**DATA GATHERING SENSORS FOR ADAPTIVE LIGHTING CONTROL SYSTEMS**

**2020-25**

**Addendum #1**

**January 29, 2020**

**Provides responses to questions received for the Data Gathering Sensors for Adaptive Lighting Control Systems RFI.**

1. On page 2 Section 1 – Does the State currently have a number in mind as to how many bridges they are looking to monitor?

No.  IDOT only wishes to gain knowledge of the functionality of these types of sensors.  This would help in developing a specification if it is decided to deploy these on future projects.

1. On page 5 Section 2 – Could the State elaborate on what type of assets they would be interested in collecting data from?

Presently, IDOT is investigating the incorporation of Adaptable Lighting Control Systems (ALCS) with new lighting installations as pilot projects to gain familiarity with this technology.  This will allow IDOT to monitor and control these lighting assets.  IDOT already has an existing installation that incorporated an ALCS as a pilot project, which has now been purchased by IDOT.  The second paragraph on page 5 describes what the scope is.  Descriptions of the sensors that IDOT wants to investigate further are listed under ‘Objectives’ on page 2.

1. General – What company(s) software/interfaces does the State of Illinois currently use for their ALCS and Smart Corridor programs?

IDOT has two ALCSs installed.  The companies are CIMCON and Echelon.

1. Is the DOT looking for multiple vendors for the final project?

IDOT has an existing ALCS that could be used to evaluate sensing devices or another project, yet to be selected, could be used.  The main goal is edification of sensing devices available, how they function, and determination of devices that could benefit the State and IDOT.

1. Is the RFI for all districts in Illinois?

The existing ALCSs are located in District 2 and District 6.  Another pilot project, yet to be determined, in another district may be considered.

1. Will this RFI cover multiple departments at the DOT?

Yes.

1. Is this a pilot program or ratification of a full deployment?

See above.

1. Has the project been budgeted or funded?

Yes.

1. Is the DOT looking to rollout adaptive lighting and sensors during 2020 fiscal year?

Not determined at this time.

1. How many streetlights need to be managed, and is this a phased approach?

This request for information is to learn more about data gathering sensing devices that could be incorporated with ALCSs.  One example would be noise levels.

1. What roadside applications and sensors is the DOT looking to deploy? i.e. Traffic, monitoring, flood monitoring, noise, weather?

IDOT wants to learn about potential applications of sensing devices.  The examples cited are potentials but also want to be made aware of all devices available.

1. Will there be a consultant or specifies managing the project?

Yet to be determined. However, IDOT will be directly involved.

1. Has the DOT issued an RFP/RFI for LED lighting?

This is covered in the RFI.

1. Are there any special certifications or licenses needed to participate in the project?

This can be discussed in the meeting should you choose to participate.  Obviously, any design would require a Licensed Professional Engineer to be directly involved.  The purpose of this RFI is to gather information on these technologies before moving forward with deployment on a new or existing system.

1. When will an RFQ be issued to vendors?

This information is not available at this time.

1. Does the DOT currently have Adaptive Lighting Controls installed?

Yes.

1. Are three any constraints on radio frequencies?

Yet to be determined.  Evaluation of constraints may be determined from meetings with participants.

1. What are the security levels for controls is the DOT seeking?

This information is not available at this time.