Development of Buffer Zones in Tiger Reserves

With big cat count rising, M.P. to develop buffer zones around its 9 tiger reserves



he Madhya Pradesh Cabiet on Tuesday approved a theme for developing uffer zones in the State's he tiger reserves, the gormment said.

The approval for the ew scheme, 'Developnent of Buffer Zones in iger Reserves', with a tod outlay of (145 crore for outlay of (145 crore for doubt and the second of (145 crore) and (145 crore).

adav.

As part of the scheme, hain-link fencing will be stalled in the ecologically ensitive buffer areas, part from developing rasslands and water-sources.

"Key activities under the



Tiger Reserve. The tiger population in Madhya Pradesh has increased from 526 to 785 over the past four years. FILE PHOTO scheme will include the installation of chain-link frencing in ecologically senfrencing in ecologically sengrasslands and we ment training programmes for local communities," the State government said in a

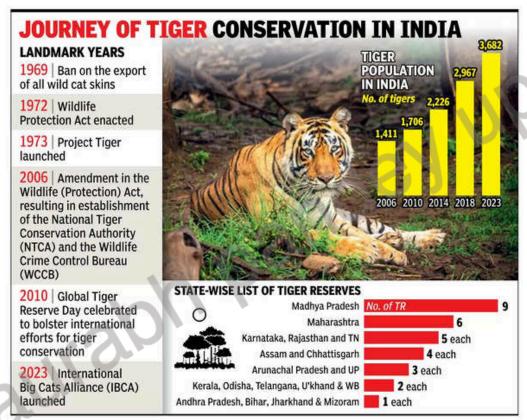
Conservation efforts Inaugurated on March 10 Madhav National Park be came the ninth tiger re serve in the State, the high est among all States. Three tigers, including two fe males, were introduced to the park in 2023 as part of the tiger reintroduction project in the State. "Notably, the tiger pop ulation in buffer zones sur rounding Madhya Pra desh's nine tiger reserves."

"Notably, the tiger p ulation in buffer zones rounding Madhya desh's nine tiger rese has increased from 52 785 over the past if years, underlining the portance of continued

- The Madhya Pradesh Cabinet has approved a scheme for developing buffer zones in nine tiger reserves.

- Installing chain-link fencing
- Implementing wildlife protection measures
- Enhancing fire safety
- Developing grasslands and water resources
- Y The scheme also focuses on:
- Health monitoring and treatment of wild animals
- Skill development training for local communities
- Madhav National Park, inaugurated on March 10, is the ninth tiger reserve in Madhya Pradesh, which has the highest number of tiger reserves in India.
- The tiger population in buffer zones has increased from 526 to 785 over the past four years, highlighting successful conservation efforts.
- The scheme aims to enhance local community involvement in conservation and wildlife protection





Kanha Tiger Reserve: Located in Mandla and Balaghat districts.

Pench Tiger Reserve: Situated in Seoni district.

Bandhavgarh Tiger Reserve: Located in Umaria district.

Satpura Tiger Reserve: Located in Narmadapuram district.

Panna Tiger Reserve: Located in Panna district.

Sanjay-Dubri Tiger Reserve: Located in Anuppur district.

Veerangana Durgavati Tiger Reserve: Located in Sagar, Damoh, and Narsinghpur districts.

Ratapani Tiger Reserve: Located in Raisen district.

Madhav National Park (now Madhav Tiger Reserve): Located in Shivpuri district.

Parliament is supreme, Constitution does not visualise any authority above it: Dhankhar

The Hindu Bureau

Digging in his heels in the face of criticism, Vice-President Jagdeep Dhankhar no n'usedsy reseavered that the Constitution did not visualise any authority above Parliament. The Chairman of the Upper House also sought in the Constitution of the Liper House also sought in the Constitution of the theory of of theory of the theory of the theory of the theory of theory of the theory of the theory theory of the theory of theory theory theory the theory theory the theory theory



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criticised the acting as Parliament". "I find it co triguing that so cently reflecte tutional offic ceremonial, Nothing can tanced from:

Nothing can be far tanced from a wrong derstanding of the ro everyone in this count constitutional functio or a citizen," said Vice-President.

"There is no visua tion above Parliament.

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The Hindu Bur

Opposition members on Tuesday reacted sharply to Vice-President Jagdeep Dhankhar's remark. In an post on X, Rajy Sabha member Kapil Sibal said, "The law: Neither Parliament nor the Executive is surpene the Consti-

as said, "The law: NettrParliament nor the Exe
dit wie is supreme. The partution i

debates where the importance of balance between the Judiciary and the Legislature was discussed." Congress spokesperson Supriva Shripate said there

Congress spokesperso Supriya Shrinate said ther was a strict division o powers in the Constitutio between the Legislature the Executive, and the Judiciary.

country is meant to do ju icial review. Yes, Parl ment makes the law b the Supreme Court of Ind is the supreme authority review those laws. Shou the Judiciary be sh down? Is judicial revie wrong? So what is the Vic President talking about

Understanding Parliamentary Sovereignty

Parliamentary sovereignty is a fascinating doctrine that has shaped the legal landscape of several countries, most notably the United Kingdom. But what exactly does it mean? In simple terms, parliamentary sovereignty asserts that Parliament is the supreme law-making authority. This means it can create, amend, or repeal any law without interference from any other body, including the judiciary. Sounds powerful, right? Let's dive deeper into this concept.

What is Parliamentary Sovereignty?

At its core, parliamentary sovereignty is about the supremacy of the legislative body. It holds that the legislature has the final say over the creation, modification, and repeal of laws. This principle is often referred to as "the will of the people," emphasizing that elected officials in Parliament are accountable to the citizens they represent.

Historical Context

The roots of parliamentary sovereignty can be traced back to the UK, where it has been a fundamental principle of the constitution. The evolution of this doctrine reflects the historical struggles between the monarchy and Parliament, ultimately leading to the establishment of a system where elected representatives hold the power to legislate.

Key Features of Parliamentary Sovereignty

Understanding the key features of parliamentary sovereignty helps clarify its implications:

Power of Enactment

One of the primary responsibilities of Parliament is to enact laws. This process, known as enactment, allows Parliament to create rules and regulations that govern the nation. In countries like India, this power is enshrined in Articles 107 and 108 of the Constitution, highlighting the importance of legislative authority.

Power of Removal of Judges

Another significant aspect of parliamentary sovereignty is the power to remove judges. For instance, Article 124 of the Indian Constitution outlines the process for impeaching a sitting Supreme Court judge. This power underscores Parliament's supremacy over the judiciary, reinforcing the idea that no branch of government is above the legislative authority.

Countries Embracing Parliamentary Sovereignty

While the UK is the most notable example, several other countries also embrace parliamentary sovereignty.

The United Kingdom

In the UK, parliamentary sovereignty is a cornerstone of the constitution. It allows Parliament to legislate without constraints, ensuring that elected officials remain accountable to the electorate.

India

India, influenced by British legal traditions, also recognizes parliamentary sovereignty. The Indian Parliament has the authority to enact laws that reflect the will of the people, although it must also navigate the complexities of a diverse society.

Advantages of Parliamentary Sovereignty

Parliamentary sovereignty comes with several advantages that contribute to its appeal:

Representation of the People

One of the most significant benefits is that Parliament can enact laws that reflect popular opinion. This responsiveness to the electorate fosters a sense of democracy and accountability.

Flexibility and Responsiveness

Parliamentary sovereignty allows for quick legislative action in response to societal changes. This adaptability is crucial in a rapidly evolving world where laws must keep pace with new challenges.

Hierarchy of Laws

With Parliament at the top of the legal hierarchy, it simplifies the legal framework. This clarity helps citizens understand the laws that govern them and ensures that there is a clear authority in law-making.

Disadvantages of Parliamentary Sovereignty

However, parliamentary sovereignty is not without its drawbacks:

Potential for Abuse of Power

One of the most significant concerns is the potential for abuse of power by the legislature. Without checks and balances, there is a risk that Parliament could enact laws that infringe on individual rights or freedoms.

Lack of Judicial Oversight

Another downside is the absence of judicial scrutiny. This lack of oversight can lead to laws that do not align with human rights norms or constitutional principles, raising ethical concerns.

Inconsistency in Laws

Finally, because there is no overarching legal framework, laws can vary significantly across different regions. This inconsistency can create confusion and undermine the rule of law.

Conclusion

In conclusion, parliamentary sovereignty is a powerful doctrine that shapes the legal landscape in countries like the UK and India. While it offers significant advantages, such as representation and flexibility, it also poses risks, including potential abuses of power and a lack of judicial oversight. As societies evolve, the debate over the merits and drawbacks of parliamentary sovereignty will continue, highlighting the delicate balance between legislative authority and individual rights.

judicial supremacy

What is Judicial Supremacy?

Judicial supremacy refers to the doctrine that the judiciary holds the ultimate authority in interpreting the law within a constitutional framework. This principle asserts that when a court determines that a statute or governmental action contravenes the Constitution, it has the power to invalidate that law or action. This is pivotal for maintaining the integrity of the Constitution and protecting individual liberties.

Historical Context:

- The concept of judicial supremacy emerged prominently in the United States, particularly through landmark cases such as Marbury v. Madison (1803) which established the principle of judicial review.
- Countries like India, Canada, and South Africa have adopted similar frameworks, granting their judiciaries substantial interpretive power

The Role of the Judiciary

The judiciary's primary function is to interpret laws and ensure they align with the Constitution. This role is crucial for maintaining the rule of law and protecting civil liberties.

Interpretation of Laws:

- Courts evaluate the constitutionality of legislative actions and executive orders.
- The judiciary must remain impartial, ensuring that its interpretations are based solely on constitutional principles rather than political motivations.

Examples from Various Countries:

- In the **U.S.**, the Supreme Court is often viewed as the highest arbiter of constitutional interpretation.
- In **India**, the Supreme Court has frequently exercised its power of judicial review to uphold fundamental rights against legislative interference

Benefits and Challenges of Judicial Supremacy

While judicial supremacy plays a vital role in upholding constitutional governance, it also presents several challenges.

Benefits:

Protection of Individual Rights: Judicial supremacy ensures that laws infringing on fundamental rights can be challenged and overturned.

Checks on Legislative Power: The judiciary can invalidate laws that exceed legislative authority or conflict with constitutional provisions.

Challenges:

Potential for Judicial Overreach: Critics argue that unelected judges may overstep their bounds and influence political outcomes.

Imbalance of Power: The concentration of interpretative power within the judiciary may disrupt the balance intended by the separation of powers.

Judicial Review in India

In India, judicial review is enshrined in the Constitution, allowing the judiciary to assess the legality of legislative and executive actions.

Constitutional Provisions:

Article 13 empowers the judiciary to declare laws that conflict with the Constitution as void.

Other significant articles include Article 32, which allows individuals to approach the Supreme Court for the enforcement of fundamental rights.

Types of Judicial Review:

Strict Judicial Review: The judiciary engages in rigorous scrutiny of legislative actions.

Flexible Judicial Review: Allows for broader interpretations, taking into account the socio-political context.

Importance and Implications:

Ensures the supremacy of the Constitution.

Protects fundamental rights from arbitrary governmental actions.



India and AI in Weather Forecasting

India faces extreme weather: The country experiences intense heat waves and heavy rainfall annually, prompting the need for advanced forecasting methods.

- Al in weather forecasting: India is leveraging artificial intelligence (AI) to improve weather modeling and early warning systems, moving beyond traditional numerical weather prediction models.
- **Mission Mausam**: Launched in September 2024, this initiative allocates ₹2,000 crore over two years to enhance weather observations and develop Al-driven forecasting methods.
- Al model success: A machine learning model developed by researchers has achieved a 61.9% forecast success rate for monsoon rainfall from 2002-2022, outperforming traditional models.
- **Challenges in Al implementation**: Key challenges include the need for high-quality data, the complexity of Al outputs, and a shortage of professionals skilled in both meteorology and machine learning.
- Need for collaboration: Experts emphasize the importance of collaboration between climate scientists and AI specialists to develop effective models tailored to India's diverse climate.
- Future of Al in climate science: While Al shows promise in predicting extreme weather events, concerns about model trustworthiness and the need for rigorous verification processes remain.
- **Summary**: India is increasingly using AI to enhance weather forecasting amid challenges posed by extreme weather, with initiatives like Mission Mausam aiming to improve data-driven models and collaboration between scientists.

NASA's Quantum Gravity Gradiometer Initiative

Samak



NASA scientists propose using this technique to measure how the earth's water and ice mass is shifting as climate change worsens. GOOGLE EARTH

Cold atoms in space can weigh the Himalayas

Vasudevan Mukunth

The amount of gravitational force you experience on the earth's surface is uneven because it depends on the amount of mass nearby. If there is more mass in one area, for example due to a mountain range, the force you'll experience there will be higher than, say, in the middle of a city.

The difference between one place and the next is too small for anything other than the most sensitive instruments to notice. One such instrument is the gravity gradiometer. Say you drop a ball from the top of a building. Newton's second law states that the force acting on a body is equal to its mass multiplied by its acceleration (F = m - a). As the ball drops, its acceleration can be calculated by dividing the force acting on the ball — which depends on the mass nearby — by its mass.

Similarly, a gravity gradiometer

NASA Quantum Gravity Gradiometer Earth Science Gravitational Measurements Cold Atom Interferometry

NASA Initiative

2024 Launch: NASA initiated the development of a **Quantum Gravity Gradiometer (QGG)** pathfinder instrument.

Goal: On-orbit testing is planned by **2030**.

🛰 Project Management

Leadership: Managed by NASA ESTO.

Collaboration: Led by the Jet Propulsion Laboratory with contributions from NASA Goddard, University of Texas Austin, and U.S. industry partners.

🌌 Measurement Precision

Technology: Utilizes cold atom interferometry.

By using finely controlled lasers and magnetic fields, scientists of the Cold Atoms group are able to cool small ensembles of atoms down to the lowest temperatures in the universe

- just a few billionths of a degree above absolute zero - and thus to access the realm of fully quantum mechanical motion

Advantage: Offers more precise measurements of Earth's gravitational field than current methods like Satellite-to-Satellite Tracking (SST).

Technology Demonstration

Objective: The pathfinder will demonstrate critical technologies and observation techniques.

Outcome: Potential development of a science-grade instrument to improve GRACE-class measurement resolution.



Monitoring: Helps track changes in Earth's mass distribution, including water and ice.

Significance: Essential for understanding large-scale planetary dynamics.



Impact Areas: Gravity measurements will assist in monitoring ice sheets, underground aquifers, ocean levels, and water bodies.

Relevance: Influences agriculture, industry, and security.

Long-term Monitoring

SUI

Duration: Measures gravitational changes over days to years.

Insights: Provides data on drought, water management, and flood potential.

Summary: NASA's Quantum Gravity Gradiometer pathfinder is set to revolutionize gravitational measurements for both scientific and practical applications by 2030.

Facts

Matters that count

Attempts to intimidate the judiciary

he Supreme Court of India has been subjected to unfounded criticism by sections of the ruling BJP, and Vice-President Jag-deep Dhankhar, with regard to the separation of powers between the various branches of the government, and the principle of checks and balances. Not surprisingly, a Supreme Court bench took note of the charge that it was intruding into executive and legislative functions. In one petition, the Court was urged to direct the Centre to act under Articles 355 and 356 to deal with the situation of violence in West Bengal. In another, the Court's intervention was sought to curtail obact under Articles 355 and 356 to deal with the situation of violence in West Bengal. In another, the Court's intervention was sought to curtail obsene content on online platforms. The Calcutta High Court had earlier ordered the deployment of Central forces to stem violence in Murshidabad in West Bengal, Judicial review of legislative and executive decisions is an integral part of India's constitutional democracy. Decisions of the executive and the legislature can be examined by the judiciary to determine whether they are consistent with the Constitution, and even constitutional amendments are subject to the 'basic structure' test. There are multiple constitutional avenues for judicial intervention in the making and enforcement of law. Article 13 gives the judiciary the power to strike down laws that are violating fundamental rights. Articles 32 and 226 give the Supreme Court and High Courts, respectively, the power to issue writs for the enforcement of fundamental rights, and beyond.

 the Court was urged to direct the Centre to act under Articles 355 and 356 to deal with the situation of violence in West Bengal.

- Article 355 of the Indian Constitution outlines the duty of the Union (central government) to protect every state against external aggression and internal disturbance, and to ensure that state governments operate according to the Constitution.
- Article 356 empowers the President to declare President's Rule in a state if the President is satisfied that the state government cannot be carried on in accordance with the Constitution
- Article 13 gives the judiciary the power to strike down laws that are violating fundamental rights. Articles 32 and 226 give the Supreme Court and High Courts, respectively, the power to issue writs for the enforcement of fundamental rights, and beyond.

Exploring India's potential in the Arctic region

lobal trade is swinging like a pendulum, with potential backwinds from the U.S. down on alternate trade strategies. In such a scenario, partnerships around supply chains and rade routes are expanding based not only on the current fracturing of regional blocs, but also on climate change. The properties of the Arctic cerve as a canary in the coal mines for the hexice cerve as a canary in the coal mines for the impending climate catastrophe. It also serves as the source climate catastrophe. It also serves as the source commence of the properties of the properties.

the dying canary signals new trade routes. The September Article ase ice is now divining at the Eviptember Article ase ice is now divining at the Eviptember Article as in the Eviptember Article and the Eviptember Article and the Eviptember Article and Eviptember Article Council and Eviptem

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But to begin a timely acti
India's Arctic policy release
streamlined towards achiev
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need shipbuilding muscle to sail through the SNRS turbulent waters. The 2025-58 Budget set up a \$3 billion Maritime Development Fund for the Shipping Mintsty along with promoting shipbuilding clusters to increase the range, categories, and capacity of ships. Shipbuilding the categories, and capacity of ships. Shipbuilding travel conditions would be quite hard in the short-term. This means India needs to make adequate investments in ice-breaking fleets and other structural purgades.

traning requisites, and knowledge sharing. Could 20% to be the year of action? 20% to be the year of action? 10% to the year of action? 10% to the year of action to taking place on May 3 and 4 in New Delhi. This should help contextualise the dialogue from an Asia and India-focused lens. The forum should serve as an impetation to move the needle forward on India's welf thought-out Arctic policy with stackholder constantiations, the forging cent of a polar analysis of the present India's case internationally.

increased exponentially from 41,000 tonnes in 2010 to almost 379 million tonnes in 2024, India also needs to be cognissant of studies surfacing, such as in the scientific journal Nature Climate Change, showing that global temperatures in 2024 breached the 1.5°C mat Above pre-Industrial levels. This suggests that even a single month or year at 1.5°C global warming may signify that Earth is entering a long-term breach o the sun should we fly so that we do not lose our commercial vantage point but also do not call or an expedited disaster in one of the most ragile ecosystems on the planet? This presents a presents policy issue for India and echoes the need for like-minded allies.

Playing with Lee and fer With its wat Artice condition, extensive experience in Arctic navigation, and training of personnel, Bassis as no-dosou partner for India to equine the NSE. The decision to establish a integrate the NSE. The decision to establish a interpretable commission or trait, experience, and contract composition was made comission or trait. And column cooperation was made during Prime Minister cooperation was made during Prime Minister Composition of the North Composition of t

However, if India inclines towards the Russian bloc, then it would be implying support to Chinese efforts, such as the Polar Silk Road which China is building as a northern extension of its Belt and Road Initiative. Not only would the NSR help China bypass the Malacca Strait chokepoint completely, but it would also give it much more control over the Arctic route.

If India supports the Western bloc and partners with the U.S., it could look is speccived

control over the Arctic route.

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The Arctic: A Geopolitical and Economic Frontier

1. The Melting Ice: A Double-Edged Sword

Current Trends in Arctic Sea Ice Melting

The Arctic is experiencing unprecedented warming, leading to significant ice melt. Over the past few decades, satellite data has shown a dramatic reduction in sea ice extent, fundamentally altering ecosystems and shipping routes.

Implications for Global Trade and Shipping

New shipping routes shorten travel times but increase environmental risks. The opening of the Northern Sea Route (NSR) promises a reduction in transit time between Europe and Asia, but it also raises concerns about oil spills and disturbances to wildlife.

2. The Northern Sea Route (NSR)

Definition and Significance of the NSR

The NSR provides a shortcut from Europe to Asia, promising reduced transit times of up to 30%. This route is becoming increasingly viable as ice melts, making it a focal point for international shipping.

Comparison with Traditional Trade Routes

The NSR is more efficient than the Suez Canal, but it has its own challenges, including harsh weather conditions and limited infrastructure.

Economic Benefits of the NSR for Global Trade

Cost savings and increased trade volume could benefit global economies, with estimates suggesting that the NSR could reduce shipping costs by up to 20%.

3. The Arctic as a Resource Hub

Overview of Arctic Natural Resources

Resources like oil and gas are abundant, but exploitation raises ethical questions. The Arctic holds approximately 13% of the world's undiscovered oil and 30% of its natural gas reserves.

The Energy Potential for the Global South

Arctic resources could fuel energy needs for developing nations, presenting an opportunity for energy security but also potential for conflict.

Sustainable vs. Unsustainable Exploitation of Resources

Balancing economic gain with environmental stewardship is critical. Sustainable practices must be prioritized to protect fragile Arctic ecosystems.

India's Arctic Engagement

4. Historical Context of India's Arctic Policy

India's Early Involvement: The Svalbard Treaty

India has a history of engagement in Arctic affairs, dating back to the Svalbard Treaty, which allowed for scientific research and resource exploration.

Establishment of the Himadri Research Base

This base marks India's commitment to Arctic research, facilitating various scientific expeditions and collaborations.

5. Current Arctic Policy Framework

Overview of India's Arctic Policy (2022)

India's Arctic policy emphasizes scientific research and sustainable development. The policy aims to enhance India's presence and influence in Arctic governance.

Key Goals and Objectives of the Policy

Strengthening international cooperation and promoting sustainable practices are central to India's Arctic aspirations.

6. The Role of the Arctic Circle India Forum

Purpose and Significance of the Forum

The forum facilitates discussions on Arctic issues among stakeholders, fostering collaboration on research and policy development.

Expected Outcomes and Stakeholder Engagement

Collaborative efforts aim to bolster India's Arctic strategy while addressing shared concerns with other polar nations.

7. India and Russia: A Natural Alliance

Historical Ties and Current Collaborations

India and Russia share a mutual interest in Arctic development, particularly in energy resources and trade routes.

The Chennai-Vladivostok Maritime Corridor

This corridor could enhance trade between the two nations, providing a direct maritime link that strengthens economic ties.

8. Navigating the U.S.-Russia Divide

The Dilemma of Aligning with Global Powers

India must balance its relationships with both the U.S. and Russia, navigating complex geopolitical landscapes.

Potential Risks and Rewards of Each Alignment

Diplomatic strategies will shape India's Arctic engagement, weighing the benefits of cooperation against potential geopolitical fallout.

9. Engaging with Other Regional Players

The Role of Japan and South Korea

These nations are also interested in Arctic resources and trade, emphasizing the need for multilateral cooperation.

Building a Coalition Against Chinese Dominance

Collaborative efforts are necessary to counterbalance China's influence in Arctic affairs.

The Environmental Imperative

10. Climate Change and Its Impact on Trade

The Urgency of Addressing Climate Change

Climate change poses existential threats to trade and ecology, necessitating immediate action to mitigate its effects.

The Role of the Arctic as a Climate Indicator

The Arctic reflects global climate patterns, making its study essential for understanding broader environmental changes.

11. Balancing Economic Interests with Environmental Concerns

The Need for Sustainable Practices in the Arctic

Sustainable development must guide Arctic exploitation to ensure long-term viability.

Policy Recommendations for Responsible Resource Management

Implementing strict guidelines can mitigate environmental impacts and promote responsible use of Arctic resources.

Future Prospects and Challenges

12. The Need for Shipbuilding and Infrastructure Development

India's Investment in Maritime Capabilities

Investment in maritime infrastructure is crucial for Arctic engagement, ensuring that India can effectively participate in Arctic trade.

Challenges in Developing Arctic-Suitable Vessels

Engineering challenges remain in creating vessels capable of navigating icy waters, requiring innovation and investment.

13. Capacity Building and Knowledge Sharing

Importance of Multilateral Dialogue

International cooperation is vital for effective Arctic governance, fostering partnerships that enhance knowledge sharing.

Training and Development for Arctic Navigation

Skill development programs can enhance operational efficiency, preparing personnel for the unique challenges of Arctic navigation.

14. The Role of Technology in Arctic Exploration

Innovations in Ice-Breaking Technology

Technological advancements are key to navigating Arctic waters, improving safety and efficiency in shipping operations.

The Future of Autonomous Shipping in the Arctic

Autonomous vessels could revolutionize Arctic shipping, offering new solutions to traditional challenges.

Conclusion

The Arctic presents both unprecedented opportunities and formidable challenges for global trade. Strategic planning and international collaboration will be essential as nations like India navigate this new frontier.



Infodemic vs Misinformation

Infodemic refers to a large increase in the volume of information associated with a specific topic and whose growth can occur exponentially in a short period of time due to a specific incident, such as the current pandemic.

What is Misinformation?

Misinformation is false or inaccurate information deliberately intended to deceive.

How does the Infodemic contribute to Misinformation?

Increased global access to cell phones with an Internet connection, as well as social media, has led to the exponential production of information and the number of possible paths for getting it, creating an information epidemic or infodemic.

Europe can ride LNG wave to build strategic gas reserves

Ron Bouss

European governmer may have a rare window opportunity to build a strategic gas stockpiles the coming years to he manage supply shocks th could become more com on if geopolitical te sions keep rising.

Europe has long bee dependent on energy in ports, particularly naturgas. North Sea production primarily in Norway, is th main regional source bu accounts for only around third of consumption. The dangers of th

The dangers of the acute dependency we laid bare when Mosco started reducing its hu volume of supplies to E rope in the lead up to 2022 invasion of Ukrain

plunging the region into i biggest energy crisis in d cades. Europe has succes fully reduced Russian pip line imports to near zer since then, but it has co sequently become high dependent on liquefic hatural gas imports, at huge cost to businesse consumers

LNG today makes up o er a third of European su plies, with 45% comil from the United States ar another 19% from Russia 2024. Beyond LNG, E rope imports gas from Ne way, North Africa and Tr key via pipeline. Th might seem like a relative diversified supply matrix



on North Sea infrastru ture, civil war in Algeria Libya, Gulf Coast hur canes, or war with Ira and subsequent disruption choke point for 20% of the world's oil and gas. It another scenario, which might have seemed far fetched only a few months

20% of the dgs. In indigate in order to let of the emed farew months even detected states.

ritical materials

Strategic thinking Given the growing list of potential risks, Europe would be wise to create a comprehensive plan for storing and managing natural gas to avoid a repeat of the 2022 shock. Several major economies, including the United States, Britain, EU members, China and Australia, today hold strategic oil reserves, typically equivalent to 90 days of their fuel consumption.

These strategic petroum reserves, created folwing the 1973 Arab oil mbargo, have been pped several times to telp with severe disrupnons, including in the ake of the Ukraine war,

d Hurricane Katrina

Europe already has huge gas storage facilities in underground salt cavers and aquifers that have capacity to hold around a quarter of Europe's annual consumption of about 400 billion cubic metre, when combining the EU and Britain. These inventories are regularly filled during the summer months to be drawn on in winter. LWG import on in winter. LWG import on in winter. LWG import on the summer months of the control of the c

These are commercinventories that are most governed by market force. The European Union hiried to centrally mana reserves since 2022, introducing rules that requires to fell 2009.

storage capacity by No vember I. But the require ments led to rising prices, complicating traders' ef fort to refill storage. The EU also tried to jointly buy LNG in large volumes to re duce costs, but had little

Therefore, a government-run storage system that buys and sells gas in dependently and with State financing appears to be more viable solution to prepare for emergencies.

But a wave of new LNt supply is set to come of stream in the next fev years, mostly in the Unites States and Qatar, which should help keep gas price es relatively low and stead compared with the recen-

(The author is a columnist for Posters)

Strategic Energy Management in Europe

- Strategic Opportunity: European governments have a chance to build strategic gas stockpiles to manage potential supply shocks due to rising geopolitical tensions.
- **Energy Dependency**: Europe relies heavily on energy imports, with North Sea production from Norway supplying only about one-third of its gas consumption.
- **Energy Crisis**: The reduction of Russian gas supplies before the 2022 Ukraine invasion exposed Europe's vulnerability, leading to a significant energy crisis.
- **LNG Imports**: Liquefied natural gas (LNG) now constitutes over a third of European gas supplies, with 45% sourced from the U.S. and 19% from Russia in 2024.
- ⚠ Supply Disruption Risks: Potential threats to gas supply include physical or cyberattacks, civil unrest in North Africa, Gulf Coast hurricanes, and geopolitical conflicts.
- Storage Capacity: Europe has substantial gas storage facilities capable of holding about 25% of its annual consumption, but current inventories are influenced by market forces.
- **Government Intervention**: A government-run gas storage system may be necessary to effectively manage reserves and prepare for emergencies, as current EU strategies have faced challenges.

Summary: European governments have a critical opportunity to enhance gas storage and management strategies to mitigate future supply shocks amid rising geopolitical tensions

What Happens When a Pope Dies? Understanding Papal Transition

- The death of a sitting pope initiates a well-defined canonical procedure established by Church law (canon law) and tradition.
- The specific norms governing this process are primarily found in the Code of Canon Law (1983) and the Apostolic Constitution Universi Dominici Gregis, issued by Pope John Paul II in 1996.
- 1.Immediate Reaction and Notification of Death

Verification of Death:

Upon the passing of the pope, the papal physician must confirm the death. This confirmation is necessary to formally acknowledge the event.

Notification:

The cardinal chamberlain (the highest-ranking official in the Vatican during the interregnum) is immediately informed. The death is communicated to the College of Cardinals and then made public.

Public Announcement:

The Vatican's press office releases an official announcement. The news of the pope's death is also communicated to world leaders and official church representatives.

2. Mourning Period: Sede Vacante

Sede Vacante Declaration:

The period after a pope's death is known as Sede Vacante, which means "the seat being vacant." This period officially begins with the pope's death and lasts until a new pope is elected.

Governance:

During Sede Vacante, the governance of the Church is assumed by the College of Cardinals. The cardinal chamberlain has specific responsibilities, including overseeing the administration of the Vatican and managing the affairs of the Church until a new pope is elected.

3. Preparation for the Conclave

Conclave Organization:

The College of Cardinals prepares for the conclave, where a new pope will be elected. This includes determining the number of cardinals eligible to vote and setting the date for the conclave.

Eligibility:

Only cardinals who are under the age of 80 at the time of the pope's death are eligible to participate in the conclave, with a limit of approximately 120 voting members.

4. Funeral Arrangements

Funeral Rites:

The papal funeral is organized during the mourning period. It typically occurs within a week after the pope's death and includes a Requiem Mass.

5. The Conclave

Conclave Procedures:

The conclave consists of a series of secret ballots during which the cardinals vote to elect a new pope.

Voting Process:

- The cardinals gather in the Sistine Chapel and begin with a Mass.
- They then enter a series of voting rounds. After each round, the ballots are burned.
- If no candidate receives the required two-thirds majority, additional rounds of voting are held until a new pope is elected.

6. Inauguration of the New Pope

Papal Installation:

The new pope's inauguration takes place shortly after the conclave. This Mass (often referred to as the "Inauguration Mass") is a solemn ceremony marking the beginning of the new papacy.