



REQUEST FOR INFORMATION
Emerging Technology Solutions for Pedestrian and Cyclist Safety in Intersections
DCKA-2021-I-0049
May 11, 2021

1. Purpose of the Request for Information

The Government of the District of Columbia, herein after referred to as the (District), Office of Contracting and Procurement (OCP), on behalf of the District Department of Transportation (DDOT), invites technology providers with emerging technology solutions that seek to improve pedestrian and cyclist safety in intersections to respond to this Request for Information (RFI).

This RFI is issued solely for information and planning purposes; to obtain delivery, price, and other market information. This RFI does not commit the District to contract for any work. Responses to this RFI are not considered as offers and cannot be accepted by the District to form a binding contract.

Respondents are advised that the District will not pay for any information or administrative costs incurred in response to this RFI. All costs associated with responding to this RFI will be solely at the interested vendor's expense. Not responding to this RFI does not preclude participation in any future solicitations, if any are issued. If a solicitation is released, the Request for Proposal (RFP) will provide specific details. It will be synopsised on the <https://dtap.ddot.dc.gov> website and the OCP website at www.ocp.dc.gov. It is the responsibility of the potential bidder to monitor these sites for additional information pertaining to this requirement.

2. Statement of Need

This RFI is issued for the purpose of identifying Respondents with emerging technology solutions that seek to improve pedestrian and cyclist safety in intersections. For the purpose of this RFI, emerging technology solutions include 1) technology that enhances DDOT's situational awareness of intersection activity to identify and inform safety improvements, and 2) technology that provides auditory or visual alerts for pedestrians, cyclists, and/or drivers approaching crosswalks based on real-time activity in the intersection.

It is DDOT's intent to use this information to help identify interested parties for future pilots or demonstrations and to guide the planning efforts for implementation of a "sandbox" for one or more pilot or demonstration projects on an intersection or corridor within the District. This "sandbox" project is expected to commence in summer 2021.

3. Background

Intersection crossing is an increasing challenge for pedestrians, especially distracted pedestrians, seniors, and individuals with disabilities (e.g., low vision or mobility issues). Nationally, 5,376 pedestrians died in crashes in 2015, a 9.4% increase from the previous year. The District's Vision Zero Initiative seeks to reach zero fatalities and serious injuries to travelers of DC's transportation system, through more effective use of data, education, enforcement, and engineering. Part of both [Vision Zero](#) and DDOT's long-range transportation plan, moveDC, is a commitment to increase pedestrian and cyclist safety at intersections.

4. Qualifications

The District welcomes responses to this RFI from technology providers with emerging solutions for pedestrian and cyclist safety in intersections, including but not limited to:

- Physical infrastructure
- Software
- Applications
- Data
- Services

5. Responses

Responses are due electronically in one PDF file by 2:00pm on May 31, 2021 to email address: **DDOT.SandboxCyclistSafety@dc.gov** and **kareem.worthey@dc.gov**. Responses should not exceed 10 single-sided pages. All questions are due by 3:00pm May 28, 2021 to email address: **DDOT.SandboxCyclistSafety@dc.gov**. Responses to questions received regarding this RFI will be posted by Amendment via the OCP website: www.ocp.dc.gov and <https://dtap.ddot.dc.gov>. For additional information regarding this RFI, contact Carol Hessler, Contracting Officer via **carol.hessler@dc.gov**.

Respondents will not be invited to participate in in-person informational meetings or presentations as a result of this RFI.

Respondents are encouraged to visit <https://dtap.ddot.dc.gov> website and the OCP website at www.ocp.dc.gov for any forthcoming RFI information.

Respondents are required to submit information on all of the following sections:

General information

- Company name:
- Company address:
- Company contact and title:
- Contact information (phone & email):

Overview of technology solution

- A brief description, including applicable data or specification sheets
- Type of technology (e.g., physical infrastructure, software, data, services, materials)
- Technology maturity
 - Based on Technology Readiness Level (TRL) scale ratings 1 through 9 (<https://highways.dot.gov/research/exploratory-advanced-research/research/technology-readiness-assessment-work-ear-program>)
 - Justification for TRL scale rating

Value to DDOT

- Justification of how the proposed technology solution improves safety for pedestrians and cyclists in intersections and advances the District's Vision Zero Initiative
- Impact of the proposed technology solution on the transportation goals and objectives outlined in DDOT's long-range transportation plan, moveDC (<http://www.wemovedc.org>)
 - Justification for how the proposed technology solution meets each relevant goal and objective
- Use cases
 - What types of data, if any, the technology solution provides and how this information might be useful to DDOT
 - How, if at all, the technology solution could improve DDOT's ability to provide transportation services to the District.
 - Any ongoing installations or pilots
 - Examples of previous deployments and reference information (limit to 3)

Support needed from DDOT for implementation

- A detailed explanation of need, which may include:
 - Monetary support
 - Physical asset access and requirements (e.g., roadway/right of way, power, backhaul communications, streetlight or traffic poles, traffic signal cabinets, preferred intersection or corridor type)
 - Data requirements (e.g., data storage, maintenance, integration with existing business processes/data streams)
 - Public outreach support
 - Staff support
 - Other

6. Contracting Officer

The Contracting Officer for this RFI is:

Carol Hessler

Deputy Chief Contracting Officer
Office of Contracting and Procurement
District Department of Transportation
250 M Street, SE, 7th Floor
Washington, DC 20003
carol.hessler@dc.gov

7. Confidentiality

Any document submitted in response to this RFI that contains confidential information must be marked as containing confidential information. Each page upon which confidential information appears must be marked as containing confidential information. The confidential information must be clearly identifiable to the reader wherever it appears. All other information will not be treated as confidential. All information marked confidential in RFI responses is only for the District's use in planning for future acquisitions.

8. Disclaimer

THIS RFI IS NOT A REQUEST FOR PROPOSAL (RFP) AND IS NOT TO BE CONSTRUED AS A COMMITMENT BY THE DISTRICT TO ISSUE A SOLICITATION OR ULTIMATELY AWARD A CONTRACT. RESPONSES WILL NOT BE CONSIDERED AS PROPOSALS, NOR WILL ANY AWARD BE MADE AS A RESULT OF THIS RFI. This notice does not obligate the District to award a contract or otherwise pay for the information provided in response. The District reserves the right to use information provided by respondents for any purpose deemed necessary and legally appropriate. Any organization responding to this notice should ensure that its response is complete and sufficiently detailed. Information provided will be used to assess tradeoffs and alternatives available for the potential requirement and may lead to development of solicitation.