





- Global Gender Gap Report 2025: Recently, the World Economic Forum (WEF) released the Global Gender Gap Report 2025, highlighting persistent gender disparities across the globe.
 - Key Highlights: Iceland continues to lead the index for the 16th consecutive year, followed by Finland, Norway, the United Kingdom, and New Zealand.
 - Global Trends: The global gender gap has closed by 68.8%, marking the strongest improvement since the COVID-19 pandemic.
 - o At the current pace, full global gender parity is still 123 years away.
 - Bangladesh is the highest-ranked country in South Asia, climbing 75 places to secure the 24th position globally.
 - India has dropped to the 131st position out of 148 countries, with a gender parity score of 64.1%, ranking below Bhutan (119), Nepal (125), and Sri Lanka (130).
 - o Only Maldives (138) and Pakistan (148) rank lower than India in the region.
 - About Global Gender Gap Report: An index designed to measure gender equality.
 - Annually benchmarks the current state and evolution of gender parity across different dimensions.
 - Published by: World Economic Forum.
 - Parameters: Economic participation and opportunity , Educational attainment , Political empowerment and Health and survival.
- 2. State and Trends of Carbon Pricing 2025: Recently, the World Bank's State and Trends of Carbon Pricing 2025 report highlighted a global surge in the adoption of carbon pricing instruments. About Carbon Pricing: A cost on GHG emissions, internalizing the environmental and health costs of climate change. It works through three main tools:
 - Emissions Trading Systems (ETS): Also known as cap-and-trade systems where governments set emission limits, and companies can trade emission allowances.
 - Carbon Taxes: Governments impose a direct tax on the carbon content of fossil fuels or on total GHG emissions
 - Carbon Credit Trading Mechanisms: Credits are earned from projects that reduce or remove emissions (e.g., afforestation, clean cookstoves).





- Key Findings: Global Growth: Carbon pricing instruments have expanded to 80 systems globally (up from 5 in 2005), including 43 carbon taxes and 37 Emissions Trading Systems (ETS), generating over \$100 billion in revenue in 2024.
 - Sectoral Coverage: The power sector has the highest coverage, followed by industry, mining, buildings, and transport, while waste and agriculture remain largely uncovered.
- India's Carbon Market Progress: India is developing a rate-based ETS focused on emissions intensity, with performance benchmarks for heavy industries.
- Arsia Mons: Recently, NASA's 2001 Mars Odyssey spacecraft recently captured a rare and striking image of Arsia Mons, one of the largest volcanoes in the solar system.
 - The image shows the giant volcano rising above a dense layer of early morning clouds on Mars.
 - About Arsia Mons: Lies in the Tharsis region of Mars and forms part of the Tharsis Montes—a
 chain of three giant volcanoes. It sits at the southern end of this group.
 - Massive Size: Towering at over 18 kilometers, with a base stretching over 300 kilometers, it's far bigger than any volcano on Earth, including Hawaii's Mauna Loa.
 - Huge Crater: At the summit is a vast depression called a caldera, measuring around 110 kilometers wide, formed by collapsed magma chambers.
 - How it formed: Arsia Mons likely developed gradually as layers of fluid lava built up over time, a typical trait of shield volcances.
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 Surface Clues: Its slopes are marked by lava flows, channels, and volcanic ridges, hinting at a long and dynamic volcanic history.
 - Volcanic History: Scientists believe Arsia Mons was active for billions of years, with its last eruptions possibly occurring just 2 million years ago—recent in geological terms.
- Copernicus Climate Change Service (C3S): Recently, the European Union's Copernicus Climate Change Service (C3S) reported that May 2025 was the second-warmest May with global temperatures 1.4°C above the 19th-century average.
 - Key Highlights: Regional Hotspots: Unusually high temperatures were recorded in the Middle East, West Asia, Western Antarctica, Northeastern Russia, and Northern Canada, raising risks of heatwaves, wildfires, glacier melt, and biodiversity loss.

T#DAY'S HIGHLIGHTS

- Uneven Climate Action: While China and the EU have reduced emissions, regions like the U.S. under older fossil fuel policies and some large corporations have contributed to rising emissions, leading to uneven global progress.
- About C3S: One of six thematic services under the Copernicus Earth Observation Programme
 of the European Union.
 - Operational Structure: It operates through a network of research infrastructures across
 Europe and the world.
 - Purpose: Provides reliable data on past, present, and future climate trends to support informed decisions.
 - Scientific Basis: Draws from research under the World Climate Research Programme (WCRP) and user needs identified by the Global Climate Observing System (GCOS).
 - o Implementation: Managed by the European Centre for Medium-Range Weather Forecasts
- (ECMWF) on behalf of the European Commission.

 5. Himalayan Long-Tailed Myotis: Scientists have recently
- identified a new bat species named the Himalayan Long-Tailed Myotis (Myotis himalaicus) in the Western Himalayan region.
 - About Himalayan Long-Tailed Myotis: Belongs to the Myotis frater complex, a group of similar bat species spread across parts of East and Central Asia, including China, Japan, Korea, and Uzbekistan.



- Features: Medium-sized bat: About 3.5 inches long and weighs under 1 ounce. Notable for its long thumbs with short, strong claws, short ears, delicate teeth, and small feet adapted for agile movements in forest canopies.
- Ecological Importance: Helping manage agricultural pests and disease vectors like mosquitoes.
 - ✓ Certain bats feed on nectar and fruits, assisting in pollination and seed dispersal for forest regeneration.







- 6. National Automated Fingerprint Identification System (NAFIS): Recently, the Central Government revised the procedure for the Foreigners Identification Portal (FIP) under the National Automated Fingerprint Identification System (NAFIS).
 - About NAFIS: A centralised digital system that stores and matches fingerprints of criminals across India.
 - It allows real-time access for police and law enforcement agencies to upload and search criminal fingerprint records.
 - Working: Each criminal is assigned a unique 10-digit National Fingerprint Number (NFN) based on their biometric data.
 - ✓ The first two digits denote the state code, followed by an individual number.
 - ✓ This ID stays the same for life, allowing all future crimes linked to that person to be traced under one number.
 - All fingerprint data is stored digitally and can be instantly matched during investigations.
 This makes it easier to find connections with past crimes, active warrants, or alerts in other
 police databases.
 - Managed by the National Crime Records Bureau (NCRB) at the Central Fingerprint Bureau in New Delhi.
- 7. Tourette Syndrome: Recently, Tourette Syndrome has come into focus as health experts highlight its impact on children and the need for early support.
 - About Tourette Syndrome: A neurological condition that leads to involuntary, repetitive movements or sounds called tics.
 - It generally appears between the ages of 2 & 15, with most cases beginning around age 6.
 - The condition affects about 0.3% to 1% of people globally and is more common in boys than in girls.
 - · Types of Tics:
 - Simple Motor Tics: Quick, repeated movements like eye blinking, shoulder shrugging, or head jerks.
 - o Simple Vocal Tics: Sounds such as throat-clearing, grunting, or sniffing.







- Complex Motor Tics: Involve more deliberate actions like jumping, touching objects, or body twisting.
- Complex Vocal Tics: May include repeating words (echolalia) or, rarely, inappropriate language (coprolalia).
- Tics often increase with stress, excitement, or anxiety, but tend to ease when the person is calm or asleep.
- Treatment : There's no permanent cure yet, but treatments can reduce symptoms.
- Cognitive Behavioural Therapy (CBT) has shown positive results in managing tics and associated anxiety.
- 8. ICPV 25444 pigeonpea: Recently, scientists have developed a new heat-tolerant variety of pigeonpea (tur dal) named ICPV 25444, using a fast-track speed breeding technique. This breakthrough aims to help India reduce pulse imports and utilize Idle farmland more effectively.
 - About ICPV 25444: Withstands extreme heat up to 45°C, making it perfect for India's hot
 and semi-arid regions.
 - Can be grown in post-kharif rice fallows an estimated 12 million hectares that usually remain uncultivated due to heat and water shortage.
 - Features: Grows four crop generations per year, slashing development time from 15 to 5 years. Harvest-ready in just 4 months instead of the usual 6–7 months.
 - Doubles yield from about 1.1–1.2 tonnes/ha to 2 tonnes/ha improving crop rotation and farm income.
 - Government Support: The Union Budget 2025–26 announced a 6-year Mission for Self-Reliance in Pulses, focusing on crops like Tur, Urad, and Masur.