



Public Notice of Sole Source Procurement

Date of Notice: September 2, 2025

Sole Source Announcement issued By: City of Doral, Florida

Response Deadline: September 16, 2025 at 2:00pm

Contact: Roman Martinez, Procurement Director

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Pursuant to Sec. 2-323. - Exemptions from competitive bidding of the City of Doral Municipal Code, the City of Doral City hereby announces its intent to award a sole source procurement contract to: XYGO

The City of Doral is seeking to continue its advanced 3D Geospatial Monitoring and Digital Twin Service to support municipal infrastructure. This service has already been successfully piloted and integrated into the City's existing ESRI ArcGIS environment, ensuring proven technical compatibility and continuity of operations.

The solution uniquely combines field data collection with LiDAR and 360° imaging, automated analysis through AI-trained models, and seamless integration across ESRI, Orbit GT, and Quick Terrain platforms. It is used to detect cracks in sidewalks, identify streetlight failures, update traffic sign inventories, and monitor surface anomalies across the City. This end-to-end capability minimizes manual work and provides ready-to-use outputs for Public Works.

Given the need for proven expertise, certified ESRI and Orbit qualifications, and demonstrated operational success in Doral's production environment, the City's requirement is highly specialized. **Any vendor asserting equivalency must show clear evidence of these capabilities.**

Purpose of this Publication

This notice is published in accordance with Florida Statutes §287.057(5)(c) to determine whether any vendor other than the current provider can deliver a fully equivalent solution meeting all of the integrated capabilities, certifications, and preconditions specified below.

The purpose of this posting is solely for market research and sole-source validation. If no other vendor demonstrates equivalency, the City may proceed with a sole-source award. This is not a solicitation or request for proposals.

Service Required (Scope)

The City of Doral seeks to continue the implementation, operation, and support of a specialized 3D Geospatial Monitoring and Digital Twin Service for municipal infrastructure.

The service must operate and use platforms integrated with the city's ESRI ArcGIS Enterprise environment and will provide an integrated operational workflow across ESRI platforms, Orbit (Orbit GT) and Quick Terrain (or fully equivalent technologies certified as compatible with ESRI ArcGIS Enterprise).

The service explicitly includes the complete field data collection process, utilizing LiDAR sensors, 360° imaging systems, and related survey equipment. All detections and updates must be performed using Artificial Intelligence (AI) and pattern-recognition models specifically trained for these tasks, producing actionable outputs directly consumable by City Public Works.

Functional Requirements

- Sidewalk Crack Identification – Automated detection, measurement, and classification of cracks and surface distresses on sidewalks and pedestrian assets.
- Streetlight Fault Detection – Automated identification of streetlight outages and luminaire failures from periodic data collections.

- Traffic Sign Inventory Update – Continuous update and reconciliation of the traffic signs inventory, including additions, removals, condition changes, and attribute corrections.

- Anomaly Detection – Automated identification of surface changes and infrastructure risks through multi-temporal geospatial analysis.

Data & Integration Requirements

The service must ingest, read, and register in an integrated manner the following modalities, ensuring bi-directional consistency across ESRI ArcGIS, Orbit GT, and Quick Terrain (or certified equivalents) without requiring third-party schema changes or custom middleware:

- LiDAR point clouds
- 360° imagery
- Alphanumeric attributes (asset IDs, condition, location, inspection metadata)

The provider shall be fully responsible for the field collection of these data modalities as part of the integrated service delivery.

Automation & Performance

The provider shall guarantee a high degree of automation (using AI models specifically trained for these tasks) in the identification and classification of assets and anomalies (sidewalk cracks, streetlight failures, signage changes), minimizing manual intervention and enabling repeatable citywide runs. Deliverables must include machine-generated confidence scores, audit trails, and update packages ready for posting into the City's GIS datasets.

Operational Preconditions

The solution must have been previously piloted and validated in the City of Doral's production environment (or demonstrate full operational equivalency), ensuring technical compatibility, operational reliability, and successful handoff to City workflows.

Vendor Qualifications

- At least 5 years of experience delivering AI-based geospatial monitoring and digital twin services of similar scope and complexity.

- Documented success cases with comparable municipal/public-works clients in the U.S. and/or internationally.
- Status as an authorized ESRI Partner and holder of current ESRI technology certifications or proof of equivalent ESRI-certified compatibility.
- Demonstrated Orbit GT (Orbit 3D Mapping) certifications or operational expertise (or proof of certified equivalent).
- Demonstrate that have (own) the equipment and sensors to collect data in the field and that have consolidated and proven processes to carry out post-processes and quality controls.

Response Instructions (Market Test)

Vendors asserting equivalency must submit a written response containing sufficient detail to demonstrate that their solution meets or exceeds every capability, integration requirement, and precondition above, including proof of prior pilot operation in the City of Doral production environment (or certified equivalent validation).

Responses should include:

- Points of contact for referenced clients.
- Copies of relevant certifications.
- A high-level technical architecture diagram.

Send responses by the deadline to the Contact listed above with the subject line:

“City of Doral – 3D Geospatial Monitoring & Digital Twin (Equivalency Response)”

Important Notes

- This posting is not a Request for Proposals (RFP) or an invitation to bid, and no contract will be awarded directly from responses to this notice.
- The City reserves the right to accept or reject any information received and to proceed with a sole-source procurement if no equivalent capability is demonstrated.
- Responses must be submitted no later than the stated deadline.