OVAIQ
Intelligent Systems & Sovereign Engineering AI

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GCC & India Corridors: Dubai (UAE) • Abu Dhabi (UAE) • Riyadh (KSA) • Chennai

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UAE & GCC GOVTECH EXECUTIVE APPLICATION DOSSIER

Date: 2026-11-06

1. Executive Summary: From Manual Engineering Submittals & Tender BOQs to 90-Second Sovereign AI

Built on live commercial deployments across **UAE ISO/IEC 17025 Geotechnical & Material Testing Laboratories** (**https://ovaiq.global**), OVAIQ Intelligent Systems eliminates the 4-to-14 day manual engineering compliance and public-procurement bottleneck across GCC municipalities, conformity councils, and ministerial tender boards.

Pillar A: 90-Second Engineering BOQ, Submittal & Municipal Pre-Compliance Agent
Ingests 50–300 page unstructured bilingual (AR/EN) PDFs, scanned soil investigation reports, borehole logs, and tender BOQs. Extracts every test parameter and line item, cross-checks against **ASTM / BS EN / ISO 17025 / Dubai Building Code (DBC) / Saudi Building Code (SBC)**, and outputs a cited compliance ledger + priced matrix in **<90 seconds**.

Pillar B: 24/7 LIMS Contractor Certificate & AutoGov Conformity Concierge
Event-driven agent bridging laboratory Information Management Systems (LIMS), contractors, and municipal permitting portals. Autonomously validates completed concrete/soil test certificates against **EIAC / DAC / QCC / SASO** accreditation scopes and pre-clears structural/foundation sign-offs 24/7 with zero human delay.

2. DIRECT ALIGNMENT WITH TARGET UAE & GCC SOVEREIGN AI & GOVTECH PROGRAMS

Program & Portal	Public-Sector Bottleneck Addressed	OVAIQ 90-Second Agentic Deployment & Strategic Fit
1. DUBAI TRACK • **DCAI Agentic AI Accelerator** dubaifuture.ae/dcai-accelerators/ • **Dubai AI Seal** (dub.ai/en/ai-seal/) • **Dubai Municipality "Build in Dubai" Phase 2** (buildindubai.gov.ae)	While *Build in Dubai* automates architectural/MEP villa drawing checks, sub-surface geotechnical reports, pile load certificates, concrete submittals, and infrastructure BOQs require 4–14 days of manual engineering verification against DBC and EIAC ISO 17025 scopes.	**Pre-Submission Compliance Pilot** Deploys as the **Build in Dubai Phase 2 Lab & Consultant Pre-Submission Agent**. Validates borehole logs, material test certificates, and tender BOQs against the **Dubai Building Code (DBC)** & **EIAC schedules** in 90 seconds with page/clause citations—cutting municipal permit rejection loops by >80%.
2. ABU DHABI TRACK • **Hub71+ AI Ecosystem** hub71.com/program/hub71-plus-ai • **Abu Dhabi DGE TAMM AutoGov** • **QCC & DMT BINAA** (bimai.dmt.gov.ae)	DMT (via *BINAA / BIM-AI*) and the Abu Dhabi Quality & Conformity Council (**QCC**) process thousands of capital infrastructure and material conformity filings manually across fragmented LIMS and consultant portals, delaying site foundation pours.	**Event-Driven AutoGov Agent** Operates as an **Event-Driven "AutoGov for Engineering Conformity"** layer. Upon LIMS test completion, OVAIQ autonomously verifies QCC conformity criteria, synthesizes the tamper-evident evidence dossier, and updates **DMT BINAA / TAMM AutoGov** milestone readiness in 90 seconds.
3. SAUDI ARABIA TRACK • **STV + DGA + McKinsey + SITE Cloud ($133M / SAR 500M RFS)** rfs.stv.vc/gov-ai/ • **Moat:** 1,445 Verified KSA Engineering & Lab Contacts	Saudi ministries (MOMAH, Royal Commissions, Giga-projects) spend $4.3B/yr on consulting. While **Etimad** digitizes tender submission rails, 200-page Arabic/English BOQ scoping, SBC/SASO compliance auditing, and multi-vendor comparison remain manual.	**Etimad-Native Procurement OS** & **Arabic Records Pipeline** Ingests scanned, stamped Arabic/English RFPs and lab records; generates a cited **Saudi Building Code (SBC 303/304) & SASO Compliance Audit** plus an automated **Multi-Vendor BOQ Normalization Matrix** in 90 seconds. Backed by Toufeeq's **1,445 verified KSA engineering contacts**.

3. SOVEREIGN GOVERNANCE, CLOUD RESIDENCY & TYPESAFE JEV 'NOUL' SIGN-OFF ARCHITECTURE

Engineered from Day 1 for zero-trust public-sector procurement, sovereign data residency, and deterministic engineering accountability:

1. UAE Federal PDPL & Dubai DESC / ISR Compliance:
Full compliance with **UAE Federal Decree-Law No. 45 of 2021 (PDPL)** and **Dubai Electronic Security Center (DESC) Information Security Regulation (ISR)**. Zero external model training on government or laboratory payloads; encrypted at rest (AES-256) and in transit (TLS 1.3).

2. Saudi PDPL & NCA (ECC / CCC) Controls:
Architected to satisfy **SDAIA Saudi PDPL** and **National Cybersecurity Authority (NCA)** Essential Cybersecurity Controls (ECC) & Cloud Cybersecurity Controls (CCC), with full RBAC, MFA, and immutable JSONL audit trails.

3. Sovereign Cloud & On-Prem Residency:
Containerized stateless microservices deployable natively inside **Core42 (G42 Sovereign Cloud)**, **AWS UAE (`me-central-1`)**, and **Saudi SITE Cloud / HUMAIN** sovereign KSA regions, or fully air-gapped municipal VPCs.

4. TypeSafe Jev 'Noul' Senior Engineer Sign-Off Gate:
Enforces a deterministic **TypeSafe Jev `Noul` Verification & Human-in-the-Loop (HITL) Sign-Off Gate**. Every extracted BOQ line item, unit rate, and ASTM/BS/DBC/SBC compliance flag is locked to its exact source PDF bounding-box/page citation and requires cryptographic Senior Engineer approval before release.

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8-CAPABILITY GOVTECH ARCHITECTURE MATRIX & 30-DAY EXECUTION PLAN

4. MAPPING TO THE 8 CORE GCC GOVTECH CAPABILITIES

GovTech Capability	Dubai (DCAI / AI Seal / DM Build in Dubai)	Abu Dhabi (Hub71+ AI / DGE AutoGov / QCC / DMT)	Saudi Arabia (STV / DGA / McKinsey / SITE Cloud)
1. Agentic AI	Multi-agent pipeline (*Parser → DBC/EIAC Validator → Pricer → Citation Auditor*) running pre-submission checks.	Event-driven **AutoGov Agent** triggered on LIMS sample sign-off to pre-verify QCC/DMT conformity packets.	Autonomous **Etimad Technical Evaluation Agent** decomposing RFPs, auditing bids & drafting award memos.
2. Policy & Document Analysis	Layout-aware parsing of 50–300 page soil reports, borehole logs, and **Dubai Building Code (DBC)** clauses.	Automated cross-checking of lab test certificates against **QCC conformity schemes** & **DMT BINAA** rules.	High-precision OCR + table extraction for stamped Arabic/English **Etimad RFPs**, **SBC 303/304** & **SASO** specs.
3. Evidence Synthesis	Deterministic **Page/Clause Citation Ledger** linking every BOQ item and soil parameter to raw PDF coordinates.	Synthesizes 7/28-day concrete & triaxial soil test series into a single tamper-evident QCC conformity dossier.	Compiles multi-vendor technical deviations, lab certificates & SBC proofs into an audit-ready Etimad brief.
4. Decision Intelligence	Flags missing mandatory tests, out-of-spec bearing ratios & unaccredited methods *before* municipal filing.	Predicts structural milestone readiness and alerts DMT/consultant teams of material non-conformance risks.	Scores vendor bids on technical compliance, unit-rate variance vs. KSA benchmarks & delivery risk.
5. Workflow Automation	End-to-end **90-second flow**: Raw PDF/Excel BOQ upload → Clause mapping → DBC/JSON/Excel export.	Zero-touch **24/7 LIMS-to-Contractor-to-DMT** workflow: Sample reception → Accredited report → AutoGov update.	Automates pre- and post-Etimad lifecycle: RFP scoping → BOQ structuring → Bid normalization → SLA tracking.
6. Institutional Knowledge	Codifies 20+ years of senior geotechnical & materials engineers' ASTM/BS/ISO rulebooks into a queryable graph.	Captures Abu Dhabi soil profiles, QCC lab accreditation registries & historical DMT approval precedents.	Acts as a **Ministry Engineering Knowledge Engine** preserving decades of Arabic contracts & unit rates.
7. Bilingual AR/EN Native	Native parsing of bilingual Arabic/English municipal cover sheets, DM circulars & international ASTM/BS tables.	Seamless Arabic/English interfaces for TAMM AutoGov contractor notifications & DMT regulatory citations.	**Arabic-First (MSA + KSA engineering dialect)** pipeline for scanned government records & Etimad tables.
8. Sovereign Cloud & TypeSafe Gate	UAE PDPL & DESC ISR compliant on **AWS `me-central-1`** + **TypeSafe Jev `Noul` Sign-Off Gate**.	UAE PDPL & DGE compliant on **Core42 Sovereign Cloud** + **TypeSafe Jev `Noul` Sign-Off Gate**.	Saudi PDPL & NCA CCC compliant on **SITE Cloud / HUMAIN** + **TypeSafe Jev `Noul` Sign-Off Gate**.

5. CONCRETE 30-DAY EXECUTION & PILOT ROLLOUT SCHEDULE (NOV – DEC 2026)

Sprint Window	Key GovTech Deliverables & Portal Submissions	Verification Milestone
Week 1 (Nov 6 – Nov 12)	Submit **Dubai AI Seal** verification (dub.ai/en/ai-seal/); package 90-Second Dual-Use Geotechnical BOQ & LIMS Concierge video + Sovereign Security & TypeSafe Jev `Noul` Gate architecture brief.	Dubai AI Seal Application ID + Live Sandbox Telemetry Pack
Week 2 (Nov 13 – Nov 19)	Submit **STV + DGA + McKinsey + SITE Cloud RFS** (rfs.stv.vc/gov-ai/) & **DCAI Agentic AI for Government Services Accelerator** (dubaifuture.ae/dcai-accelerators/) with DM Build in Dubai Phase 2 pilot scope.	STV RFS & DCAI Accelerator Confirmation Receipts
Week 3 (Nov 20 – Nov 26)	Submit **Hub71+ AI** cohort dossier (hub71.com/program/hub71-plus-ai) paired with the **DGE TAMM AutoGov / QCC / DMT BINAA** event-driven lab conformity pilot proposal.	Hub71+ AI Submission + QCC/DMT AutoGov Technical Brief
Week 4 (Nov 27 – Dec 5)	Inject anonymized production telemetry from live UAE ISO/IEC 17025 Geotechnical & Material Testing Lab 7-Day Sprints; conduct 5-minute live sandbox demos with DCAI, Hub71+ AI, and STV investment principals.	Pilot MOU / Sandbox Evaluation Sign-Off

Live Production Benchmark & Dual-Use Guarantee: OVAIQ is actively deployed with UAE Geotechnical & Material Testing Laboratories under our fixed-scope **7-Day AI Automation Sprint** (delivering a working sandbox calibrated to each lab's accredited ASTM/BS/ISO 17025 rate card by Day 5). Government partners receive immediate access to a production-hardened engine rather than slideware.

Primary Contact & Live Sandbox Access:
Web: **https://ovaiq.global** | Email: **venkat@ovaiq.global** | Direct / WhatsApp: **+91-9677012480**
Execution Guardrail: All GovTech submissions are synchronized outside the 09:00–11:30 GST private-sector UAE laboratory service window.

For OVAIQ INTELLIGENT SYSTEMS PRIVATE LIMITED

Venkatesan O V

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