahmi script** eg. **Cikai Korran (Crown Leader), Kopan, Catan, Kiraṇ**.
 - Korran is also mentioned in **Sangam literature** where a Chera king is directly addressed as korraṇ.

About Tamil Brahmi Script

- A **variant of Brahmi script** used to write the ancient Tamil inscriptions.
- **Period:** 300 BC and 100 AD.
- **Greatest Work:** Thirukkural.

Scenarios Towards Viksit Bharat and Net Zero

NITI Aayog has released three study reports on Scenario towards Viksit Bharat and Net Zero focusing on an overall roadmap, macroeconomic implications and financing needs.

- **Viksit Bharat 2047:** Envisions making India a developed country and a **USD 30 trillion** economy by 2047.
- **Net Zero Emission Target:** India has committed to achieving **Net Zero** greenhouse gas emissions by 2070.

Key Macroeconomic Implications

- **GDP Resilience, High Investment Need:** Net Zero has limited long-term GDP impact.
- **Shift to Investment-Led Growth:** Economy structurally rebalances from **consumption-led** to **capital-intensive growth** under Net Zero pathways.
- **Industrial Expansion:** Industry GVA rises to ~33% by 2050 driven by **clean energy** and **manufacturing**.
 - Fossil fuel-based manufacturing is projected to contract.
- **Employment Reallocation:** Jobs shift from fossil fuels to renewables, construction, transport and clean manufacturing, with net employment effects modest.
- **Reduced Import Dependence:** The fuel import bill is projected to drop from 4% of GDP today to 0.2% by 2070

Policy Suggestions

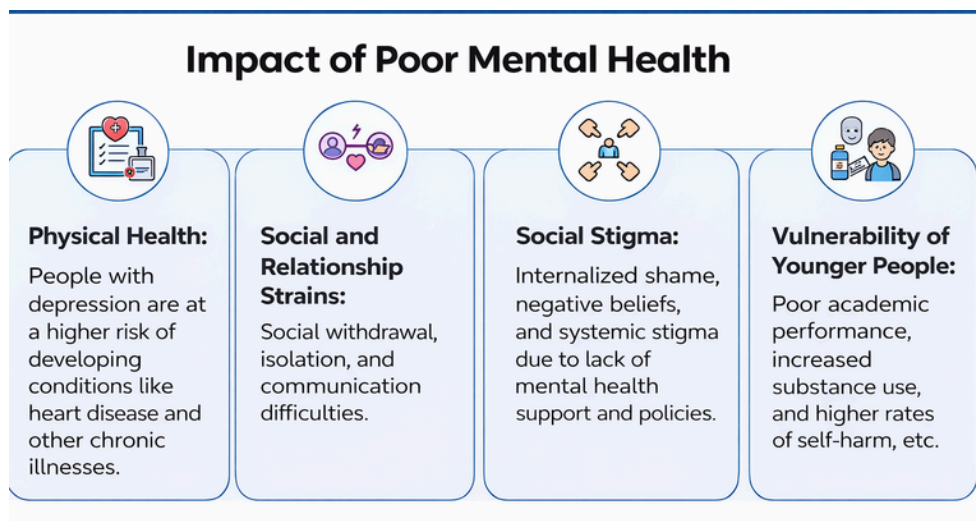
- **Civilisational Sustainability:** Scale traditional low-carbon practices via Mission LiFE, circular economy and efficient design to redefine development around well-being and resilience.
- **Net-Zero Infrastructure Push:** Frontload public investment in grids, urban infra, EVs and logistics, leveraging blended finance and bankable project pipelines.
- **Green Jobs Mission:** Promote labour-intensive green sectors with targeted reskilling and a Green-Digital Skills Stack for future readiness.
- **Green R&D Boost:** Increase public-private R&D to global benchmarks to accelerate clean-tech innovation and deployment.
- **Institutional Strengthening:** Reform DISCOMs and energy institutions, simplify regulations and enable single-window clearances for faster transition.

India's Mental Health Crisis

According to World Health Organisation (WHO), mental health is a state of mental well-being that enables people to cope with stresses of life, realize their abilities, learn well and work.

Mental Health Scenario in India

- **Prevalence: 10.6% of adults** suffer from mental disorders (**National Mental Health Survey (NMHS) 2015-16** by NIMHANS).
 - **70% to 92% of people do not receive proper treatment** due to lack of awareness, stigma, and shortage of professionals.
- **Economic loss:** Estimated at **USD 1.03 trillion** between 2012-2030 (WHO).
- **Prevalence of Suicides:** **171,418 suicides** were reported in 2023 (National Crime Records Bureau (NCRB)).
- **Rising Digital Addiction:** **Addictive behaviour** linked to digital devices, like smartphones, gaming and social media addiction due to near-universal mobile/internet use (Economic Survey 2025-26).



Key Initiatives on Tackling Mental Health In India

- **NIMHANS Act (2012):** Declares National Institute of Mental Health and Neurosciences (NIMHANS), Bengaluru as an Institute of **National Importance**.
 - **Union Budget 2026-27** provides for setting up of a **NIMHANS-2** & upgrading National Mental Health Institutes in Ranchi and Tezpur.
- **National Suicide Prevention Strategy (NSPS), 2022:** Reduce suicide mortality **by 10% by 2030**.
- **Financial Protection:** Through Ayushman Bharat PM-JAY, mental health conditions are covered under Rs. 5 lakh per family annual insurance.
- **Rights of Persons with Disabilities (RPwD) Act:** Expanded the definition of disability to **include mental illness**.
- **National Tele Mental Health Programme (Tele MANAS):** Free, 24/7 mental health support through a national toll-free helpline.

Besides the above initiatives, emphasis on **“whole-of-community” approach**, integrating **mental well-being** into school curricula, strengthening **workplace policies** to address stress and burnout is needed.

Prime Minister Approves Major Schemes

Prime Minister Approves Major Schemes for Women, Youth and Vulnerable Citizens

Key Decisions Taken

PM RAHAT (Road Accident Holistic Action for Treatment) Scheme launched

- **Purpose:** To prevent deaths due to lack of **immediate medical help** by covering expenses for **accident victims**.
- **Coverage:** Cashless treatment of **up to ₹1.5 lakh**.

Lakhpati Didi Initiative: Target revised

- **Target doubled** to support **6 crore Lakhpati Didis by March 2029**.
- The earlier target of 3 crore Lakhpati Didis achieved ahead of the original March 2027 timeline.
- **About Lakhpati Didi Initiative (2023)**
 - **Objective:** To enable rural SHG women to move out of poverty by diversifying livelihoods through skilling, financial inclusion, market access etc.
 - E.g. running small enterprises or livestock management
 - **Definition:** A Lakhpati Didi is an SHG member with a sustainable annual household income of ₹1,00,000 or more.
 - **Ministry:** **Ministry of Rural Development** (under Deendayal Antyodaya Yojana-National Rural Livelihoods Mission (DAY-NRLM))

Startup India Fund of Funds 2.0 (FFS 2.0) approved with a corpus of ₹10,000 crore

- FFS 2.0 for startups, unveiled in the **Budget 2025-26**, focuses on the manufacturing and high-technology sectors, requiring longer-term funding.
- **About Fund of Funds for Startups (FFS)**
 - Flagship initiative of the **Department for Promotion of Industry and Internal Trade (DPIIT)** under the **Startup India Action Plan**.
 - **Managed by:** **Small Industries Development Bank of India (SIDBI)**
 - It supports **SEBI-registered Alternative Investment Funds (AIFs)**, which in turn invest in startups, expanding access to **domestic risk capital** and strengthening entrepreneurship.