**Expression of Interest**

This request for expressions of interest is issued solely for the purpose of conducting market engagement and does not constitute any commitment by the Authority to undertake any procurement exercise in the future. This exercise includes no element of supplier evaluation. No parties will be prejudiced by any response or failure to respond to this by the deadline, there is no commitment of any kind involved on either side. This request does not constitute a call for competition to procure any services and the Authority is not bound by any proposal offered.

If you are interested in this potential opportunity, then please return your expression of interest by **12:00 on 14 May 2024** via our e-tendering portal ProContract <https://www.supplyingthesouthwest.org.uk/>

NB - ensure you provide responses to the requirements listed in the table below.

**Background**

Somerset Council is in the South West of England, an elected local government authority responsible for the local government services in most of the county. The Council provides a wide range of services, including road safety, education (schools, libraries and youth services), social services, highway maintenance, waste collection & waste disposal, emergency planning, consumer protection, town and country planning.

**Somerset Council’s Traffic Data Store**

Somerset county has over four thousand miles of road, and the effective management and analysis of traffic and active travel data is crucial. The council conducts traffic counts and active travel surveys using automatic traffic counters collecting data from loops in the carriageway, as well as temporary radar counters and camera sites that manually collect data. The data from these counters and surveys can either transmit directly to the database, can be downloaded via telemetry, or manually inputted. The product will be able to handle this diverse dataset, and must store and analyse the information, while also providing an intuitive and user-friendly interface for internal teams and external members to access insight and generate reports.

**Our Requirement**

The browser-based and mobile-optimised traffic datastore should include advanced access control and user management; it should allow team members and external users to securely access relevant information. The product should support traffic data from various sources and methods, including GPRS, manual counts, and ad-hoc data. The collected data encompasses vehicle counts and classifications, vehicle speeds, vehicle turning counts, pedestrian, and cycle movements.

Key requirements of the product include:

* **Intuitive Mapping Interface**: The product should allow users to interact with traffic data through an easy-to-use and insightful mapping interface.
* **Comprehensive Validation and Editing**: The product should produce a vehicle flow report using logically generated traffic flows which identifies anomalies.
* **Reporting**: The product should produce standard reports, including speed (average, 85th percentile, and mean) and volume (averages, peaks, and interval counts).
* **Output Formats:** Reports should be available to view on-screen (HTML) and be exportable as PDF, CSV, and/or XLSX.
* **Scheduled Reports**: The product could allow the ability to schedule reports and automate emails to assigned users and groups.
* **Custom Report Creation**: The product could offer the ability to create custom reports by pivoting or querying the data.
* **Adoption Support**: To facilitate adoption, the product could offer a simulation walkthrough and/or a report builder wizard.
* **Integration and Custom Overlays**: The product should be able to offer either custom overlays or an API to flow and load data into other analysis tools such as Power BI.
* **Implementation**: A plan is required for transitioning to the new data store, outlining roles and responsibilities. The supplier must create and manage a data migration plan for existing data.

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| **Organisation name:** |
| **Requirement:** | **What you can offer** |
| **Data Sources:*** What types of data sources does your product support (e.g., GPRS, manual counts, ad-hoc data)?

**User Interface and Accessibility:*** Describe the user interface of your product. Is it intuitive and user-friendly?
* How do you ensure that team members and external users can access relevant information efficiently?

**Validation and Editing Capabilities:*** How comprehensive is your validation process for traffic data? Can it identify anomalies effectively?
* Does your product allow for easy editing and resolution of flagged issues?

**Reporting and Analytics:*** What standard reports does your product provide (e.g., classification reports, speed reports, volume reports)?
* Can users create custom reports through pivoting or querying the data?

**Security and Access Controls:*** Explain your access control mechanisms. How do you manage individual user permissions?
* What security measures are in place to protect sensitive traffic data?

**Scheduled Reports and Automation:*** Can your product schedule and automate reports? Specifically, can it send automated emails to assigned users and groups?

**Adoption Support:*** Do you offer any simulation walkthroughs, report builder and/or chat bot to help users adopt the product?
* Does the product provide usage analytics?

**Scalability and Performance:*** How well does your product handle large volumes of traffic data?

**Integration and Custom Overlays*** Can the product provide an API integration with Microsoft’s Power BI?
* Does the product support adding custom overlays? For instance, road collision data or route monitoring.

**ML & AI*** Does your product incorporate or have plans to leverage Machine Learning (ML) and Artificial Intelligence (AI) techniques? This could be via bolt-on modules/services. For instance, does it predict traffic flow, enhance safety, identify anomalies, offer an LLM, and/or utilise computer vision for vehicle detection and counting?
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| **Other questions:**Are you currently on any frameworks such as Crown Commercial Services, ESPO etc. If so, please provide the framework name and reference. |  |
| Estimate of cost |  |
| Estimate of time to deliver |  |
| Experience of working with other public sector to address the same issues |  |
| Are you able to offer a demonstration?  |  |
| Contact details to arrange a follow up conversation / demo |  |