Office of
Innovation & Technology

SmartCityPHL

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Call for Solutions: Road Repair Prioritization Tool

SmartCityPHL, within the Office of Innovation and Technology, in partnership with the Department of Streets is requesting proposals for a pilot project to demonstrate more efficient and cost-effective methods to collect and analyze data on the City's roadways. The proposed technology should demonstrate how the City can save money and staff time in identifying and prioritizing roadway repairs. SmartCityPHL is also interested in assessing secondary applications of the solution that do not directly relate to roadway repairs but that provide data and analysis that support other objectives of municipal government.

Submissions are due Thursday, May 28 at noon and should be emailed to Pitch.and.Pilot@phila.gov. In order to contract for this opportunity, a selected provider must agree to the terms and conditions for a Miscellaneous Purchase Order, which are available [here.](#)

Deliverables:

The City seeks to pilot technology and software that do the following -

- *Data collection*. The solution should collect data on the following characteristics of/adjacent to the City's roadways:
    - Asphalt road quality
    - Pavement marking conditions
    - Lane counts
    - Catch basin locations
    - Manhole locations and state
- *Data analysis.* The solution should include easy-to-use software that assists the City in:
    - Identifying types of asphalt repairs required
    - Estimating budget for repair
    - Prioritization of road repairs
- *Optional*: The City is open to exploring additional data capture opportunities adjacent to the roadway, including:
    - City's Litter Index
    - COVID related programs

Proposal Outline:

I. Description of solution, including equipment and software:
   a. Types of readings taken, including inputs and frequency
   b. Equipment size, description of process to attach to vehicle, and any limitations on type of vehicle that can carry equipment
   c. Types of analysis available
II. Case studies: Please provide two case studies of the technology's use in similar applications, including results that lead to cost or labor savings.
III. Budget: Provide a budget that describes the cost and the extent of the proposed pilot, including, for example, the number of equipment units, timeframe and number of software licenses, and support provided from the vendor. Project budget must be $20,000 or less.
IV. [Mandatory Campaign Contribution Disclosure Forms](#)

Proposal Evaluation:

Proposals will be evaluated based on (1) alignment with and support of SmartCityPHL priorities and goals, (2) ability of proposed solution to measure and analyze the roadway and roadway-adjacent characteristics listed above, and (3) vendor's demonstrated success in similar projects with other municipalities.