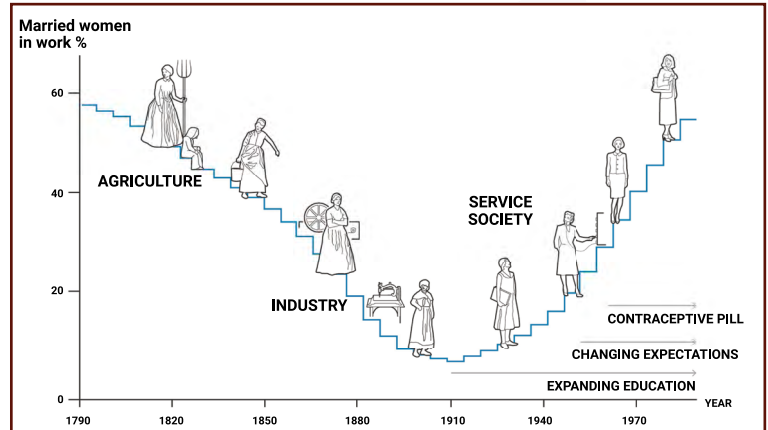


NEWS TODAY

Nobel Prize in Economic Sciences 2023 awarded to Claudia Goldin

- Goldin, is only the **third woman** to win this honour.
 - ⊕ She was awarded for “**having advanced our understanding of women’s labour market outcomes**”.
- **Key findings of her research**
 - ⊕ She analysed why the **pay gap between men and women refuses to close**, even in high-income countries.
 - ⊕ There is **no linear relationship between economic growth and women’s labour force participation**.
 - ◆ Instead, there is a **U-shaped relationship** between women’s employment and economic growth.
 - ⊕ Despite rising proportions of employed women, **earnings gap continues to remain**.
- **Key reasons identified by her for this trend**
 - ⊕ **Income effect**, the rise in household incomes (earnings of husband) alongside economic growth, may explain women’s initial withdrawal from employment.
 - ⊕ **Greedy jobs**, high paid jobs that call for increased hours of work with limited flexibility, leads to low women participation, given the disproportionately **higher care-giving burden on women**.
 - ⊕ **Expectations of young women**, based on the experiences of previous generations – for instance, their mothers, who did not go back to work until the children **had grown up**.
 - ⊕ **Access to the contraceptive pill** played an important role in offering new opportunities for career planning.



About Nobel Prize in Economic Sciences

- It is called the **Sveriges Riksbank Prize in Economic Sciences**.
- In 1968, **Sveriges Riksbank (Sweden’s central bank)** established the Prize in Economic Sciences in Memory of Alfred Nobel.
- Prize is awarded by the **Royal Swedish Academy of Sciences, Sweden**, according to the same principles as for the Nobel Prizes that have been awarded since 1901.

National Sample Survey Office (NSSO) releases Periodic Labour Force Survey (PLFS) Annual Report 2022-2023

- **Launched in 2017**, the key **objective** of PLFS is to **estimate** the key **employment and unemployment indicators** (viz. LFPR, WPR, UR):
 - ⊕ in the **short time interval of three months** for the **urban areas only** in ‘**Current Weekly Status**’ (CWS) and
 - ⊕ in both ‘**Usual Status**’ and **CWS** in both **rural and urban areas annually**.

Key Indicators used in PLFS:

- ⊕ **Labour Force Participation Rate (LFPR)**: Percentage of persons in the labour force (i.e. **working or seeking or available for work**) in the population.
- ⊕ **Worker Population Ratio (WPR)**: Percentage of **employed persons** in the **population**.
- ⊕ **Unemployment Rate (UR)**: Percentage of **persons unemployed** among the persons in the labour force.
- ⊕ **Activity Status**: It is determined on the basis of the **activities pursued** by the person **during the specified reference period** (preceding date of survey).
 - ◆ **Usual Status**: Reference period is 365 days.
 - ◆ **Current Weekly Status (CWS)**: reference period is 7 days

Key findings

Indicator		2017-18	2022-23	Trend
LFPR	Total	49.8%	57.9	Increase (↑)
	Rural	50.7 %	60.8 %	Increase (↑)
	Urban	47.6 %	50.4 %	Increase (↑)
	Male	75.8 %	78.5 %	Increase (↑)
	Female	23.3 %	37.0 %	Increase (↑)
WPR	Total	46.8%	56.0%	Increase (↑)
UR	Total	6%	3.2%	Decrease (↓)

India and Tanzania elevate ties to Strategic Partnership to further strengthen the bilateral relations

» Decisions taken

⊕ Memorandum of Understanding (MoU) signed for Cooperation in the field of:

- ◆ Sharing successful **digital solutions** for digital transformation.
- ◆ Setting up of an **Industrial Park in Tanzania**.
- ◆ **Maritime Industry**
- ◆ Navies on **Sharing White Shipping Information**
- ◆ **Cultural Exchange Programme**

⊕ Tanzania's decision to **join the International Big Cat Alliance (IBCA) and the Global Biofuel Alliance (GBA)**.

» India and Tanzania relationship

⊕ Tanzania has an important place in India's **vision of SAGAR** (Security and Growth for all in the Region).

- ◆ Tanzania, **with its strategic location and vast potential**, holds immense importance for India as a key partner in Africa.
- ◆ Tanzania has a significant interest in **ensuring that shipping lines are free from piracy or interference**.

⊕ A **five-year Roadmap for Defence Cooperation** was signed in June 2023.

⊕ India is amongst the **top five investment sources** for Tanzania.

- ◆ **Africa is a major investment destination for India** in sectors such as pharmaceuticals, infrastructure, etc.

⊕ Eastern coast of Africa is **strategically important to counter Chinese influence** in the extended Indian ocean region.

⊕ India's leap towards **including African countries in Multilateral institutions** like BRICS, G20 highlights affinity.

Tanzania

» Political Features

- ⊕ **East African country** situated just south of the Equator.
- ⊕ Tanzania is bounded by:
 - ◆ **Uganda, Lake Victoria, and Kenya** to the north,
 - ◆ **Indian Ocean** to the east,
 - ◆ **Mozambique, Lake Nyasa, Malawi, and Zambia** to the south and southwest,
 - ◆ **Lake Tanganyika, Burundi, and Rwanda** to the west.

» Geographical Features

- ⊕ **Africa's highest mountain, Kilimanjaro**
- ⊕ **World's second deepest lake, Lake Tanganyika**
- ⊕ Major rivers—Ruvuma, Rufiji, Wami, and Pangani—drain into the Indian Ocean.

Researchers at the World Bank published a study on rapid urban growth in flood zones since 1985

» Key findings:

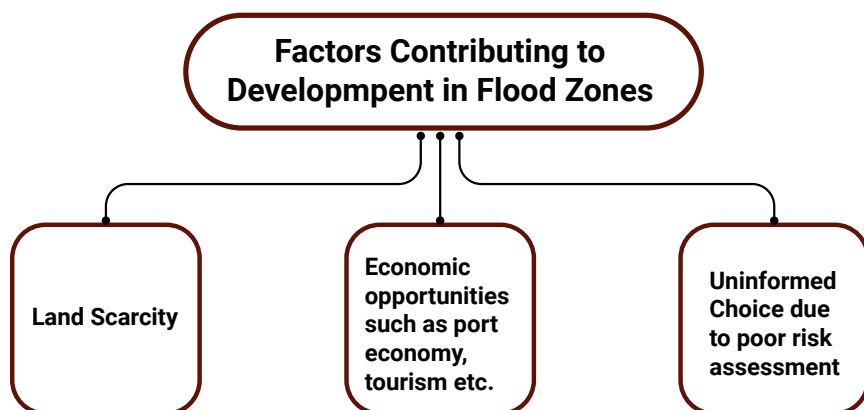
- ⊕ Since 1985, the number of the world's **settlements in the riskiest flood zones has increased 122%**, compared to 80% for the safest areas.
- ⊕ Despite extreme precipitation and flood threats, especially **middle- and low-income countries** continue to **increase their exposure to such threats with unplanned urban expansion**.
- ⊕ This showcases that **locally determined patterns of urbanization and spatial development** are also **key factors to the exposure** and vulnerability of people to climatic shocks.

» Unplanned Urbanization and increased risk of flooding:

- ⊕ Rapid urbanization has resulted in increased **paved areas, decreased water bodies, reduced groundwater recharge** and **reduced capacity of urban drainage** channels.
- ⊕ **Huge pressure** on limited land and water resources available within city boundaries.
- ⊕ **Prioritization of funds** for visible overground infrastructure rather than addressing drainage.

» Key Recommendations:

- ⊕ **Continuous monitoring** of urbanization and flood exposure patterns to guide timely interventions.
- ⊕ **Investment in disaster preparedness** in areas with high flood exposure.
- ⊕ Revision of land use and urbanization plans to avoid new construction in highest risk areas.



Natural rubber-producing nations urged Association of Natural Rubber Producing Countries (ANRPC) to address common issues

- Rubber tree is **native to the Amazon River basin** and was introduced to **tropical Asia and Africa** by British during 19th century.
 - ⊖ Natural rubber is a major raw material for the **automobile industry**, medical devices, airplanes, clothing, toys, footwear, adhesives, etc.
 - ⊖ **Synthetic rubbers** are **produced artificially** by creating polymers, sourced from raw materials mostly from the petroleum industry.
- **Cultivation in India**
 - ⊖ **Rainfall: Tropical climate** with annual rainfall of **2000 - 4500 mm**.
 - ⊖ **Temperature**, from 25 to 34°C with 80 % relative humidity is ideal.
 - ⊖ **Rubber growing regions in India:** Tamil Nadu, Kerala, Karnataka, Goa, Maharashtra, Andhra Pradesh, Orissa, A&N Islands, West Bengal Tripura, Assam, Meghalaya, Nagaland, Manipur.
- **Key challenges**
 - ⊖ Low **productivity** of smallholders.
 - ⊖ Low and **volatile rubber prices**.
 - ⊖ **Increased labour costs**, labour shortages, and **diseases**.
 - ⊖ **Environmental challenges**
 - ◆ **Climate change** has resulted in **erratic weather patterns**.
 - ◆ **Deforestation** has led to the **loss of biodiversity and soil degradation**.
- **Recommendation**
 - ⊖ **Mechanisation** in the rubber plantation
 - ⊖ Promotion of **sustainable agricultural** practices,
 - ⊖ **strengthening of the supply chain**,
 - ⊖ **value addition** for rubber wood

NCDC should set a target of achieving Rs.1 lakh crore yearly disbursement in next 3 years: Minister of Cooperation

- National Cooperative Development Corporation (NCDC) is a **statutory organization** established through **NCDC Act of 1962** under the **Ministry of Cooperation**.
- It works to **promote cooperative movement and economic development** through **cooperative societies**.
 - ⊖ **Cooperatives** are **collectives owned by participating members** who share profits and losses, such as rural businesses or banks.
- **Key Functions**
 - ⊖ **Financing:** Provides **loans and subsidies** to cooperative societies.
 - ⊖ **Promotion and development:** For production, processing, marketing, storage, and export of agricultural produce, foodstuffs, etc.
 - ⊖ **Implementing agency of Central schemes:** For example, Pradhan Mantri Matsya Sampada Yojana, Yuva Sahakar, Formation and Promotion of 10,000 Farmers Producer Organizations (FPOs), etc.
- **Significance**
 - ⊖ **Crucial role in the vision of Sahakar se Samridhi:** **Rs.41,000 crore** was disbursed in **FY 2022-23** and it is expected to achieve the target of **Rs. 50,000 crore for FY 2023-2024**.
 - ◆ Since inception, the disbursement is **Rs.2.78 Lakh crore**.
 - ⊖ **Strong balance sheet:** **Net NPA** is maintained at **'Zero'** with a **loan recovery rate** being over **99%**.
- **Weaknesses of NCDC:** Weak credit risk **profile of the borrowers**, regional and sectoral **client concentration** in advances, limited **regulatory oversight**, etc.

Also in News



Automatic 'Status Holder' certificates

- Ministry of Commerce & Industry unveils system-based **automatic 'Status Holder' certificates** under **Foreign Trade Policy 2023**.
- **Now certificate will be provided by the IT system** based on available Directorate General of Commercial Intelligence and Statistics merchandise **export electronic data and other risk parameters**.
 - ⊖ Status Holders are **business leaders who have excelled in international trade** and have successfully **contributed to the country's foreign trade**.
- **Privileges of certificate**
 - ⊖ Provides **credibility to the Indian exporters** in the international markets.
 - ⊖ **Priority custom clearances** and **certain exemptions** (like exemption from compulsory negotiation of documents through banks).



District Mineral Foundation Funds

- **Rs. 82370.79 Crore** collected under DMF till August 2023.
- DMF is a **trust**, setup as a non-profit body established under **Mining and Minerals Development and Regulation (MMDR) Act, 2015** in **all mining affected districts**.
- It implements **Pradhan Mantri Khanij Kshetra Kalyan Yojana (PMKKKY)** from DMF fund.
 - ⊖ Mining companies are **required to contribute to DMFs between 10% and 30% of the royalty**, in addition to the royalty paid to state governments.
- **About PMKKKY**
 - ⊖ **Objective:** **developmental and welfare programs** in mining affected areas
 - ⊖ **Utilisation of fund:** 60% of or high priority works such as drinking water health, education etc.



Kudumbashree

- “Back to school” campaign was launched under Kudumbashree by Kerala govt.
 - ⊕ Under this, **46 lakh women** will attend classes on adapting to the digital age, and training in financial transactions and entrepreneurship.
 - ⊕ This will enable moving **from poverty alleviation to enhancing the income of households.**
- Kudumbashree is the poverty eradication and women empowerment programme of Kerala.
 - ⊕ It is essentially a **community network** that covers the entire State of Kerala.



Wet Bulb Temperature

- Recent research has found that we may already be nearing the **threshold values for human survivability of temperature and humidity** for short periods in some places of the world – a measure known as the “wet-bulb” temperature.
- Wet Bulb Temperature combines dry air temperature with humidity and is a **measure of heat-stress conditions on humans.**
 - ⊕ It is the **lowest temperature to which air can be cooled by evaporation of water into the air** at a constant pressure.
 - ⊕ It is therefore measured by **wrapping a wet wick around the bulb of a thermometer.**



Iron Dome System and Operation Iron Swords

- Iron Dome is Israel's most advanced short-range, ground-to-air, air defence system.
 - ⊕ It includes a **detection and tracking radar, a Battle Management and Weapon Control System, and Tamir interceptor missiles.**
 - ⊕ It can **track and neutralise** any incoming rockets, missiles or Unmanned Aerial Vehicles (UAVs).
 - ⊕ Its success rate is believed to be in between **80-90%.**
- **Operation Iron Swords** has been launched by **Israel Defence Forces** in response to an attack on Israel by the Hamas militant group.



SHRESHTA Scheme

- Till now in FY 2023-24 the **expenditure** under **SHRESHTA** (Residential Education for Students in High Schools in Targeted Areas) is **Rs. 14.94 cr.**
- **Ministry:** Ministry for Social Justice and Empowerment
- **Type:** Central Sector Scheme
- **Objective:** To fill the gap in service-deprived SCs (Scheduled Castes) **dominant areas**, provide an environment for **socio-economic upliftment of SCs, etc.**
- **Benefits:** High quality free residential education to poor and meritorious scheduled caste (SC) students from class 9th to class 12th.
- **Implementing agency**
 - ⊕ **Mode 1:** District Administration
 - ⊕ **Mode 2:** Voluntary organisation (VO)/ Non-Government Organisation (NGO)/ Other organisation



Multimodal Artificial Intelligence (AI)

- Multimodal AI **combines multiple data sources** from different modalities, such as **text, images, audio, and video.**
 - ⊕ By combining **information from multiple modalities**, a multimodal AI model offers **more dynamic predictions and better performance** compared to unimodal AI systems.
 - ⊕ Unimodal AI systems are designed to **process a single data type, such as images, text, or audio.**
- **Applications:** automatic image caption generation, automatically detect hateful memes, text-to-speech, speech-to-text translations etc.



Udangudi 'Panangkarupatti' (palm jaggery/ gur)

- Tamil Nadu's Thoothukudi district's **Udangudi 'Panangkarupatti'** has been given a Geographical Indication (GI) tag.
- Panangkarupatti is made from the **palm sap** collected from the inflorescence of **palmyra trees that grow on the red sand dunes in the region.**
 - ⊕ It is made using traditional methods and **without any chemical additives.**
 - ⊕ **Dry climatic conditions** and low groundwater holding characteristic of red sand dune soil **lead to high sucrose content** in Panangkarupatti and support its longer storage.

Places in News



Spain (Capital Madrid)

- Mass protests were organised in **Barcelona** against possible amnesty for **Catalan separatists.**
 - ⊕ **Catalonia** is an autonomous region in the **northeastern Spain.**
- **Political boundaries of Spain**
 - ⊕ **Bordered Portugal (West); France (North east), Andorra.**
 - ⊕ **Bounded by Mediterranean Sea (east) Atlantic Ocean (northwest), and Bay of Biscay (north).**
 - ⊕ **Canary Islands** (in the Atlantic Ocean), and **Balearic Islands** (in the Mediterranean), and **two enclaves in North Africa** also are parts of Spain.
- **Geographical features**
 - ⊕ Occupies about **85% of the Iberian Peninsula.**
 - ⊕ **Major mountain ranges:** Central Sierra, Cantabrian Mountains, Sierra Morena, Pyrenees.
 - ⊕ **Major river:** Ebro River

