TATWEER
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New Products

Portable Speed Radar

With a focus on road safety, Tatweer Portable Speed Radar stands as a cutting-edge speed enforcement tool. The new radar can monitor speed across 8 lanes, while accurately categorizing vehicles, and is adaptable allowing custom detection speeds up to 250 km/h for various vehicle types per lane. Additionally, the new radar incorporates multiple functionalities such as tailgating detection and minimum speed enforcement, along with real-time data synchronization with law enforcement servers. This radar's remarkable uninterrupted 12-hour service life ensures operational continuity. Its lightweight design simplifies site mounting and configuration, further enhanced by automatic calibration, guaranteeing continuous accuracy.

Smart Inspection Vehicle

Tatweer has introduced an innovative vision-based system to automate the identification and categorization of common road network defects such as potholes, damaged curbs, barriers, traffic signs, light poles, road debris, faded marking, and sidewalk graffiti, to overcome the conventional inspection that involves manual data collection by personnel using tools to collect photos and reports leading to time-consuming double-checks due to human errors.
The innovative system is powered by a specialized Lidar sensor and machine vision cameras powered by AI algorithms running on the edge mounted on the advanced smart inspection vehicle, enabling defect identification without human intervention, at high production rates, and facilitating data transmission to the backend system for further analysis. The primary goal of this solution is to reduce inspection costs while achieving several key objectives:

- Enhancing data accuracy.
- Lowering inspection-related risks.
- Streamlining decision-making and maintenance planning.
- Providing actionable insights through Machine Learning Data Analytics Algorithms.
- Reducing expenses and the need for additional manpower.

The proposed Smart Inspection Vehicle boasts several features, including:

- No operating setup efforts, turn ON and drive.
- Real-time AI inspection at the edge to save server syncing.
- Swift and simultaneous inspection of entire areas.
- Support for close-range scanning of asphalt and road assets.
- Easy installation and calibration on various vehicle types.

Tatweer's comprehensive solution enhances the efficiency and effectiveness of inspection processes, offering numerous advantages for operational activities.

New Awarded Projects

Ministry of Energy & Infrastructure (MOEI)

• The Study, Design, and Construction Supervision of Connecting Federal Road E1919 with Rahawi Road

Tatweer will design and supervise a new proposed road that will link between Rahawi area, which is situated along the newly proposed DIBBA-DHADNA road, and the Federal Road E1919 at Hanaj Roundabout. The length is expected to be around 20 km with a cross section of two carriageways and a posted speed of 80 kph. This project aims to enhance the local road infrastructure, thereby improving traffic flow and accessibility throughout the emirate.

Department of Municipalities and Transport (DMT)

• The Design of Stormwater Infrastructure Services for Farms in Al Bahia Area to Serve Plot No. (FRM36b - FRM418)

Tatweer proposes a design for the external stormwater network that consists of a gravity-based system and manholes, which connect with the pre-existing stormwater network overseen by the Abu Dhabi Municipality. A hydraulic analysis will be conducted to ensure the adequacy of the gravity pipes.

x14 Digital Media

• Design and Implementation of IT Infrastructure, ERP, Cybersecurity, Email, Control Room, and Support

Tatweer aims to present a comprehensive technological solution that merges diverse services, including the incorporation of ERP for streamlining business workflows, the integration of top-tier cybersecurity products, the establishment of a robust network infrastructure, and more. Through these enhancements, X14 will improve the daily operations with a high level of information security services.

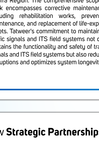
Emirates Arabian Horse Society (EAHS)

• Development of Web Portal, Mobile Application, and IT Technical Services (Phase 1)

Tatweer is set to launch a centralized platform for the Emirates Arabian Horse Society (EAHS), revolutionizing their operations. This innovation and services related to Arabian Horses are accessed. This integrated system will include a web portal and a mobile application, serving as a comprehensive source of vital information pertaining to Arabian Horses. It will cater to horse owners, breeders, and enthusiasts, enabling them to engage digitally and access a wide range of services. Exciting new features will be introduced to enhance the user experience.

Mobile Application will have the following features:
1. Appointment and Booking
2. Live Auction / Bidding
3. Farm and Doctor
4. Seat Reservations
5. Internal Users / External Users Registrations

Web Portal will have the following features:
1. Horse Registration
2. EAHS End User/ Internal User Registration
3. Appointment and Booking
4. Live Auction
5. Farm & Doctor Features And more



Smart Safe Systems

• Implementation and Customization of a Fleet Management System

Tatweer implemented an integrated vehicle tracking, fleet management, and monitoring system for Smart Safe Systems in Uzbekistan, serving as a unified platform for real-time vehicle tracking and generating reports for operational insights. The system ensures compliance, integrates flexibly, and allows future module expansion. Tatweer's fleet management system enhances regulatory control and visibility, providing comprehensive capabilities for analysis and monitoring.

Security Agency in UAE

• Supporting Services for the Implementation of Innovative Projects in Incubator Program

Tatweer will provide technical specialists to support project owners and innovators, guiding them through the stages required to transform their ideas into tangible prototypes. The support includes analyzing project requirements, providing the necessary equipment for project implementation, developing ideas and deliverables, including prototype development, and offering training and knowledge transfer. This incubator program is designed to provide resources to help projects succeed, and some of the key benefits of the program include:

- Mentorship and Expert Guidance
- Networking Opportunities
- Resources and Infrastructure
- Validation and Feedback
- Reduced Administrative Burden
- Exposure and Visibility
- Real-World Testing
- Access to Corporate Partners
- Market Validation
- Community and Peer Learning

Integrated Transport Centre (ITC)

• Maintenance of Traffic Signals and ITS Field Systems in the Abu Dhabi and Al Dhafra Region

Tatweer is set to provide its expertise in the maintenance and rehabilitation of traffic systems covering the entire Abu Dhabi and Al Dhafra Region. The comprehensive scope of work encompasses corrective maintenance, including rehabilitation works, preventive maintenance, and replacement of life-expired assets. Tatweer's commitment to maintaining traffic signals and ITS field systems not only sustains the functionality and safety of traffic signals and ITS field systems but also reduces disruptions and optimizes system longevity.

New Strategic Partnerships

Tatweer and Huawei Collaborate to Advance Public and Safety Services in the UAE

Tatweer and Huawei are leaders in the global technology industry have formed a collaborative partnership with a shared mission: to enhance communication and provide comprehensive business development support within the public and safety sectors. As part of this partnership, Tatweer will take on the role of system integrator, leveraging the expertise to incorporate Huawei's innovative products and solutions alongside Tatweer's own offerings, presenting a tailored solution to potential customers across the United Arab Emirates. Simultaneously, Huawei will serve as the primary ICT device provider, working in close cooperation with Tatweer to jointly identify potential clients in the UAE, and offer them cutting-edge, reliable solutions. This collaborative effort underscores a commitment to delivering exceptional value and addressing the needs of the public and safety sectors in the UAE.

Tatweer Partners with Quadrante in Engineering and Architecture Services

Introducing a new collaboration with Quadrante, a multidisciplinary consulting and design group specializing in Engineering, Architecture, Environment, and Sustainability, based in Portugal. Quadrante brings expertise in developing integrated and sustainable research in the design of buildings and infrastructures. Both parties share the aim of enhancing the sustainability performance of the offered services and creating long-lasting infrastructure for a better world.

Tatweer Joins Forces with Talent Engineering

Tatweer has formalized a consultancy agreement with Talent Engineering, a consultancy firm based in Egypt since 1982 with a long successful track record in creating success stories for clients in different parts of the world. This agreement aims to empower the capabilities and explore opportunities in the African region.

Cooperation Agreement Between Tatweer and Lonrix Limited: A Leading Software Development Firm

Tatweer and Lonrix Limited are set to provide a wide-ranging suite of management and technical services, covering road asset management systems (RAMS), the RMS mobile app, RAMS integration with other systems, deployment, training, maintenance, support, and data analysis for asset maintenance strategy and management. Lonrix will bring 50 years of wide perspective experience in software development and asset management systems, having worked on extensive projects globally. The collaboration will focus on the Middle East and Africa region, with specific emphasis on countries such as the UAE, Saudi Arabia, Oman, Kuwait, Egypt, Rwanda, Morocco, and Ethiopia.

Tatweer Teams Up with Walysh for Project Management (WPM)

Tatweer and Walysh have entered into a teaming agreement to jointly pursue tenders, leveraging the combined expertise and resources of both organizations to deliver impactful results.