

PROGRESS • HARMONY • DEVELOPMENT

PHD

CHAMBER OF COMMERCE AND INDUSTRY
ESTD. 1905



भारत DRONE

MANTHAN - 3.0

**“Vision to Action—Powering India’s Deep-Tech Future :
Catalyzing Innovation, Skilling &
Manufacturing to Accelerate India’s AI-Driven
Drone & Robotics Revolution for
Viksit Bharat 2047**

30th

31st

July, 2026

PHD House, New Delhi



Conclave cum Expo on Drones ; Drone Components ; Unmanned Systems (Land & Water); UAV,UAS, eVtol UGV, USV, UUV ,UTM; UAM, Robotics , Advanced Air Mobility (AAM) ecosystem , Anti-Drone Systems, LiDAR, Geospatial Technologies ; AI ; Manufacturing & All Allied Stakeholders & End-User Industries for commercial and military applications

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The Global Drone & Robotics industry is undergoing rapid transformation, marked by accelerated growth, large-scale commercial adoption and increasing significance in modern military operations. What was once a niche technology has evolved into a mature, structured, and expanding ecosystem with technological sovereignty, driven by the convergence of technological advancement, regulatory progress and commercial viability.

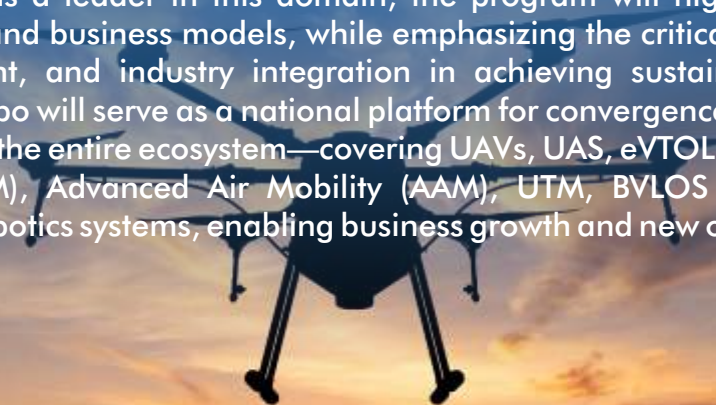
Deep-tech innovations—particularly Artificial Intelligence (AI) and Autonomy—are now central to this evolution, enabling drones to serve as core operational tools across diverse sectors such as logistics, cargo delivery, agriculture, defense, healthcare, emergency response, infrastructure monitoring, surveillance, national security & border surveillance, geospatial mapping, environmental tracking, cyber security, disaster management, and public safety, far beyond recreational, entertainment, mainstream industrial applications and military integration. Drones are no longer optional add-ons but integral to enterprise infrastructure, enhancing efficiency, reducing costs, and enabling data-driven decision-making, reshaping how societies operate and interact with the skies.

Industry projections indicate significant growth in the commercial drone and robotics market through 2036, fueled by AI-enabled platforms and sustained Research & Development efforts that expand operational & manufacturing capabilities. Simultaneously, global regulatory frameworks are also evolving to support safe integration into civilian airspace, with advancements in detect-and-avoid systems, Remote ID protocols, and BVLOS (Beyond Visual Line of Sight) operations addressing safety and privacy concerns.

India's Drone and Robotics sector is emerging as a global force, targeting a 25% share of the global market by 2030. Supported by initiatives such as the PLI scheme and reinforced by the Union Budget 2026–27, drones are now viewed as an established capability rather than an emerging sector. A strong emphasis is being placed on capital formation, indigenous manufacturing, "Owned in Bharat" & IP creation, particularly across defence, infrastructure, and agriculture. Initiatives like Namo Drone Didi further highlight efforts to empower rural communities and integrate drones into grassroots development. With the right policies, budget allocations for R & D, International technological transfer policies and private-sector support, the Indian Drone & Robotics Industry could achieve new heights.

Building on the success of previous editions, PHDCCI Bharat Drone Manthan 3.0 – "Vision to Action: Powering India's Deep-Tech Future" aims to catalyse innovation, skilling, and manufacturing to accelerate India's AI-driven drone and robotics revolution toward Viksit Bharat 2047. The platform will convene industry leaders, start-ups, policymakers, manufacturers, buyers, certification bodies, and technology experts to address challenges, showcase cutting-edge advancements and develop actionable recommendations to strengthen the "Make in India" vision.

As India positions itself as a leader in this domain, the program will highlight global trends reshaping supply chains and business models, while emphasizing the critical role of innovation, indigenization, investment, and industry integration in achieving sustainable and inclusive ecosystem growth. The expo will serve as a national platform for convergence, collaboration, and commercialization across the entire ecosystem—covering UAVs, UAS, eVTOL, UGVs, USVs, UUVs, Urban Air Mobility (UAM), Advanced Air Mobility (AAM), UTM, BVLOS operations & next-generation AI-enabled robotics systems, enabling business growth and new opportunities.



WHY EXHIBIT

01



Explore partnership, investment & business opportunities.

02



Network with industry leaders, experts, and potential clients.

03



Showcase your latest technologies, products and innovations to your target audience.

04



Gain insights into the latest industry trends and developments.

DRONE & ROBOTICS ECOSYSTEM

Drone & Robotics Manufacturers- Component manufacturers

Companies designing & producing commercial industrial, and military drones.

Drone & Robotics Technology Providers

Robotics Manufacturers & designers for industrial automation, healthcare & consumer applications.

Manufacturers of batteries, motors, and other essential components & Service Providers

Skilling & Training Organisations- Skilling for Drone Users

Sensor and Component Suppliers Of Drones ; UAV's: Evtols

Drone Disposal companies

Make In India for Drones

END USERS: INDUSTRIES LEVERAGING

DRONE'S, UAV'S & ROBOTICS TECHNOLOGIES

Defence ; Aerospace & Aviation (Air Taxi's)

Agriculture & Crop Monitoring

Healthcare; Pharmaceuticals & Medical Logistics

Infrastructure & Construction-Aviation, Railways, Roads & Other Infra Projects

Logistics, Unmanned Cargo Transport, Express Delivery & Warehousing

Disaster Management, Law Enforcement & Border Control Surveillance organisations

Energy, Oil & Gas, Petrochemicals, Power & Mining

Surveys , Mapping & Remote Sensing - application in geospatial domains

Tourism, Aerial Photography, Journalism, Cinematography & Entertainment

Urban planning & Environmental monitoring

Search & Rescue operations, Fire & Safety Operations

Forestry & Wildlife conservation & Environmental monitoring

Consulting Firms- Specializing in drone & robotics compliance& market analysis

Academia-Research Institutions & Organisations offering training & certification programs

Investors & Venture Capitalists- Firms looking to invest in the industry

Trade Associations ; Advocacy Groups; NGO's , Cooperatives & Asha Workers

Other Relevant Sectors & Industry Stakeholders

DRONE TECHNOLOGY SUPPORT SYSTEM:

UTM Technology Providers & Tracking Organizations;

Advanced Air Mobility (AAM) systems & Vertiports organizations

UAV; UAM; eVTOL organisations Technology Providers; Data Analytics & IoT

Startups ; Innovators & Entrepreneurs - showcasing cutting-edge technologies

Software Developers in drone operation software, flight planning tools ; data analysis platforms & other technologies

Developers of robotics control systems and artificial intelligence applications

Providers of Cameras, GPS systems, LiDAR & other sensors

Other stakeholders



**KEYNOTE SESSION: BHARAT'S
DRONE & ROBOTICS VISION -
ADVANCING TOWARDS VIKSIT BHARAT**

- Policy roadmap, Market Potential & Global Positioning
- Ease of doing business & procurement reforms
- Owned in Bharat : Indigenous Manufacturing & Global Supply Chains
- Deep Tech- Technological Sovereignty; IP Creation; Research & Development & AI
- Drones Policy, BVLOS, & Cross-Border Drone Regulations
- Design Circle-PLI schemes, defense procurement, indigenization
- Creating Demand by Centre & States simplified procurement policies
- Military-Civil Tech integration
- Global partnerships & technology transfer

**DEFENCE & HOMELAND
SECURITY APPLICATIONS**

- Tactical drones, counter/anti-drone systems, multi-layered, hybrid mobile & AI-enabled technologies
- Border Surveillance & Reconnaissance; ISR & AI-enabled surveillance systems
- Civil-Military fusion, Public-private collaboration ; R&D & IP creation
- Heavy-lift & logistic drones for defense ops
- Modern warfare, USVs & UAVs for defense; Dual-use technologies & indigenization
- -Integrated combat ops for precision strikes (drones + manned systems
- -Case study -Operation SINDOOR & Current Global scenario}
- Multi-Sensor Systems: combining radio frequency detectors, radar& electro-optic systems to counter advanced threats
- Swarm Technologies: swarm intelligence, decentralized & Centralized swarm systems
- Airspace safety & separation systems{ manned and unmanned aircraft}
- Collaboration with air defense systems, radar networks & command centers
- Integrated operation of drones helicopters and fighter aircraft during intense combat
- Military- Civil Technology Fusion (MCTF) & Strategic Atmanirbharta to become a Global Drone Hub
- Single-window platform-connecting armed forces, academia & Drone ecosystem

**OWNED IN BHARAT : INDIGENOUS
MANUFACTURING & SUPPLY CHAINS**

- Domestic Manufacturing ecosystem strengthening & policy support
- End-to-end Manufacturing (airframes, propulsion, avionics, payloads)
- Localization & Indigenization of Critical Components (sensors, chips, batteries etc)
- MSME Participation push, Cluster development & Testing Facilities { encouraging Tier 2/3 suppliers}
- Reducing dependency on imports for key components such as semiconductors, sensors, batteries, GNSS modules, flight controllers & other technologies
- Enhancing Investment-Leveraging Governments Make In India & PLI Schemes; Policy Support; Public Procurement with Investment & Funding Opportunities
- Incentivizing domestic production for deep-tech manufacturing & high-value sensitive components
- Encouraging patent generation; ownership of core technologies; cost competitiveness & reduced production costs through standardization and automation
- Sustainable manufacturing & lifecycle management to compete globally
- Export competitiveness and Global value chain integration

**FUTURE TRENDS : URBAN &
ADVANCED AIR MOBILITY;
ROBOTICS INTEGRATION & BEYOND**

- Supporting Regulatory Frameworks; Technologies & Airspace Integration:
 - BVLOS, eVTOLs, Remote ID, UTM systems, Digital Sky platform – status, challenges & evolution
 - Urban integration: transport networks, air corridors & infrastructure Dedicated landing & Infrastructure requirements - "Vertiports"
 - Global standards, evolving technologies & sustainable Air Taxi reality check
 - Robotics ecosystem: R&D focus & commercial applications
- AI, Autonomy, Technological Sovereignty & IP Creation:
 - Role of AI/ML in navigation, autonomous flight systems and real-time decision-making
 - UTM Solutions and Integration with UAM & AAM systems- Latest developments
 - Metaverse & Virtual Reality (VR) Applications in Drone Simulations & training
 - Advanced Software Innovations & Sustainable Hardware Solutions
 - Digital infrastructure requirements

- **Next-Gen Technologies; Innovation & Digital Ecosystem**
 - AI, 5G, IoT, quantum computing, advanced sensors, high-resolution imaging, and robust digital backbone
 - Faster, reliable UAV networks & connectivity
 - Innovation & Digitalization – Latest Trends , Technologies ; Apps ; Emerging platforms ;Simulation (VR/Metaverse) & advanced software solutions
 - High-resolution cameras & sensors & reconnaissance technologies
 - Emerging Cutting Edge Technologies, Innovations & Future Trends
- **Cyber Security & Data Governance in UAV Operations :**
 - Data protection, privacy & secure UAV operations
 - Cyber security Challenges, Data Security Technologies & Solutions in UAV Operations
- **Geospatial & Data-Driven Ecosystems:**
 - Integration of Aerial data collection & Geographic Information Systems (GIS), and decision intelligence
- **Infrastructure & System Integration:**
 - UTM/UAM systems, digital infrastructure, and operational frameworks
 - Collaborations with aviation ecosystem & airports
- **Manufacturing & Sustainability:**
 - Advanced hardware, sustainable solutions, and “Make in India” innovations
- **Global Trends & Technology Transfer:**
 - International standards, collaborations & localization strategies
 - Technology transfer & adaptation

COMMERCIAL USE CASES TRANSFORMING INDUSTRIES

Sector-Specific Applications of Drones & Robotic Technologies

- **Agriculture:**
 - Rural Empowerment & Social Impact: Namo Drone Didi (IFFCO case study), enabling grassroots adoption and livelihood generation
 - Smart Agriculture Applications: Crop monitoring, soil analysis, irrigation management, and aerial farm surveys
 - Precision Farming: Optimized pesticide and fertilizer application
- **Logistics & Delivery: last-mile delivery, cargo, warehousing**
 - Last-mile delivery, cargo drones, supply delivery, Unmanned Cargo
 - Transport, Express Delivery
 - Use of Drones & Robots in Warehouses & airport customer service
- **Healthcare & Pharmaceuticals:**
 - Emergency Blood & Medicine delivery & Robotic Surgeries
- **Disaster Management; Search & Rescue Operations**
 - Public Safety, Security, Mob management, Surveillance, Law enforcement, Search & Rescue & Emergency Response Services
 - Emergency crisis situations, rescue and fire fighting operations.

- **Infrastructure:**
 - Aviation: air taxis, eVTOL, runway monitoring
 - Site surveys & Inspections & Progress monitoring
 - Railways , Roads; Telecommunications & Other Infra Projects monitoring
 - Energy, Oil & Gas, Petrochemicals, Power & Mining projects
 - Smart Cities; Urban planning & Environmental monitoring
 - Integrating UAVs into Urban Infrastructure
- **Geospatial & Environmental Monitoring :**
 - Geospatial Surveys , Mapping, Data Analytics & remote sensing
 - Climate tracking, conservation, and green drone technologies.
 - Forestry & Wildlife conservation surveys
- **Tourism & Entertainment:**
 - Aerial Photography , Journalism & Cinematography
- **Maritime & Underwater Systems:**
 - Port automation; coastal surveillance & Blue economy applications
- **Other Sectors & Industries**

HARNESSING FUTURE SUSTAINABLE GROWTH & A FUTURE-READY SKILLED ECOSYSTEM:

- **Atmanirbhar Bharat & Innovation :**
 - Civil UAS policy, Startups, Innovation, Funding & Investment Landscape
 - Funding trends, Incubation, scaling & growth of deep-tech startups
 - R&D, Innovation & IP Creation schemes, Next-gen technologies
- **R & D ; Skilling & Workforce Development:**
 - Training, certification, RPTO programs- Civil & Defense collaboration
 - Industry led Special skills training in electronics, robotics, AI & Aerospace manufacturing and certification frameworks
 - Academia-industry collaboration- Bridging the gap
 - Remote Pilot Training (RPTO) & Skilling in the other training areas of the ecosystem
- **Accreditations, Compliance, Quality Standards & Certification Ecosystem:**
 - Globally aligned Quality benchmarks & testing infrastructure
 - Safety, compliance , reliability & global standards
 - Strengthening certification bodies and infrastructure
 - Minimum design and quality standards for drone components to reduce dependence on import for critical systems
 - Airspace integration frameworks
- **Collaboration Across Sectors & Stakeholders: Public-Private Partnerships – Strategy & Blueprint**
- **Recommendations for Policy Level recommendations & International collaborations**

KEY RECOMMENDATIONS:

Civil UAS Atmanirbharta Policy; Civil UAS R&D programs; Design Linked Incentives (DLI) for UAS; IDDM assessment in the Certification of UAS

INVITED SPEAKERS & EMINENT STAKEHOLDERS

- » Ministry of Civil Aviation
- » Airports Authority of India & AAICLAS
- » DGCA / BCAS / AERA / DGFT / QCI
- » State Aviation Departments
- » Ministry of Defence / Ministry of Electronics/ Ministry of Health/ Ministry of Agriculture & Other Relevant Ministries
- » Airports-Passenger & Cargo
- » Ambassadors, Diplomats & International Civil Aviation Authorities
- » Defence Services-Indian Air Force, Indian Navy & Indian Army
- » DRDO, Defence Innovation Organisation(DIO)
- » NITI Aayog
- » Innovators & Drone Manufacturers- National & International
- » Drone Ecosystem Leaders & Technology Providers
- » Drone Component Suppliers
- » MRO / OEM Industry for Drones
- » Service Providers of the Drone Ecosystem
- » Drone Disposal companies
- » Drone Federation of India & Other Drone Associations
- » UTM Technology Providers & Tracking Organisations

- » UAV's & UAM & Advanced Air Mobility (AAM) system companies & Vertiports
- » Start-ups, Hubs & Entrepreneurs
- » Engineers, Technology Enthusiasts & Innovators
- » E-Commerce Companies & E-Logistics providers
- » Express Cargo and Ground Handlers
- » Integrated Express Service Providers
- » Air Freight Companies , Cargo Handlers ,
- » Logistics & Warehousing Companies
- » Technology Providers, Data Analytics & IoT
- » Travel Boards & Film Associations – National & International
- » Scheduled and Non-scheduled Airlines
- » Airport Operators & Airport Service Providers
- » Manufacturers & Suppliers/ Wholesalers,
- » Distributors & Retailers
- » Exporters / Importers / Traders /Manufacturers
- » Business Advisors; Legal Experts
- » Academia & Certification Companies

User Sector Stakeholders & Industry Experts

- » Infrastructure-Aviation, Railways
- » Roads & Other Infra Sectors
- » Defence & Aerospace
- » Agriculture & Crop Monitoring
- » Healthcare & Pharmaceuticals
- » Transportation and Delivery- Logistics,
- » Unmanned Cargo Transport, E-Commerce , Express Delivery & Warehousing
- » Disaster Management, Law Enforcement & Border Control Surveillance
- » Energy, Oil & Gas, Drilling,
- » Petrochemicals, Power & Mining-Surveys , Mapping & Remote Sensing
- » Urban Planning & Environmental monitoring
- » Search & Rescue operations
- » Environment, Forestry & Wildlife conservation
- » Fire & Safety Operations
- » Tourism, Aerial Photography, Cinematography
- » Sports & Entertainment & Amusement Industry
- » Drone Skilling & Training Organisations
- » Education Organization, NGO's
- » Research and Development
- » Other Related Sectors & Industries

GLIMPSES - PREVIOUS EDITIONS





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“PARTNERSHIP & EXHIBITION OPPORTUNITIES”

The programme also provides ample opportunities and a global platform to Partner and Showcase game-changing technologies/ trends / products/services in all avenues of this sector to the relevant decision makers and stakeholders, which promises to shape the future of the industry, while further enhancing your brand value.

For Speaker / Partnership / Stall Opportunities Please Contact :

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