Quarterly Report for StreetLight Data Non-Traditional Methods to Obtain Annual Average Daily Traffic (AADT) Evaluation and Analysis

Period – April 1, 2020 to June 30, 2020

Tasks completed this period include:

Task 1 – Project Management

- Six check in meetings with FHWA were conducted on 4/2/20, 4/16/20, 5/14/20, 5/28/20, 6/11/20, and 6/25/20.
- Agendas and notes were prepared for the six FHWA check-in meetings.
- One validation data coordination meeting with the evaluation team was held on 2/6/20.
- Presentations and agenda were prepared for the TAC Meetings 3 and 4, which were held on 4/15/20 and 5/7/20 respectively.
- Agendas and notes were prepared for the TAC meetings.

Task 2 - AADT Estimation from Passive Data Evaluation

- StreetLight completed its 2019 AADT model and presented details about its development at TAC Meeting 3.
- FHWA provided StreetLight with truck count data to use in its models.
- The team agreed that StreetLight will provide three months of ADT data for all 27k counters.
- StreetLight completed its research into how model accuracy is impacted by sample penetration and the number of months of observed data, and how soon into the year AADT can be predicted.

Task 3 - Establish a Technical Checklist and Develop Appropriate Data Quality Criteria

- Mark completed the accuracy targets report and the teams have been reviewing and providing comments.
- The team presented takeaways from the literature review, outlined accuracy targets, and proposed a target framework at TAC Meetings 3 and 4.

Task 4 – Deliver TAC Meetings

- TAC Meeting #3 was held on 4/15/20.
- TAC Meeting #4 was held on 5/7/20.

Highlights/Issues:
- TAC members were presented with initial results of StreetLight's models and the accuracy target report.

- The group finalized what StreetLight will be providing to the validation teams for testing, and agreed on using OpenStreetMap.
- The team will need to reassess whether any future TAC meetings can be held in-person.

Work Anticipated Next Quarter:
- The team will begin work on the guidance document.
- StreetLight will begin working with the truck count data that was provided.

List of 9 Updates:
- StreetLight is currently working on the ADT model for individual days as well as additional analysis of passive data characteristics on model accuracy.