REQUEST FOR INFORMATION (RFI)

SUBJECT: RFI for Traffic Counting Technologies and Services for Colorado Springs, Colorado

INQUIRIES: All inquiries or questions must be directed to Taryn Christoff at the Department of Public Works, Colorado Springs via email to taryn.christoff@coloradosprings.gov. Questions must be received no later than 1:00PM MST, February 29, 2024. Any addendums to this RFI will be provided to all participants on the Bidnet Website.

Deadline and Procedures for Submitting Responses:
Responses must be received by 2:00PM MST, March 14, 2024. Responses must be delivered via email to:
Taryn Christoff
Department of Public Works
Colorado Springs, Colorado
Taryn.christoff@coloradosprings.gov

I. GENERAL INVITATION

City of Colorado Springs' Department of Public Works is seeking information for the development of a Traffic Counting station that is efficient, weather-resistant, and can operate effectively in remote areas with poor to no internet connectivity. The system should preferably be solar-powered and offer robust data retrieval capabilities, ideally automated from cloud services.

II. BACKGROUND

The Pikes Peak Region is a diverse, rapidly growing area of Colorado's Front Range. It is home to five major military institutions, the United States Olympic and Paralympic Committees, and has a wide range of urban and rural communities. City of Colorado Springs is exploring options to improve the intersection management with the latest technologies that are capable of handling the region's unique challenges.

III. REQUIREMENTS

The City of Colorado Springs is interested in traffic counting solutions that meet the following criteria:

- Efficient data retrieval, preferably automated from cloud services
- Installation above pavement level
- Solar power utilization or high energy efficiency
- Effective operation in low-light conditions and at night
- Resistance to significant wind forces, with camera stabilization if applicable
- Durability in various weather conditions
- Capability to use cellular services for remote areas
- Ability to classify vehicles, pedestrians, and bicycles

IV. PROJECT LOCATION

The initial focus will be on the northern part of the city, with considerations of extending the system to cover broader areas, factoring in the limitations of internet connectivity.

V. COMMUNITY IMPACT

These devices will be used to enhance system integration across various traffic scenarios by giving a full intersection perception coverage. By creating a more complete image of the users within and around intersections, it improves resiliency by allowing transportation systems to better adapt to sudden changes as well as equity and access by protecting vulnerable road users. Improving planning, operations, and maintenance and better integrate data from third party providers, implementation of an enhanced traffic monitoring system is imperative.

VI. TECHNICAL MERIT OVERVIEW

The RFI should detail the proposed solution's technical merit, addressing safety at intersections, accommodation of changing road users, growth adjustments, system compatibility, cybersecurity, and data accuracy.

VII. RESPONSE REQUIREMENTS

Respondents should provide comprehensive information about their traffic counting solutions, including technical specifications, data management capabilities, and energy requirements. Also, respondents should outline their experience with similar projects and their approach to meeting the county's specific needs.