intuVision® User Story: Traffic Study

Vehicle Counting with intuVision VA

> "Currently I cannot imagine traffic surveys without intuVision VA, its ease of use, reliability and flexibility , as well as the great time savings with faster than real-time analysis in post processing mode."
>
> *Giovanna Vantini, Transportation Engineer , Studio Ing. de Beaumont*

Studio Ing. de Beaumont, Italy chose intuVision VA for their traffic studies services. intuVision VA achieved accuracy comparable to other counting systems such as radars, at a much lower cost

About the Customer Studio Ing. de Beaumont is a traffic engineering consultancy firm providing traffic and transportation model development services to large and small cities and municipalities in Europe, US, and the Middle East.

Equipment-at-a-Glance

Hardware: 3rd Party mobile traffic surveillance tower units, off –the-shelf server for analytics sw.

Software: intuVision VA Traffic version 8.o

Vehicle Counts and Classification

Daily and hourly reports of vehicle turn counts at intersections make operations more efficient and provide quicker turn around times for customers. Heatmaps provide an at-a-glance view of traffic patterns and choke points. intuVision VA provides the perfect solution for both periodic and long term traffic studies.
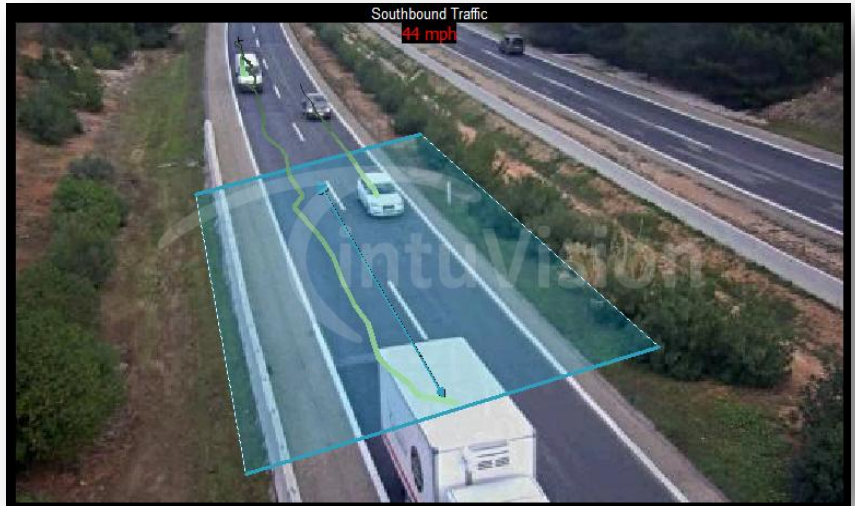
Benefits

- Automated and accurate traffic statistics
- Flexible operation and comprehensive settings for ensuring optimal results
- Savings in personnel time and costs
- Ability to perform multiple traffic tasks at once: counts, speed detection, congestion, heatmaps, etc.

intuVision User Story: Vehicle Counting

"Thanks to the great interface and to the support given by the intuVision team, it just took a little time to understand how to obtain the best results. Results were really good, even compared to other widely used counting systems, such as radars."

Giovanna Vantini ,
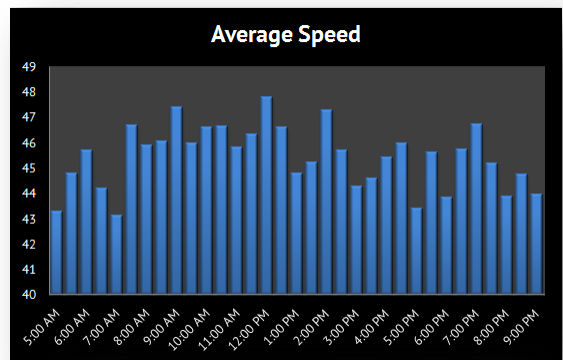*Studio ing. de Beaumont*

Use Case Details

Studio Ing. de Beaumont extensively tested and used the intuvision VA Traffic analytics in various fields of traffic studies, where a great accuracy is required in traffic data collection.

Depending on study site, the traffic video is collected using the mobile surveillance units or intersection cameras that are already in place. intuVision VA Traffic provided a good fit for all requirements, and accuracy in the 90% range for both counts and speed measurements.

Average Speed by Time of Day

Through the intuVision VA interface, it is very simple to position multiple counting zones on the same scene and train classification models. The analysis process reacts instantly allowing an immediate visual evaluation of the settings changes being made.

intuVision VA faster than real-time post processing capability adds the benefit of quickly reviewing analysis results, and making parameter optimizations as needed to reanalyze the video files. This is extremely helpful in real situations where, due to environmental conditions, the scene under analysis can change significantly and accordingly require some adjustments in the analyzing criteria.