

DAILY CURRENT AFFAIRS

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Operation Sindoor- a reshaping confrontation

S3: Internal Security

Operation Sindoor — a reshaping of confrontation

he recent India-Pakistan standoff presents a significant shift in the evolution of modern day warfare. It signifies a transformation in India's military engagement that transcends a traditional understanding of how wars are fought in South Asia and beyond. Operation Sindoor can no Asia and Deyond. Operation Sindoor can no longer be seen as a bilateral dispute between the two countries but as an important example of how wars are fought globally, highlighting how technological innovation, strategic calculus, and information manipulation have fundamentally reshaped how military confrontation happens. Drune warfarie is the most revolutionary.

Drone warfare is the most revolutionary feature of this war. The use of unmanned aerial teature of this war. The use of unmanned aerial vehicles (UAVs) is a sharp departure from traditional operating strategies, as emphasised by Prime Minister Narendra Modi in his recent speech. In contrast to traditional air combat, which was based on costly and manned fighter its traditional air compared to the cost of the cost o jets, contemporary drone warfare is a case of deployment of asymmetric technology. Operation Sindoor has also demonstrated that conventional military force is now not about standalone and expensive platforms, but the capability to introduce swarms of inexpensive, expendable reconnaissance and strike vehicles in order to deluge the enemy.

Drones in the matrix

India's reported interception of Pakistan's attempted drone intrusion that reportedly attempted arone intrusion that reportedly involved between 300 to 400 Songar drones (Turkish-made) across 36 locations demonstrates the scale of this technological revolution. This approach has transformed aerial warfare from a high-stakes, high-risk engagement to a more calculated, probabilistic domain. The SkyStriker Kamekazi drones that India used, allowed India tea methe definition consultative enthers. to probe defensive capabilities, gather intelligence about Pakistan's air defence system. intelligence about Pakistan's air defence system, and conduct precision strikes with minimal human risk and collateral damage. The proliferation of drone technologies in all modern conflicts underscores a normalisation of aerial warfare capabilities that was unimaginable just a detector.

Air defence has moved from fixed Air defence has moved from inxed, hardware-oriented methods to layered, dynamic networks of defence. India's multi-layered air defence – that is composed of indigenous systems such as Akash and Quick Reaction Surfaceto-Air Missiles (QRSAM) together with imported state-of-the-art systems such as Russia's S-4400 and the Brack-8 (violuth development). S-400 and the Barak-8 (jointly developed by Israel and India) – is an example of the new strategic philosophy of a layered defence approach, as emphasized in a press release by Lieutenant General Rajiv Ghai, the present

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Director General of Military Operations. India's Akashteer system, that digitally merges radar information for real-time decision-making, is an evolutionary step in defensive capabilities. No longer are missile systems a concern but the development of an adaptive, smart defence network that is able to process and neutralise several simultaneous threats.

Information, deterrence and doctrine Information warfare has emerged as perhaps th most sophisticated battlefield in the turn of the event. The confrontation has also exposed how disinformation has transformed itself from a mere propaganda tool to a strategic weapon at an unprecedented scale. Pakistan's information unprecedented scale. Pakistan's information operations demonstrated a nuanced approach to psychological warfare, leveraging digital platforms to create alternative narratives and manipulate international and domestic perceptions, and attempting to fracture India's proceda. By circulating decreased vidence. morale. By circulating doctored videos, fabricated claims and strategically crafted social media content, it was evident that countries can

media content, it was evident that countries can now wage psychological operations that extend far beyond traditional propaganda mechanisms. The parallels with the modern wars such as the Israel-Palestine and Russia-Ukraine wars are quite evident. Both conflicts illustrate how modern warfare has transcended physical boundaries, transforming information spaces into multiple theatres of engagement. The ability to control narratives, manipulate international attention and create strategic ambiguity has become as crucial as traditional military capabilities. This represents a fundamental shift from kinetic warfare to a more nuanced form of conflict where perception management can be as decisive as military action.

Technological independence has become an Technological independence has become an imperative strategic necessity, India's show of indigenous platforms such as the Akash missile system and its current work on Project Kusha (a missile project) reflect a larger worldwide trend towards technological independence. It is not just a question of military prowess but also an all-ancomposition strategy of minimising foreign all-encompassing strategy of minimising foreign dependency, generating economic opportunities

dependency, generating economic opportunities through exports of defence products, and asserting technological credibility at the international level. India's strategic deterrence approach has seen a qualitative transformation. The standoff with Pakistan has shown a sophisticated style of secalation management, whose India has secalation management. escalation management, where India has signalled strategic capabilities without necessitating full-scale war. This calibrated response model permitted the firm projection of military intent while leaving space for diplomatic flexibility and communication. It was a nuanced departure from traditional models of binary military engagement, where conflicts were normally framed as either total war or total

There seems a visible shift in India's military warfighting doctrine, signalling a departure from warigning doctrine, signaling a ceparture from its historically defensive posture to a more proactive, precision-oriented strategic approach. Perhaps the most evident and strategic shift after India's enunciation of its nuclear doctrine can be sensed in the Prime Minister's address on May 12. This doctrinal shift can be characterised by three critical elements. critical elements.

First, the capacity to respond quickly to provocations with accurately measured force: provocations with accurately measured force; second, the development of a comprehensive and layered defence and offence capability that combines indigenous technologies with cutting-edge imported systems; and third, an advanced escalation control posture that makes precision projection of military power possible without precipitating all-out war. This was reiterated in the May 12 speech by explaining how war has created 'new normal' in the 'new age warfare' for India.

Joint operations by the forces Of note is a transformation in joint operations by the Indian armed forces, reflected in unprecedented levels of inter-service coordination that cut across the conventional coordination that cut across the conventional organisational silos. The Integrated Air Command and Control System (IACCS) became the operational spine, synchronising action by the Indian Army, the Indian Away, and the Indian Air Force in real time. It fulfilled inter-service in the Indian Air Street in the Indian Indian Air Street in the Indian India integration from a theoretical concept and transformed it into an operational reality. Internal and external intelligence agencies delivered a

and external intelligence agencies occivered a unified support that facilitated strategic decision-making and precision targeting. But the democratisation of warfare technologies also poses challenges and opportunities for India. With cutting-edge technologies becoming more accessible, Pakistan is also now capable of creating assuments. is also now capable of creating asymmetric is also now capable of creating asymmetric warfare capabilities that can successfully counter the conventional military power of India. This transformation calls for a complete overhaul of military strategy, intelligence gathering, and defence planning. The most important lesson from this confrontation may be the realisation that contemporary warfare is inherently multi-dimensional. Victory is no longer measured in terms of territorial connects or brute military. in terms of territorial conquest or brute military power, but in terms of the capacity to combine technological, informational and psychological methods in an operational model.

important lesson is that contemporary warfare is now multidimensional

The most

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Key Points

+ Showcase of modern worfare * Op Sindoor marks paradigm shift

1) DRONES & TACTICAL INNOVATION

interception of 300-400 Twekish origin Soggar drone

(Skystaker Kamikaje drones

G Akachteer (integrated air defonce interface).

2.) TECH ENABLED DECISION ARCHITECTURE

() Akashtees, Project Kusha → reflect adaption of AI ; real Hime digital merging of battlified data

> (IACCS) Integrated Air Command & Control System (one AI driven target recognition experems)

3.) INFORMATION WARFARE & NARRATIVE CONTROL

Pakistan: used Deepfake videas + psychological wantone to distant perceptions.

SIGNIFICANCE

Social media exploitationi. " un permation as Central weapon"

Principled criminalisation and the police as pivot

IMRAN PRATAPGARHI VS STATE OF GUJARAT

Scruling reaserts that criminalisation must be principled & fied to Procedural Safeguards Kole of police discretion potential overreach

SYLLABUS

GIS2: Grovernauce

(30/2 of low enforcement) agencies

Principled criminalisation and the police as pivot

rocedural law tends to receive less attention than substantive law in criminal law discussions. A major reason for this is that procedural criminal law is seen as dealing with the prosaic question of 'how', while the more dramatic question of 'what' crimes and punishments exist are associated with substantive criminal law. But, in reality, procedure is the beating heart of action. The recent Suprement of the procedure law, the beating heart of action. The recent Suprement of the police to India's criminal procedure law, the Bharatiya Nagarik Suraksha Sanhita (BNSS).

A straightforward way of thinking about criminalisation is in terms of the exercise of state power and duty. Criminalisation is about the state's power to name a wrong/harm as 'crime' and impose 'punishment'. It is, equally, about the state's power to name a wrong/harm as 'crime' and impose 'punishment' as, equally, about the state's duty to address wrongdoing by holding individuals accountable publicly and administering appropriate penalties. Criminal law intensitational democracy seeks to ensure a tent setting the control of the property.

Legal philosopher Victor Tadros suggests that the state's duty/power to criminalise, prosecute, convict, publicly condemn and punish the conduct. Within the broader normative context, criminalisation exists a part of Social institutions and practices that

condemn and punish the conduct. Within the broader normative context, criminalisation exists as part of social institutions and printices that address wrongloing, such as families and private law. The claim, therefore a continuous control hat criminalisation has a role independent of its effects that can be readed through the operations of the criminal law.

That said, the full force of criminalisation depends on criminal law and the workings of the criminal justice system. Given the powerful symbolic and concrete effects of criminalisation, legal scholars have sought to identify one (or



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more) 'master principle(s)' on the basis of which the kinds of behaviours that should be criminalised can be satisfactorily decided. Tafjana Hörnle makes a cogent case for three principles: conduct should be criminalised only if first, it is incompatible with important collective interests, second, it constitutes a violent attack against other persons, and third, it violates another person's right to non-intervention. These principles can be seen at the core of criminalisation under India's substantive criminal aw, the Bharatiya Nyaya Sanhita (BNS).

Even If the substantive criminal law structures criminalisation in accordance with pragmatic and restrictive principles, some social groups and behaviours can be over-criminalised and others under-criminalised.

This is because beyond the conceptual

under-criminalised.

It is because beyond the conceptual labelling lies the actual labelling of acts and individuals as 'crime' and 'criminal' through the process of detecting, recording, arresting, charging, prosecuting, convicting and sentencing. Therefore, it is essential to pay equal, or possibly more, attention to the powers and functions of criminal justice agencies under the procedural law that governs the process.

The police as the focus

The police as the focus inevitably shifts to the role of the police because they spearhead the process of criminalisation by detecting, registering, investigating crime, and, most conspicuously, by arresting suspects. There is general consensus that the police exercise considerable discretion in their daily work. As a result, the avaiture and the actuary. considerable discretion in their daily work. As a result, the nature and the extent of criminalisation is largely shaped by how this discretionary authority is regulated and used. A case in point here is the possibility of overzealous policing of non-harmful wrongdoing (minor infractions) deflecting attention from harmful wrongdoing (serious offences). A key provision in the BNS is Section 173(3), which ostensibly confers more discretion on the

police to decide which cases to investigate, but should actually be viewed as directed towards preventing unnecessary criminalisation due to police overreach. Under the provision, when the officer in

Redefines Inlia's military readiness

→ Emphaiize tech Lelf reliance. (Atmonishlauta)

Trende of information manipulation,

Under the provision, when the officer in charge of a police station receives information relating to the commission of a cognisable offence punishable for three years or more but less than seven years, they need not immediately register a First information Report (FIR) and investigate. Rather, they have the option to conduct a declinately a inquiry within 14 days to check when the option of the conduction of the conduction

the matter.

The case in question
In Imman Pratapgarhi, the Court has interpreted such a preliminary inquiry as a positive obligation on the police where an offence covered under the provision is allegedly committed in the exercise of the fundamental right to freedom of speech and expression guaranteed by the Constitution. The Court quashed a first information report against Mr. Pratapgarhi, a Member of the Rajva Sabha, for posting what was alleged to be an inflammatory poem on a social media platform. The Court found that the police had gone overboard by launching an investigation without complying with the provision that enables them to first conduct a preliminary inquiry. Referring to Section 1730, the Judgment notes that '[the intention appears to be to prevent the registration of FIRs in frivolus cases...'

Principled criminalisation is no doubt central to the legitimacy of the state's power to criminalise. Also, it is as crucial for substantive law to be defined by judicious principles as it is for procedural law to be able to control the actual effects of criminalisation. But none of this works unless the police show a commitment to responsible criminalisation and are held accountable.





A recent ruling by the top court

is a reminder of how principled criminalisation

responsible actions and commitment by the police

is linked to



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Key Points

WHAT IS TRINCPLED CRIMINALISATION

Criminalisation is the state's power to define wrongs as cumes and impose punishments.

Victor Tadros: describes this as a part of larger moral function of the state in a democratic society. (-to punish wrongs only after due process)

COURT KULING

4 Queshed an FIR against the politician over a social neftia poet peen as

Is held police must have first conducted a popliminary angusy mules Section 173/3) BNSS Defore

- allows police 14 days to conduct BNSS 3 Preliminary ingiting un cases with punishment of 3 years or more before

ONCEPTUAL FRAMEWORK/

Criminalisation should be based on Master frinciples

· offence must conflict with core public interest.
· must constitute violent harm

must violate non-intervention rights (eg privacy)

Advocates reformist policing culture shifting from mechanical criminalisation to responsible descrition

Strike bolance blur public order & fundamental rights cap miene of digital spelch related leves.





The road to safety

roads, transportation, Safety measures

1.68 Lakh road accidents deaths in 2022.

-> Eumonic cost of road crushes 3% of GIDP.

→ Artile &1 (Right to life)

The road to safety

ndia is at a crucial juncture in mobility transformation, where economic growth and urbanisation bring both opportunities and challenges to road safety. With one of the world's largest road networks, India also carries the burden of having among the highest number of road traffic fatalities globally. In 2022, India recorded 1.68 lakh road accident fatalities. This translates to approximately 12.2 deaths per 1 lakh population. To put this in perspective, Japan and the U.K. have road traffic death rates of 2.57 and 2.61, respectively.

The economic repercussions of this are equally alarming. Road crashes cost India an estimated 3% of its GDP annually. This hampers national development and underscores the urgency for effective road safety measures.

Right to life The foundation of all road safety efforts must rest on a fundamental constitutional principle: the right to safe road travel is an essential component of the right to life under Article 21 of the under Article 21 of the Constitution. Every citizen, whether a pedestrian, cyclist, or driver, has the right to move through public spaces without fear of injury or death. Recognising this right imposes a moral and legal duty on the state and society to treat road safety not as a privilege or technical matter, but as a human right and public good.

India's urban landscape is poised for significant transformation. By 2047, the urban population is expected to account for about 50% of the total population. This rapid urbanisation will be accompanied by a substantial rise in vehicle ownership. The growing urban and vehicular population necessitates people-centric interventions to ensure that streets remain safe, especially for vulnerable road users such as pedestrians, cyclists, the elderly,

and public transport commuters.
At the heart of future-ready
urban mobility lies the Safe



Alok Mittal Senior Indian Police Service officer in



Sarika Panda Road safety expert

System Approach, which places human vulnerability and error at the centre of road design. This philosophy acknowledges that people will make mistakes, but those mistakes should not result in fatalities or serious injuries. Prioritising pedestrian safety is fundamental under this approach. Urban streets must be redesigned with wider footpaths, dedicated cycling tracks, well-marked crossings, pedestrian refuge islands, reduced speed limits, and calming measures such as raised intersections. This system moves away from blaming individual road users and instead emphasises creating a forgiving and resilient road environment.

Recognising the urgency of the road safety crisis, the Ministry of Road Transport and Highways (MoRTH) has launched a series of targeted initiatives. These include rectification of over 5,000 black spots on highways, mandatory road safety audits, and stricter road safety audits, and stricter safety norms such as airbags and anti-lock braking systems in vehicles. Electronic enforcement mechanisms such as speed cameras and CCTV surveillance have also been rolled out to improve compliance. In a major push to strengthen driver training, Union Minister Nitin Gadkari recently announced the setting up of driving training centres and vehicle fitness centres in every district. This bold initiative aims to ensure safer driving practices and reduce accidents caused by

reduce actions caused by unskilled driving.

To meet the massive financial requirements of road safety improvements, innovative funding models must be explored. One such approach could be a nationwide mandate for all automobile manufacturers to channel their entire Corporate Social Responsibility funds towards road safety initiatives for the next 20-25 years. This investment, executed in collaboration with the Indian government, could support black spot elimination, public awareness campaigns, emergency trauma

care, driver training, and road safety research. As primary stakeholders in the mobility ecosystem, auto-makers bear a ecosystem, auto-makers bear a shared responsibility for making Indian roads safer, and this long-term commitment can become a cornerstone of India's Vision Zero ambitions.

Road safety strategy The four Es of road safety -engineering, enforcement, education, and emergency care – remain the cornerstone of an integrated road safety strategy. While enforcement and emergency care are gaining ground, there is an urgent need to strengthen infrastructure design and user education to prevent accidents before they occur. Importantly, the World Bank

Report 2020 outlines a strategic framework for enhancing road safety in India. It emphasises the need for substantial investment, estimating that an additional \$109 billion over the next decade is required to achieve a 50% reduction in road crash fatalities. The report highlights that this The report highlights that this investment will yield enormous social and economic returns by saving lives, reducing injuries, and improving mobility efficiency.

The iRAP Four States Report

and other global analyses further confirm that investments in road safety deliver high returns. For every rupee spent on proven safety interventions, India can save up to four rupees in avoided crash costs, lives saved, and productivity gains. India's roads must also become

kinder to the most vulnerable kinder to the most vulnerable users – pedestrians, cyclists, and children. Roads are not just conduits for vehicles but shared public spaces that reflect our civic values. Urban mobility must be reimagined to prioritise inclusivity and safety over speed. As we envision Viksit Bharat 2047, the path ahead must be paved with accountability and data-driven policy. Road safety is not a luxury; it is a prerequisite for sustainable and equitable development.

Urban mobility must be reimagined to prioritise inclusivity and safety over speed

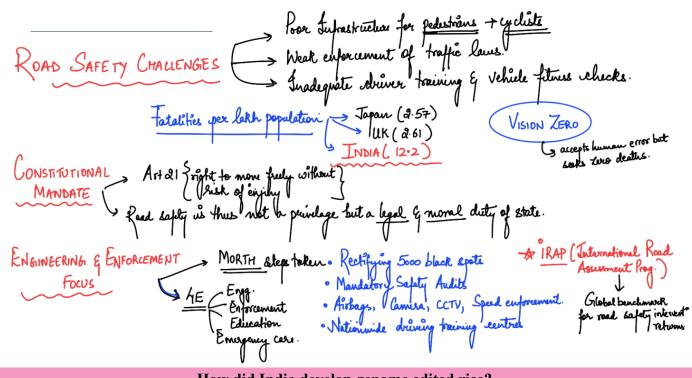
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How did India develop genome edited rice?



How did India develop genome edited rice?











Key Points



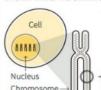
- fild 5.3 fone hectare 20 days early maturity
 - PusaDSR Rice 1
- · 14.6% higher yield than parent
- water scare zones

gene editing tool (like CRISPAR) Yuld trual

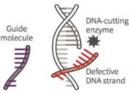
DNA editing

A DNA editing technique, called CRISPR/Cas9, works like a biological version of a word-processing programme's "find and replace" function.

HOW THE TECHNIQUE WORKS









A cell is transfected with an enzyme complex containing: Guide molecule

Healthy DNA copy **★** DNA-cutting

enzyme

A specially designed synthetic guide molecule finds the target DNA strand.

An enzyme cuts off the target DNA strand.

The defective DNA strand is replaced with a healthy copy.

Sources: Reuters; Nature; Massachusetts Institute of Technology



Justice B.R. Gavai takes over as CJI for a six-month tenure

His time in office could see important hearings in the challenges to the Places of Worship Act and the Waqf (Amendment) Act; he has been part of many impactful decisions at the Supreme Court, including upholding of abrogation of Article 370

The Hindu Bureau NEW DELHI

ustice Bhushan Ram-krishna Gavai was sworn in by Presi-dent Droupadi Murmu as the 52nd Chief Justice of In-dia at the Rashtrapati Bha-van on Wednesday.

He took his oath of of-fice, pledging his commit-ment to uphold the Consti-tution and faithfully discharge duties, in Hindi. Chief Justice Gavai ack-nowledged the applause with folded hands, shook hands with Vice-President Jagdeep Dhankar, Prime Minister Narendra Modi, Law Minister Arjun Ram Meghwal, Home Ministr-les and fandy members sit-tes and fandy members sit-Amit Shah, other dignitaries and family members sitting in the foremost row, including his immediate predecessor, Justice Sanjiv Khanna.

The Chief Justice of India touched his mother's feet. Mr. Modi was also seen going up to the Chief Justice's mother to greet her.

Justice's mother to greet her. Judges of the Supreme Court and High Courts, both sitting and retired, were present at the ceremony. Chief Justice Gavai has a tenure of over six months



In high office: Justice B.R. Gavai takes oath as the 52nd Chief Justice of India during the swearing-in ceremony, at Rashtrapati Bhavan, next to President Droupadi Murmu on Wednesday. PTI

till November 23. He was elevated as a judge of the Supreme Court on May 24, 2019 from the Bombay High Court.

Justice Gavai is the first Buddhist Chief Justice of India. He was born on November 24, 1960 at Amravati. He joined the Bar on March 16, 1985. Justice Gavai's father, Ramakrishna Suryabhan Gavai, also known as 'Dadasaheb', was a former Governor of Bihar and a prominent Da-

lit leader. Known as a bold and decisive judge who speaks his mind, Chief Justice Gavai will have a tenure that may see important hearings in the challenges to the Places of Worship Act and the Waqf (Amendment) Act of 2025.

As a Supreme Court judge, he was part of many impactful decisions at the Supreme Court, including the upholding of abrogation of Article 370 of the Constitution and the strik-

ing down of the electoral bonds scheme. He was part of a Consti-tution Bench which held that States have a right to sub-classify Scheduled Castes.

Castes.

He headed the Bench
which had ordered the release of Perarivalan, a convict in the Rajiv Gandhi assassination case.

As a lawyer, he had
practised independently in
the Bombay High Court
from 1987 to 1990. After

Bench to hear pleas against Waqf law today

NEW DELHI A Bench of Chief Justice of India B.R. Gavai and Justice Augustine George Masih is scheduled to hear the scheduled to hear the challenge to the Waqf (Amendment) Act, 2025, on Thursday. The case last came up before a three-judge Special Bench led by Chief Justice Gavai's predecessor, Justice Sanjiv Khanna, on May 5.

Justice Khanna had at the time expressed rejulctance to Justice Khanna had at the tire expressed reluctance to continue hearing the case, saying he had very little time till his retirement on May 13. The case was then posted on May 15.

1990, he appeared mainly before the Nagpur Bench of the Bombay High Court. He had practised in Constitutional and administrative law, and was standing counsel for the Municipal Corporation of Nagpur, Amravati Municipal Corporation and Amravati University.

He was elevated as Additional Judge of the Bombay High Court in 2003 and became a Permanent Judge in November 2005.







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Scientists make unique 2D metals

Syllabus: SGT. (GS-3) -> Nanotech, Material Suince G15-1 (Geog) -> Distribution & new of metals & minusels

What are 20 Metals?

Afonically thin sheets of motal -> where the metal atoms are farranged in a two dimensional (2D) layou like a flat sheet eg: 2D (Bismith) -> 0-63 pm. This.

Causes Quentum Confinement (which gives metal new + metal propertus).



Scientists make unique 2D metals much sought after for future tech

