GS 3 – ECONOMICS

For UPSC CSE 2026

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Economic Survey

- What to study for Prelims and Mains?
- Prelims Data, Terms, Trends / Graphs ,
 Schemes
- Mains Suggestions esp. Intro and Conclusion from Economic Survey

Economic Survey

- Prepared by DEA under Ministry of Finance under guidance of Chief Economic Adviser
- Present CEA Anantha Nageeswaran
- Presented on Jan 31, a day before Budget presentation

CHAPTERS

- 1. State Of The Economy: Getting Back Into The Fast Lane
- 2. Monetary And Financial Sector Developments: The Cart And The Horse
- 3. External Sector: Getting FDI Right
- 4. Prices And Inflation: Understanding The Dynamics
- 5. Medium Term Outlook : Deregulation Drives Growth
- 6. Investment And Infrastructure: Keeping It
- 7. Industry: All About Business Reforms
- 8. Services: New Challenges For The Old War Horse
- 9. Agriculture And Food Management: Sector Of The Future
- 10. Climate And Environment: Adaptation Matters
- 11. Social Sector: Extending Reach And Driving Empowerment
- 12. Employment And Skill Development: Existential Priorities
- 13. Labour In The AI Era: Crisis Or Catalyst?

6 Pillars of Economy



- 1. Money, Banking and Finance
- Money
- Monetary policy
- Banking sector
- Capital market



- 2. Fiscal Policy
- Budget, Taxation
- Subsidies
- Fiscal deficit



- 3. International economics
- BoP, CAD
- IMF, WB, WTO etc
- Policies affecting India etc.

6 Pillars of Economy







- 4. Sectors of economy
- Agriculture
- Manufacturing
- Services

- 5. Infrastructure
- Transport
- Energy
- •Communication etc.

- 6. Human Resource Development
- Health
- Education
- Skills training
- •Employment etc.

Global Political and Economic Landscape

- Major Elections in 2024: India, USA, Indonesia etc – lead to policy changes – decrease in global GDP
- European Uncertainties: Germany faced two consecutive years of economic contraction, with upcoming elections adding political uncertainty.
 - Europe struggles with competitiveness due to high energy costs linked to renewable energy transitions.
- China's Economic Slowdown: Post-COVID reopening did not trigger expected growth

Challenges and Opportunities for India

- Impact of DeGlobalization: The global retreat from globalization affects India's export-driven sectors.
- Demographic Advantage and Responsibility: India's youthful population offers potential, unlike ageing Europe, but requires job creation and skill development.
- Dependency on China in Critical Sectors: India faces limitations in producing key components for sectors like solar energy, heavily relying on China

CHAPTER 1

State Of The Economy: Getting Back Into The Fast Lane

Global Economic Scenario

- Slowdown in global manufacturing, especially in Europe (Germany & Austria) and parts of Asia, due to weak external demand & need for transitioning to renewable energy
- Weak demand –one reason is world over tight money policy to reduce inflation
- In contrast, the services sector performed better.

Global Economic Scenario

- Ukraine War → ↑ in Energy & food price → inflation
- Israel war & Houthis → ↑ in transportation cost → inflation
- Inflation (due to after COVID boom & wars)
 reduced in most economies, except for
 services inflation. Rate rise for Inflation
 reduction led to Slowdown in GDP worldwide

Global Economic Predictions

- Over next 5 years, yearly average Global GDP growth predicted at 3.2 %
- USA well off
- Europe Manufacturing dependent (Ger, Aus) will suffer while Service dependent countries like Britain, France, Spain will be well off
- China growth a lil weakened real estate sector issues
- Japan as always not growing that much

Global Economic Scenario

- Trade policy uncertainty has increased sharply in recent months Due to TRUMP,
- If uncertainty persists and trade-restrictive measures continue to rise, they could increase costs and prices, deter investment, hinder innovation, and ultimately reduce global economic growth.

Domestic Economy Scenario

- Domestic economy remains steady despite global uncertainties
- India's real GDP is estimated to grow by 6.4% in FY25.
- On supply side, real GVA is also estimated to grow by 6.4%.
- India's GDP at constant (2011-12) prices grew by 6.7% in Q1 and 5.4% in Q2 (election)

Domestic Economy Scenario

- Rural Demand > Urban demand → Good monsoon → bumper Kharif crop → 2, 3wheeler & tractor sales
- Private sector investment remained less due to domestic election year, reduction in global demand & global uncertainties
- Headwinds to growth include elevated geopolitical and trade uncertainties and possible commodity price shocks.

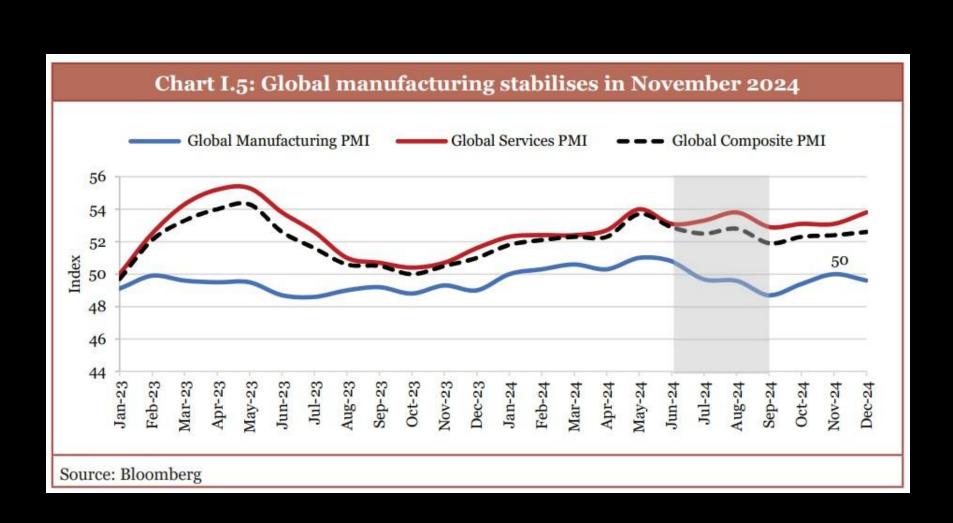
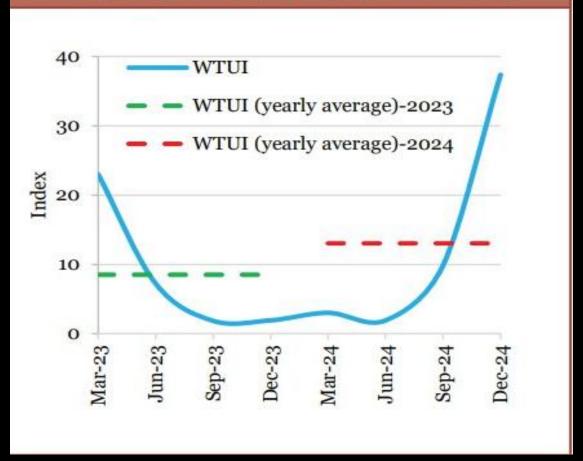
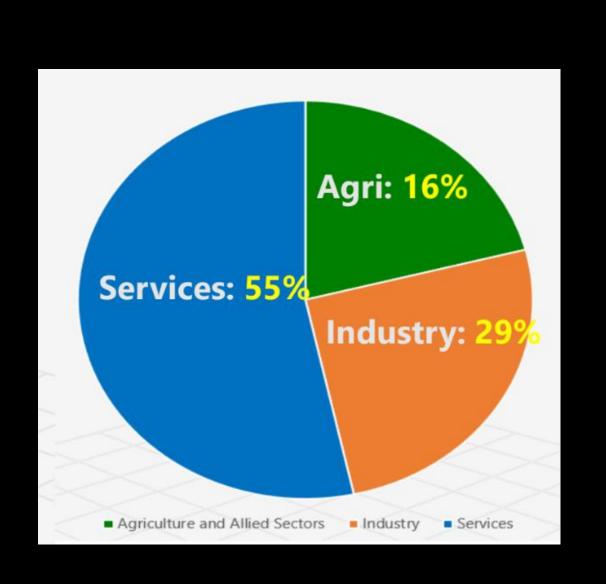


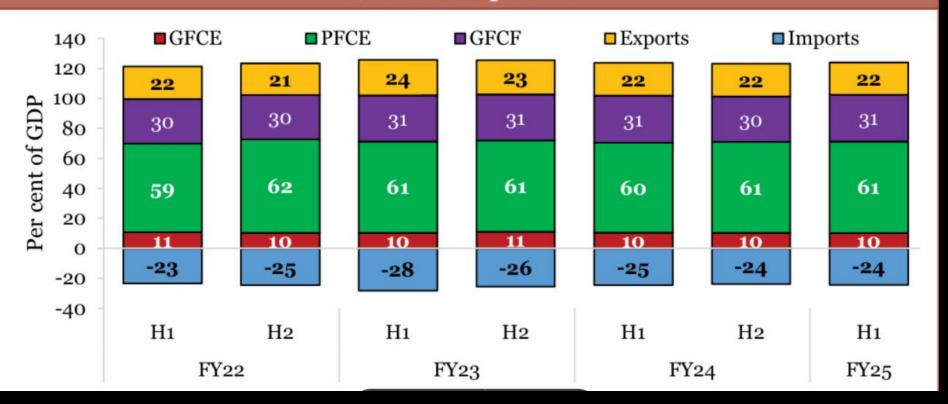
Chart I.19: World Trade Uncertainty Index (WTUI) elevated in 2024





C > I > G > (X-M)

Chart I.31: Steady shares of investment and consumption in GDP (at current prices)



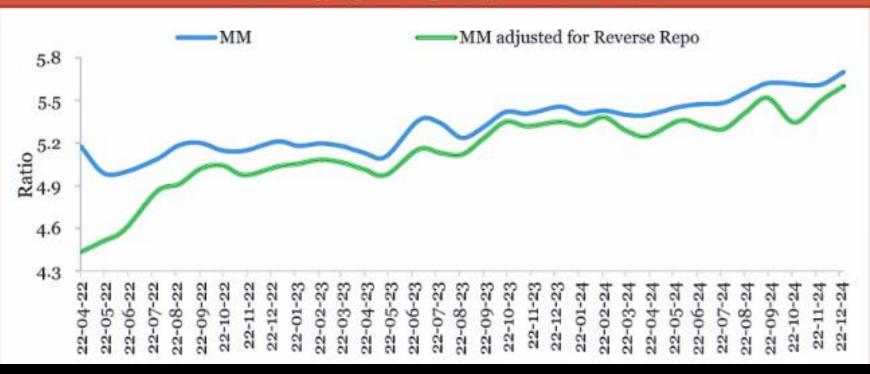
CHAPTER 2

Monetary And Financial Sector
 Developments: The Cart And The Horse

Monetary Policy

- Current inflation = 3.8 %
- April Accommodative stance
- Expected rate cut upto 5.5 by end of this year
- M0 YoY growth ↓ due to past high repo rates
- Money Multiplier 个 -
- 1. $\sqrt{\ln MO}$
- 2. \downarrow in CRR in Dec (leads to \uparrow in M3)
- 3. \uparrow in Banking (digital India) \uparrow in M3

Chart II.1: Higher Money Multiplier as of December 2024, indicating higher liquidity in the market

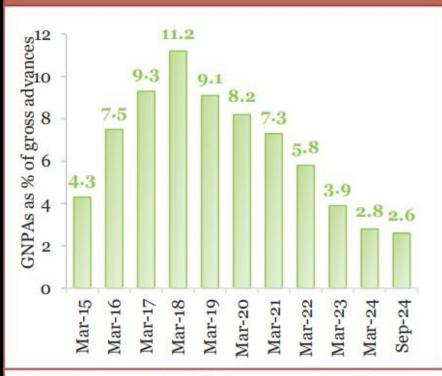


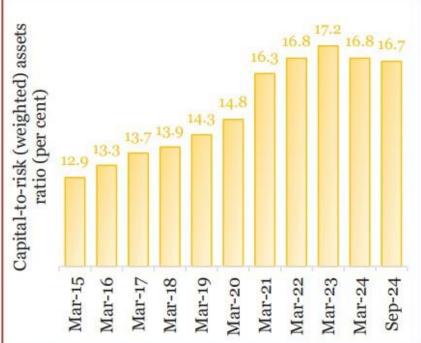
Banking Sector

- Gross NPA @ 12 year low = 2.6 % (ideal = < 5 %)
- CRAR = 16.7 % (RBI norm = 9 %) PC ratio ↑
- PC Provisioning Coverage ratio = how much risk ready are we (similar to CRAR)
- Slippages (slip to pay back loan) ↓ that means less new loans are becoming NPAs Good
- Restructured Standard Advances (RSA) Ratio ↓ Bad



Chart II.3b: CRAR well above the required norms





Source: RBI Financial Stability report, various issues

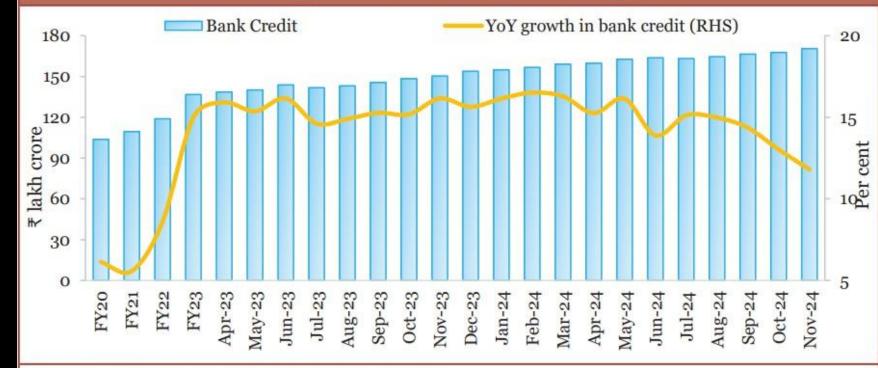
Banking Sector

 Bank Deposits – double digit growth – due to digital India & Financial inclusion

Both DD & TD grew but TD growth > DD growth

Bank Credit - ↑ but YoY growth rate ↓ due to
 ↑ in repo & CRAR requirements for both
 banks & NBFCs



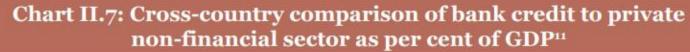


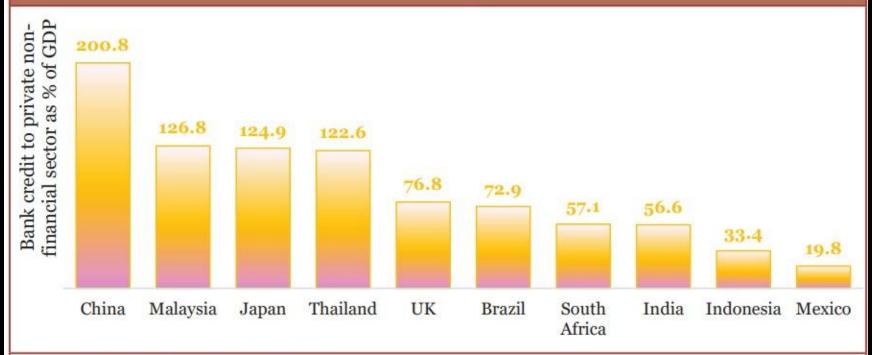
Source: RBI data on sectoral deployment of bank credit

Banking Sector

- India Bank credit to non financial sector businesses – only 56 % of GDP, 44 % goes to financial sector (banks, NBFCs etc)
- In China almost 200 % of GDP goes to Non financial sector

- India Debt market = weak
- Equity market = Strong (boom in last 5 years)
- This is opp to China





Source: Bank for International Settlements

Financial Inclusion

- Financial Inclusion Index of RBI We improved from 53.9 to 64.2%
- RRBs have become profitable at present
- Sustainable Viability Plan To revitalise RRBs

AI in Banking

 Hiroshima AU Process & UK's Bletchely Declaration – responsible AI use

 RBI 's FREE AI framework for Financial sector— Framework for Responsible & Ethical Enablement of AI

Outcomes of IBC code 2016

- Deadline to resolve a case is 180 + 150 grace days
- But avg time taken is 582 days
- IBC is for big corporates
- Similarly, MSMEs have prepack arangement (arbitration possible even before going to court)

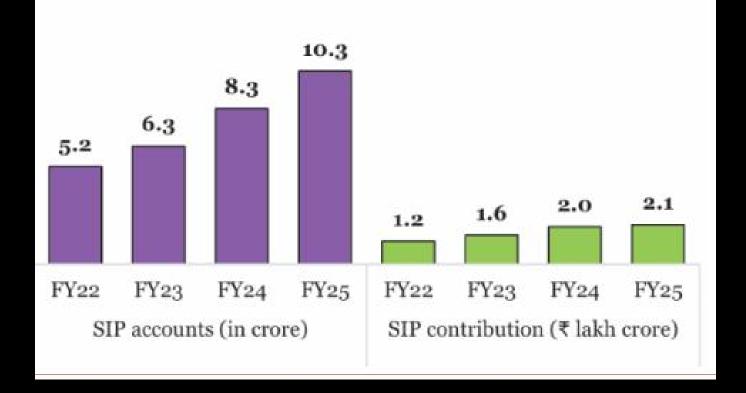
Capital Market

- India's share in global IPO listings surged to 30% in 2024
- Debt market in India remains under capitalised. As a percentage of GDP, the corporate bond market is only 18% in India but 80% in Korea, 36% in China

Capital Market

- Indian stock market has achieved new highs, with intermittent corrections, in the midst of geopolitical uncertainties, currency depreciation
- Deepening retail participation in India led to decoupling of Indian market to FPI outflows / inflows

II.8: Trends in SIP Investment



Insurance sector

- Insurance penetration = Premium / GDP (% of GDP)
- Insurance Density = Premium / population (Rs. per person)
- Life insurance > Non life insurance due to LIC
- Insurance sector presents huge opportunities to expand by targeting tier 2 and 3 cities and rural areas where awareness and accessibility are limited,

Pension sector

- World Economic Forum (WEF) said for the first time in history, globally, the number of people aged 65 and over has surpassed the number of children aged five and younger
- The current young must save more and retire late to get same pensions as current pensioners

Unified Pension Scheme (UPS) vs OPS vs NPS

Chapter 3

• External Sector: Getting FDI Right

Uncertainty in world

- The world is experiencing increasing political and economic uncertainty, increasing trends of geo - economic fragmentation, and recurrent climate events.
- RBI has developed a policy uncertainty index specifically for India, utilising various global indices.

Uncertainty in world

- Disruptions in the Red Sea caused higher shipping costs and longer delivery times.
- Tensions in Hormuz strait increases global petroleum crude costs
- Panama water level fallen due to drought
- De Globalisation
- Friend shoring and near shoring increasing

Unfair Tariff and NTM by US & EU

- US & EU during their 200 years of industrial development – protected their own economy by tariffs – after developing, pushed for globalisation
- Now when we want to develop by protecting our industry – they are imposing counter tariffs & NTMs

Non Tariff Measures (NTMs)

- Import-related NTMs are further classified as "technical" or "non-technical."
- 1. Technical measures comprise sanitary and phytosanitary measures (SPS), technical barriers to trade (TBT), and pre-shipment inspections.
- 2. Non-technical measures encompass traditional trade policies like quotas, subsidies, and trade remedies, including those addressing unfair trade practices.

CBAM

- EU & UK Extend environment rules for imported goods too
- A form of protectionism ↓
- 个 FDI into EU
- ↓ FDI in emerging markets

EU Deforestation Regulation

- It requires the operators and traders to ensure that the products placed in the EU market to be deforestation-free
- India's exports like coffee, leather hide and skin preparations, oil cake, paper, paperboard, and wood furniture could be highly impacted

TOP IMPORT AND EXPORTS OF GOODS FOR INDIA

Top Imports

- 1. Crude oil
- 2. Electronics
- 3. Gold

Top Exports

- Petroleum Refinery
 Products (e.g. paint, polish, asphalt)
- 2. Machine Tools
- 3. Electronics

TOP IMPORT AND EXPORTS OF AGRI - GOODS

Imports

- 1. Oil seeds
- 2. Pulses

Exports

- 1. Cereals
- 2. Marine products
- 3. Spices

India's trade partners

India EXPORTS more to

- 1. USA Top export destination for India
- 2. UAE
- 3. Netherland

India IMPORTS More from

- 1. China
- 2. Russia
- 3. USA
- 4. UAE

Trade Surplus / Deficit With Notable Countries

Trade Deficit (i.e. India imports more but exports less to these nations)

We've large Trade Deficit with

- China (cheap electronics, toys etc.)
- Russia (new addition)
- Middle Eastern nations (esp. lraq)

Trade Surplus (i.e. India imports LESS but exports MORE to these nations)

We've Trade Surplus with

- USA (Chemicals, textile, services etc.)
- Netherlands
- Bangladesh

India's share

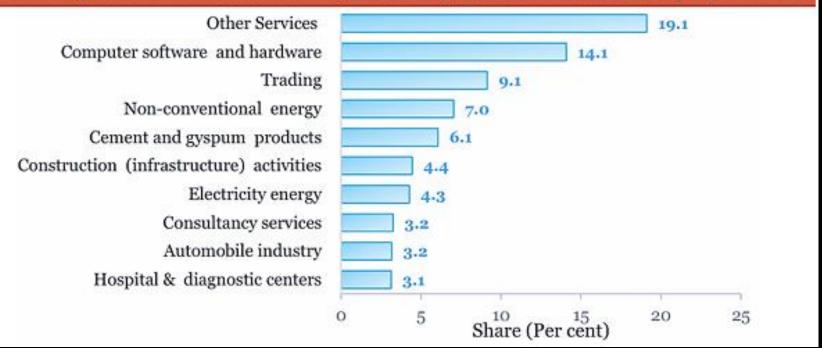
- India's share in Goods export 1.2 %
- India's share in Service export 4.3 %
- India's share in service exports has more than doubled, reaching around 4.3% in 2023 from 1.9% in 2005
- Service Exporter we are 7th largest but in IT, we are 2nd largest after USA
- In service sector, we are lagging in financial services & shipping services

India's position in Current Account

- Balance of Trade (Goods) = Deficit
- Balance in **Invisibles** = **Surplus**
- 1. Trade in Services = Surplus
- 2. Flows of Income = Deficit
- 3. Transfer payments = Surplus (India is world No. 1 in Remittances)
- Overall Current Account = Deficit due to very high deficit in Balance of Trade (Goods)







FDI

- Gross FDI inflow 个but growth in FDI inflow low
- Repatriation (realised return on investment)个
 - good news attract future FDI

FPI

- Overall decrease capital flight due to Trump
- But FPI in Govt bonds ↑ coz of high rating by JP Morgan Emerging Bond Index

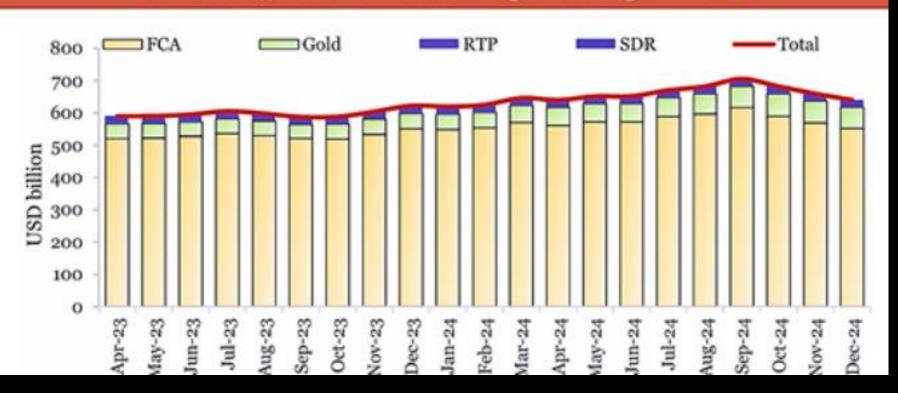
- In bond market,
- 1. Govt bond market—good
- Corporate not good still relying on share market

Forex Reserves

- 700 billion dollars to 640 billion dollars decreased after Sept 2024 (FPI outflows)
- Enough for *import cover of 10.9 months* (ideal 9 months)
- India has secured 4th position in Forex, following China, Japan, and Switzerland

Forex Reserves

Chart III.19: Movements in foreign exchange reserves



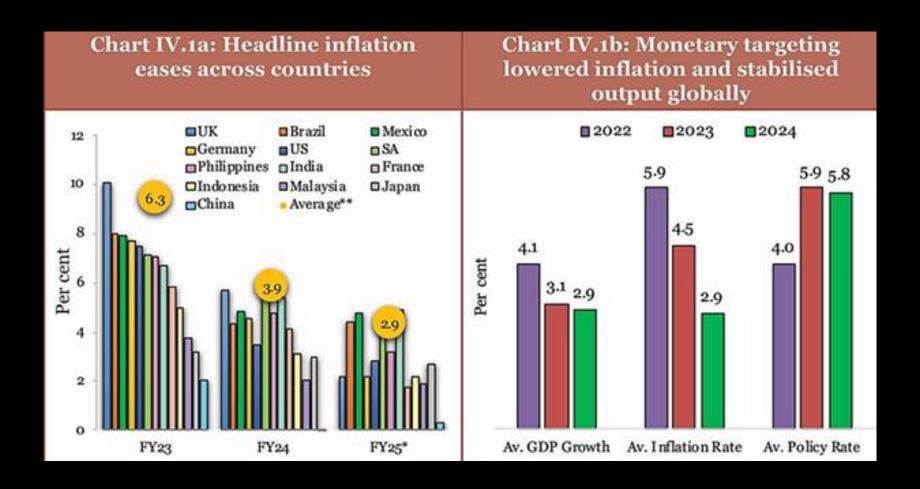
Exchange Rate

- REER ↑ Actual strength of currency after inflation adjustment
- NEER ↓ due to Dollar strengthening not due to Rupee weakening
- External Debt dominated in Dollar > Rupee > SDR

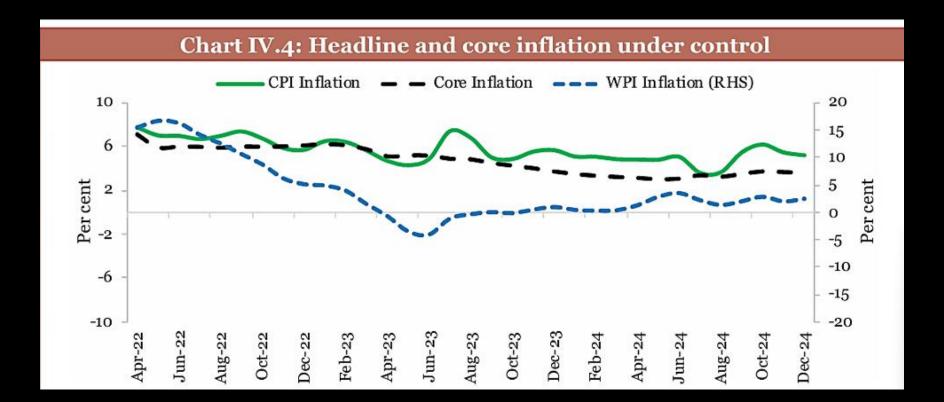
CHAPTER 4

 Prices And Inflation : Understanding The Dynamics

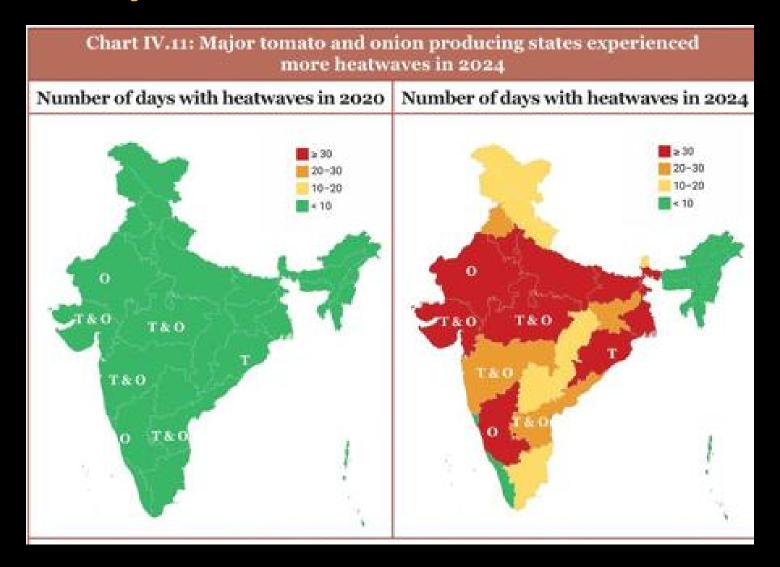
Global – inflation, policy rate & GDP growth



India - Inflation under control

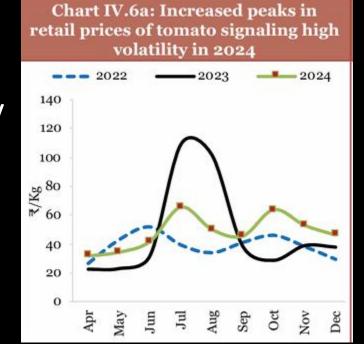


Food inflation – driver of CPI in India esp Onion, Tomato & Pulses



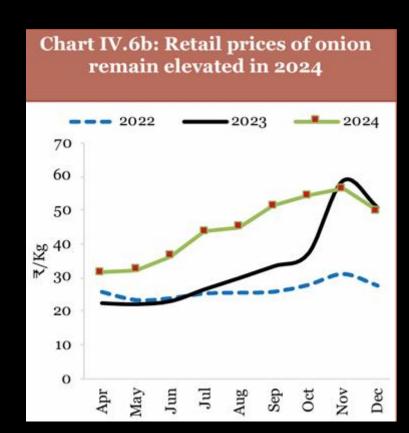
TOMATO

- Tomatoes highly perishable
- Production well spread in all regions with south domination
- Fresh tomatoes shelf life of only about 1-2 weeks
- more than 65% grown in the Rabi season
- tomato prices typically rise from July to September
- 50% of global production happen in India & China – so low options to import



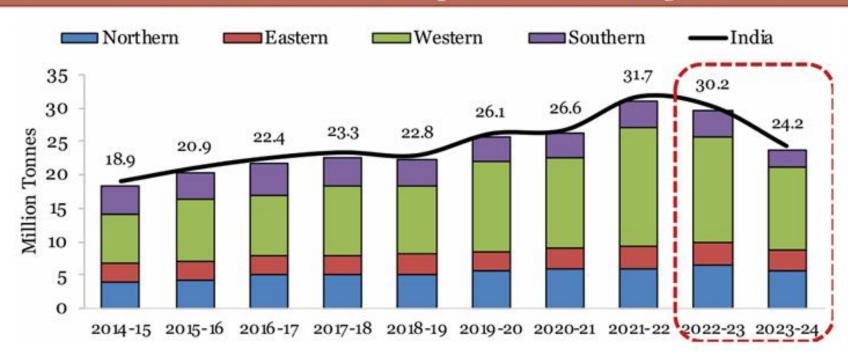
ONION

- Onions are grown in both the Kharif and Rabi seasons,
- 70% of production Rabi season.
- Fresh onions generally last about 2-3 months when with their shelf life further extendable if stored properly
- Onion prices tend to increase from October to December



ONION

Chart IV.12: Trends in onion production across regions



TUR DAL

- Tur dal kharif crop harvested in Nov Jan
- 1-year lagged production, indicating that lower production in one year typically results in higher inflation in the following year.
- To ensure that the produced quantity reaches the market and to prevent stockpiling, the government is taking proactive measures by periodically imposing stock limits for tur, and
- Further, to meet the demand for tur, the country imported tur mainly from Mozambique, Tanzania, Malawi, and Myanmar

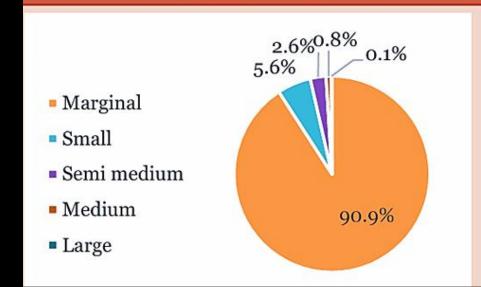
CHAPTER 9

 Agriculture And Food Management: Sector Of The Future

Almost more than 96 % - small & medium farmers

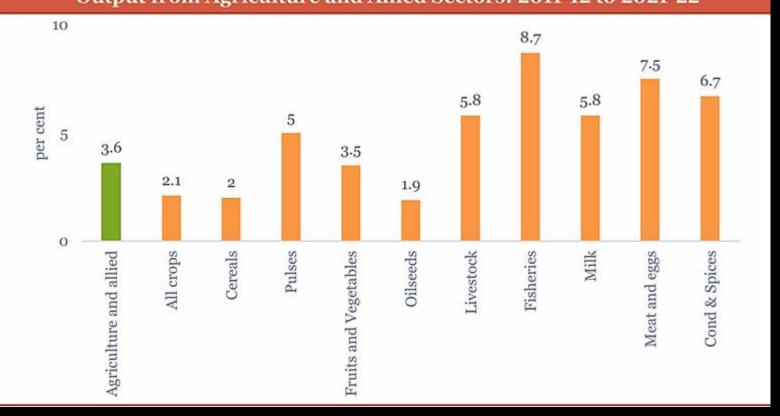
- 16% of the country's GDP
- 46.1% of the population.
- crop yields lower compared to leading producers

Chart: IX.3 Distribution of operational landholdings under floriculture



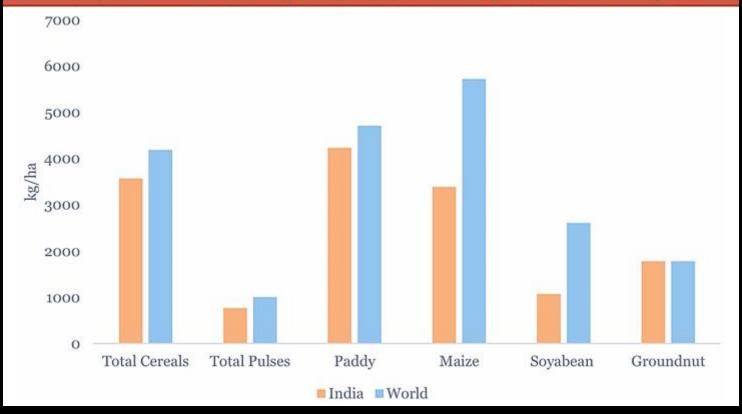
CAGR

Chart IX.2: Compound Annual Growth Rate (CAGR) in Value of Output from Agriculture and Allied Sectors: 2011-12 to 2021-22



India – lower productivity

Chart IX.5: International Comparison of Productivity for Selected Crops, 2022



MSP

- The government has raised the MSP for nutricereals (Shree Anna), pulses, and oilseeds
- MSP for arhar and bajra has been increased by 59% and 77% over the weighted average cost of production
- MSP for Masoor has risen by 89%, while rapeseed increase of 98%

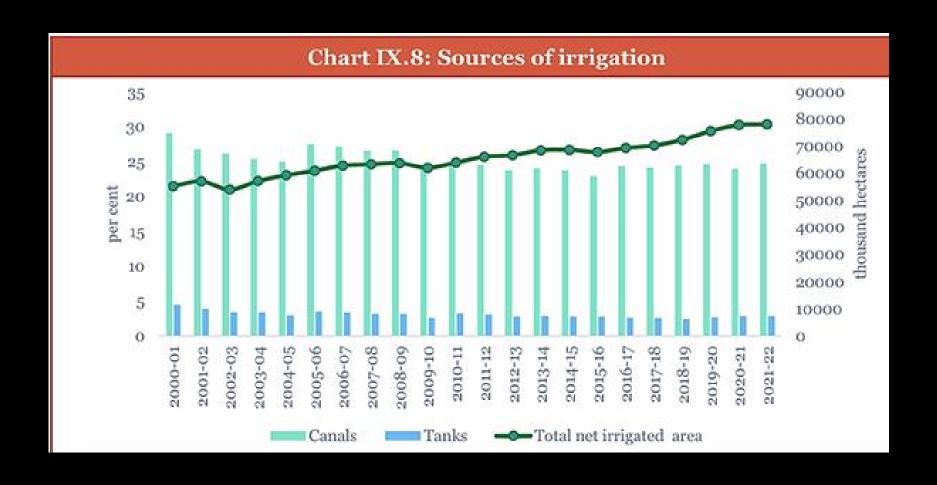
Seed quality & Fertilizer

- Climate resilient seeds produced
- Urea Gold
- Nano Urea
- Nano DAP
- Drone didi for fertigation
- PM PRANAM

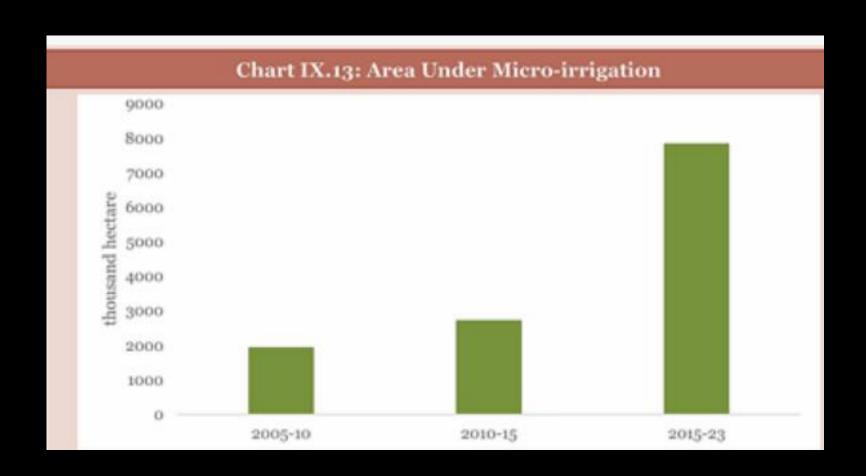
Irrigation

- 55% of the net sown area receiving irrigation
- 45 % Rainfed
- Two thirds of India's agricultural land threat of drought
- Punjab(98%), Haryana (94%), Uttar Pradesh (84%), and Telangana (86%) exhibit high irrigation coverage
- Jharkhand and Assam irrigation coverage below 20%,

Canal irrigation leads the way



Micro irrigation (Krishi Sinchayi Yojana)



Agricultural Credit

- Kisan Credit Card (KCC) collateral free loans to farmers to meet their short-term working
- Modified Interest Subvention Scheme (MISS)-(7% → 3%)
- For faster processing of MISS Kisan Rinn portal

Crop Insurance - PMFBY

Other schemes

- E NAM
- National Mission on Sustainable Agriculture
- Paramparagat Krishi Vikas Yojana (PKVY) and the Mission Organic Value Chain Development for North Eastern Region (MOVCDNER) – for organic farming
- Bhartiya Prakratik Krishi Paddhati (BPKP) natural farming

Allied Sector

- Animal husbandry
- Fishery
- Forestry

Animal husbandry

- Rashtriya Gokul Mission for the development and conservation of indigenous bovine breeds, promotion of IVF technology and sex-sorted semen production, increase the productivity of female cows and encourage the formation of FPOs and SHGs
- Multipurpose AI Technicians in Rural India (MAITRIs) – like ASHAs – for artificial insemination

Fisheries

 Pradhan Mantri Matsya Sampada Yojana (PMMSY) - to boost aquaculture productivity and improve fisheries management

Cooperatives

- Computerisation of PACS to enhance efficiency and transparency.
- Agrl storage warehouse attached to PACs
- New multipurpose PACS dedicated to dairy and fishery cooperatives,
- PACS into Common Service Centres (CSCs),

Food Security

- National Food Security Act (NFSA) 2013 and the Pradhan Mantri Garib Kalyan Anna Yojana
- Aadhaar biometrics at any Fair Price Shop (FPS)
- Credit Guarantee Scheme for electronicnegotiable warehouse receipt (e-NWR)

Chapter 7

Industry: All About Business Reforms

Industry

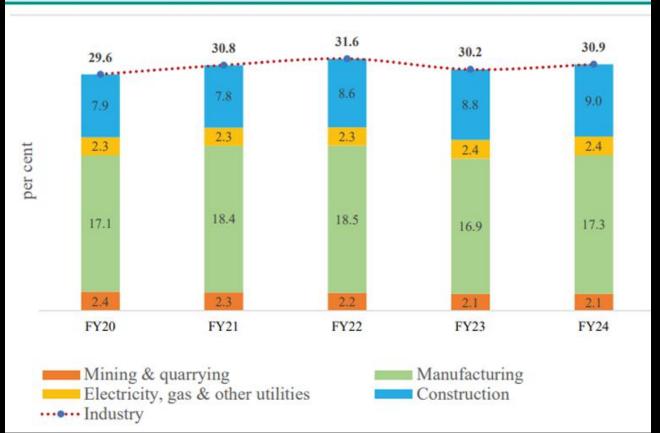
- Global share of India in Manufacturing = 2.8%
- China = 28.8%

Challenges in Manufacturing sector

- Global consumption shift is happening from manufactured goods to services
- political instability
- move towards renewables,
- increased logistics costs and
- regional conflicts.

Manufacturing – highest share in Industry

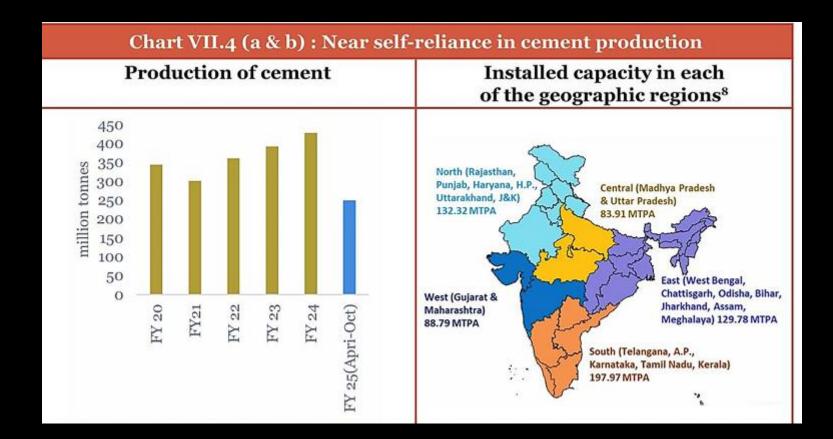
Chart X.1: Share of industry and its Components in total GVA (in constant prices)



Cement

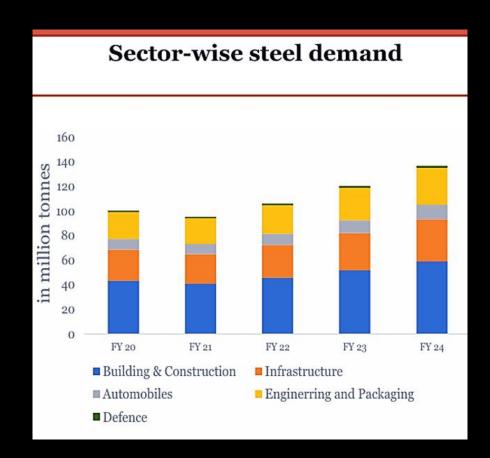
- India is the second largest cement producer in the world after China.
- Rajasthan largest producer
- Region wise South India
- Domestic cement consumption = 290 kg per capita
- Per capita global consumption = 540 kilograms per capita.
- Polluting industry
- Construction industry 2 pillars = Cement & Steel

Cement



Steel

- 2nd largest producer after China
- Still NET IMPORTER
- Emphasis on Green steel which includes scrap steel & renewable steel
- Steel Scrap Recycling Policy



Coal

- 55% of India's primary commercial energy
- 70% of the total power generation.
- Pvt sector participation increased production
- Importer of coke & anthracite

Chemical & Petrochemical

NET Importer

Capital goods

- India import dependent
- SAMARTH Udyog centres (Smart Advanced Manufacturing and Rapid Transformation Hub)— handholding for MSMEs — to adopt to 4th Industrial Revolution (Al, robotics, IoT, 3D printing etc)

Automobile

- Sale of Passenger vehicles (cars) quickly recovered after COVID
- Recovery period for two-wheelers, threewheelers, and commercial vehicles is taking longer
- FAME scheme Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India
- FAME 1 for 2 wheelers
- FAME 2 all others

Electronics

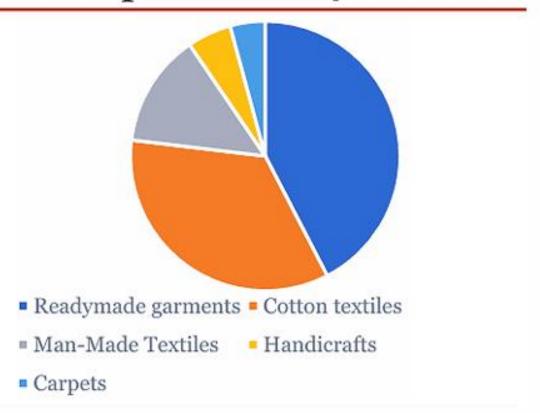
- Surpassed gold in imports
- China dependent
- 99 % smart phones assembled in India
- Chips PLI, DLI

Textiles

- major employment generator and it accounts for about 11% of India's manufacturing GVA.
- Traditionally focused on readymade garments & cotton textiles
- Major issue Supply chain is fragmented
- PM MITRA to create textile parks all at one place
- Need to focus on manmade fibre (MMF) & technical textiles
- India's technical textile industry is rapidly growing, ranking fifth globally.
- 5F framework

Textiles

Share of components in India's textile exports in FY24



Pharmaceuticals

- 3rd largest by volume
- 14th largest by value
- Heavily China dependent for API
- Ethylene glycol & Diethylene glycol for storage
 - global deaths Questions on Quality arise

MSME

- UDYAM registration portal
- Credit Guarantee for MSME loans
- Samadhan & CHAMPIONS portal Dispute resolution
- TReDS (Trade Receivables e Discount System) – can take loan against trade receivables (similar to e- NWR for farmers)
- TReDS regulated by RBI

State wise patterns in Industrial Production

Chart VII.16: State share in total industrial GSVA 14.0 12.0 10.0 8.0 per cent 6.0 4.0 0.0 AP SB BA BA MZ MR AR NIL NIL NIL NIL H MP Ξ E E AH UK GA H KL BR

State wise patterns in Industrial Production

- Four states— Gujarat and Maharashtra,
 Karnataka and Tamil Nadu account for about
 43% of the total industrial GVA
- Six states of the Northeast (excluding Sikkim and Assam) - only 0.7% of the industrial GVA
- TN rank 1 in number of factories per person, second Gujarat

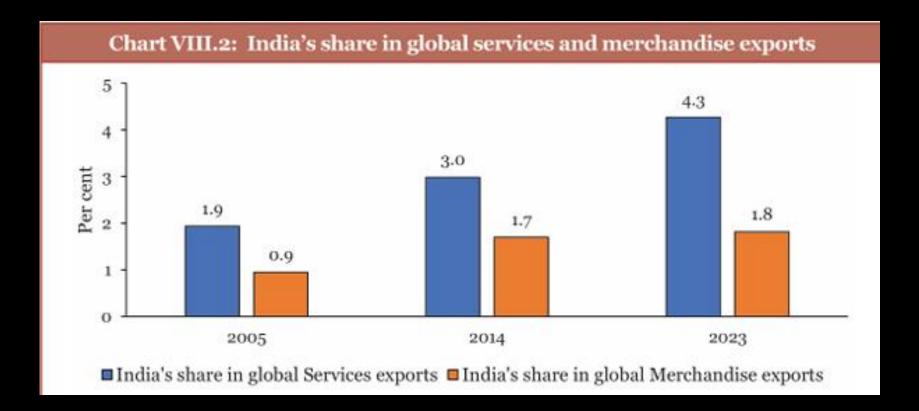
State's EoDB / BRAP

- Business Reform Action Plan (BRAP) by Min of Commerce & Industry aims to assess the ease of doing business across states.
- states are ranked into 4 groups i.e., top achievers, achievers, aspirers and emerging business ecosystems.
- It shows a positive correlation between business reforms and the improvement in EoDB, suggesting the need for deregulation and enterprise-friendly reforms
- Country wise EoDB World Bank

CHAPTER 8

 Services: New Challenges For The Old War Horse

India – leads in service sector



Service sector

- Service sector inflation remained high due to increase in wages after Covid
- India 7th largest Service exporter, USA 1st
- 55 % to GDP contribution
- But only 30 % employment Jobless growth of India

Railway transport

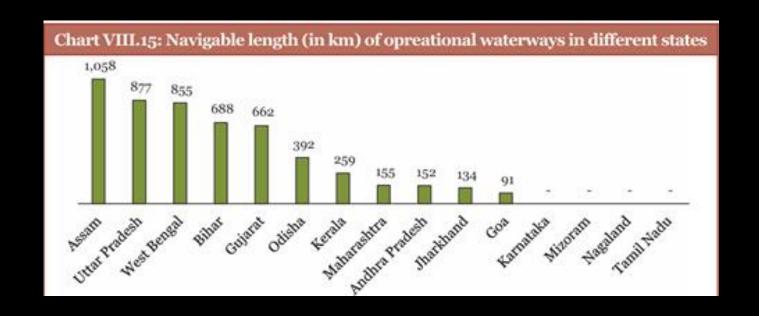
- E-ticketing 86% in the reserved sector,
 Unreserved sector 33%, digital refund in 24hrs
- Dynamic QR code-based payment across all the booking counters.
- Bharat Gaurav trains theme-based tourist circuit trains

Road transport

- FASTag → reduced the average waiting time at toll plazas from 734 seconds to 47 seconds
- A cashless treatment scheme for road accident victims has been initiated.
- Institute of driving training and research at the state/ district level have been setup

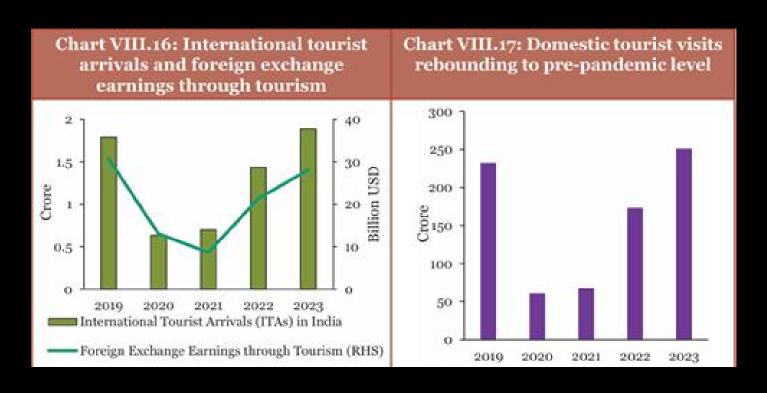
Waterway transport

- Maritime India Vision 2030 and Maritime Amritkaal Vision 2047
- Aim make Indian shipbuilding and ship repair among the top five globally by 2047



Tourism sector

 India's share – only 1.45 % in International tourist arrivals (ITA) in World



Trend

- Among all these sectors, only railways passenger traffic yet to rebound to pre – pandemic levels
- All other traffics roadways, waterways traffic, airways & tourism - rebounded to pre – pandemic levels

Real Estate

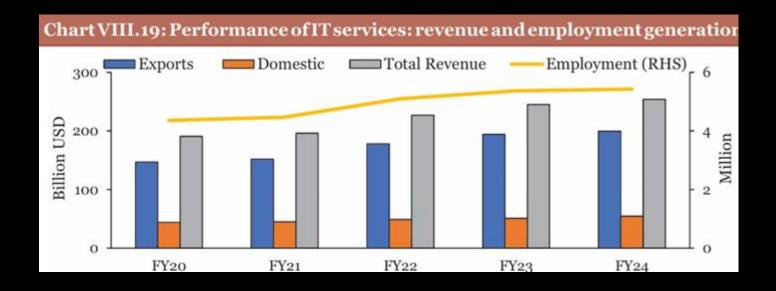
- Growth 11 year high
- 11 % YoY growth in top 8 cities

Reasons for good performance

- After Real Estate Regulatory Authority (RERA) came into force, India ranked 31st out of 89 countries in the Global Real Estate Transparency Index in 2024
- GST simplified taxation in real estate
- REITs provided funds for real estate investment

IT services

- India 2nd largest exporter after USA
- Export > Domestic consumption



GCC (Global Capability Centres)

- GCC MNCs outsourcing even high end services from India through their GCCs
- Services IT, Management, Finance, Data analytics & even R&D
- Example Amazon GCC
- We are transitioning from World's back office to World's Strategic business office
- Indian workforce 28% of the global STEM workforce and 23% of the global software engineers

Telecom sector

- India 2nd largest telecom market after China, with overall teledensity of 84%
- World's most affordable data rates
- c DOT (centre for development of Telematics) – R & D in 4G, 5G technology etc

ONDC (Open Network Digital Commerce)

- UPI like revolutionary platform for e commerce
- Promote interoperability in e commerce
- Can compare products of different ecommerce websites like Amazon, Flipkart etc on a single unified platform
- Interoperability even in placing order

STATE WISE ANALYSIS OF SERVICE SECTOR PERFORMANCE

- For FY23, MH > KTK > TN > UP > GJ together share more than 50% of the total service sector GSVA
- Untapped sectors insurance, pension, telecom



CHAPTER 6

Investment And Infrastructure: Keeping It

Infrastructure

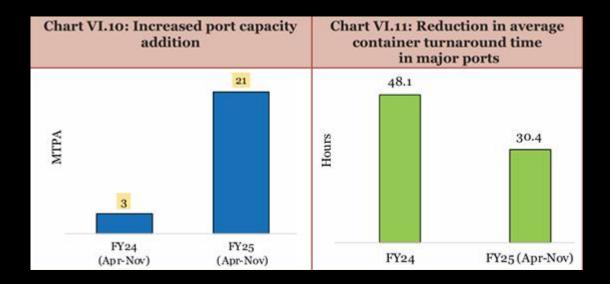
- NIP 111 lakh crore in last 5 years govt + pvt
- Highest capex in last 5 years 38 % YoY growth
- NMP National monetisation Pipeline AMP

Railways

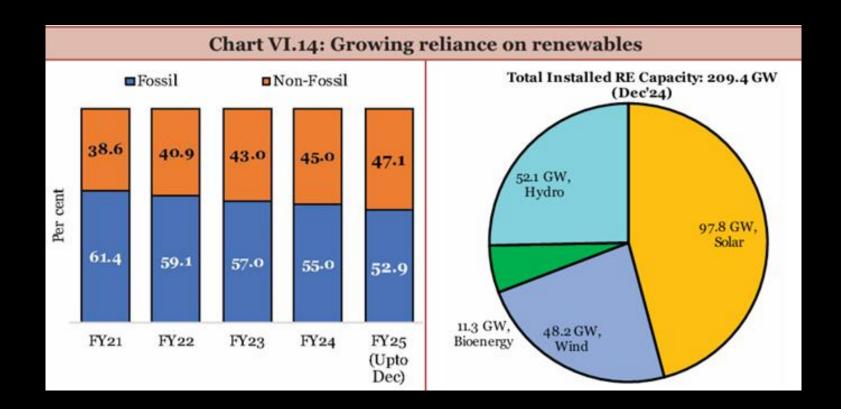
- Amrit Bharat Station Scheme
- One Station One Product
- Kavach automated anti collision initiative
- Western DFC development

Others

- Roadways Bharatmala, Char Dham Mahamarg,
 National High Speed Corridors
- Airways UDAN
- Waterways Sagarmala, National Maritime Heritage Complex in Lothal



Power



Power

- Renewable energy now constitutes about 47% of India's total installed capacity
- SAUBHAGYA Rural Electrification scheme

Digital Connectivity

- 5G services available in 779 out of 783 districts
- Gol Cloud initiative MeghRaj delivering ICT services via cloud computing to Central and State/ UT Dept

Rural & Urban Infra

- Rural SBM, JJM
- Urban SBM, AMRUT (Atal Mission for Rejuvenation and Urban Transformation), Smart Cities

TOURISM

- Pilgrimage Rejuvenation and Spiritual Augmentation Drive (PRASHAD) – to develop tourism infrastructure at identified pilgrimage destinations and heritage cities
- Swadesh Darshan promote theme-based tourism

Space Infra

- Gaganyaan
- Bhartiya Antariksh Station
- Chandrayaan-4 Lunar Sample Return Mission
- Venus Orbiter Mission
- Pvt sector participation

Chapter 11

 Social Sector: Extending Reach And Driving Empowerment

Social sector

- Social Sector Expenditure as a percentage of total expenditure (TE) has increased from 23.3% in FY21 to 26.2% in FY25 (BE)
- Health 1.9 % of GDP (target 4 %)
- Education 2.7 % of GDP (target 6%)

Household Consumption Expenditure Survey (HCES) 2023 24

- narrowing urban-rural gap in consumption expenditure.
- The average monthly per capita expenditure (MPCE) in rural and urban India in 2023-24 is estimated at ₹4,122 and ₹6,996, respectively
- largest growth occurred in bottom 5 10% of the population in both rural and urban areas

Education

- Government schools 69% with 50% students
 & 51% teachers
- NEP 2020 aims for a 100% Gross Enrolment Ratio (GER) by 2030 for primary & secondary levels
- GER is near-universal at the primary (93%), but low in secondary (77.4%), higher secondary level (56.2%) & higher education (28.4)

Education

- ECCE Nachetana for pre KG
- ECCE Adarshila for LKG, UKG
- Both learning through age specific activities
- NIPUN Bharat "National Initiative for Proficiency in Reading with Understanding and Numeracy 2021 - every child in the country must attain FLN by the end of Grade 3, by 2026
- SARTHAQ guidelines for peer tutoring
- Social & Emotional Learning for EQ development of children

Education

- Atal Innovation Mission (AIM) Frontier Technology Labs (FTLs)
- FTL AI, AR/VR, blockchain, cybersecurity, robotics, 3D printing and IoT
- Tamil Nadu's Illam Thedi Kalvi (Education at Doorstep) - volunteers – door to door education
- PRASHAT Disability screening @ school level

Digital Literacy

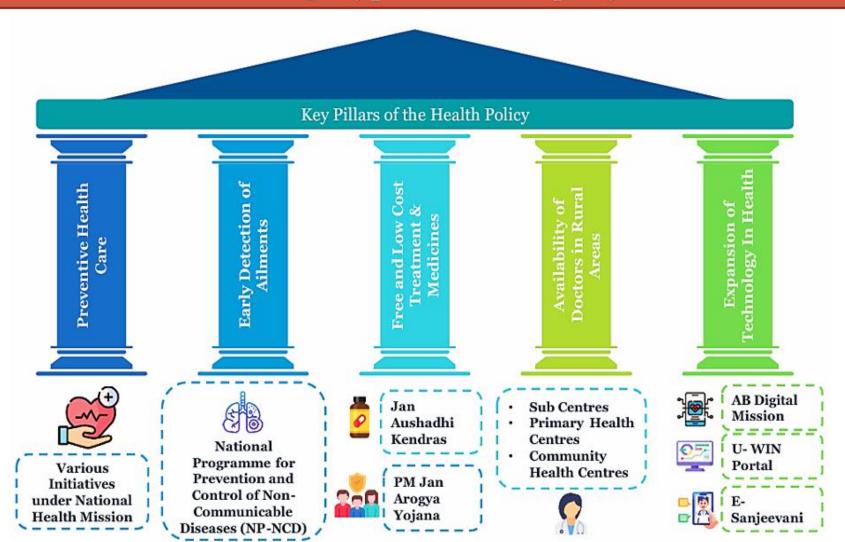
- Rural- Urban divide: 63% of males and 55% of females in rural areas
- DIKSHA portal online learning portal for school children
- Study Webs of Active Learning for Young Aspiring Minds (SWAYAM) portal
- e -VIDYA & e-Vidya DTH (Kalvi TV)
- e-content for Divyang (deaf people)
- Teacher App

Higher Education

- NEP aims to achieve GER to 50 per cent by 2035
- Multiple Entry and Exit in Academic Programmes
- Common Universities Entrance Test (CUET)
- Pursuing two Academic Programmes simultaneously
- Increase in medical seats

HEALTH

Chart XI.5 Key pillars of health policy⁹²



HEALTH

- PMJAY senior citizens aged 70 and above, irrespective of their socio-economic status – Vaya Vandana Card
- PHCs upgraded to Ayushman Arogya Mandirs (AAM) (formerly Health & Wellness Centres)
- PM-ABHIM:PM-Ayushman Bharat Health Infrastructure Mission – Health related infrastructure
- Jan Aushadhi scheme

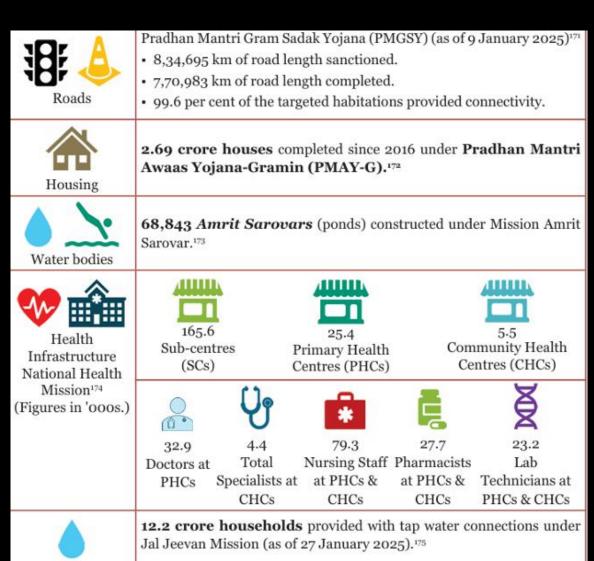
HEALTH

- Universal Immunisation Programme (UIP) 11 vaccines & 12 diseases
- U-WIN: digitising vaccination
- E-Sanjeevani the National Telemedicine Service - world's largest telemedicine implementation in primary healthcare
- I DRONE MoHFW Using drones to deliver vaccines & medical supplies to remote areas
- eSwasthya Dham portal

Impact of lifestyle choices on health:

- Diet, sleep, device use, and exercise
- NCD increased from 37.9% in 1990 to 61.8% in 2016
- National Programme for Prevention and Control of NCD (NP-NCD) - for 4 major NCDs cardiovascular diseases (CVDs), cancers, chronic respiratory diseases (CRDs), and diabetes
- Ultra processed foods HFSS foods cause NCDs, anxiety etc

Rural Economy



Drinking Water

Rural Economy

- DAY-NRLM poverty alleviation programme aim to reduce poverty by gainful self employment and skilled wage employment
- National Legal Services Authority (NALSA) tele law
- National Social Assistance Programme (NSAP)

 for old age, widows, and disabled persons,
 death of bread winner
- MNREGA, UNNATI

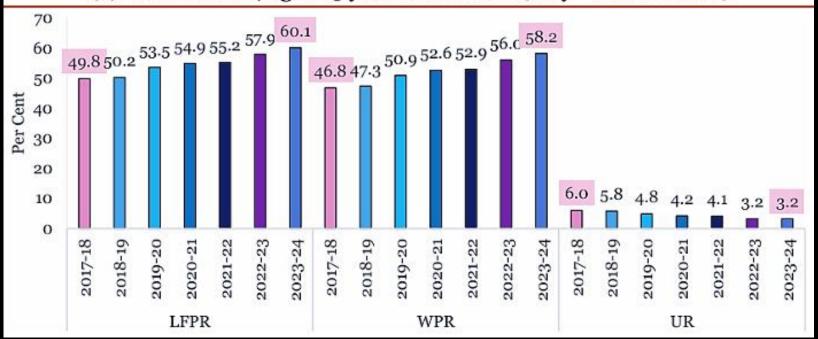
Chapter 12

• Employment And Skill Development: Existential Priorities

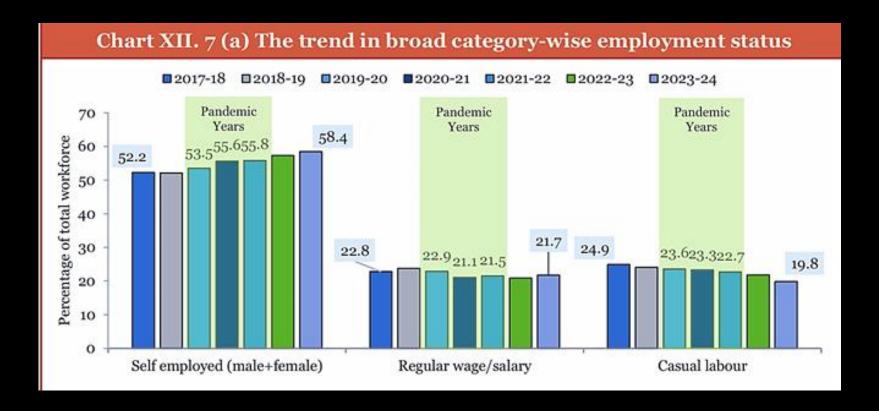
EMPLOYMENT

Chart XII. 4. Improvement in annual labour market indicators

(a) Usual status, aged 15 years and above (July - June Period)



Share of workers in Self employment – increased – due to Mudra Yojana, Skill India, Start-Up India, and Stand-Up India



Employment

- Agriculture > Services > Industry
- Female labour force participation rate (FLFPR) has been rising from 23.3 per cent in 2017-18 to 41.7 per cent in 2023-24
- Rural FLFPR largely drives the increase in FLFPR
- 45 % startups have at least one woman director (not women lead)
- E-Shram portal to recognize, register and support unorganised workers by providing them with a Universal Account Number (UAN)

Wages

- While the average monthly earnings for regular wage/salaried workers and selfemployed workers grew at a CAGR of 5 per cent during the period 2018-19 to 2023-24, the daily wage of casual workers increased at a CAGR of 9 per cent during the same period
- Corporate profits = 4x in last 15 years but wage growth – plateaud (very lil growth)

SKILLING

- 4.2 per cent of the workforce, equipped with advanced education and specialised skills, earns between ₹4 lakh and ₹8 lakh annually
- About 46 per cent earn less than ₹1 lakh, predominantly comprising low to semi-skilled workers
- Over 53 per cent of graduates and 36 per cent of postgraduates being underemployed in roles below their educational qualifications

Skilling in Al

 To re-skill and up-skill IT professionals to be adept with emerging technologies like AI, the IT-ITeS Sector Skill Council + MeitY, has launched the FutureSkills Prime platform

PM Internship Scheme

- Internship in 500 top companies to one crore youth over a period of five years spanning 24 sectors
- 12-month paid internship to those aged 21-24 years
 Indian nationals who are not employed full-time
- monthly stipend of ₹5000
- Companies can also use their corporate social responsibility (CSR) funds for expenditure
- Voluntary , not an obligation on companies
- The scheme is being implemented by the Ministry of Corporate Affairs.

International mobility for Skilled Workers

- Migration and Mobility Partnership
 Agreements (MMPA), Labour Mobility
 Agreements (LMA), and Labour Welfare
 Agreements signed with many countries to
 promote safe & regulated migration
- Skill India International Centres
- E Migrate platform

CHAPTER 5

 Medium Term Outlook : Deregulation Drives Growth

Medium Term Outlook

- India needs a growth rate of 8% at constant prices on average for a decade or two in order to realise its economic aspirations of becoming Viksit Bharat by 2047.
- World Economic Outlook of IMF projects India to become a USD 5 trillion economy by FY28 and USD 6.307 trillion by FY30.

Challenges for India's growth

- 1. Geo-economic fragmentation
- 2. China's manufacturing prowess and
- 3. Dependency on China for energy transition

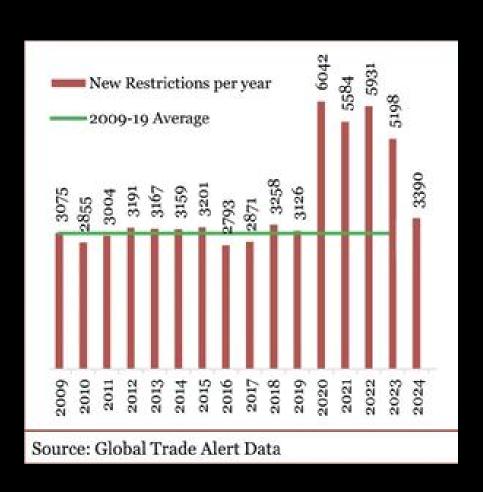
Geo-Economic Fragmentation (GEF)

- It is policy-driven reversal of global economic integration
- This process encompasses different channels including trade, capital, and migration flows
- GEF is replacing globalization

Implications of GEF

- Increased trade and investment restrictions: Between 2020 and 2024, over 24000 new restrictions related to trade and investments have come into place globally.
- Concentrated FDI flows: Global FDI flows are increasingly concentrated among geopolitically aligned countries, increasing vulnerability of emerging markets.

Increase in Global trade restrictions due to geo fragmentation



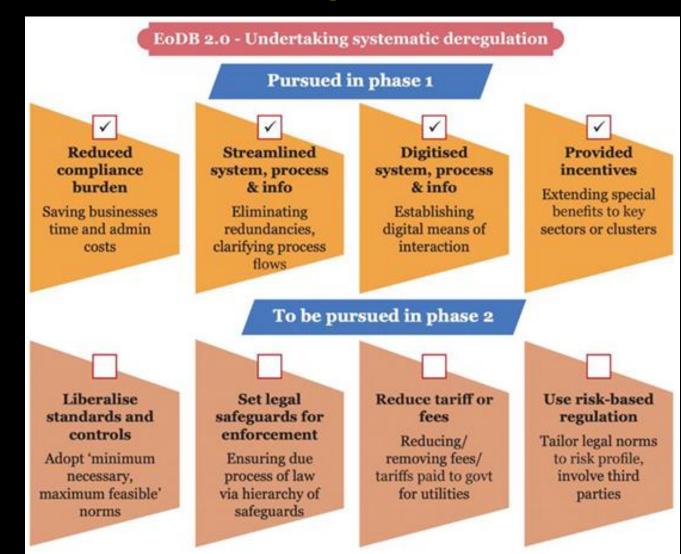
China's manufacturing prowess

 UNIDO projected that China will account for 45% of all global manufacturing, outmatching the US and its allies by 2030.

Dependency on China for energy transition

 China dominates energy transition technologies with nearly 80% share of solar panels (polysilicon, ingots, wafers, cells, and modules), and world's battery manufacturing capacity.

Deregulation – A catalyst for economic growth



CHAPTER 10

Climate And Environment: Adaptation Matters

- Ambition of India achieve net zero emissions by 2070
- India's per capita carbon emissions are 1/3rd of global average, even as it stands among the world's fastest-growing economies.

COP 29 of UNFCCC held in Baku, Azerbaijan

- It was designated as the 'Finance COP'.
- The focus was to establish the New Collective Quantified Goal (NCQG) on climate finance
- NCQG target of USD 300 billion was set annually by 2035 is only a fraction of the estimated requirement of USD 5.1 - 6.8 trillion by 2030.
- The decision demonstrates a significant misalignment with the Paris Agreement

Adaptation

- India's adaptation spending rose from 3.7% of GDP in FY16 to 5.6% in FY22
- However, international climate funding remains insufficient and focused more on mitigation than adaptation.
- The Ministry of Environment, Forest and Climate Change (MoEFCC) is developing the National Adaptation Plan (NAP)
- 'Mangrove Initiative for Shoreline Habitats & Tangible Incomes (MISHTI) – adaptation in coastal areas

Adaptation

- Climate resilient seeds
- AMRUT & Smart Cities mission
- Jal Shakti Abhiyan for water conservation
- Bhu-Neer portal regulating groundwater resources
- The FloodWatch India app forecast floods

Energy transition Initiatives

- Non-fossil fuel sources accounts for 46.8% of the total energy capacity
- PM Surya Ghar Muft Bijli Yojana
- The National Bioenergy Programme
- PMKUSUM solar pumps for farmers
- National Green Hydrogen Mission 5 million metric tonnes per annum of Green Hydrogen by 2030
- Sovereign Green Bonds

LifE

 Lifestyle for Environment (LiFE) Mission at COP26 in 2021 to promote eco-friendly, nature aligned lifestyles



Pollution

- Extended producer responsibility (EPR) framework for plastic recycling
- National Clean Air Programme (NCAP)
- Graded Response Action Plan,
- 'Promotion of Agricultural Mechanization for In-Situ Management of Crop Residue in the States of Punjab, Haryana, Uttar Pradesh & NCT of Delhi – Happy seeder

Chapter 13

Labour In The AI Era: Crisis Or Catalyst?

A

- Artificial Intelligence (AI) will disrupt labour markets because of developments in the field over last four years.
- This economic displacement adds to a fear about
- ILO estimates that nearly 75 million jobs globally are at complete risk of automation due to Al.
- NASSCOM estimates that the Indian AI market will grow at 25 to 35% CAGR by 2027

Al for human – centric automation

- Deployment of AI presents both opportunities and challenges for a labour rich India.
- A coordinated effort between the government, private sector, and academia is required for a future of work where AI is 'Labour Augmenting' rather than 'Labour Replacing'.

Al for human – centric automation

- The future of work revolves around 'Augmented Intelligence', where the workforce integrates both human and machine capabilities
- The corporate sector have to act responsibly, handling the introduction of AI with sensitivity to India's needs
- Institutions should be enabling (equipping the workforce with the necessary skills), insuring (compensating salary loss tue to AI) and stewarding (ethical) during AI automation

Challenges to scaling Al

Challenges to scaling AI









Practicality

Translating
breakthroughs into
practical, widely
adopted applications
remains challenging,
as AI currently shows
experimental and
uneven utility

Reliability

Ensuring AI reliability is critical for real-world applications, as failures in key industries like autonomous vehicles or healthcare can prove problematic

Infrastructure

AI at scale requires
substantial
investments in
infrastructure,
including data centres,
clean data pipelines,
and computational
resources

Resources

Large Models are
resource intensive,
requiring high
energy consumption,
dependency on scarce
minerals for hardware,
and finance, making
sustainable innovation
essential

