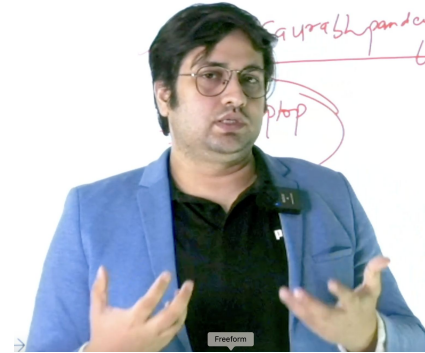


Topics - MINDS MAPS included



- ISRO's Small Satellite Launch Vehicle-03 (SSLV-D3)
- National Film Awards 2022
- Illegal Mining in Aravali
- Lidar Technology
- Krishi-Decision Support System (DSS)
- RBI in Controlling Headline vs Core Inflation
- Overview of Phygital
- Mains



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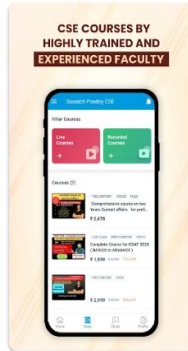
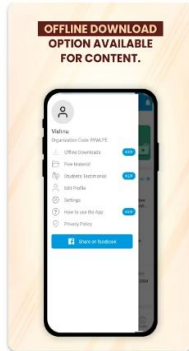
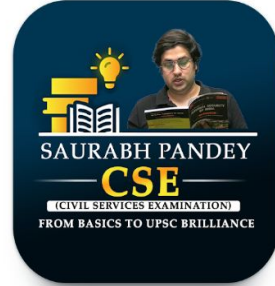
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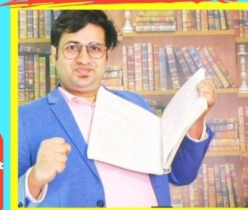
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Topic-ISRO's Small Satellite Launch Vehicle-03 (SSLV-D3)

Overview

Objective: To successfully launch small satellites into orbit.

Significance: Enhances India's capabilities in satellite launches and boosts commercial prospects.

Key Features

Launch Date: August 16, 2024.

Mission Type: Earth Observation Satellite.

Developmental Flight: Final flight of the SSLV series.

Mission Details

Rocket Type: SSLV (Small Satellite Launch Vehicle)

Payload: EOS-08 Earth Observation Satellite.

Launch Site: Satish Dhawan Space Centre, Sriharikota.

Technical Specifications

Payload Capacity: Up to 500 kg to Sun-Synchronous Orbit (SSO).

Launch Duration: Shorter preparation and turnaround time compared to previous models.

Flexibility: Quick deployment for client satellites.

Market Impact

Commercial Launches: Opens new avenues for small satellite commercial launches.

Global Positioning: Establishes ISRO as a competitive player in the international launch market.

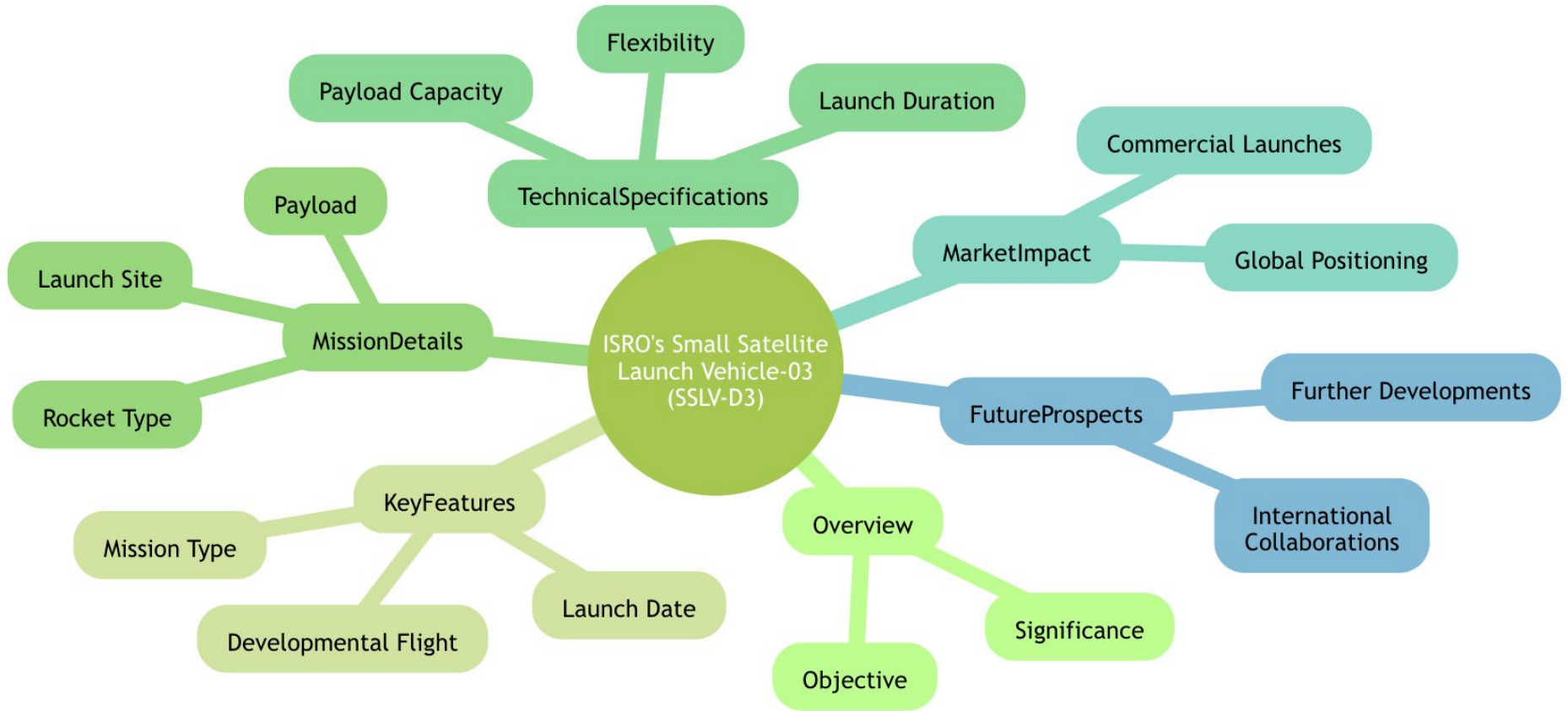
Future Prospects

Further Developments: Potential for enhanced SSLV variants.

International Collaborations: Opportunities for partnerships in satellite launches.

- **The Indian Space Research Organisation on Friday launched the EOS-08 Earth Observation Satellite on board the Small Satellite Launch Vehicle (SSLV-D3) from the Satish Dhawan Space Centre (SDSC) in Sriharikota.**
- **EOS-08 is a first-of-its kind mission built on a standard ISRO's Microsat/ IMS-1 bus with a suite of advanced payloads for observation in the IR range, novel GNSS-R Payload and SiC UV dosimeter.**

- **The satellite boasts a host of new technological developments in satellite mainframe systems like an Integrated Avionics system – Communication, Baseband, Storage and Positioning (CBSP) Package, Structural panel embedded with PCB, embedded battery, Micro-DGA (Dual Gimbal Antenna),**



Topic- National Film Awards 2022

Overview



Event: 70th National Film Awards



Date: 2022



Significance: Recognizes excellence in Indian cinema

Winners Highlights



Best Feature Film: Aattam



Best Actor: Rishab Shetty for Kantara



Best Hindi Film: Gulmohar



Notable Nominations: Brahmastra, Ponniyin Selvan Part 1

Topic-Illegal Mining in Aravali

Overview of Illegal Mining

Definition: Unregulated extraction of minerals without permission.

Environmental Impact:

Erosion 

Biodiversity Loss 

Water Pollution 

Legal Actions:

Supreme Court orders to halt illegal mining.

Directions to state governments for strict enforcement.

Causes of Illegal Mining

Economic Factors:

Poverty in surrounding areas 

High demand for minerals 

Weak Enforcement:

Corruption in regulatory bodies 

Lack of resources for monitoring 

Consequences of Illegal Mining



Social Issues:

Displacement of communities 

Unsafe working conditions for miners 

Ecological Damage:

Destruction of habitats 

Altered water tables 

Recent Developments

Court Rulings:

Ban on new mining leases in Aravali.

Examination of mining practices by Central Empowered Committee.

Community Responses:

Protests advocating for environmental protection.

Local initiatives to restore affected areas 



Topic- Lidar Technology

Overview of Lidar Technology

Definition: Lidar (Light Detection and Ranging) technology uses laser light to measure distances and create high-resolution maps.

Applications: Widely used in autonomous vehicles, environmental monitoring, agriculture, and urban planning.

Applications of Lidar Technology

Autonomous Vehicles:

Navigation and obstacle detection 

Accurate 3D mapping for route planning

Environmental Monitoring:

Forest mapping 

Coastal and flood monitoring 

Urban Planning:

Infrastructure development 

Smart city initiatives

Challenges and Considerations

Cost: High production costs limit accessibility.

Regulatory Issues: Compliance with safety standards and regulations.

Technological Integration: Challenges in integrating lidar with existing systems.

Future of Lidar Technology

Innovations: Advancements in sensor technology and data processing.

Market Growth: Anticipated growth in adoption across multiple sectors.

Sustainability: Potential for environmental applications to support climate initiatives 



Topic-**Krishi-Decision Support System (DSS)**

- **The Union Agriculture Ministry launched a digital geo-spatial platform, Krishi-Decision Support System (DSS), which will share realtime data-driven insights on weather patterns, soil conditions, crop health, crop acreage, and advisories with all stakeholders such as farmers, experts, and policymakers.**
- **The Ministry said the system was “a significant milestone” in the country’s agricultural innovation landscape.**
- **The platform provides seamless access to comprehensive data, including satellite images, weather information, reservoir storage, groundwater levels, and soil health information.**



Topic- RBI in Controlling Headline vs Core Inflation

Overview of Inflation Control

Headline Inflation: Measures total inflation in consumer prices, including food and energy.

Core Inflation: Excludes volatile items such as food and energy, focusing on long-term trends.

Role of RBI (Reserve Bank of India)

Monetary Policy: Adjusts interest rates to control inflation.

Inflation Target: Aims for a specific inflation rate to ensure economic stability.

Impact of Headline vs Core Inflation



Headline Influences:

Affected by seasonal changes and global factors.
Immediate impact on consumer prices.

Core Influences:

Reflects underlying inflation trends.
Important for long-term policy decisions.

Challenges Faced by RBI

Food Inflation: Significant contributor to headline inflation; difficult to control.

Global Factors: International commodity prices affect domestic inflation.

Policy Balancing: Need to balance interest rates and economic growth.

Strategies Implemented

Interest Rate Adjustments: Regular reviews and adjustments based on inflation data.

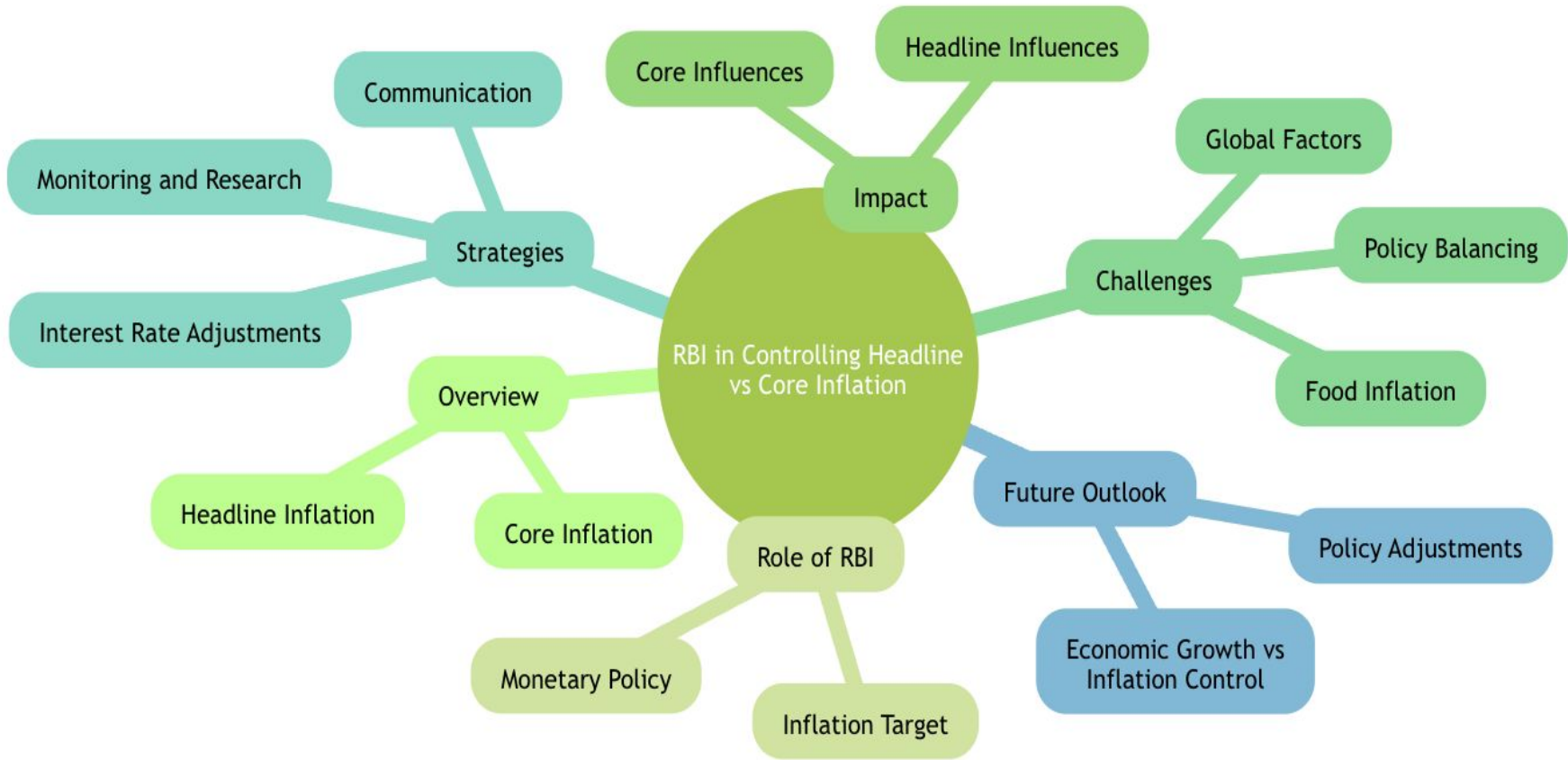
Monitoring and Research: Continuous assessment of inflation drivers and consumer trends.

Communication: Clear communication of policy decisions to manage market expectations.

Future Outlook

Economic Growth vs Inflation Control: Balancing act to ensure sustainable economic development.

Policy Adjustments: Flexibility to adapt to changing economic conditions.



Topic- Overview of Phygital

Definition: Integration of physical and digital experiences

Importance: Enhances customer engagement and satisfaction

Trends: Growing adoption across various industries

Applications of Phygital

Retail:

Phygital Stores: Merging online and offline shopping experiences

Interactive Displays: Engaging customers with digital interfaces

Banking:

Phygital Branches: Combining in-person services with digital solutions

Events:

Hybrid Experiences: Blending physical events with online participation

Entertainment:

Gaming: Integration of real-world elements in digital platforms (e.g., Roblox)

Benefits of Phygital

Customer Engagement:

Personalized experiences

Increased interaction and satisfaction

Data Collection:

Insights from customer behavior analysis

Competitive Advantage:

Differentiation in the market

Challenges of Phygital

Technology Integration:

Ensuring seamless connectivity between platforms

Cost:

Investment in technology and infrastructure

User Adoption:

Encouraging customers to embrace new experiences

Future of Phygital

Potential Growth:

Expanding into new sectors (e.g., healthcare, education)

Innovation:

Continuous evolution of technology and customer expectation

IR IN NEWS

- Thai lawmakers elect **Shinawatra heiress Paetongtarn** as PM
- Croatia will reintroduce a two-month compulsory military service starting January 1 next year. The move comes amid heightened tensions in Europe following the Russian aggression against Ukraine as well as an apparent arms race and military build-up in the Balkans which went through a bloody war in the 1990s.



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