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Planning

Satellite-Based Leakage Detection and AOI (Area of Interest) Management

UNITED UTILITIES WATER LIMITED

UK3: Planned procurement notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-073171

Procurement identifier (OCID): ocds-h6vhtk-05df92

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Scope

Description

Satellite Scanning Requirements

- Scan areas of the UU region for leakage detection on:
 - Drinking water assets
 - Raw water
 - Sewage
- Scanning frequency: daily, weekly, or full region biannually
- Imagery delivery within 4 weeks
- Pre- and post-freeze imagery capability
- SLA failure rebate for delayed scans

- Dynamic pricing based on scan age
- Clear availability of satellite scan schedules to support planning and reactive needs

AOI Identification & Management

- AOIs identified within 100m of UU assets
- AOIs classified by leak status:
 - Quiet
 - Suspected
 - Active leak
 - Repaired
 - Awaiting repair
 - Unverifiable
- AOI journey fully integrated from scan to resolution
- AOI audit trail (e.g., AOIs with no leak detected)
- Oldest leaks alert system
- Ability to interpret AOIs within defined boundaries and estimate leakage return
- Ability to label individual leaks with root cause failure types

Mobile App Features

- AOI investigation and reporting
- Status updates sync with dashboard
- AOI search by reference (field/admin)
- Capture investigation method (e.g., FIDO)
- Offline reporting capability

- Send outcomes to manager for review
- Performance tracking

Dashboard Requirements

- Desktop and mobile compatibility
- Data layers:
 - Active and past AOIs
 - Asset types (hydrants, mains, private services)
- Regional and county-level performance views
- Leak investigation performance metrics:
 - Leaks found
 - AOIs investigated
 - Daily/weekly outcomes
- Leak insights:
 - Leaks per km
 - Time to resolve
- Full suite of reporting tools
- Integration with WaterNet / INS / Campaign Management

Integration & Governance

- Ingest UU asset records
- API interface for data exchange
- Link AOIs to INS jobs
- GIS integration (ArcGIS)

- Satellite governance structure needed
- Licence usage tracking
- Training on data interpretation (unlimited licences)

Benefits

- ODI benefit calculation using industry-standard methods
- Streamlined leak detection and prioritisation

Risks & Gaps

- GIS maps sent to Satellite vendor missing key details (material, size, DMZ)
- Trunk main investigations lack coordination
- Dashboard and mobile app status sync issues
- Manual daily reporting
- Inconsistent dashboard usage across regions
- No standard process for linking AOIs to INS
- ODI tracking not embedded

Opportunities

- Extract AOIs into ArcGIS
- Develop API for GIS integration
- Split dashboard views by county
- Generate reports from AOIs
- Link AOIs to campaigns
- Introduce AOI audit trail

Commercial tool

Establishes a framework

Contract dates (estimated)

- 1 April 2026 to 31 March 2031
- 5 years

Main procurement category

Services

CPV classifications

- 65130000 - Operation of water supplies

Framework

Maximum number of suppliers

1

Submission

Publication date of tender notice (estimated)

1 January 2026

Enquiry deadline

8 January 2026, 11:59pm

Tender submission deadline

1 February 2026, 11:59pm

Languages that may be used for submission

English

Award decision date (estimated)

1 March 2026

Procedure

Procedure type

Open procedure

Special regime

Utilities

Documents

Associated tender documents

[Satellite Leak Detection PPN Questionnaire.docx](#)

Questionnaire for interested suppliers to complete & return to United Utilities to confirm interest and ability to supply all aspects detailed in the Scope.

Contracting authority

UNITED UTILITIES WATER LIMITED

- Companies House: 02366678
- Public Procurement Organisation Number: PVVB-5589-BWHX

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United Kingdom

Email: Commercialapprovalsboard@uuplc.co.uk

Region: UKD61 - Warrington

Organisation type: Private utility

