

SHARED AIRSPACE IN DUBAI & QATAR



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Vision 2050 and Smart Dubai:

To position the UAE as a global technology leader,
driving the adoption of eVTOL in the country.



- **Goal: Establish a national UTM system** to safely integrate drones into Dubai's airspace
- Support Dubai's vision of becoming a global leader in smart aviation and UAM
- Enable **safe, efficient, and scalable drone operations** for governmental, commercial, and recreational use
- Ensure compliance with ICAO, GCAA, and regional regulatory frameworks
- Promote innovation and competitiveness by creating a future-proof system that supports upcoming Advanced Air Mobility
- Deliver a reference model for the Middle East, positioning **Dubai as a benchmark** for advanced UTM deployment



- **Contracting Authority : Dubai Aviation Engineering Projects (DAEP)**
- Scope: National UTM system procurement & implementation
- ACR International – subcontractor to Dar Al-Handasah (DAR)
- **End-to-end project support** – from drafting Technical Specifications, through Tender process support, to vendor selection and contract award, as well as full implementation support including system testing, training, and operational rollout
- **Kick-off** in Jan 2023, weekly workshops with DAEP, DAR, DANS
- **Evaluation Phase closed** in May 2025, successful bidder announced, UTM Implementation Phase started
- Multi-stakeholder coordination – with six key Dubai entities
- Focus: safety, operational efficiency, regulatory compliance





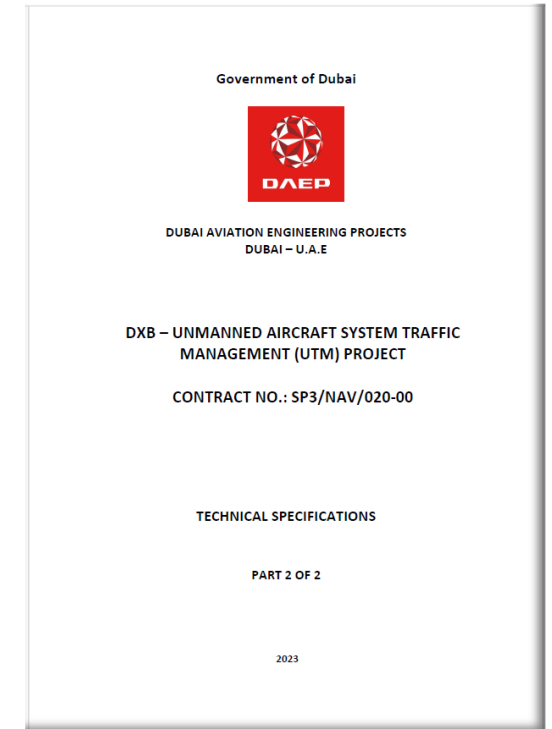
acr Dubai UTM Project – Stakeholder Engagement

- **DAEP:** project owner ensuring funding, infrastructure readiness, and long-term oversight
- **DANS:** end user of the system, hosting the platform and responsible for integrating drones into ATM
- **GCAA:** national authority aligning Dubai's UTM with ICAO and federal standards
- **DCAA:** regulatory body providing approvals, safety rules, and operational compliance
- **Dubai Police:** security, law enforcement, drone misuse
- **Dubai Municipality** – providing 3D city model data to support safe drone operations
- **Roads and Transport Authority:** integrating drones into urban mobility concepts and future transport networks
- **National Center of Meteorology:** providing weather data for safe drone operations



Dubai UTM Project – Tender Process Support

- Drafting UTM Technical Specifications with DAR
- **Finalizing UTM Technical Specifications** with
 - DAEP - Dubai Aviation Engineering Projects
 - DANS - Dubai Air Navigation Services
- Ensuring compliance with international UTM standards
- Responding to vendors' Technical Post Tender Clarification requests after Tender release
- **Inviting leading global UTM providers**, who conducted live system demos with real drone flights in Dubai in Jan 2025.
 - NATS – Altitude Angel
 - ANRA Technologies
 - Thales – AstraUTM



- Post-demo evaluation and detailed compliance matrix review
- Assessment of compliance levels
 - Compliant
 - Partially Compliant
 - Non-Compliant
- Consolidated scoring sessions with DAEP, DAR and DANS to validate evaluations
- Documentation of gaps, risks, and readiness for each vendor
- **Final recommendation to DAEP for provider selection, based on:**
 - Tender documentation
 - Live demonstration results
 - Compliance matrices





Qatar National Vision 2030:
To create an integrated, sustainable,
and technologically advanced
transportation ecosystem.

acr Qatar UTM Project – Overview

- **Client: Qatar Civil Aviation Authority (QCAA)**
- Scope: National UTM system concept & tender support
- ACR International – prime consultancy role
- End-to-end project support:
 - Concept of Operations
 - Technical Specifications
 - UTM System Procurement
 - Vendor Selection and Contract Award
 - UTM System Implementation
 - Tests and Trainings
 - Full operational capability
- Compliance with ICAO & regional UTM frameworks



acr Qatar UTM Project – Project Status

- Building stakeholder awareness and alignment: briefings on project status & UTM concepts
- Open days and Workshops by UTM vendors
 - Thales
 - NATS – Altitude Angel
 - Leonardo
 - ANRA Technologies
- Tender issued – awaiting vendor proposals
- ACR to support evaluation & selection process
- Continued advisory role during Implementation phase



- Strong **stakeholder alignment** is essential throughout the entire project.
- **Clear and detailed specifications** ensure fairness in vendor selection.
- Live demonstrations to validate real system performance beyond documents.
- **Early and proactive regulator involvement** secures compliance and smooth acceptance.
- **Structured evaluation** matrices enable transparent, objective decisions.
- Careful transition planning ensures continuity into the implementation phase.

Learning from global UTM experiences would allow Sweden to tailor proven solutions for its own implementation.





THANK YOU FOR YOUR ATTENTION!



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