

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

Period – July 1, 2020 to September 30, 2020

Tasks completed this period include:

Task 1 – Project Management

- Five check in meetings with FHWA were conducted on 7/9/20, 7/23/20, 8/13/20, 9/3/20, and 9/17/20.
- Agendas and notes were prepared for the five check-in meetings.
- Presentations, agenda, and notes were prepared for TAC Meeting 5, which was held on July 31.

Task 2 - AADT Estimation from Passive Data Evaluation

- StreetLight completed its 2019 ADT model and presented details about its development at TAC Meeting 5.
- The team finalized the format in which the testing locations will be provided to StreetLight—as OpenStreetMap segments.
- The team agreed that StreetLight will provide four months of ADT for the 27k locations, AADT for the 27k locations, and AADT for the withheld permanent counters.
- StreetLight completed its data impoverishment exercise, determining which characteristics of passive data are most important.
- The validation team provided StreetLight with the testing locations and testing is underway.

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

- Mark Hallenbeck with the University of Washington presented an update on the literature review and an outline of the technical checklist at TAC Meeting 5.
- TAC members provided comments on the accuracy targets document.
- Mark has been working on the technical checklist document with input from FHWA and will be sending to TAC members soon for an initial review.
- The team discussed what volume groups and accuracy targets would be appropriate for the final report.

Task 4 – Deliver TAC Meetings

- TAC Meeting #5 was held on 7/31/20.

Highlights/Issues:

- TAC members were presented with initial results of StreetLight's data impoverishment testing.
- StreetLight and the validation teams worked through issues with OpenStreetMap segments to eliminate any potential errors with the testing sites.

Work Anticipated Next Quarter:

- StreetLight will provide the validation teams results from the testing sites for evaluation.
- Draft reports will be made available to FHWA and the TAC for comments.

List of 9 Updates:

- StreetLight completed its trip impoverishment research and presented the most important characteristics of passive data at TAC Meeting 5.
- StreetLight has received special event data from some states and has begun testing.