

# Daily Current Affairs



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The Indian EXPRESS

THE FINANCIAL EXPRESS

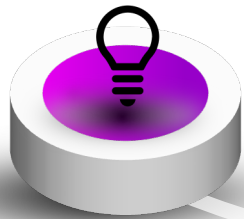


**3**  
**The Hindu**

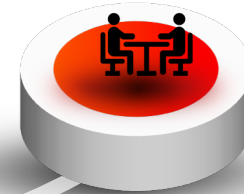


**6**  
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Engineering is not only  
study of 45 subjects but it  
is moral studies of  
intellectual life. Make  
things as simple as  
possible..but not simpler.

Albert Einstein



# Modi, Biden welcome progress in defence ties

Joint statement highlights deals on jet engines, armed drones and WTO dispute settlement;  
PM says India-U.S. friendship will continue to play a great role in furthering global good

**Dinakar Peri**  
NEW DELHI

**P** rime Minister Narendra Modi and U.S. President Joe Biden on Friday welcomed the completion of the notification process in the U.S. Congress on August 29 for a commercial agreement between General Electric Aerospace and Hindustan Aeronautics Ltd. (HAL) to manufacture GE F-414 jet engines in India and the commencement of the negotiations. The leaders lauded the settlement of the seventh and last outstanding World Trade Organization (WTO) dispute between the two countries.

Mr. Biden arrived in New Delhi in the evening to attend the G-20 Summit and went straight to Prime



**Talks begin:** Prime Minister Narendra Modi meets U.S. President Joe Biden in New Delhi on Friday. PTI

Minister Narendra Modi's official residence for a bilateral meeting. The summit will be held on Saturday and Sunday.

A joint statement issued after the bilateral talks said: "President Biden welcomed the issuance of a Letter of Request from the

Ministry of Defence of India to procure 31 General Atomics MQ-9B (16 Sky Guardian and 15 Sea Guardian) remotely piloted aircraft and their associated equipment, which will enhance the intelligence, surveillance and reconnaissance capabilities of India's

armed forces across all domains."

## 'Productive meeting'

"Happy to have welcomed US President Joe Biden to 7 Lok Kalyan Marg. Our meeting was very productive. We were able to discuss numerous topics which will further economic and people-to-people linkages between India and USA. The friendship between our nations will continue to play a great role in furthering global good," Mr. Modi said on the social media platform 'X'.

Mr. Biden "lauded" India's G-20 presidency for demonstrating how the G-20 as a forum is delivering important outcomes, the joint statement noted.

**CONTINUED ON**  
» PAGE 8

# As distance from China grows, India and US work on technology projects — chips to AI

**SOUFYARENDRA BARIK**

NEW DELHI, SEPTEMBER 8

AS PRIME Minister Narendra Modi and US President Joe Biden held a bilateral meeting on Friday, they reiterated their stance on building resilient global semiconductor supply chains.

And in a signal that highlights the two countries' growing distance from China, India also supported the US's Rip and Replace pilot project, which mandates that American companies tear out telecom equipment made by the Chinese firms Huawei and ZTE —

a move that has already been implemented by New Delhi as part of its 5G launch. The leaders continue to look forward to the participation of Indian firms in the US Rip and Replace programme, a joint statement issued by India and the US said.

It said Modi and Biden "expressed satisfaction" over the current status of the investment announcements made by US chip firms such as Micron Technology, Microchip Technology, AMD, LAM Research and Applied Materials.

Modi and Biden reaffirmed their commitment to deepen and diversify the India-US Major

Defence Partnership through expanded cooperation in new and emerging domains such as space and artificial intelligence (AI).

The PM had recently called for a global framework to ensure the ethical use of AI as he flagged concerns over algorithmic bias and its disruptive impact on society.

Modi and Biden also acknowledged the setting-up of two Joint Task Forces focused on collaboration in the field of Open RAN and research and development in 5G/6G technologies. Open RAN is an ongoing shift in mobile network architectures that enables service providers the use of non-

proprietary subcomponents from a variety of vendors.

The joint statement said that a 5G Open RAN pilot in a "leading Indian telecom operator" will be undertaken by a US Open RAN manufacturer before field deployment. It did not reveal the name of the Indian telco.

Modi and Biden also welcomed the signing of an agreement between the Bharat 6G Alliance and Next G Alliance, operated by Alliance for Telecommunications Industry Solutions, as a first step towards deepening public-private cooperation between vendors and operators.



# Nvidia inks AI deal with Jio & Tata Group

**Partnerships aim to bring advanced AI technology to India**

**JATIN GROVER**  
New Delhi, September 8

**RELIANCE INDUSTRIES AND** Tata Group on Friday entered into separate pacts with US-based chip maker, Nvidia to develop advanced artificial intelligence applications in the country. The partnerships will be around creating AI infrastructure in the country, developing India's own foundation large language model for generative AI solutions like ChatGPT, as well as training and skilling the workforce in the tech ecosystem.

The partnership with RIL-owned Jio Platforms comes a week after the company outlined its aggressive plans for artificial intelligence. During the 46th annual general meeting (AGM) RIL chairman Mukesh Ambani had said Jio Platforms wants to lead the effort in developing India-specific AI models and AI-powered solutions across domains, thereby delivering the benefit of AI to Indian citizens, businesses and government alike.

**MUKESH AMBANI, CHAIRMAN, RIL**

...super centres like the one we envisage with Nvidia will provide the catalytic growth just like Jio did to nation's digital march



**N CHANDRASEKARAN, CHAIRMAN, TATA SONS**

The partnership with Nvidia will democratise access to AI infrastructure and enable upgradation of AI talent at scale



**INSIDE**

**After IBM, Nvidia pushes for AI infra in India** **PAGE 4**

cloud infrastructure and oversee customer engagement and access.

As part of the partnership with



1949

- Indian PM meets USA president
- This trip precedes India's formal proclamation of neutrality in the developing cold-war

1959

- Inspired by Gandhi's non-violent struggle, Martin Luther arrives in India
- Also, first serving USA president visits India

1962

- Nine American universities and the U.S. Agency for International Development (USAID) help establish one of the first Indian Institutes of Technology at Kanpur

1962

- Washington supports India in the Indo-China border conflict, recognizing the McMahon line as the border, and provides air assistance and arms

1963

- Norman Borlaug travels to India to begin testing high-yield wheat varieties. His collaboration with Indian scientist Dr. M.S. Swaminathan results in the "Green Revolution," and India goes from food scarcity to self-sufficiency

1974

- India completes first Nuclear test- the move contributes to a period of estrangement between the USA and India

1978

- USA enacts the Nuclear Nonproliferation Act, which requires countries not included in the Nonproliferation Treaty—which includes India—to allow inspections of all nuclear facilities by the International Atomic Energy Agency. India refuses, and Washington ends all nuclear assistance to Delhi

1991

• India Launches Economic Reforms that help expand economic ties with USA

1998

• India tests Nuclear devices and badly damages its relationship with USA

2000

• The visit of US president ends the estrangement of the post-1998 Indian nuclear weapons tests

2001

• USA lifts all remaining sanctions that were imposed on India after its 1998 nuclear test

2005

• The United States and India sign the New Framework for the U.S.-India Defense Relationship

2010

• The United States and India formally convene the first U.S.-India Strategic Dialogue

2011

•The United States and India sign a Memorandum of Understanding in New Delhi to promote closer cybersecurity cooperation

2016

•The United States elevates India to a major defense partner, a status no other country holds

2018

•During a “two-plus-two” dialogue in New Delhi, COMCASA signed

2020

•The Basic Exchange and Cooperation Agreement (BECA) is the last of four foundational military agreements signed by both countries over the past two decades

## Name of the Exercise

## Participating Units

Tiger Triumph

· Indian Army and Navy · US Navy

Vajra Prahar

· United States Army Special Forces · Para SF

Yudh Abhyas

· It is the largest running joint military training and defence cooperation endeavour between India and the US.

Cope India

· Between Air Force units

Malabar Exercise

· Quadrilateral naval exercise of India, USA, Japan and Australia

- **GSOMIA** (a military information agreement) was the first of the foundational agreements to be signed in 2002
  - It essentially guaranteed that the two countries would protect any classified information or technology that they shared
  - It was aimed at promoting interoperability and laid the foundation for future US arms sales to the country

- 
- **LEMOA (logistics exchange agreement)** signed in 2016
    - It provides the framework for sharing military logistics, for example for refuelling and replenishment of stores for ships or aircraft transiting through an Indian/US facility
  -

- 
- **COMCASA (communications security agreement)** was signed in 2018
    - This enables the US to supply India with its proprietary encrypted communications equipment and systems, allowing secure peacetime and wartime communications between high-level military leaders on both sides

-

- 
- **Basic Exchange Cooperation Agreement (BECA)** signed in 2020
    - BECA will help India get real-time access to American geospatial intelligence that will enhance the accuracy of automated systems and weapons like missiles and armed drones.
    - Through the sharing of information on maps and satellite images, it will help India access topographical and aeronautical data, and advanced products that will aid in navigation and targeting

-



- **Trade and Economic relations**

- The US was India's **largest export destination** and the **second largest trading partner** in 2020-21
- **India's exports** to the US in 2020-21 were valued at \$51.62 billion and **imports** at \$28.88 billion, resulting in a **trade deficit** of about \$23 billion for the US
-

IN BRIEF



Rhino horn recovered in Assam's Baksa district, 5 held

A rhino horn was among several wildlife body parts recovered in a pre-dawn operation carried out by the forest and police officials in western Assam's Baksa district on September 8. Five people were arrested for possessing the animal body parts, including a deer antler, an elephant tusk, and bones of different animals, officials said. "The recovery and arrests were the outcome of proper tracking based on a major intelligence-based operation," Assam's Chief Wildlife Warden, Sandeep Kumar told The Hindu. "We suspect the seized rhino horn could have been extracted from one of two-three rhinos killed in Manas National Park and Tiger Reserve over the past few months."

Former U.P. Deputy CM elected to Rajya Sabha

Former Uttar Pradesh Deputy Chief Minister Dinesh Sharma has been declared elected unopposed to the Rajya Sabha from the State as the BJP leader was the only candidate to file nomination for the September 15 byelection, officials said on Friday. The byelection was necessitated due to the death of incumbent MP Hardwar Dubey, who was also from the BJP. The term of the seat is till November 2026. "Dinesh Sharma has been declared elected unopposed," Assistant Returning Officer Ajit Sharma said. After being elected unopposed, Mr. Dinesh Sharma, in a statement, expressed his gratitude to BJP's central and State leadership.

Academics oppose V-C appointments by Governor

A group of academics on Friday held protests outside the Raj Bhavan in Kolkata against "the arbitrary appointment of interim Vice-Chancellors that has gravely affected higher education in the State". Om Prakash Mishra, Deb Narayan Bandyopadhyay, Sonali Chakravarti Banerjee, Swagata Sen and Sibaji Pratin Banu were among those who held protesters outside the Raj Bhavan. "His Excellency, we request you to abandon your illegal ways. Dictatorial aspirations and a domineering approach do not suit your formal position. The Chancellor is a creature of statutes and his powers are limited by the statutes. It is good to obey the command of law and shut the path of confrontations," they said in a letter to Governor C.V. Ananda Bose.

Shivaji's tiger claws to return to Maharashtra in November

Maharashtra Cultural Affairs Minister Sudhir Mangarwar on Friday said the State government would bring home the wagh-nakh ('tiger claws') belonging to Maratha King Chhatrapati Shivaji from the U.K. in November. The claws were used by Shivaji to kill Afzal Khan, the 17th century General of Bijapur's Adil Shahi dynasty. "The wagh-nakh is not just a mere object for us but an article of faith. While we had initially thought of exhibiting the wagh-nakh across all districts in Maharashtra, certain conditions have been imposed as per the MoU according to which it may be kept at one place and displayed to the public," the Minister said.

Trinamool's Dhupguri win is historic, says Mamata

Party wins in a BJP stronghold and against the combined might of the CPI(M) and the Congress: Trinamool chief commends INDIA for its performance in the byelections held in other States

Shiv Sahay Singh KOLKATA

With the Trinamool Congress candidate winning the Dhupguri Assembly seat, party chairperson and West Bengal Chief Minister Mamata Banerjee said here on Friday that the Indian National Developmental, Inclusive Alliance team had won big in the byelections across the country.

"Big victory" Calling Dhupguri result historic, Ms. Banerjee said, "This is a big victory not just for north Bengal but also the whole of Bengal."

"As far as the rest of the country, in the seven byelections, the BJP has lost in four, even in a place like Uttar Pradesh, it won in Tripura, but Tripura has only two Lok Sabha seats, so there is no reason for them to celebrate. This is a big win for the INDIA team. I want people to make their decision in this manner only," Ms. Banerjee said.



Grand victory: This is a victory not just for north Bengal but also the whole of Bengal, says Mamata Banerjee.

Dhupguri in Jalpaiguri district, dotted with tea gardens, has been a stronghold of the BJP and the defeat has come as a setback to the outfit party. However, political observers pointed out that the ruling party has always had an edge over others in byelections in the past several years in the State, the only exception being the Sagar-Nagla bypolls here.

The announcement of Trinamool Congress general secretary Abhishek Banerjee on the polling eve that Dhupguri would be converted from a district

block to a subdivision by the ruling party. "This announcement may have caused a certain amount of confusion among the people and prompted them to vote against us," said Mittal Roy, the former Trinamool MLA from Dhupguri.

Another crucial outcome of the election was that the Congress-supported CPI(M) candidate, Ishwar Chandra Roy, secured only 13,758 votes (6.52%) despite leaders from both parties campaigning for him. With less than a year to the 2024 Lok Sabha election, the poor performance of the Left-Congress alliance indicates that the contests may largely turn out to be bipolar rather than triangular. State Congress president Anandirajan Chowdhury and CPI(M) state secretary Ananiammad Salim had held a joint rally in favour of the alliance candidate and targeted the INDIA on the very day Trinamool held a meeting in Mumbai.

Left-supported Congress nominee had defeated the Trinamool Congress candidate earlier this year. By hold of the BJP and the defeat has come as a setback to the outfit party. However, political observers pointed out that the ruling party has always had an edge over others in byelections in the past several years in the State, the only exception being the Sagar-Nagla bypolls here.

After SC verdict, Ladakh hill council polls now on Oct. 4

The Hindu Bureau SRINAGAR

Two days after the Supreme Court allowed the National Conference to retain its party symbol, plough, the Union Territory of Ladakh on Friday re-notified the date for the Ladakh Hill Council election as October 4.

Referring to the September 6 court order, the Ladakh administration, in a fresh order, said, "The symbol 'plough' is hereby reserved for the Jammu & Kashmir National Conference Party for the ensuing elections to the 5th LAHDCC-K."

Earlier, the election was scheduled for September 20. A legal battle started in the first week of August as the Union Territory administration denied the National Conference its election symbol. The administration argued that Ladakh had an election authority and not a State

Election Commission, which had the right to issue symbols.

However, the National Conference pleaded before the court that the authority issued a symbol to the Aam Aadmi Party for the LAHDCC-Leh election in 2020.

The Ladakh administration could not justify its position before the top court. "We are unable to appreciate such conduct. This recalcitrance to decide in time speaks volumes. Instances like these raise serious questions," Justices Alauddin Amanullah and Vikram Nath said in a 51-page judgment.

The administration's decision was allegedly aimed to disallow the regional mainstream parties to make a comeback in Kargil, which has a huge symbolic value for the National Conference against the backdrop of the Centre's decision to amend its 2019 decision to end J&K's special status under Article 370 of the Constitution.

Beginning of BJP's end SP chief says after win; ruling party cites local factors

Mavank Kumar LUCKNOW

In a setback to the ruling BJP-led National Democratic Alliance (NDA) in Uttar Pradesh, Samajwadi Party (SP) candidate Sudhakar Singh on Friday registered a resounding victory in the Ghosi Assembly byelection by a margin of 42,759 votes against Dara Singh Chauhan of the BJP. Mr. Singh polled 1,24,427 votes against Mr. Chauhan's 81,668.

The high-stake byelection, held on September 5, followed Mr. Chauhan's resignation as the SP MLA. The first electoral contest in India's politically most crucial State after the formation of the Opposition Indian National Developmental, Inclusive Alliance (INDIA) gave multiple messages to both alliances going into the 2024 polls.

The Shubhdev Bharatiya Samaj Party (SBSP), a Rajshah OBC-centric party, had



Akhilesh Yadav

joined the BJP-led National Democratic Alliance ahead of the election.

The SP termed the result not only a defeat of the BJP but also a major setback and indicator of the 2024 Lok Sabha verdict, while the BJP said the negative result was more due to local factors and should not be considered a referendum on the State government.

"This is not only a political defeat of the BJP, it is also a moral defeat. The victory of the SP and INDIA alliance candidate not only broke the pride of the BJP but also gave indications

Congress stakes claim to nine Lok Sabha seats in Bihar

Amarnath Tewary PATNA

Bihar Pradesh Congress Committee president Akhilesh Prasad Singh on Friday said the party would contest as many seats in the Lok Sabha election in 2024 as it did in 2019.

Of the 40 seats in Bihar, the Congress contested nine and won in Kishanganj in the previous election. The National Democratic Alliance won the rest. "After Rahul Gandhi's Bharat Jodo Yatra, the Congress, which contested over 400 seats in 2019 but won only 52, has now emerged stronger. The party registered wins in Karnataka and Himachal Pradesh. We will contest as many seats in the coming Lok Sabha election as we did in 2019, though the final decision over the number of seats to contest will be decided by the committee of the party," the INDIA (Indian National Developmental, Inclusive Alliance) bloc at Mumbai meeting, said Mr. Singh, who is a Rajya Sabha member.

Asked if the Congress

The party is yet to get two more berths in the Cabinet led by Chief Minister Nitish Kumar

would face difficulties in getting its due share of seats from the allies in INDIA bloc, Mr. Singh added, "Our kaziya (status) may be gauged from the fact that our Lok Sabha tally was the highest for any Opposition party... even in Bihar, we are the only party from the Opposition bloc which could win the seat of Kishanganj." "Under my stewardship, the Congress may get respectable seat-sharing deal in the State," Mr. Singh said.

Despite its demand, the Congress is yet to get two more berths in the Cabinet led by Chief Minister Nitish Kumar. Mr. Singh expressed confidence that Mr. Kumar would agree to the demand if the Congress whenever he chose to expand his Cabinet.

BJP leaders in Bihar said that after the third INDIA meeting, friction over seats in States had come out.

BJP wrests a bastion of the CPI(M) in Tripura

The Hindu Bureau AGARTALA

The BJP won the byelections to the Dhanpur and Bocosangar Assembly seats in Tripura as the results were declared on Friday.

The ruling party in the State wrested the Bocosangar seat from the CPI(M), which had never lost the seat except once in 1988, and retained Dhanpur. Dhanpur went to the poll after Union Minister Pratima Bhoumik resigned from the Assembly, while Bocosangar bypoll was necessitated by the death of CPI(M) MLA Samsul Haque.

The CPI(M), which earlier alleged massive rigging, threats and intimidations during the polling, boycotted the counting on Friday held at the Sonamura Girls' High School in Sepahijala district.

The CRPF and other security forces were deployed in the area to maintain peace.

Crossword puzzle grid with clues and a list of 29 clues. Clues include: 17. Wail, 'Tag is destroyed by bird' (7); 18. Go and exercise after putting note in ATM (7); 19. John (in English) gets a dog, for example (10); 20. Jerkily nods away in these times (8); 21. Hen traps laid out for animals (8); 22. Know Leonard's bark in the doghouse (6); 23. Satellite's rings mentioned in a couple of consecutive letters (4); 24. Good precipitation results in edible seed (5); 25. Orient every article supplied together, for starters (4); Down: 1. See and compete with West (4); 2. Cause of violent death around Japanese ruler dropping weapon? (8); 3. Sailor employs swear words (6); 4. Hill leaders of the African state in bam (7); 5. Bird badly hates nap (8); 6. Illuminated the extraordinary relic initially seen in garbage (6); 7. Sad and tallish but lust around with last piece of rope (4); 8. Animal kept in many a laboratory (5); 9. Yaw, repeated! Including parish priest's young animal (5); 10. Big screw movement may result in shipping hazards (8); 11. Imperfect aim with ice (8); 12. Rare ulna is broken and scattered around American university (7); 13. Mean Indian nurse (6); 14. Rouses woman with crawling snake (6); 15. Try wearing silver to get full of intense excitement (4); 16. Eating Asian spicy yam for starters is not difficult (4).

Sudoku puzzle grid with some numbers filled in. The grid is a 9x9 grid with some cells containing numbers from 1 to 9. The puzzle is titled 'SUDOKU' and includes a difficulty rating of 4 stars.

Word search puzzle grid with a list of words to find. The grid is a 10x10 grid of letters. The words to find are: FAITH, Try and try again, Long lasting fragrances of devotion, and a list of 10 words: 1. FAITH, 2. TRY AND TRY AGAIN, 3. LONG LASTING FRAGRANCES OF DEVOTION, 4. ...

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# Shivaji's tiger claws to return to Maharashtra in November

Maharashtra Cultural Affairs Minister Sudhir Mungantiwar on Friday said the State government would bring home the *wagh-nakh* ('tiger claws') belonging to Maratha King Chhatrapati Shivaji from the U.K. in November . The claws were used by Shivaji to kill Afzal Khan, the 17<sup>th</sup> century General of Bijapur's Adil Shahi dynasty. "The '*wagh-nakh*' is not just a mere object for us but an article of faith. While we had initially thought of exhibiting the '*wagh-nakh*' across all districts in Maharashtra, certain conditions have been imposed as per the MoU according to which it must be kept at one place and displayed to the public," the Minister said.

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**IN AND OUT**

**Bumrah rejoins his teammates, Samson released from squad**



Fit to width

Jasprit Bumrah rejoined the squad while Sanju Samson was released as travelling reserve ahead of India's Asia Cup Super 4s match against Pakistan on Sunday. Bumrah, who had returned to India for the birth of his first child, arrived in Colombo on Friday morning. He also took part in India's first outdoor practice session.

**FIT AND EAGER**

**Kusal Perera ready to take the field whenever needed: Silverwood**



Sri Lanka coach Chris Silverwood feels that Kusal Perera is ready to start, if needed. "He got COVID, and it took him a while to recover from that properly. But he feels good now, so we've to prepare him well to make sure he is ready. We work very hard to make sure that even if you are not part of the XI, you still feel part of the family."

**FINGERS CROSSED**

**Shanto is out for a couple of weeks, says coach Hathurusingha**



Bangladesh coach Chandika Hathurusingha said, "Unfortunately, Shanto is out for a couple of weeks. We diagnosed it [hamstring injury] early and we took precautionary steps. If not for the World Cup, our decision would have been slightly different."

**ONE FOR THE ALBUM**

**Dhoni spotted playing golf with former US President Trump**



M.S. Dhoni was spotted enjoying a friendly round of golf with former US President Donald Trump at Trump National Golf Club Bedminster. A picture of the two and a video of them playing have been doing the rounds on social media. Dhoni was also seen enjoying the quarterfinal between Alcaraz and Zverev at the US Open a day earlier.

# Bopanna creates history but fails just short of doubles title

The 43-year-old, who partnered Ebden at Flushing Meadows, became the oldest Grand Slam doubles finalist in the Open Era. Ram and Salisbury the first duo to win three straight crowns at the final Major of the year

**US OPEN**  
NEW YORK

Press Trust of India  
ROHAN BOPANNA'S agonising wait to win his maiden men's doubles Grand Slam title continued as he lost the hard-fought US Open final with partner Matthew Ebden to defending champions Rajeev Ram and Joe Salisbury here on Friday. Playing only his second men's doubles final at a Major, Bopanna and his Australian teammate lost the title clash 6-2, 3-6, 4-6 after two sets and one mixie. Ram and Salisbury became the first duo to win three straight US Open titles. Bopanna was playing the US Open final for the second time in his career and this time as the oldest player in the Open Era at 43. He had finished runner-up with Pakistani partner Aisam-ul-Haq Qureshi back in 2010, losing the title clash to the Bryan brothers.

**Third Slam final**  
It was the third Grand Slam final for Bopanna, who won his first and only Major in 2017 when he lifted the French Open mixed doubles trophy with Canadian partner Gabriela Dabrowski. Leander Paes and Mahesh Bhupathi are only two

male tennis players from India to have won Grand Slam crowns. Bopanna and Ebden got the start they wanted, breaking their rivals in the very first game and going on to win the set 6-2. Once the Indian started struggling with his serve, Ram's strategy of firing deep returns unsettled the duo. Once the holders went 4-2 up, they never looked back and took the match to the decider.

Down 2-4 in the final set, Bopanna showed excellent play, sporting spirit and character when he himself conceded a point after a ball deflected off his right arm when his serving partner made a forlorn return.

It was considered a winner as the chair umpire could not notice the deflection but the Indian himself told the umpire that he was conceding the point. Ebden held the entire tie and Bopanna in the next game. Ram came out to serve for the championship and there was no twist in the tale.

**THE RESULTS**  
**Final: Men's doubles:** 3 Ram (USA) & Salisbury (GBR) bt 6-Bopanna & Ebden (Aus) 2-6, 6-4.  
**Semi-finals: Women:** 6-Gauff (USA) bt 10-Muchow (Ger) 6-4, 7-5; 2-Sabalenko bt 17-Keys (USA) 6-4, 7-6(1), 7-6(5).



**Commendable:** Bopanna and Ebden displayed admirable sportsmanship in the final, but ultimately had to settle for the runners up trophy. GETTY IMAGES

# Sabalenko claws her way back to upstage Keys

**Associated Press**  
NEW YORK

American teenager Coco Gauff shrugged off disruption from climate protesters to reach the US Open final on Thursday as Aryna Sabalenka survived a huge scare to stay on course for a second Grand Slam title. A night of nerve-shredding semifinal drama saw Gauff reach the final for the first time with a 6-4, 7-5 defeat over Czech Republic's 10th seed Karolina Muchova.

The 19-year-old Gauff showed great poise to remain confident after the match was halted for 49 minutes early in the second set when environmental activists staged a protest in the upper tiers of the Arthur Ashe Stadium. Play was held up as officials attempted to reach one of the protesters who had glued their bare feet to the concrete floor of the arena. The four protesters were taken into police custody.

When play resumed, sixth seed Gauff closed out a hard-fought second set to reach the second Grand Slam final of her career. Gauff, who is now the youngest American woman to reach the US Open final since her idol Serena Williams in 1999, will face second seed Sabalenka in Saturday's final.

The 25-year-old from Belarus, who will take over the World No.1 ranking from Iga Swiatek at the



**Houdini act:** Sabalenka was forced to come back from the brink to dig out a 0-6, 7-6(1), 7-6(5) win against Keys. GETTY IMAGES

conclusion of the tournament, has been in scintillating form in New York. But she was forced to come back from the brink to dig out a 0-6, 7-6(1), 7-6(5) win against American 17th seed Madison Keys in 2hr 32min to reach the final.

"I'm really proud of myself that I was able to turn around this game and get this win, because it was just incredible," Sabalenka said after the victory. "I was just, like, 'Come on, keep trying, keep pushing, like, I don't know, do something extra. Just try to turn around this match.'"

"I think this kind of thinking really helped me to stay in the game and to keep trying, keep pushing, to still have this belief that I have a chance to turn around this match."

disastrous opening set and then fell a break behind in the second to leave Keys serving for the match at 5-4. But the Australian Open champion roared back to force a tie-break which she won emphatically and then rode her luck in the deciding set, once again recovering from a break down to set up another tie-break. She was left blushing after her out-of-sorts display for most of the first and second sets.

# Reserve day only for India-Pakistan Super 4s game causes an uproar

**ASIA CUP**  
COLOMBO

Amol Karhadkar  
It's my bat, I will set the rules. The rule that's been the mantra in gully cricket seems to have been adopted for the Asia Cup as well, with a reserve day having been added for only one of the six Super 4s matches — between India and Pakistan. That a reserve day will be added for the marquee clash was being whispered ever since the Asian Cricket Council (ACC) decided against moving the remaining matches from Colombo to Hambantota. On Friday, a notification issued for ticket-holders confirmed the move. "If adverse weather suspends play during the Pakistan vs India game, the match will continue on September 11 from the point it was suspended," stated the advisory, issued by the Pakistan Cricket Board, the tournament



**Just not crickets:** The special treatment afforded for the India-Pakistan game has given the two an undue advantage. AFP

host. "In such an eventuality, ticket-holders are advised to hold on to their match tickets which will remain valid and will be utilised for the reserve day." When the tournament fixtures were announced, only the final had a reserve day. Moreover, only one game having a reserve day may result in undue advantage for both the teams should weather play suspend sport for most of the Super 4s.

cretary and the PCB is the host. "I have not seen anything like this earlier. This is something new. It's not ideal," said Chandika Hathurusingha, the Bangladesh head coach, on Friday, ahead of this team's clash against Sri Lanka. "We would love to have an extra day as well. Other than that I don't have much comment because they (technical committee) have made a decision. There is a technical committee (in Asia Cup) represented by every participating country. They might have decided it with some ground reason." Sri Lanka coach Chris Silverwood, Hathurusingha's Sri Lanka counterpart, was a little more conservative. "Little surprised when I first heard, but at the same time we are not the organisers of the competition so not a lot we can do about that," Silverwood said. The ACC gathers that the ACC acceded to the broadcaster's demand after declining to shift the event out of Colombo.

# A must-win game for Bangladesh

**Dhruva Prasad**  
COLOMBO

The smell of fresh paint and the blaze of the welding iron in the media box ahead of the Asia Cup Super-Four match between Sri Lanka and Bangladesh at the R. Premadasa Stadium in Colombo are ciphers for the eleventh minute confirmation of the venue following heavy rains in the capital city last week. While the Lankan batting seems to be coming in to its own, the host's pacers are taking the team's cleaners by the Afghans and will have their task cut out against the eruvable batting depth, which is yet to fire in earnest. Bangladesh, however, will have little time to dwell on the politics of sport as it faces the host for the second time in just over a week in a must-win game. Its fortunes have revolved around its batting, which has blown hot and cold, as has the form of makeshift opener Mehidy Ha-

san Miraz. He could be joined at the top by the consistent Litton Das, even as the Tigers come to terms with the loss of in-form batsman Shanto to a knee injury. Their pace trio of Taskin Ahmed, Shoriful Islam and Hasan Mahmud will be key against Sri Lanka, which has an 12-match unbeaten streak, but scraped through to the Super-Four stage. While the Lankan batting seems to be coming in to its own, the host's pacers are taking the team's cleaners by the Afghans and will have their task cut out against the eruvable batting depth, which is yet to fire in earnest.

**Agence France-Press**  
CARDIFF

Jos Butler top-scored with 72 as England reached 291 for six in its 50 overs against New Zealand in the first ODI on Friday. England captain Butler, on his 33rd birthday, led the way on an awkward pitch as four England batters passed fifty. Together with the returning Ben Stokes (52), Butler shared a fourth-wicket partnership of 88 in 17 overs after England was asked to bat. Liam Livingstone's typically dashing 52 off 40 balls, including three sixes, took the hosts past 250 in the opening match of the four-game series. New Zealand left-arm spinner Rachin Ravindra took three for 48 in 10 overs. This was the first time the 2019 World Cup final, Butler and Stokes consolidated, with England's limited-overs skipper completing a 48-ball fifty. Stokes went to the landmark with



Butler... on song. REUTERS

a six over midwicket off Ravindra. But the bowler had his revenge next ball, when Stokes slapped him to cover to leave England 189 for four in the 38th over. Livingstone, caught in the deep off a Ferguson no-ball on 40, holed out off Tim Southee's slower ball and the veteran seamer also dismissed Butler. But his last ball of the innings was smashed over long-on for six by David Willey. The scores: England 291/6 in 50 overs (Butler 72, Malik 54, Stokes 52, Livingstone 52, Ravindra 3/48) vs New Zealand.

**TODAY'S MATCH**  
**SUPER 4s**  
Sri Lanka 41 | Bangladesh 9 | NR 2  
Colombo, 3.00 p.m. IST  
9:15 AM IST  
Sri Lanka 41 | Bangladesh 9 | NR 2

# Bopanna creates history but falls just short of doubles title

The 43-year-old, who partnered Ebden at Flushing Meadows, became the oldest Grand Slam doubles finalist in the Open Era; Ram and Sailsbury the first duo to win three straight crowns at the final Major of the year

## US OPEN

### Press Trust of India

NEW YORK

Rohan Bopanna's agonising wait to win his maiden men's doubles Grand Slam title continued as he lost the hard-fought US Open final with partner Matthew Ebden to defending champions Rajeev Ram and Joe Salisbury here on Friday.

Playing only his second men's doubles final at a Major, Bopanna and his Australian teammate lost the title clash 6-2, 3-6, 4-6 after two hours and one minute. Ram and Sailsbury became the first duo to win three straight US Open titles.

male tennis players from India to have won Grand Slam crowns.

Bopanna and Ebden got the start they wanted, breaking their rivals in the very first game and going on to win the set 6-2. Once the Indian started struggling with his serve, Ram's strategy of firing deep returns unsettled the duo. Once the holders went 4-2 up, they never looked back and took the match to the decider.

Down 2-4 in the final set, Bopanna showed exemplary sporting spirit and character when he himself conceded a point after a ball deflected off his right arm when his serving partner made a forehand



# The Indian EXPRESS

JOURNALISM OF COURAGE  
SINCE 1932

SATURDAY, SEPTEMBER 9, 2023, NEW DELHI, LATE CITY, 32 PAGES

₹7.00 (₹6 BIHAR & RAIPUR, ₹12 SRINAGAR) WWW.INDIANEXPRESS.COM

HOPING FOR CONSENSUS IN CONFLICT, G20 SUMMIT STARTS TODAY

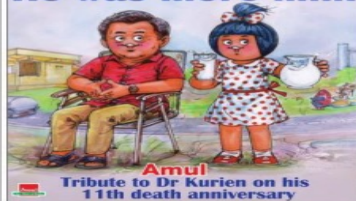


## Welcome, World



UK PM Rishi Sunak, wife Akshata Murty; Russia Foreign Minister Sergey Lavrov; African Union Chairperson Azali Assoumani; Japan PM Fumio Kishida, wife Yuko arrive for G20. PIZ/ANI, Reuters

### He was more milk



Amul Tribute to Dr Kurien on his 111th death anniversary

### JOINT STATEMENT UNDERLINES G20 ROLE Biden and Modi take their Washington pact forward in Delhi

SHUBHAJIT ROY  
NEW DELHI, SEPTEMBER 8

THE DAY before the G20 Summit begins and barely three months after the Indo-US joint statement hailed ties spanning "seas to stars," Prime Minister Narendra Modi and visiting US President Joe Biden Friday made progress in a sweeping range of areas they had flagged last June: from space research and cancer to critical tech and small modular nuclear reactors.

Their 29-paragraph joint statement focused exclusively on the bilateral agenda. Unlike the 58-paragraph statement last June during PM Modi's State visit to the US, it made no mention of regional and global issues, counter-terrorism or situation in

#### AMONG OUTCOMES

- DEFENCE:** Jet engines to drones, pacts on track
- SPACE:** Big push for planetary defence, ISS
- TECH:** Chips to AI, tech projects get a boost
- EDUCATION:** Research institute gets thumbs-up

PAGE 8

the neighbourhood including Afghanistan, Pakistan and Myanmar.

After the meeting, the Prime

**CONTINUED ON PAGE 2**

#### FULL COVERAGE

PAGES 6, 8, 9, 16, 23



Prime Minister Narendra Modi with US President Joe Biden in New Delhi on Friday. PTI

### 3 SESSIONS: ONE EARTH, ONE FAMILY, ONE FUTURE India: Summit declaration will be voice of Global South, developing countries

HARIKISHAN SHARMA  
NEW DELHI, SEPTEMBER 8

AS WORLD leaders arrived for the G20 Summit starting Saturday, India said Friday that

the New Delhi Declaration at the end of the Summit will be "a voice of the Global South and the developing countries".

Addressing a press conference on the eve of the two-day Summit, India's G20 Sherpa

Amritabh Kant said, "The New Delhi Leaders' Declaration, which many of you will see post the Summit, you will see it as a voice of the Global South and the developing countries. No document

**CONTINUED ON PAGE 2**

#### WORK ON OUTCOME DOCUMENT GATHERS PACE

### Change in Beijing approach raises hopes, negotiators look at 50-plus deliverables

SHUBHAJIT ROY  
NEW DELHI, SEPTEMBER 8

ASTHE G20 Sherpas, the chief negotiators and their teams, moved from Manesar to New Delhi Friday for the last round of negotiations before the Leaders' Summit starting Saturday, negotiators sensed a perceptible change in Beijing's approach to many issues on the



China Premier Li Qiang in New Delhi on Friday. PTI

table, according to officials from Western countries and others in the grouping.

This is significant since the G20 grouping faces the challenge of not reaching a consensus, given that the G7 countries are on one side and the Russia-China bloc is aligned

**CONTINUED ON PAGE 2**

#### BUSINESS AS USUAL

By UNNY



#### INSIDE

SEVEN BYPOLL: BJP WINS THREE SEATS, OPP ALLIANCE GETS FOUR

JD(S) TO JOIN HANDS WITH BJP FOR 2024 POLLS, SAYS BSY

2 KILLED, SEVERAL INJURED IN FRESH MANIPUR FIRING

PAGES 16, 19

Life Is On | Schneider Electric

60 Years in India Partnering for sustainability



ONE EARTH. ONE FAMILY. ONE FUTURE.

## THE TIME TO ACT IS NOW.

As we mark our 60th anniversary in India, we are proud of the contribution made in the economic and social progress of the nation through our Energy Management and Next-Gen Automation Solutions.

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- EcoStructure IoT Suite
- Energy Management Solutions
- Next-Gen Automation Solutions
- Digital & Field Services
- Sustainability & Energy Consulting
- Software Suite



Join the good fight. Become a Green Yodha. Scan the QR to get started.



## HEAVIEST RAIN IN 140 YEARS FLOODS HONG KONG

Cars submerged after heavy rains, in Hong Kong, on Friday. The heaviest rain since records began 140 years ago drenched the area, killing two people and injuring over 100, media said. Unusually wet weather caused by typhoons brought more disruption to southern China. Hong Kong's weather bureau issued highest "black" rainstorm warning early Friday. It said over 200 mm of rain was recorded on its main island, the Kowloon district and northeastern part of the city's New Territories from late Thursday. *Reuters*



# N Korea unveils its first tactical, nuclear-armed submarine

**REUTERS**

SEOUL, SEPTEMBER 8

NORTH KOREA has launched its first operational "tactical nuclear attack submarine" and assigned it to the fleet that patrols the waters between the Korean peninsula and Japan, state media said Friday.

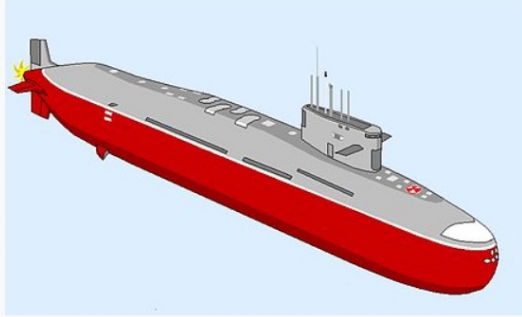

Submarine No. 841 - named Hero Kim Kun Ok after a North Korean historical figure — will be one of the main "underwater offensive means of the naval force" of North Korea, leader Kim Jong Un said at launch on Wednesday.

South Korea's military said that the submarine didn't appear ready for normal operations, and that there were signs North Korea was exaggerating its capabilities.

North Korea's nuclear weapons and ballistic missile programs are banned by the US Security Council resolutions.

Class	Type	Boats	Origin	Displacement	Note
<b>Nuclear-powered submarines (2)</b>					
<i>Arihant class</i>	Ballistic missile submarine (SSBN)	INS <i>Arihant</i> (S2) INS <i>Arighat</i> (S3)	India	6,000 tonnes	Powered by a 83 MW pressurized light-water reactor using enriched uranium. First prototype of the ATV project and experimental protoype.

Diesel-electric submarines (16)					
<i>Kalvari</i> class (Scorpène-class)	Attack submarine	INS <i>Kalvari</i> (S21) INS <i>Khanderi</i> (S22) INS <i>Karanj</i> (S23) INS <i>Vela</i> (S24) INS <i>Vagir</i> (S25)INS Vaghsheer (S26) <sup>[2]</sup>	France India	1,775 tonnes	French design. India got full technology transfer and license for up to 12 units produced locally in Indian shipyards.
<i>Shishumar</i> class (Type 209 submarine)	Attack submarine	INS <i>Shishumar</i> (S44) INS <i>Shankush</i> (S45) INS <i>Shalki</i> (S46) INS <i>Shankul</i> (S47)	West Germany India	1,850 tonnes	<i>Shishumar</i> and <i>Shankush</i> scheduled for mid-life refit in 2020-21. <sup>[3]</sup>
<i>Sindhughosh</i> class (Kilo-class)	Attack submarine	INS <i>Sindhughosh</i> (S55) INS <i>Sindhuraj</i> (S57) INS <i>Sindhuratna</i> (S59) INS <i>Sindhukesari</i> (S60) INS <i>Sindhukirti</i> (S61) INS <i>Sindhuvijay</i> (S62) INS <i>Sindhurashtra</i> (S65)	Soviet Union Russia	3,076 tonnes	<i>Sindhuraj</i> and <i>Sindhukesari</i> currently undergoing mid-life refit. <i>Sindhughosh</i> scheduled for refit in 2020. <sup>[3]</sup>

Class	Picture	Type	Boats	Origin	Displacement	Status
<b>Nuclear submarines (2)</b>						
<i>Arihant</i> class		Ballistic missile submarine (SSBN)	S4 (code name) S4* (code name)	India	7,000 tonnes (S4 and S4*)	S4 launched and undergoing fit-out S4* hull under construction <sup>[4][5]</sup>
<b>Diesel-electric submarines (1)</b>						
<i>Kalvari</i> class		Attack submarine	INS Vagsheer (S26)	France India	above 2000 tonnes	Three more units ordered with a new plug module that would give the submarine AIP capability. These units will be larger in size and it is planned that all previous units will be upgraded during their next overhaul cycle. <sup>[6]</sup>

Class	Picture	Type	Boats	Origin	Displacement	Status	Note
<b>Nuclear submarines (10)</b>							
S5 class		Ballistic missile submarine (SSBN)	3	 India	13,500 tonnes	3 planned	Project was approved with a budget of ₹10,000 crore (US\$1.3 billion). <sup>[7][8][9]</sup>
Project 75 Alpha		Attack submarine (SSN)	6	 India	6,000 tonnes	6 planned	6 boats are planned and are expected to be constructed at the Shipbuilding Centre (SBC) at Visakhapatnam. <sup>[10]</sup> Project clearance was granted by the <a href="#">Cabinet Committee on Security</a> in February 2015. <sup>[11]</sup>
Akula class		Attack submarine (SSN)	0	 Russia	12,770 tonnes	1 planned	In March 2019, India signed a US\$3 billion agreement with Russia to lease another Akula-class submarine, which is expected to join the Indian Navy by 2025. <sup>[12]</sup>

## World Bank lauds India's DPI

**DIGITAL PUBLIC INFRA-STRUCTURE (DPI)** has had a transformative impact on India, extending far beyond inclusive finance, according to a World Bank report, prepared in conjunction with the G20 Summit in New Delhi. The multilateral body cited "groundbreaking measures" taken by the Narendra Modi-led government and the pivotal role of government policy and regulation

in shaping the DPI landscape. "India has achieved in just 6 years (on DPI) what would have taken about five decades," said the report.

The JAM Trinity (Jan Dhan, Aadhar and Mobile) has propelled financial inclusion rate from 25% in 2008 to over 80% of adults in last 6 years, a journey shortened by up to 47 years thanks to DPIs, the WB report said. — **FE BUREAU**



The World Bank building in [Washington, D.C.](#)

<b>Established</b>	July 7, 1944 (79 years ago)
<b>Type</b>	<a href="#">International financial institution</a>
<b>Legal status</b>	Treaty
<b>Headquarters</b>	1818 <a href="#">H Street</a> , NW <a href="#">Washington, D.C.</a> , U.S. <sup>[1]</sup>
<b>Membership</b>	189 countries (IBRD) <sup>[2]</sup> 174 countries (IDA) <sup>[2]</sup>
<b>Key people</b>	<a href="#">Ajay Banga</a> ( <a href="#">President</a> ) <sup>[3]</sup> <a href="#">Axel van Trotsenburg</a> ( <a href="#">MD</a> ) <a href="#">Anshula Kant</a> ( <a href="#">MD</a> and <a href="#">CFO</a> ) <a href="#">Indermit Gill</a> ( <a href="#">Chief Economist</a> ) <sup>[4]</sup>

## ● RISING CAPITAL INFLOWS

# India shines among top 10 ultra high net wealthy nations











SAIKAT NEOGI

New Delhi, September 8

**AMONG THE TOP 10** nations with ultra-high-net-worth (UHNW) individual, India is the only one which saw an increase in the number of ultra wealthy population in 2022, on the back of rising capital inflows, resilient urban consumer demand and extensive infrastructure development, according to Altrata World Ultra Wealth Report 2023.

While the global UHNW population fell by 5.4% to 3,95,070 individuals —the first annual decline in four years and the largest contraction since 2015 —India saw an increase of 3.2% to 8,880

### TOP 10 UHNW COUNTRIES IN 2022

Rank	Wealth (\$ bn)	Country	UHNW population	Population (% chg, y-o-y)
1	15,053	 US	129,665	-4.3
2	5,317	 China	47,190	-7.1
3	2,310	 Germany	19,590	-9.3
4	1,417	 Japan	14,940	-21.9
5	1,427	 UK	14,005	-9.2
6	1,416	 Canada	13,320	-1.3
7	1,503	 Hong Kong	12,616	-23
8	1,294	 France	11,980	-11.9
9	987	 Italy	8,930	-7.8
10	1,144	 India	8,880	3.2

Source: Altrata World Ultra Wealth Report 2023 UHNW: Ultra high net worth



years and the largest contraction since 2015 — India saw an increase of 3.2% to 8,880 individuals. The US, which ranks number one in UHNW population, saw a decline of 4.3% in 2022. Similarly, China's UHNW population declined 7% to 47,190. Japan recorded the sharpest fall recorded of 22% to 14,940, followed by Hong Kong. Currency effects played a major role in Japan, with the yen depreciating by 16% against the US dollar.

The combined net worth of India's UHNW population is \$1.4 trillion. For the US, it is \$15 trillion and that of China at \$5.3 trillion. The total net worth of the UHNW population declined by 5.5% to \$45.4 trillion in 2022, the second-largest annual fall in the past decade.

An UHNW individual has been defined as a person with a net worth of \$30 million or more. The combined ultra wealth of \$45.5 trillion accounted for 33% of the total wealth held by all HNW individuals.

Geopolitical tensions

**While the global UHNW population fell by 5.4% to 3,95,070 individuals — the first annual decline in four years and the largest contraction since 2015 — India saw an increase of 3.2% to 8,880 individuals**

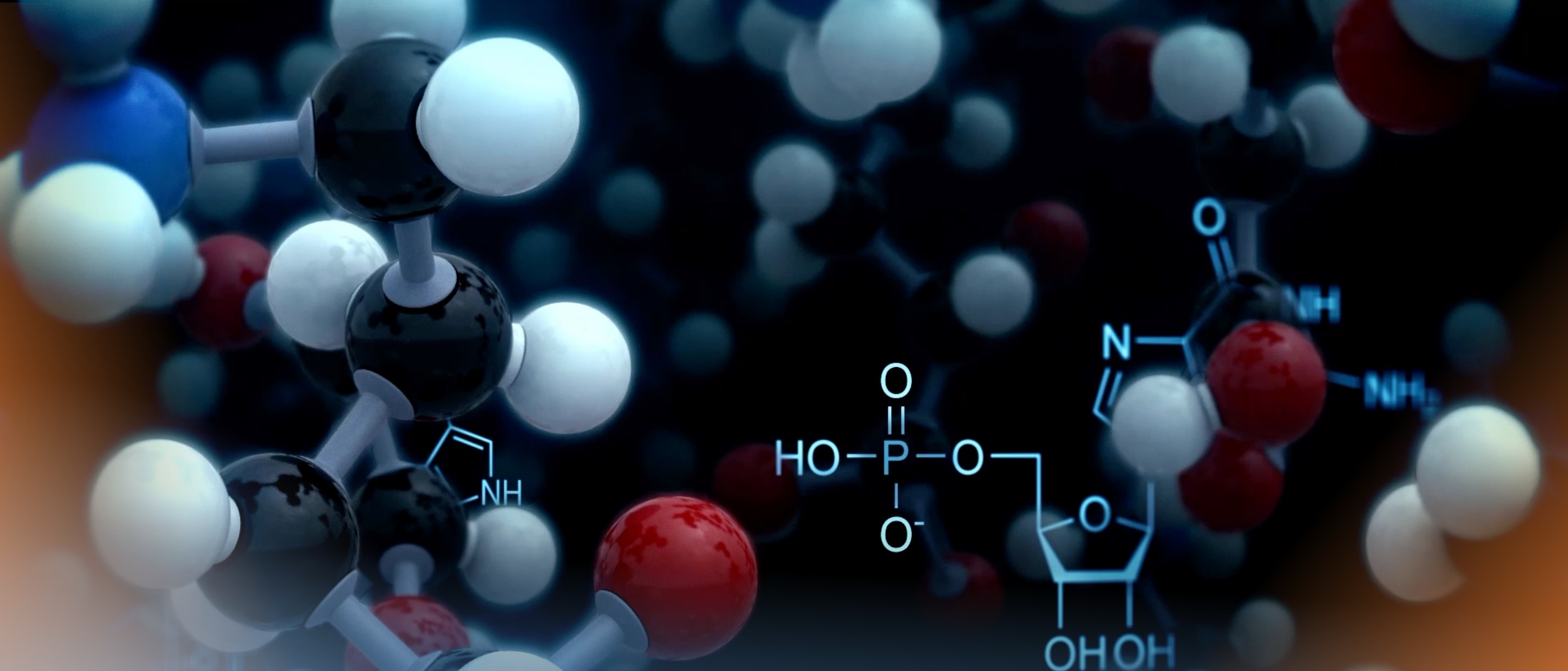
because of the Russia-Ukraine war, soaring commodity prices and extreme volatility in the global stock markets disrupted wealthy markets around the world. The heightened risk-off sentiment and weakened asset markets shifted the focus to wealth preservation, which proved challenging.

“Rising inflation triggered aggressive monetary policy tightening for the first time in more than a decade, prompting a major reassessment of capital market risk and returns,” the report says. Bond markets slumped and most leading stock market indices posted double-digit falls.

The 10 largest ultra wealth markets are all located across three regions, with four in Europe, four in Asia and two in North America. This trend has remained unchanged over the past decade. The report says the UHNW populations and wealth would increase across each of the seven main regions over the next five years, although rates of expansion will vary.

Asia is projected to record the strongest growth in its ultra wealthy population and cumulative net worth, lifting the region's share of global UHNW wealth to 29% (up from 27% in 2022 and just 15% in 2004).

“An expanding Indian economy will be a key driver, as will the trend for businesses to “regionalise” and diversify their supply chains away from the Chinese mainland, supporting industrial, logistical and real estate activity in other key Asian markets,” the report highlights.



# Advanced Biodegradable Nanocomposite Film

- Recently, researchers from the **Institute of Advanced Study in Science and Technology (IASST), Guwahati**, have successfully fabricated a **biodegradable nanocomposite film** with **optical and mechanical properties**.

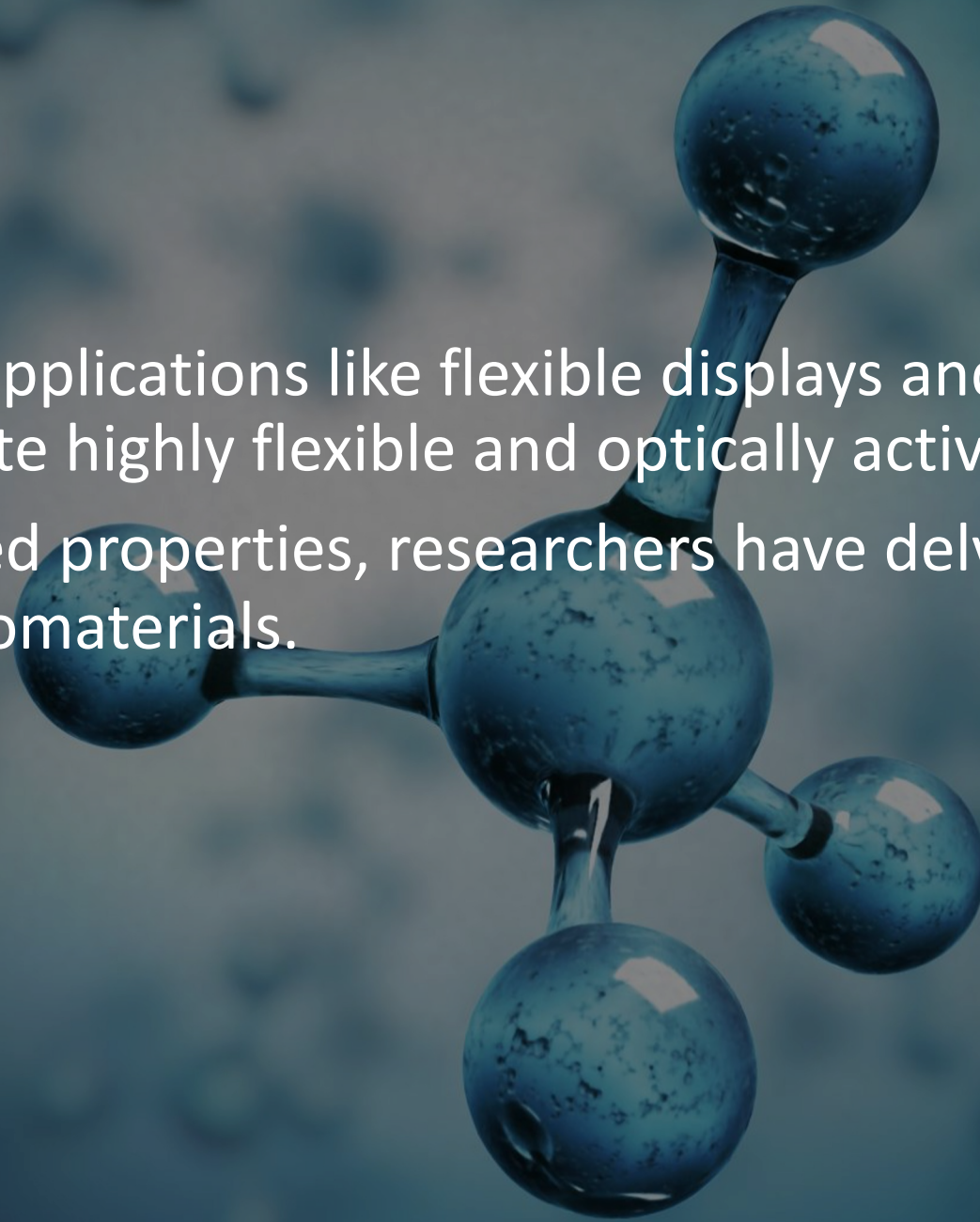
- 



- What are the Major Highlights of the Research?
- The research encompasses the **utilization of polymers**, which have become essential in various industries due to their **adaptability and versatility**, spanning from **packaging to medical equipment**.

-

- However, advanced applications like flexible displays and organic LED technology necessitate highly flexible and optically active polymers.
- To attain these desired properties, researchers have delved into the incorporation of nanomaterials.



- Among the selection of synthetic biodegradable polymers, polyvinyl alcohol (PVA) has emerged as a standout choice.
- PVA boasts exceptional film-forming capabilities and robust mechanical properties. Furthermore, it can be tailored for optical and mechanical attributes by introducing suitable nanomaterials.



- 
- A microscopic image of plant tissue, likely a cross-section of a stem or root, showing various cellular structures. The image is overlaid with a semi-transparent white text box containing two bullet points. In the bottom-left corner, there are four yellow dashed lines.
- This nanocomposite film demonstrated superior optical, mechanical, and antimicrobial features when compared to pure PVA films.
  - The existence of CuO nanoparticles within the polymer matrix was verified through a range of spectroscopic and microscopic techniques.

• **With reference to the use of nanotechnology in the health sector, which of the following statements is/are correct? (2015)**

1. Targeted drug delivery is made possible by nanotechnology.
2. Nanotechnology can largely contribute to gene therapy.

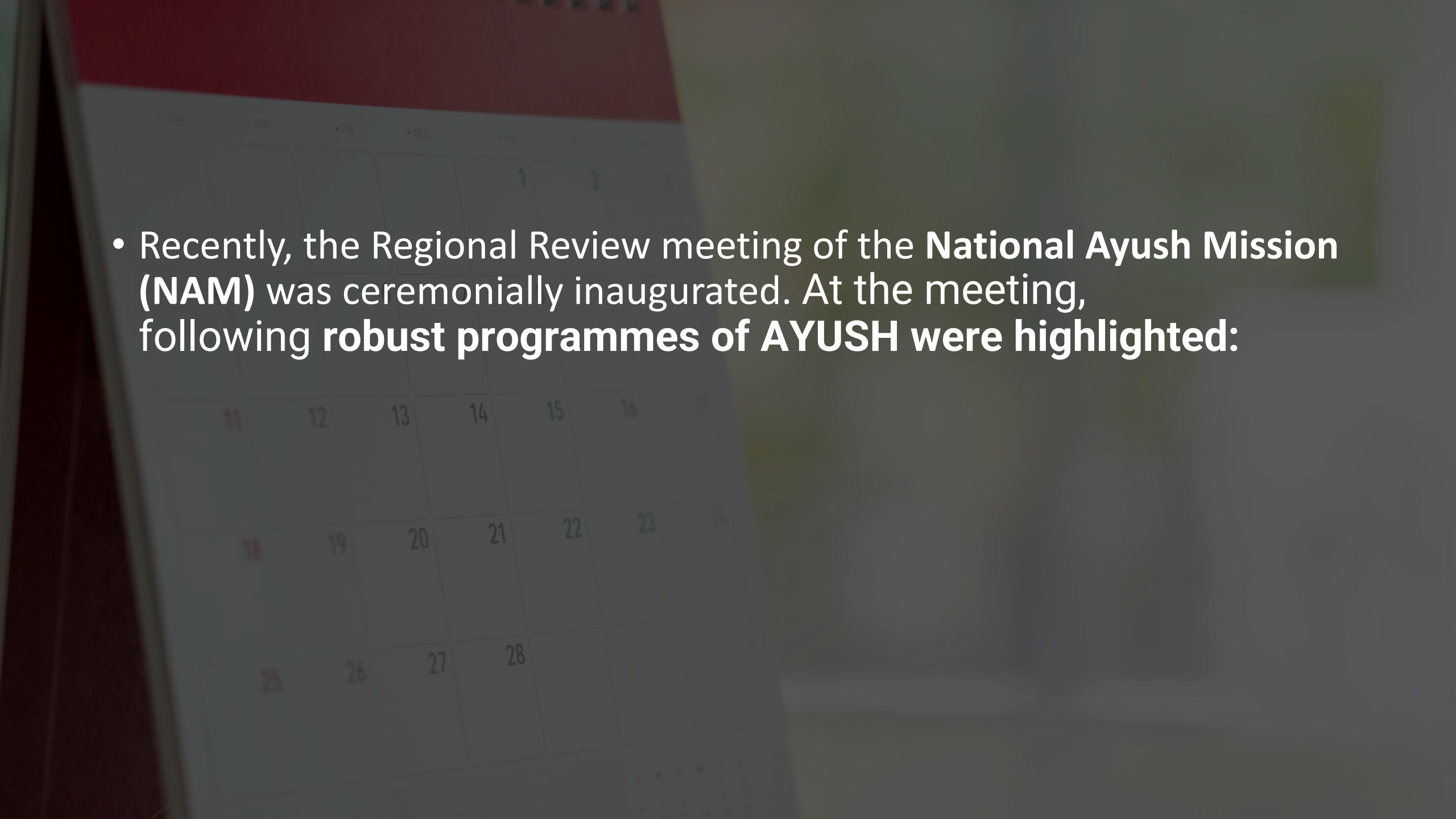
• **Select the correct answer using the code given below:**

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2



The background of the image is a complex network of thin, light gray lines connecting numerous small, semi-transparent green and black dots. The dots are scattered across the entire frame, creating a dense, interconnected web-like pattern. The overall color palette is muted, consisting of various shades of green, black, and gray.


# National Ayush Mission

- 
- Recently, the Regional Review meeting of the **National Ayush Mission (NAM)** was ceremonially inaugurated. At the meeting, following **robust programmes of AYUSH** were highlighted:

**Ayurvediya:** Promotion of healthy lifestyle through Ayush for school children

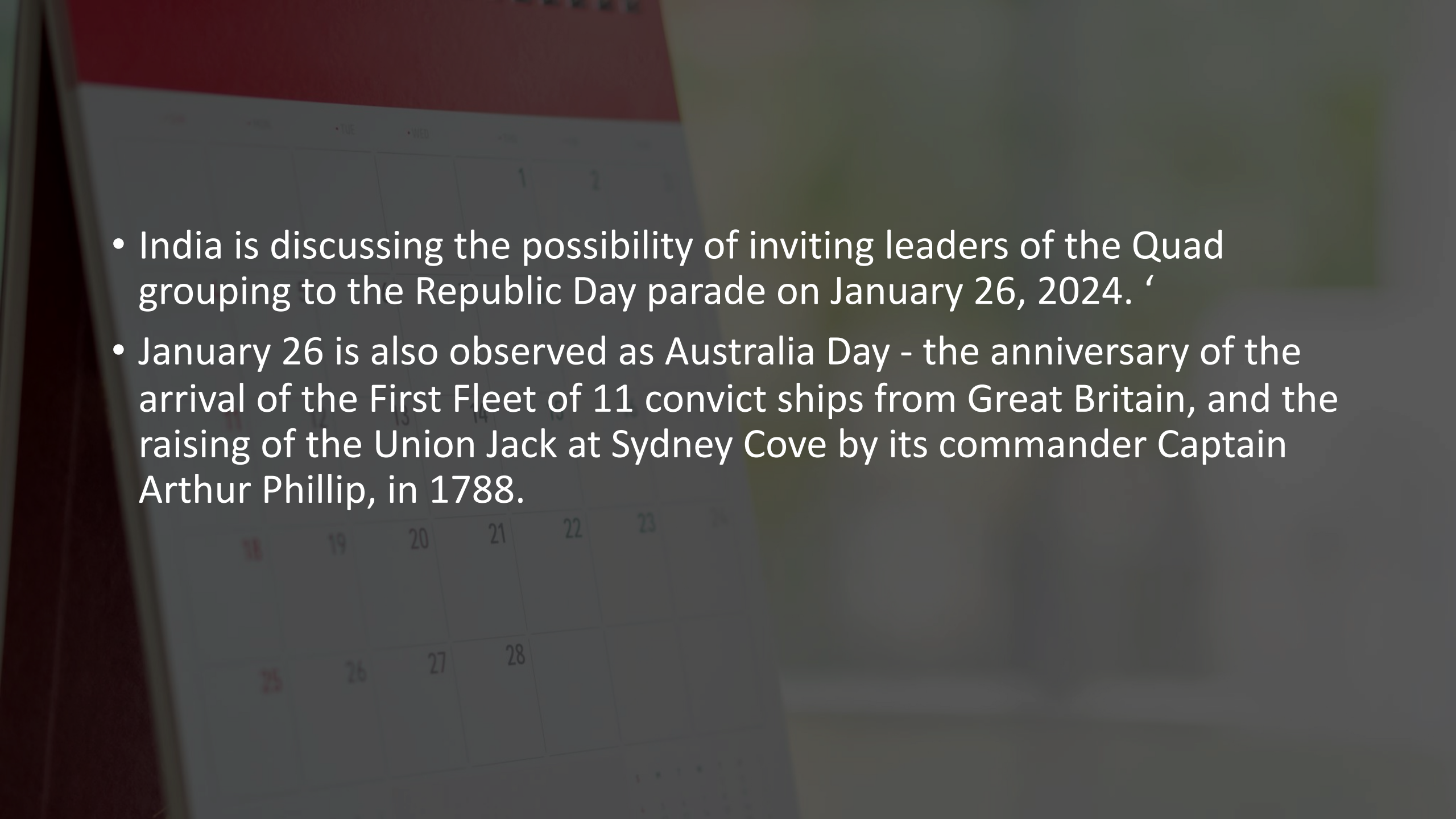
**Supraja:** Ayush for Maternal & Neonatal intervention


**Vayomitra:** Ayush based geriatric programme; prevention and management of Osteoarthritis and other Musculoskeletal disorders

- 
- Under NAM, the Ministry of Ayush is working on operationalisation of 12,500 **Ayush Health and Wellness Centres (AHWCs)** through support of State/UT Governments by **2023-24**.

The background of the image is a dark brown to olive green gradient. It is overlaid with a complex network of thin, light-colored lines connecting numerous small, semi-transparent blue and white circular nodes. The nodes are scattered across the entire frame, creating a sense of interconnectedness and digital technology.

Quad Leaders Invited on India's Republic Day

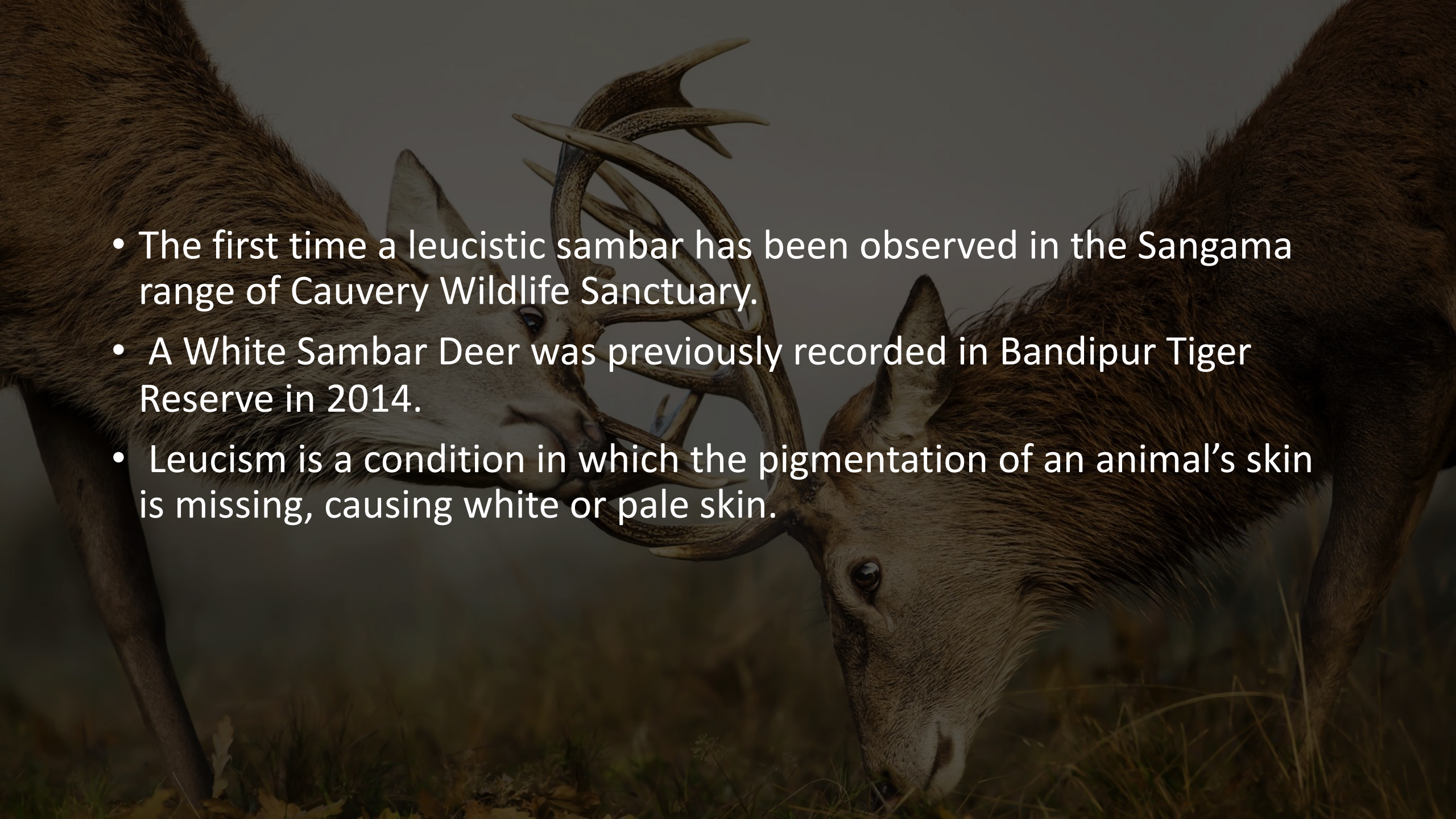
- 
- India is discussing the possibility of inviting leaders of the Quad grouping to the Republic Day parade on January 26, 2024. ‘
  - January 26 is also observed as Australia Day - the anniversary of the arrival of the First Fleet of 11 convict ships from Great Britain, and the raising of the Union Jack at Sydney Cove by its commander Captain Arthur Phillip, in 1788.

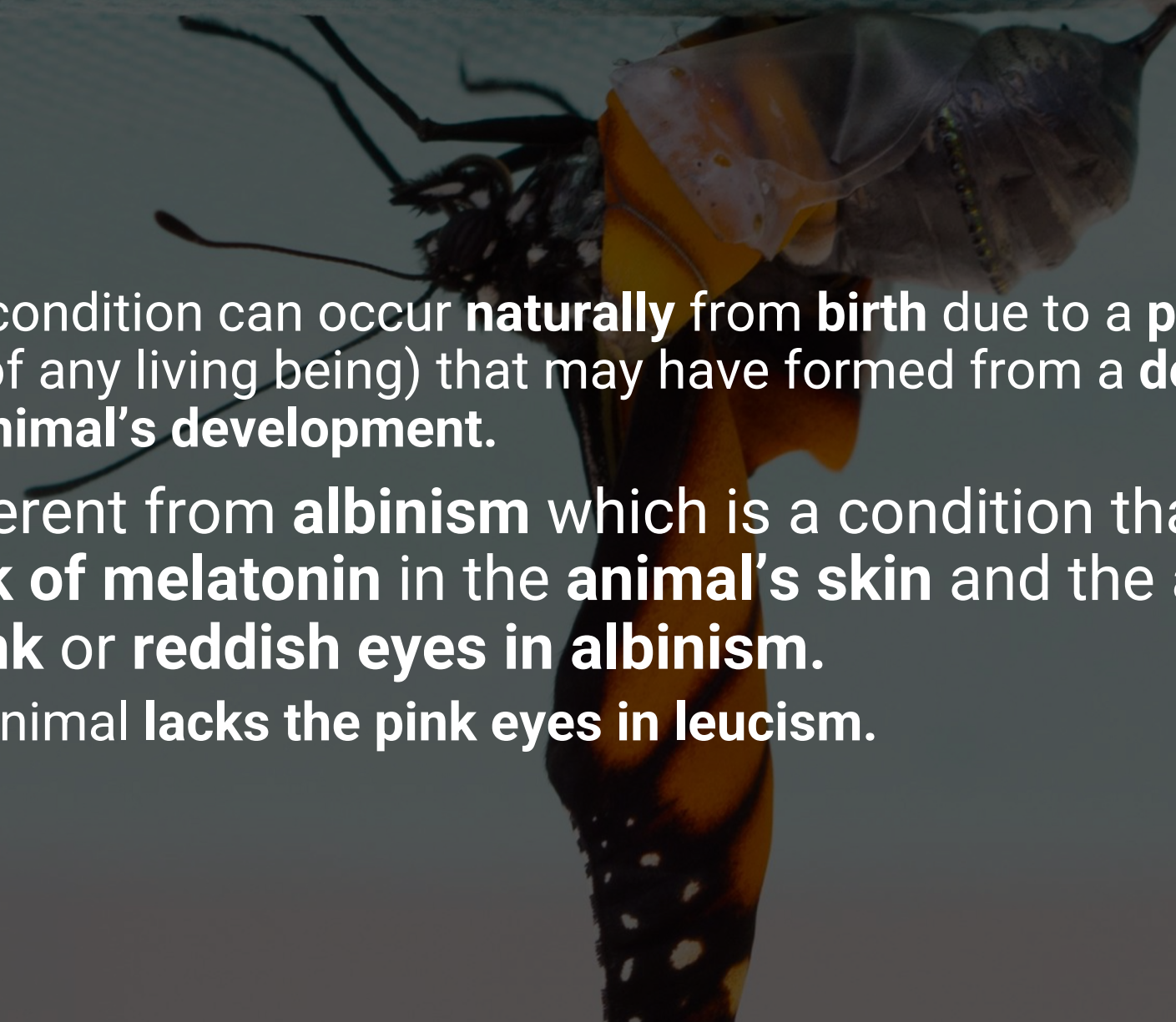
- 
- The idea of Quad was **first mooted by Japanese Prime Minister Shinzo Abe in 2007**. However, it came into being in 2017.



White Sambar in Cauvery Wildlife Sanctuary



- 
- A photograph of two Sambar deer with large, multi-tined antlers. One deer is on the left, facing right, and the other is on the right, facing left. They are standing in a field of tall grass. The image is dimly lit, with a dark, semi-transparent overlay that serves as a background for the text.
- The first time a leucistic sambar has been observed in the Sangama range of Cauvery Wildlife Sanctuary.
  - A White Sambar Deer was previously recorded in Bandipur Tiger Reserve in 2014.
  - Leucism is a condition in which the pigmentation of an animal's skin is missing, causing white or pale skin.

- 
- A monarch caterpillar is shown on a leaf, with a monarch butterfly emerging from its pupa. The caterpillar is yellow with black stripes, and the pupa is white with yellow and black markings. The butterfly is partially visible, showing its characteristic orange and black wings.
- This condition can occur **naturally** from **birth** due to a **phenotype** (a trait of any living being) that may have formed from a **defect** in the **animal's development**.
  - It is different from **albinism** which is a condition that arises due to a **lack of melatonin** in the **animal's skin** and the animal will have **pink or reddish eyes in albinism**.
    - The animal **lacks the pink eyes in leucism**.



The background features a glowing blue digital globe composed of a grid of dots. Overlaid on the globe are various data visualization elements, including a line graph with an upward-trending arrow on the left, and several vertical bar charts on the right. Scattered throughout the scene are binary digits (0s and 1s) in various colors (cyan, red, white) and sizes, along with thin vertical lines and small circles, creating a sense of digital connectivity and data flow.

# G20 & Human-Centric Globalisation

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- The Prime Minister Narendra Modi recently wrote a column ahead of the Group of Twenty (G20) summit.
    - The column is titled, **Human-Centric Globalisation: Taking G20 to the Last Mile, Leaving None Behind.**

- 
- **India's Presidency:** The presidency of the G20 rotates every year among members.
    - **India** is holding the **G20 Presidency** from **1 December 2022** to **30 November 2023**.
  - **India's Plan:** According to the Ministry of External Affairs, India will **strengthen international support** for priorities of vital importance to **developing countries** in diverse **social and economic sectors**, ranging from

Gati Shakti  
Vishwavidyalaya &  
Airbus sign MoU on  
Education

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- Recently, the **Memorandum of Understanding (MoU)** has been signed between **Indian Railways' Gati Shakti Vishwavidyalaya (GSV) Vadodara** and **Airbus (world's largest commercial aircraft manufacturer)**, for aerospace teaching and research.

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This collaboration aims to develop a **C295 aircraft** production facility in Vadodara, Gujarat, indicating a renewed commitment to India's aerospace sector.



It is poised to create abundant job opportunities for students aligned with the ever evolving aviation industry, further strengthening India's position in the Global aviation landscape.

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## About Gati Shakti Vishwavidyalaya (GSV)

It is a central university sponsored by the **Ministry of Railways**. Gati Shakti Vishwavidyalaya (GSV) Vadodara was established through an Act of Parliament in 2022.

It is a “first of its kind” university aiming to fulfill the mandate of the **National Developmental Plans (PM Gati Shakti National Master Plan 2021 and National Logistics Policy 2022)** across railways, shipping, ports, highways , roads, waterways, and aviation etc.

The background features a complex network diagram with numerous nodes of various colors (red, blue, green, brown, pink) and patterns (solid, striped, dotted, dashed). These nodes are interconnected by a web of thin, light-colored lines. The entire scene is set against a light gray background with a subtle grid of small dots. A yellow horizontal bar is positioned above the text.

# World Physiotherapy Day (World PT Day)



- The 8th of September has been observed as World Physiotherapy Day to honor the Physiotherapists and Spotlighting Arthritis Awareness.

-

**History:** In **1996, 8 September** was designated as World PT Day. The date was chosen to commemorate the foundation day of the **International Confederation of Physiotherapy (WCPT) in 1951**, which was later known as **World Physiotherapy**.

**Significance:** The day marks the unity and solidarity of the global physiotherapy community. It is an opportunity to recognise the work that physiotherapists do for their patients and community.

**SSC CGL TIER1 2023**

**Date-18.july.2023**

**shift 1 and shift 2**

**current affairs**

**In December 2021 , the Supreme Court suspended OBC quotas for local body elections in which of the following states?**

West Bengal and Odisha

Maharashtra and Madhya Pradesh

Bihar and Uttar Pradesh

Andhra Pradesh and Karnataka

**Maharashtra and Madhya Pradesh**

**Who became the first women officer to join army Aviation crops as Combat Aviator after the successful completion of training in may 2022?**

Captain Abhiilasa Barak  
Captain Shiva Chauhan  
Captain Gursimran kour  
Captain Manju sharma

**Captain Abhiilasa Barak**



**President Ram Nath Kovind conferred which award on Matha B Manjamma for jogati Nrithyaa in 2021?**

Padma bhusan

Padma shri

Padma Vibhusan

Sangeet Natak academy

**Padma shri**

**Who among the following sportspersons was awarded the Chhattisgarh Veerni Award 2021?**

Shikhar Dhawan

Bajrang punia

Dutee Chand

P V Sindhu

**Dutee Chand**

**The telugu movie RRR created History by winning a Golden globe for the NATU NATU song composed by whom among the following personalities ?**

Shankar-Ehsaan-Loy

Mervin Solomon

MM keeravani

AR Rehman

**MM keeravani**

**Who among the following has been named as the world bank education Adviser for the period of June 2021 to June 2024?**

Keisha Thorpe

Peter Tabichi

Vishwabir Ahuja

Ranjitsinh Disale

**Ranjitsinh Disale**

**The Indian railways on October 7 2021, Launched and Operated two long-haul freight trains named \_\_\_\_\_ to provides a very effective solution to the problem of capacity constraints in critical Rail sections.**

Himalaya and Thar  
Aakash and Vijay  
Sagar and Prithvi  
Trishul and garuda

**Trishul and garuda**

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Thank you  
guys.

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