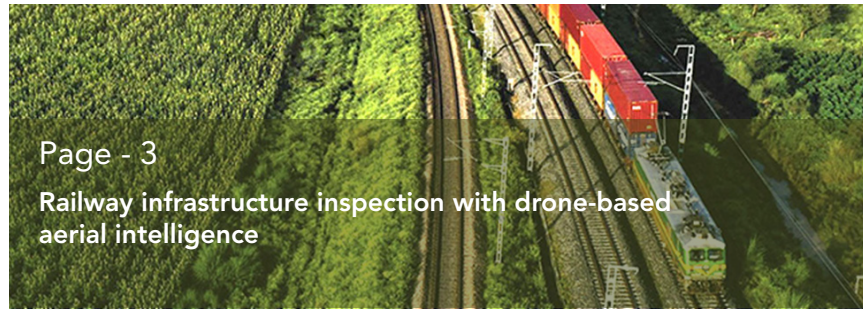


THE DRONE CHRONICLE



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ASTERIA AEROSPACE'S SKYDECK PLATFORM REVOLUTIONIZES DRONE DATA MANAGEMENT WITH CLOUD & AI



streamlined site inspections and monitoring. SkyDeck stands out with its pre-built, industry-specific AI models that swiftly analyze aerial data, facilitating proactive decision-making and advancing industry excellence.

For drone service providers, SkyDeck offers streamlined workflows by integrating project management, flight planning, and execution. It features a cost-effective, cloud-based solution for automated drone data processing, scaling seamlessly with business needs. Additionally, SkyDeck provides a unified repository for drone data, simplifying collaboration, analysis, and data sharing with end users.

Asteria Aerospace, the leading full-stack drone technology company, introduces the latest advancements in its innovative cloud platform, SkyDeck. Now offered as a self-service SaaS solution, SkyDeck empowers businesses to streamline drone data management. It serves as a comprehensive software platform for both drone data users and service providers, simplifying their digital transformation journey and enabling data-driven insights from drones.

"We're excited to introduce SkyDeck to enterprises and professionals seeking a secure and scalable drone operations and data management solution" said Neel Mehta, Director & Co-founder of Asteria Aerospace. **"SkyDeck addresses critical pain points, streamlining workflows from data capture to actionable insights-pivotal for driving the adoption of drone-based solutions across industries. Our flexible pricing ensures businesses of all sizes can leverage SkyDeck's capabilities to meet their specific requirements."**

For industries such as GIS, construction, oil and gas, and agriculture, SkyDeck offers advanced tools and analytics to harness drone data for transforming sites and critical assets digitally. The cloud platform delivers secure, centralized drone data management with intuitive visualization, collaboration, and reporting tools for

To start your free trial and experience SkyDeck's transformative capabilities, visit <https://asteria.co.in/skydeck>.

Asteria Participates in Indo-Pacific Geo Intelligence Forum 2024

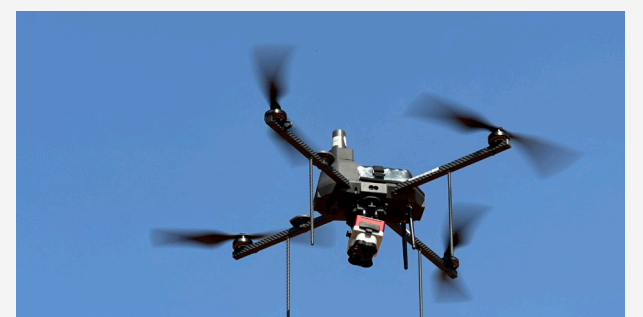


Indian Drone Market worth \$1,437 Million by 2029, at a CAGR of 17.0%

Courtesy: whatech.com

The Indian Drone Market is projected to grow from USD 654 Million in 2024 to USD 1,437 Million by 2029, at a CAGR of 17.0% during the forecast period. The Drone volume in the India Drone Market is projected to grow from 10,803 Units in 2024 to 61,393 Units by 2029.

The drone market in India is undergoing a significant transformation, propelled by progressive regulations, increasing investments, and burgeoning applications across various sectors. As of the latest review, India positions itself as a rapidly growing hub for drone technology, thanks to an enabling regulatory framework instituted by the Directorate General of



Civil Aviation (DGCA) and the Ministry of Civil Aviation.

These regulations have streamlined approvals and expanded use cases, driving innovation and adoption.

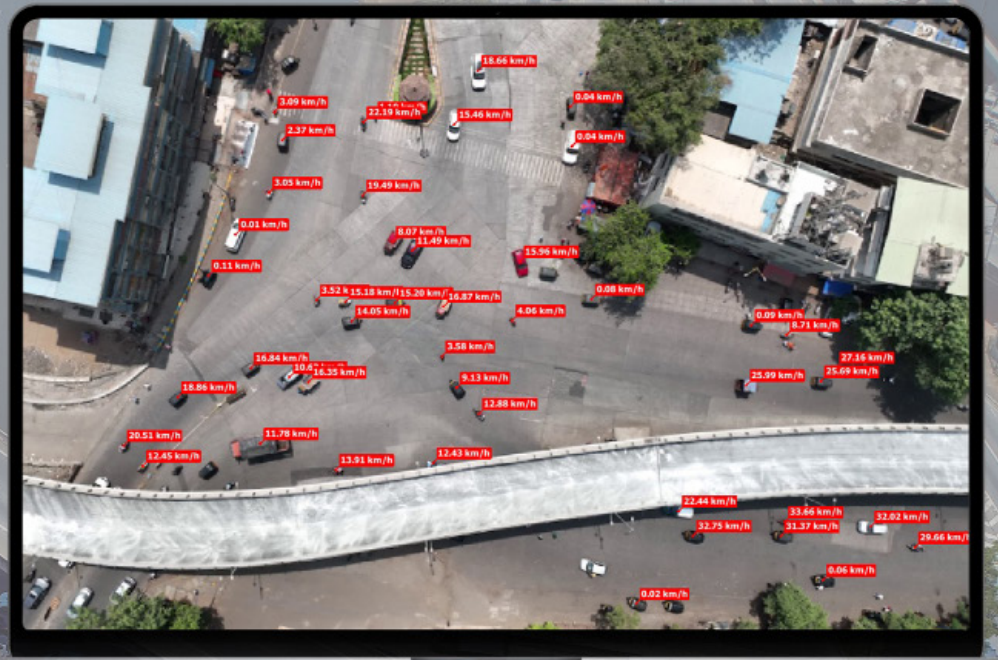
By Industry, the defense and Security segment was estimated to account for the largest share of the India drone market in 2024. The defense and security sector dominates the Indian drone market due to its critical role in national security and the strategic advantages drones offer.

DRONES PAVING THE WAY FOR INFRASTRUCTURE ADVANCEMENTS

Drone technology can be used to transform multifaceted applications across infrastructure. From reshaping road construction and monitoring railway routes to revolutionizing port management, drones redefine how we plan, execute, and maintain critical elements of our infrastructure. There are myriad ways in which drones elevate efficiency, bolster safety measures, and enable proactive maintenance.

The ability of drones to capture high-resolution data in real-time transforms traditional approaches, making infrastructure management more robust and responsive. As technology continues to evolve, there is a need for infrastructure companies to work with drone manufacturers in India that can help them stay up-to-date and at the same time, realize the benefits that drones have to offer.

Asteria Aerospace is one of the most trusted drone manufacturing companies in India with a superior line of DGCA type certified drones – A200, A200-XT, and A410-XT. The drone making company also has a singular AI-based cloud platform, SkyDeck to make sense of all the data collected by drones. SkyDeck is a next-generation drone data management platform that streamlines the entire data journey – from collection to reporting and everything in between. It helps in producing actionable insights, which results in informed decision making.



Leading the Future of Technical Education: The Importance of Drone Technology Labs

The Indian drone industry is projected to create over 1 lakh jobs in the coming years, making it imperative for educational institutions to integrate drone technology into their offerings. By adding a drone tech lab and course to their curriculum, institutions can develop job-ready competencies and equip students with the skills needed to thrive in this dynamic field.

Asteria Aerospace, a leader in drone technology, offers comprehensive support to educational institutions looking to establish drone tech labs and introduce drone tech courses. The Asteria A200-XT drone, DGCA type certified and equipped with high-specs, provides students with exposure to diverse applications, facilitating fast-track learning and hands-on experience.

Integration with SkyDeck, Asteria's end-to-end drone data management platform powered by cloud and AI further enhances the educational experience. Students gain deep insights into data capturing, processing, visualization, analysis, and reporting, empowering them to understand real-world applications of drone technology across various sectors.

The drone tech curriculum could cover a wide range of industrial applications, including agriculture, GIS, public safety, and more. From flight operations to data processing and analysis, students receive comprehensive training that prepares them for diverse roles in not only drone ecosystem but across sectors.



Government needs to further expand PLI scheme to make India 'Global Drone Hub': Report

Courtesy: deccanherald.com

The government needs to expand the production-linked incentive (PLI) scheme and develop an ecosystem to realize the goal of making India a global drone hub, a report said.

An incentive of Rs 120 crore spread over three financial years was provided for Indian manufacturers of drone and drone components under the PLI Scheme notified on September 30, 2021.

As per the Ministry of Civil Aviation projections, the Indian drone manufacturing industry is expected to reach Rs 900 crore by 2025 from just Rs 60 crore in 2020-21, according to a study conducted by Nexgen Exhibitions. It also noted that the Indian drone market is expected to grow at 22.15 per cent.

Uttar Pradesh Uses Drones to Curb Power Theft

Courtesy: Medianama

Uttar Pradesh's Lucknow Electricity Supply Administration (LESA) is using drones to address electricity thefts in high-line loss areas, reported the Hindustan Times on June 10, 2024. Drones help the staff monitor houses in narrow lanes during the night and early morning hours to gather evidence against power thieves.

Case Study

Railway infrastructure inspection with drone-based aerial intelligence

Client- A Freight Corridor Agency (Under the aegis of Indian Railways)

Highlights

- Railway inspection with reduced manpower and equipment costs.
- Real-time project tracking with live streaming.
- Faster identification of issues compared to manual inspections.
- Coverage of larger areas in a fraction of the time.
- Smart & efficient railway operations.

Need for Innovation

Railway inspection can be time-consuming, costly, unreliable and cause disruption to the train schedule. Traditional methods of inspection are fraught with inaccuracies and errors. Engineers responsible for carrying out these inspections of railway stations and platforms, railway lines, bridges, and overhead power lines don't traditionally have access to methods and tools that are capable of covering an extensive area. Conventional inspections are limited to small areas at a time. Traditional railway inspections require personnel to work at great height, in confined and dangerous areas, thus pose a threat to their lives. Reports of these inspections are not as detailed and accurate, which can delay detection of issues, causing costlier repairs later. There is also a need to hire specialized safety teams and equipment as well as prepare complex inspection set up. The Freight Corridor Agency was dealing with all these issues and was still not getting the desired results out of the inspections. They were looking for a method that could provide them easier access to inaccessible railway infrastructure, optimally utilize their resources, save time and costs, and provide actionable intelligence on the go.

Asteria Aerospace's Role

The Freight Corridor Agency realized that digitization was a key enabler and differentiator to assure safe experiences for passengers and freight and develop a cost-effective solution for monitoring and inspection with limited manpower.

Asteria's A200-XT surveillance drone in combination with the live streaming feature of Asteria's cloud-based drone operations and aerial intelligence platform, Skydeck was helpful in applications where real-time updates were crucial for keeping a close watch on project progress, including project monitoring and inspection, prior infrastructure & asset monitoring, and railway track inspection.

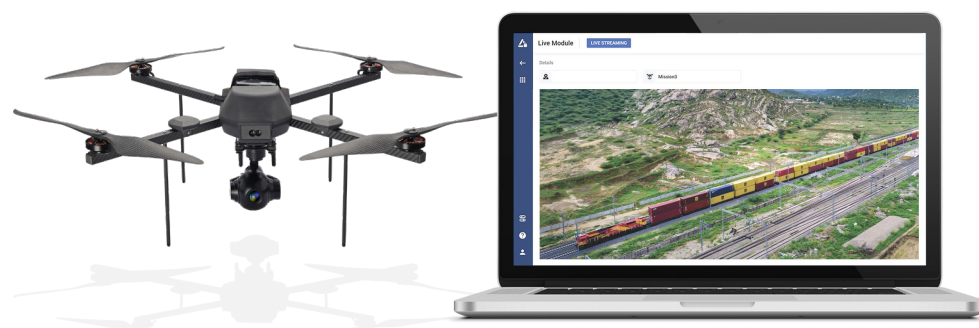
Real-time project updates with SkyDeck's live streaming capability -

The live streaming facility was made available at the Freight Corridor Agency office while doing the surveillance to capture the relevant project details precisely with the right context. Live streaming facilitated a dynamic and comprehensive approach to surveillance, enabling the Agency officials to capture relevant project details with precision and context. From their office environment, they could observe the ongoing drone operations, gaining valuable insights into the project area in real-time. This ensured that surveillance efforts were not only efficient but also effective, as any pertinent information or developments could be promptly identified and addressed.

Asteria's A200-XT drone aided in improving the effectiveness of the deployed manpower and worked as a force multiplier in areas like regular railway track inspection and maintenance procedures, especially in areas difficult to navigate manually to assess the infrastructure. The inspection and monitoring through drone technology helped the Freight Corridor Agency in efficient planning and execution of new projects with precise and faster decision-making. Asteria's drone was able to cover much larger sections of railway infrastructure and access difficult locations that service vehicles can't reach.

Technology at Work

A200-XT with SkyDeck – Optimized for excellence









- Flight Altitude: Up to 500 m (Above Ground Level)
- Communication range: 2 km (Line of Sight)
- Flight Time: Up to 40 mins
- Sensor: Full HD (1920*1080p)

SkyDeck is a cloud-based drone operations and analytics platform that can be used to automate flight missions, manage data on the cloud, and collaborate across projects to enhance drone operations.

Outcome

- High-resolution imagery helped in highlighting problematic areas.
- Monitoring of ongoing projects with live video and detailed reports.
- Assessment of damages in railway network to provide critical information to emergency personnel.
- Periodic assessment of assets.

Benefits

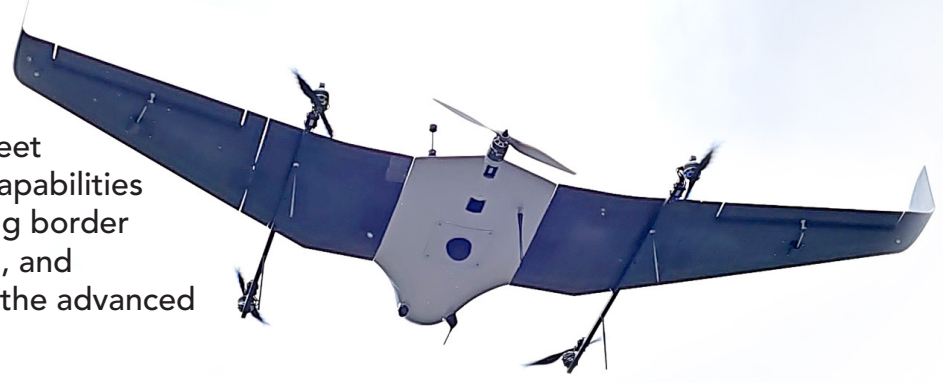
 Minimal downtime	 Improved adherence to schedule	 Efficient resource allocation
 Asset assessment with greater accuracy	 24X7 long range (5 km) monitoring operations	 Efficient planning via GIS insights

Business Impact

By deploying Asteria's A200-XT drone, the Freight Corridor Agency was able to digitize inspections and surveys of railway infrastructure, and at the same time, mitigate safety concerns, reduce costs, and allow for faster, more accurate decision-making.

“Asteria Aerospace is doing an excellent job in manufacturing quality drones in compliance with DGCA guidelines. The products offered by them are DGCA type certified. Further, the team is highly technical and customer oriented.”
Freight Corridor Agency

THE UNMATCHED CAPABILITIES OF AT-15 VTOL DRONE FOR MODERN DEFENCE



The AT-15 drone is equipped with features designed to meet the demanding needs of modern military operations. Its capabilities ensure superior performance in various scenarios, including border security, battlefield support, ISR (Intelligence, Surveillance, and Reconnaissance), and counter insurgency. Let's delve into the advanced features of the AT-15 drone.

Direction of Own Artillery Fire (DOOAF):

The AT-15 drone excels in providing precise artillery fire direction, delivering real-time targeting intelligence, allowing for accurate and efficient fire coordination.

Long Endurance:

One of the standout features of the AT-15 is its extended endurance of up to 120 minutes for conducting prolonged surveillance missions without needing frequent returns for recharging.

Integrated EO-IR Payload:

The AT-15 is equipped with an advanced EO-IR payload for day and night operations, capturing detailed visuals and heat signatures.

Rugged Military-grade Design:

Designed to withstand harsh environments, the AT-15 features a rugged, military-grade body ensuring reliable performance in diverse terrains and challenging weather conditions.

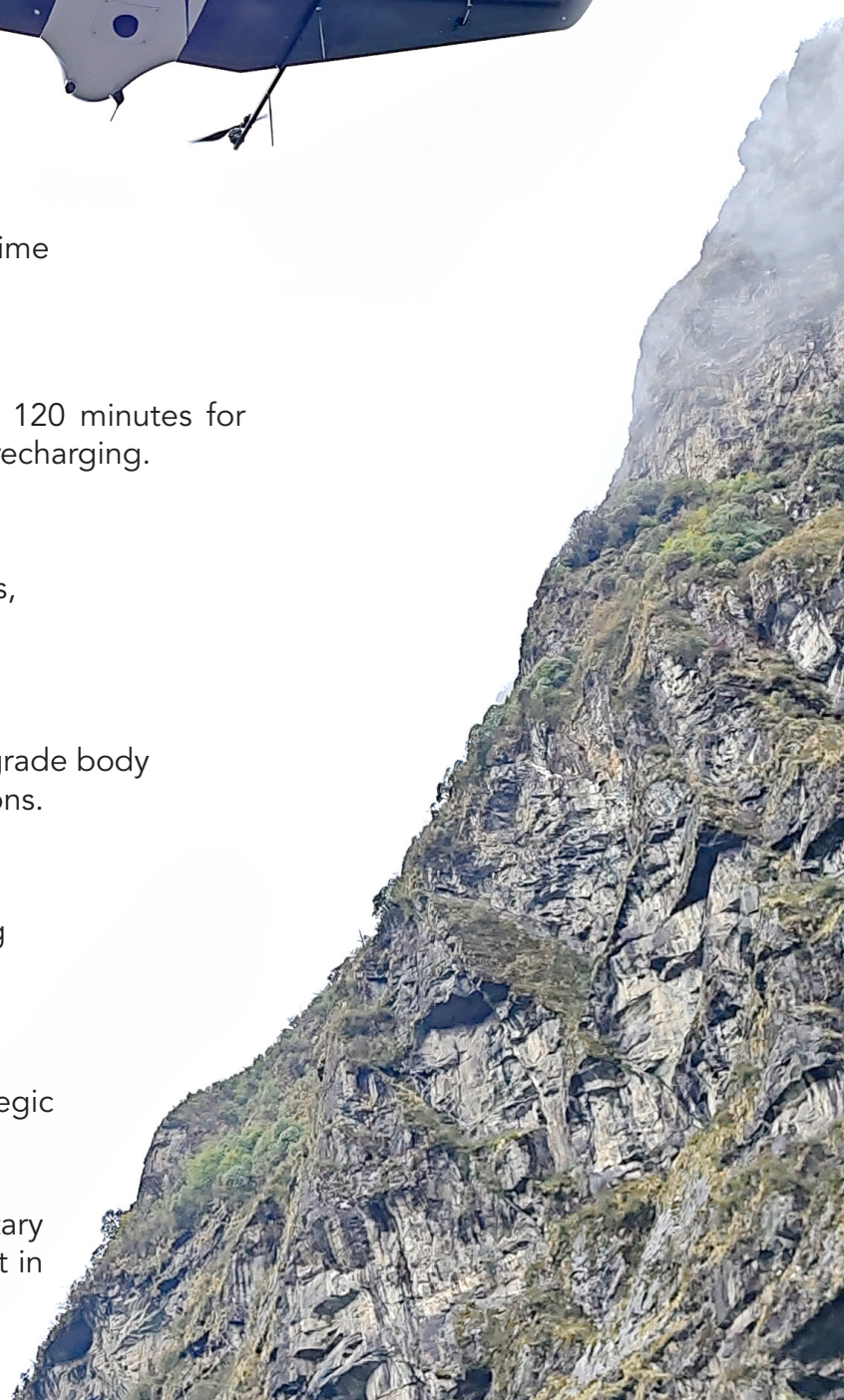
Target Tracking:

Advanced target tracking technology enables the AT-15 to maintain focus on moving subjects, which is critical for ISR and counter-insurgency missions.

High-Altitude Flying:

The ability to fly at altitudes as high as 6000m AMSL provides the AT-15 with a strategic advantage and allows for broader surveillance coverage.

The AT-15 drone offers features that meet the complex demands of modern military operations. Its versatility and advanced capabilities make it an indispensable asset in maintaining security and effectiveness in various defence scenarios.



ARTICLE
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ASSOCIATION OF AEROSPACE INDUSTRIES

Optimize Mine Mapping & Surveillance with DGCA Type Certified Drones & Cloud Tech

The mining industry has seen a significant surge in the adoption of drone technology in recent years. Drones have proven their versatility with a wide array of applications, including exploration, surveying, mapping, safety maintenance, and security enhancement. The gradual shift from traditional surveys to drone-based surveys can be attributed to the advantages of using drones.

Asteria Aerospace Limited: Leading the Way

Asteria Aerospace Limited, India's leading full-stack drone technology company, offers a unique combined solution. This includes DGCA type-certified drones for mapping and surveillance, an end-to-end drone data management platform, SkyDeck built on India-hosted, MEITY-certified cloud infrastructure, and support from a team of DGCA-certified pilots.

Drone technology is transforming the mining sector, providing unparalleled advantages over traditional survey methods. Asteria Aerospace Limited, with its DGCA type-certified drones and the SkyDeck cloud platform, offers a comprehensive solution

that addresses the unique challenges of mining operations. By adopting these cutting-edge technologies, mining companies can optimize their workflows, improve data accuracy, and achieve greater operational efficiency.





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