White Paper: Drone Take-off Reliability Index (DTORI) Project Plan

Building International Low-Altitude Economy Safety Evaluation Standards



I、Project Overview: Leading a New Era of Low-Altitude Economy Safety

（a）Project Background

The low-altitude economy (LAE) is an emerging field with massive potential across logistics, emergency medicine, agriculture, and security. However, large-scale application is hindered by safety bottlenecks such as weather interference, terrain limitations, and high insurance costs. Traditional risk assessment methods are often too singular to provide a reliable basis for operators, manufacturers, and insurers. To address this, the Hong Kong government designated LAE as a key development area in 2024, establishing a "regulatory sandbox" to provide a supportive policy framework

（b）Project Launch and Goals

In March 2025, the **Drone Take-off Reliability Index Committee**—comprised of members from X Social Group, HKBU, China Unicom Global, PolyU, HKT, Damoda HK, GBA LAEA and others—obtained sandbox pilot status at the China Merchants Wharf in Kennedy Town. The project aims to integrate meteorological, geographical, and drone specification data to establish the world's first city-level safety flight standard.

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（b）Core Objectives of DTORI

- Technical Breakthrough: Build a global model integrating "Space-Air-Ground-Drone-Regulation" data with centimeter-level precision.
- Industry Empowerment: Establish an international certification system to provide authoritative safety data for operators and insurers, creating an "Integrated Data + Certification + Insurance" solution.
- Social Benefits: Reduce accident rates and increase public trust to accelerate the adoption of drones in medical and logistics fields.
- International Influence: Lead the development of the *Greater Bay Area (GBA) Drone Operational Safety Assessment Standard Framework* and push DTORI into international standards (ISO/IEEE).

II、The DTORI Four-Layer Dynamic Evaluation System

（a）Construction of Evaluation System

The DTORI evaluation model is built upon an expansion of the IEEE framework, integrating data science, GIS, AI, quantum encryption, and risk management. It utilizes a four-dimensional quantitative approach:

1. Space/Air Dimension (Meteorology and Space Domain):

- Data Sources: These include satellite signals, wind speed/direction (wind resistance rating during typhoon seasons), precipitation/cloud thickness, barometric pressure, electromagnetic interference (Geomagnetic Disturbance Index KP value), terrain complexity (urban canyon coefficient), air quality (PM2.5), and satellite signal strength/stability (Beidou/GPS).
- Technical Implementation: This involves integrating real-time warnings from the Hong Kong Observatory's meteorological stations and updating on-site survey data prior to take-off.
- Evaluation Role: Through real-time monitoring and analysis of the meteorological and space environment, the system predicts factors that may impact drone flight—such as strong winds, rainstorms, and electromagnetic interference—to provide accurate environmental information and risk assessments.

2. Ground Dimension (Geospatial):

- Data Sources: Key metrics include the urban canyon coefficient, terrain complexity, maritime special protection mechanisms, dynamic management of no-fly zones, and emergency scenario adaptation.
- Technical Implementation: The system utilizes a high-precision Geographic Information System (GIS) and a network of ground sensors to monitor geographical changes in real-time while integrating with dynamic no-fly zone management systems.
- Evaluation Role: It analyzes the impact of geographical features, such as the urban canyon effect and terrain complexity, on drone flight to conduct path planning and provide risk warnings, ensuring flight safety in complex environments.

3. Drone Dimension (UAV System):

- Data Sources: This covers hardware performance, software stability, hardware pre-certification, multi-drone collaborative reliability, communication link reliability, geofencing accuracy, backend system security, flight trajectory record integrity, and operator qualifications and collaborative capabilities (for multi-drone operations).

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- Technical Implementation: Comprehensive detection and evaluation of the drone system are combined with flight data recording and operator qualification certification to achieve full control over flight safety.
- Evaluation Role: This ensures the reliability and safety of the drone itself while improving the efficiency and safety of swarm operations through collaborative capability assessments, thereby reducing risks caused by equipment failure or improper operation.

4. Regulation Dimension (Regulatory Compliance):

- Data Sources: Components include semanticized airspace rules, dynamic airworthiness certification, cross-domain compliance linkage, and risk index direct-linking to insurance platforms.
- Technical Implementation: Regulatory requirements are converted into quantifiable and operational evaluation indicators, creating an organic link between risk assessment and insurance pricing.
- Evaluation Role: This ensures that drone flights comply with relevant laws and regulations, enhances legality and safety through dynamic certification and cross-domain linkage, and provides a scientific basis for insurance premium pricing.

（b）Core Outputs

- **Composite Score**: A score of 0-100 is used to measure the overall take-off reliability of the drone. This score is derived from a weighted calculation of the Space/Air, Ground, Drone, and Regulation dimensions, intuitively reflecting flight reliability under current conditions.
- **Scenario-Based Certification**: Different certification standards are set based on specific application scenarios. These address the unique risk profiles and safety requirements of different use cases to ensure drone reliability in specific settings.
- **Dynamic Warning**: A three-tier (Green/Yellow/Red) "circuit breaker" mechanism issues real-time alerts based on risk assessments. The system continuously monitors flight risks and takes specific actions: **Green alerts** automatically push route optimization suggestions; **Yellow alerts** restrict the entry of additional aircraft; and **Red alerts** trigger a global emergency shutdown. This mechanism effectively reduces the probability of flight accidents.

III、Technical Architecture and Core Advantages

（a）Technical Architecture

1. The world’s first dynamic risk assessment index integrating "Space-Air-Ground-Drone-Regulation" multi-dimensional data:

- Space-based: Beidou and remote sensing satellites provide high-precision positioning and meteorological data. These cover extensive areas to ensure the accuracy and timeliness of the information.
- Air-based: Drone radar and 5G-A communication and sensing integrated base stations enable real-time monitoring and perception of the low-altitude flight environment. These provide detailed information regarding weather, terrain, and other factors.

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- Ground-based: Meteorological stations, millimeter-wave radars, and ground sensors supplement space-based and air-based data. These provide high-precision ground environment data to enhance the overall accuracy of the assessment.

2. AI Superbrain:

- Deep learning models: These facilitate dynamic environmental perception, swarm collaborative obstacle avoidance, and the calculation of airspace risk values. By utilizing deep learning models to rapidly process and analyze multi-source heterogeneous data, the system achieves real-time perception and risk prediction of the flight environment. It performs swarm collaborative obstacle avoidance based on these predictions to ensure the safety and efficiency of drone cluster operations.

3. High-Precision Spatial Modeling:

- Technical Basis: Built upon Fuxi 3D grid coding and 3D maps of Hong Kong.
- Functionality: Achieves centimeter-level positioning and risk heatmap generation. By employing high-precision spatial modeling technology, the system realizes accurate modeling of the drone flight environment. This provides high-precision positioning services and risk heatmaps, offering intuitive and accurate risk information for drone flights.

4. Secure Communication:

- Technical Protection: Quantum encryption protocols safeguard data transmission and end-to-end security. Advanced quantum encryption technology is used to ensure the security and confidentiality of data during transmission. This prevents data from being intercepted or tampered with, thereby guaranteeing the safety of drone flight control and data transfer.

IV、Low-Altitude Economy Application Scenarios and Value Verification

（a）Scenario Empowerment and Performance Enhancement

1. Multi-Drone Collaborative Operations:

- DTORI Core Function: Dynamically evaluates safe spacing for drone clusters and provides real-time route optimization for collision avoidance.
- Technical Implementation: Utilizes the Fuxi centimeter-level positioning algorithm for real-time trajectory correction combined with 5G-A ultra-low latency.
- Target Performance Enhancement/Value: Increases airspace utilization.
- Description: By dynamically evaluating cluster flight safety intervals and optimizing routes, the system improves the utilization of airspace resources. This enables safe operations for a higher volume of drones within a unit of airspace, significantly boosting flight efficiency.

2. Critical Infrastructure Inspection:

- DTORI Core Function: Constructs 3D risk heatmaps of buildings and intelligently calculates the shortest obstacle avoidance distance.
- Technical Implementation: Integrates geographic data with millimeter-wave radar and real-time point clouds.

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- Target Performance Enhancement/Value: Reduces accident rates and enhances the safety and efficiency of power grid and bridge inspections.
- Description: The use of high-precision 3D risk heatmaps and intelligent obstacle avoidance calculations reduces the probability of collisions and other accidents during inspections, ensuring the safe operation of critical infrastructure.

3. **Emergency Rescue Response:**
   - DTORI Core Function: Generates optimal rescue paths while automatically avoiding meteorological and terrain risks.
   - Technical Implementation: Employs space-air-ground data linkage, using models that dynamically balance timeliness and safety.
   - Target Performance Enhancement/Value: Increases response speed to open a "Life Air Corridor."
   - Description: By integrating multi-source data from space, air, and ground, the system uses machine learning models to rapidly generate the most efficient rescue paths, significantly shortening response times for emergency missions.
4. **Smart Airspace Management:**
   - DTORI Core Function: Provides visualized traffic monitoring and automatically identifies risk hotspots.
   - Technical Implementation: Leverages 5G-A backhaul with the capacity to coordinate thousands of aircraft simultaneously.
   - Target Performance Enhancement/Value: Empowers the government with dynamic airspace partitioning and efficient supervision.
   - Description: Visualized traffic monitoring and risk hotspot identification assist government authorities in achieving dynamic airspace management and high-efficiency oversight, improving the scientific precision of airspace control.
5. **Cross-Border Logistics Delivery:**
   - DTORI Core Function: Evaluates rule compatibility across three regions and provides a GBA-LAC unified pass code.
   - Technical Implementation: Implements mutual recognition of geofences and performs matching analysis for approval processes.
   - Target Performance Enhancement/Value: Accelerates the connection of the Greater Bay Area low-altitude logistics network (e.g., SF Express, Meituan).
   - Description: By evaluating rule compatibility within different regions of the GBA and providing a unified pass code, the system promotes the application of drones in cross-border logistics, enhancing delivery efficiency and convenience.

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（b）Standardized Ecosystem Construction

1. **Certification System**:
    a. The project aims to incorporate the DTORI index into the Hong Kong Civil Aviation Department's (CAD) airworthiness certification indicators.
    b. Promoting DTORI as an essential reference for airworthiness provides a scientific basis for management, improving both the safety and legality of drone operations.
2. **Data Hub**:
    a. DTORI is set to become the official risk assessment platform for the Greater Bay Area Low-Altitude Economy Alliance.
    b. As the official platform, it will provide authoritative risk assessment services to promote collaborative development and standardized management within the GBA.
3. **International Integration**:
    a. The core algorithm framework is targeted for adoption by the IEEE/ ISO/TC20/SC16 standards committee.
    b. Active participation in international standard-setting will elevate the global recognition of DTORI's algorithms, enhancing its international influence and supporting the globalization of the low-altitude economy.

V、Implementation Milestones（2025-2026）

（a）2025 Q2 to Q4

- **Infrastructure Deployment of the "Space-Air-Ground" Monitoring Network at Sandbox Test Sites**: Complete the construction and deployment of the "Space-Air-Ground" monitoring network infrastructure at sandbox sites such as the China Merchants Wharf in Kennedy Town. Begin testing and verification to ensure the stability and reliability of the monitoring network.
- **Establish the "Drone Take-off Reliability Index Committee"**: Unite drone operators, manufacturers, scientific research institutions, and other relevant units to jointly establish and maintain a drone environmental database. This will provide strong support for DTORI data acquisition and analysis.

（b）2026 Q1 to Q4

- **Apply for Low-Altitude Economy Regulatory Sandbox X**.
- **Collaborate with Two Leading Insurance Companies**: Establish partnerships with two industry-leading insurance companies to apply DTORI risk assessment data to insurance pricing and risk management. This provides a scientific basis for pricing while offering drone operators more favorable insurance services.
- **Launch the Drafting of the Greater Bay Area (GBA) Standard White Paper**: Form a dedicated task force to start drafting the *Greater Bay Area Drone Operational Safety Assessment Standard Framework* White Paper. This will summarize DTORI's practical experience and technical achievements to serve as a reference for GBA low-altitude economy standardization.
- **Seek Civil Aviation Department (CAD) Support for the DTORI Certification System**: Officially launch the DTORI international certification system, clearly defining certification standards, processes, and methods. This will provide certification services for operators and manufacturers, enhancing the industry's level of standardization.
- **Execute Certification Agreements with Five Drone Enterprises**: Sign certification agreements with five drone companies and begin certification work. Promote the application of the DTORI certification system within the industry through these demonstration applications.

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（c）2027 Q1 to Q4

- **Expand the Monitoring Network to Core "Belt and Road" Locations**: Extend the "Space-Air-Ground" monitoring network to other core cities and regions. This expansion aims to increase DTORI's coverage and enhance its influence in ASEAN and Middle Eastern markets.
- **Release the *GBA and ASEAN Low-Altitude Equipment Mutual Recognition White Paper***: Publish this white paper to promote the integrated development of the low-altitude economy.
- **Submit DTORI Core Modules to ISO/IEEE**: Submit core technical modules to international standards organizations and participate in international standard-setting. This will improve DTORI's international standardization level and global influence.
- **Publish the Draft Framework for Hong Kong Low-Altitude Economy International Standards**: Release the draft framework in Hong Kong to demonstrate research results and practical experience to the international community. This effort seeks to gain international recognition and support.

VI、Business Model (DTORI Profit Model and Operations)

（a）DTORI Value Proposition and Revenue Sources

The core value proposition of DTORI lies in providing participants in the low-altitude economy with a standardized, objective, and quantitative evaluation tool for drone take-off reliability. This tool significantly enhances operational safety, decision-making efficiency, and risk management levels.

- **For Drone Operators**: DTORI helps them avoid flight failures caused by severe weather or signal interference, thereby reducing economic losses and reputational risks.
- **For Regulators**: It serves as an auxiliary decision-making tool to improve the efficiency and safety of airspace management.
- **For Insurance Companies**: The risk assessment data provided by DTORI assists in the more accurate determination of insurance premiums.
- **For Drone Manufacturers**: DTORI can be used as a reference standard for product testing and performance verification.

（b）DTORI Revenue Model

1. **Data Service Subscription Fees**:
   - Provide different levels of DTORI index data access and API interfaces to professional users (such as drone operation companies, logistics enterprises, and large-scale event organizers).
   - Revenue is generated through monthly or annual subscription fees.
2. **Value-Added Service Fees**:
   - Provide customized risk assessment reports based on the DTORI index.
   - Offer value-added services such as flight plan optimization suggestions and safety certifications for specific areas.

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- Charges are applied per project or based on the specific service content.

3. **Technical Solution Licensing**:

   - License DTORI's core algorithms and evaluation models to drone manufacturers, flight control system developers, or low-altitude economy management platforms.
   - Integrate these solutions into their products or services.
   - Revenue is collected via one-time licensing fees or usage-based billing.

4. **Government Procurement and Collaborative Projects**:

   - Partner with government departments to provide DTORI data services that support regulatory and emergency response efforts.
   - Obtain income through government procurement contracts or project grants.

5. **Industry Training and Certification**:

   - Develop drone safety operation training courses and certification systems based on DTORI.
   - Provide training services to drone operators and related practitioners.
   - Collect revenue through training fees and certification fees.

6. **Advertising and Sponsorship**:

   - Provide advertising spaces or sponsorship opportunities on DTORI's public information platforms or App.
   - Target relevant enterprises such as drone equipment manufacturers, insurance companies, and meteorological service providers.

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（c）Cost Structure and Pricing Strategy

The cost structure of the DTORI project primarily includes the following aspects:

- **Research and Development (R&D) Costs:** This includes algorithm development and iteration, data model construction and validation, research into supporting anti-interference technologies, and software platform development and maintenance. These costs account for a large proportion of the initial project phase, requiring continuous investment to maintain technical leadership.

- **Data Procurement and Processing Costs:** Fees are required to acquire high-quality, real-time meteorological, astronomical, satellite, and signal interference data. Additionally, hardware and software investments are necessary for data cleaning, storage, processing, and analysis.

- **Operations and Maintenance Costs:** This includes daily operational expenses such as server leasing and maintenance, network bandwidth, data security, customer service, marketing, and team payroll.

- **Collaboration and Promotion Costs:** Expenses arising from establishing cooperative relationships with industry associations, government departments, and potential customers, as well as participating in industry conferences, exhibitions, and brand promotion activities.

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- **Intellectual Property (IP) and Standardization Costs:** Costs related to applying for patents, trademarks, and other IP protections, as well as participating in domestic and international standardization organizations to promote DTORI as an industry standard.

VII、Conclusion

By constructing a globally recognized safety assessment standard, the **Drone Take-off Reliability Index (DTORI)** will unlock the "critical pathways" for large-scale low-altitude applications. This initiative empowers a trillion-dollar market and drives Hong Kong's leap from a regional hub to a **global rule-setter and asset pricing center** for the low-altitude economy.

The successful implementation of DTORI will provide robust technical support and standard assurance for the development of the low-altitude economy. It will facilitate collaborative development and innovative applications across the industrial chain, provide more convenient and efficient services to society, and enhance Hong Kong's competitiveness and influence in the global arena.

We sincerely invite partners from all sectors to join hands in exploring this "new airspace" of infinite possibilities, intelligently defining global standards, and jointly creating a bright future for the low-altitude economy.

Convener of the Drone Take-off Reliability Index Committee:
Samuel Lam Hon Yuen
Founding Dean, Hong Kong Academy of CAS Technology and Management
CEO, X Social Group Ltd
Chairman, Low-Altitude Economy Policy Committee, Hong Kong Federation of Small and Medium Enterprises
Convener, Innovation and New Economy Industry, The Chinese Manufacturers' Association of Hong Kong
Officer, Innovation, Data and Communications Committee, Hong Kong General Chamber of Commerce
Vice Chairman, International Low-Altitude Economy Association
Lecturer, Hong Kong Baptist University

01 Oct, 2026

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Attachment 1: Core Team and Alliance Resources

Functional Committee	Member Representative	Responsibility
Executive Committee	**林漢**源 Samuel（X Social Group） 龐博文 Ronald (HKISA)	Strategic coordination, cross-departmental coordination, and resource integration
Technical Expert Committee	Sam Lam | Dr. Edwin（China Unicom）	UTM
	楊鎮宇 Justin（Damoda HK ）	Swarm Technology
	黃錦恒博士 Henry (HKT）	5GA network Technology
	文國樑 Ryan | 徐亦達 Richard (HKBU)	ESG and business application
	Tony Chan (Esri)	GIS
Industry Alliance Committee	香港科學園 HKSTP	Sandbox scenario validation and implementation
	黃曦寧 Irene (中國太平洋保險香港)	Insurance
Meteorological Academic Advisory Committee	溫志湧教授 Chih Yung（PolyU）	Meteorological data fusion and tech-innovation incubation
	文偉松教授 Weisong（PolyU）	
Policy Advisory Committee	Greater Bay Area Low-Altitude Economy Alliance	Geater Bay Area policy alignment
Technical Guidance Advisory Unit	Hong Kong Productivity Council (HKPC)	Project low-altitude economy standard supervision and guidance

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低空經濟「監管沙盒𝛑」

將會推展的其他項目清單
（首批）

經發展低空經濟工作組（「工作組」）審核後，首批九個其他試點項目將納入「監管沙盒𝛑」推展。項目的推行以申請者接受批准條件為前提，包括但不限於：航線、測試參數及時間表，且可能與提交申請時所述的有所不同。

工作組轄下的項目促進小組會與申請者聯絡，並協調各技術部門以推進「監管沙盒𝛑」項目。項目將會根據其可行性與準備情況分批推行。項目促進小組將以安全為首要考量，就試點項目採取循序漸進的方式，涵蓋飛行路徑、航線規劃、飛行距離等方面，以確保低空飛行活動的安全。

	申請機構 *（以英文名稱字母排序）*	**詳情**
1.	中華電力有限公司	合作機構為 POI Corporation Limited
2.	大漠大智控（香港）有限公司	合作機構為 (i) 中國太平保險（香港）有限公司； (ii) Esri 中國(香港)有限公司； (iii) X Social Group Limited；及 (iv) 大灣區低空經濟聯盟

Attachment 2: Media Reference Content for Hong Kong Low-Altitude Economy Drone Take-off Reliability Index (DTORI)

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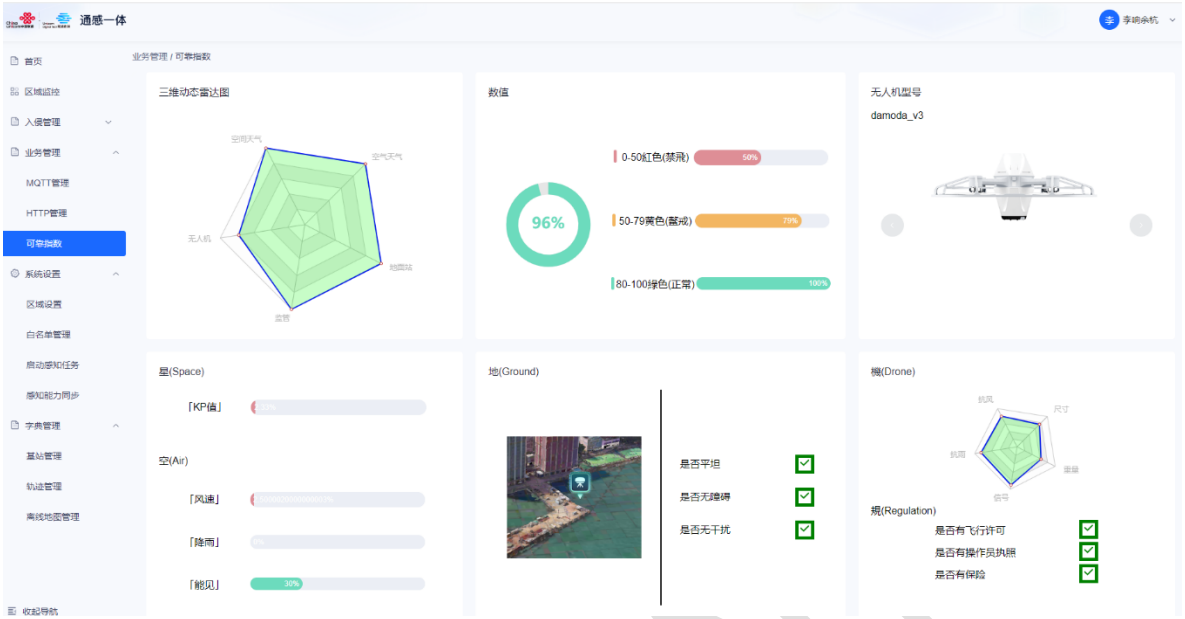
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Attachment 3: Drone Take-off Reliability Index (DTORI) System



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