

NEW YORK EXPERIENCE, QATAR OPPORTUNITY

AI Solutions

Qualifications & Experience



ENTECH



Qatar’s economic, environmental, and social development goals demand world-class engineering, construction, and technology services. EnTech, an American engineering and consulting firm headquartered in New York City, is bringing its record of integrity, partnership, and innovation to Qatar. By providing targeted advisory services, best-in-class digital capabilities, and extensive knowledge sharing opportunities, EnTech will partner with Qatari clients to support key development goals in line with Qatar National Vision 2030.

EnTech has over 25 years of experience, spanning more than 900 projects across New York and the northeastern United States, including airport redevelopment megaprojects, bridge and roadway replacements, subway and rail network expansions, and upgrades to water distribution infrastructure. With a team of over 300 professionals, we are a trusted partner to numerous public and private clients, and our work has won awards from major engineering organizations.

EnTech looks forward to partnering with Qatari clients to share strategies for innovation, sustainability, and knowledge development. Through outstanding construction management services, digital tools, and talent advancement opportunities, EnTech can support cornerstone Qatari goals for Human Development, Economic Development, and Environmental Development.

SELECT CLIENTS AND CONTRACTS

New York City Dept. of Design and Construction: Resident Engineering Services
Roadways, water infrastructure, public buildings

Metropolitan Transportation Authority: Environmental Consulting Services
Subway, commuter rail, buses, transportation facilities, bridges

Port Authority of New York and New Jersey: Engineering Program Management
Airports, seaports, bridges, tunnels

New York City Department of Parks and Recreation: CM Services
Parks, coastal/shorefront infrastructure, public spaces, recreational facilities

Washington, DC, Water and Sewer Authority: Geo-Instrumentation Services
Water infrastructure

Massachusetts Port Authority: BIM/VDC/Digital Strategy
Airports, seaports

New York City Economic Development Corporation: CM/PM Services
Green infrastructure, sustainability

MARKETS WE SERVE

-  **Aviation**
-  **Bridges**
-  **Buildings & Facilities**
-  **Coastal & Waterfront**
-  **Education**
-  **Healthcare**
-  **Parks & Recreation**
-  **Rail & Transit**
-  **Resiliency**
-  **Roadway & Highway**
-  **Urban Infrastructure**
-  **Water Resources**

SELECT AWARDS

-  **Engineering News-Record:** 2025 Top 50 Construction Management Firms
-  **American Society of Highway Engineers:** Project of the Year Award, Henry Hudson Bridge Plaza & Approach Reconstruction
-  **American Council of Engineering Companies:** Engineering Excellence Platinum Award, Water Main Upgrades in Northeastern Queens
-  **American Council of Engineering Companies:** Engineering Excellence Gold Award, Water Main Upgrades in Western Queens

THE NEED: QATAR’S CONSTRUCTION BOOM

Qatar’s market is projected to grow from \$69 billion in 2025 to \$106 billion by 2030. Extensive development in markets including airports, seaports, transit, roadways, water infrastructure, resiliency, and sustainability are anticipated. Projects in these and other areas will advance sustainable progress and contribute to the resilient, diversified economy that is central to the Economic Development pillar of Qatar National Vision 2030.

This rapid expansion creates unprecedented opportunities, but it also magnifies the risks of inefficiency, cost overruns, and delays.

THE CHALLENGES: CONSTRUCTION INEFFICIENCIES AND DIGITAL TRANSFORMATION DIFFICULTIES

98% of megaprojects globally face cost overruns, and 77% are delayed, frequently ending significantly over budget and behind schedule. These failures are rarely due to lack of capital or ambition but rather to insufficient project controls, underestimation during planning, unmanaged risks, and communication breakdowns.

An estimated 70% of digital transformation efforts fail, not because of technical shortcomings but because of poor adoption. This highlights the critical need for practical, usable technology solutions, supported by robust training, planning, and continuing support.

THE AI OPPORTUNITY

Advanced AI technologies—from generative AI to advanced analytics—can deliver solutions tailored to the engineering and construction sector. Cloud and mobile collaboration tools strengthen communication between owners, contractors, and consultants.

Together, these innovations can address inefficiencies and position Qatar’s construction industry for sustained, predictable growth.

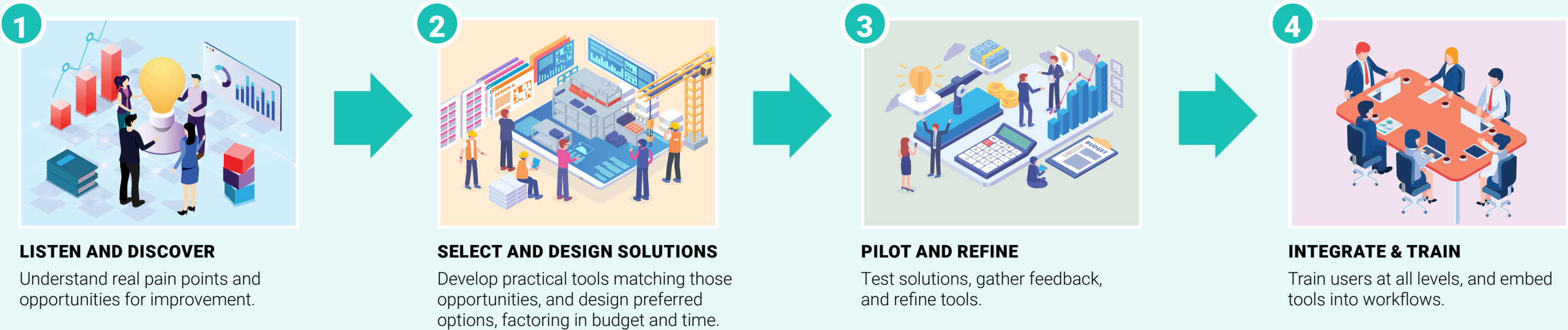
ENTECH’S AI PHILOSOPHY: CUSTOM SOLUTIONS

We believe that AI should be a practical product, not a luxury product. We don’t use AI to chase universal problems. We use it to tackle challenges specific to your project, your market, and your organization. EnTech’s AI Solutions team develops useful, user-friendly solutions grounded in years of project management and construction management experience.

Our AI solutions are:

- **Purpose-Built:** AI initiatives are never one-size-fits-all. We start with a specific problem or challenge, then design a solution for that need.
- **Accessible:** Our AI tools are built to deliver value to users at all skill levels, not only AI experts. They can be smoothly embedded into daily workflows.
- **Practical:** EnTech’s AI solutions are focused on efficiency, compliance, and delivering value within budget.

OUR METHODOLOGY
DISCOVER • DESIGN • REFINE • INTEGRATE



ENTECH AI SERVICES

At EnTech, we don't chase universal problems — we solve your specific challenges. Grounded in 25 years of construction and project management experience, we take on the most complex projects and solve them with a disciplined, results-driven approach.

An expensive AI tool that no one uses is like a Maserati that never leaves the garage. EnTech will help you build targeted tools that solve immediate problems, and that you will use everyday.

AI Strategy & Advisory

- Market readiness assessments for construction and engineering firms
- Executive alignment on AI vision, risks, and ROI
- Regulatory and compliance-aware roadmaps for AI adoption

Process-Centered AI Solutions

- Project planning, controls, and automated reporting
- Resource and workforce optimization
- Knowledge search and accessibility
- Generative AI assistants and chatbots
- Quality and safety monitoring

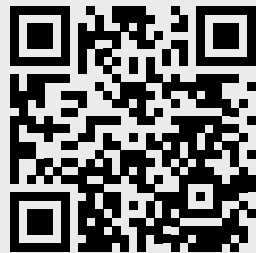
Data Infrastructure & Advanced Analytics

- Data discovery, cleaning, and validation
- Predictive analytics for cost, schedule, and risk management
- Real-time dashboards for executives & PMs
- Data Lake and cloud architecture design
- Automated data quality monitoring and governance frameworks
- Unified project controls data model

Implementation & Change Management

- AI integration into existing platforms
- Training sessions for leadership and end-users
- Structured pilots with measurable KPIs
- Project Management Information System (PMIS) development and solutions
- Improvement cycles, help desk resources, and refinement based on user feedback





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