Video Analytic Data Processing

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Description of the traffic study based on drone analysis and DataFromSky processing

As part of the ongoing traffic study, a structured workflow has been defined, consisting of three sequential stages, each with specific technical objectives and corresponding deliverables. Below is a detailed description of the scope of each stage.

Stage 1: Data processing with DataFromSky

Objective:
To structure and systematize the information captured through drone or video recordings, using the DataFromSky software in order to generate a robust and detailed database that will serve as input for the analytical phase of the study.

General description:
This stage focused exclusively on the computational processing of the recorded videos, utilizing DataFromSky as an automated visual analysis tool. The processing allows for the extraction of relevant variables such as trajectories, speeds, circulation patterns, and crossing times, which will be further analyzed in the next phase.

Payment structure:

- Initial payment: USD$TBD

Stage 2: Technical analysis of data and identification of traffic issues

Objective:
To interpret the results obtained through DataFromSky, identify circulation patterns, assess levels of service, detect traffic conflict risks, and produce relevant findings for the planning of improvements.

Activities included:

- Detailed review of processed data
- Analysis of vehicular and pedestrian flows, speeds, crossing times, and waiting times
- Detection of conflictive interactions, risky maneuvers, or critical operational conditions
- Classification of observed problems by severity and impact
- Recording of findings with visual evidence based on processed videos

Payment structure:

- Initial payment: USD $TBD

Stage 3: Preparation of technical report and improvement proposal plans

Objective:
To consolidate the findings of the study into a professional document that outlines the methodology, diagnosis, and a design proposal aimed at improving traffic safety and operational efficiency in the study area.

Deliverables:
Technical report including:

- Data collection and processing methodology
- Analysis of recorded data
- Results and interpretation of key findings
- Technically justified improvement proposals
- A CAD-format plan including the proposed solutions, such as road redesign, traffic management strategies, or traffic calming measures

Payment structure:

- Initial payment: USD $TBD

Disclaimer:

The recommendations and advice provided by Traffic IQ Analytics Inc. are based on practical experience and industry knowledge. However, Traffic IQ Analytics Inc. does not hold a formal degree in Civil Engineering and is not licensed as a professional engineer. As such, all recommendations should be considered as informational and not as legally binding engineering designs or professional engineering services.

It is strongly recommended that all proposed actions be reviewed and approved by a licensed professional engineer (PE) or appropriate authorities before implementation. The client assumes no liability for the outcomes or consequences resulting from the application of these recommendations.

By utilizing these recommendations, the client acknowledges and accepts that they are relying on general expertise, and they understand the limitations of the consultant's qualifications.