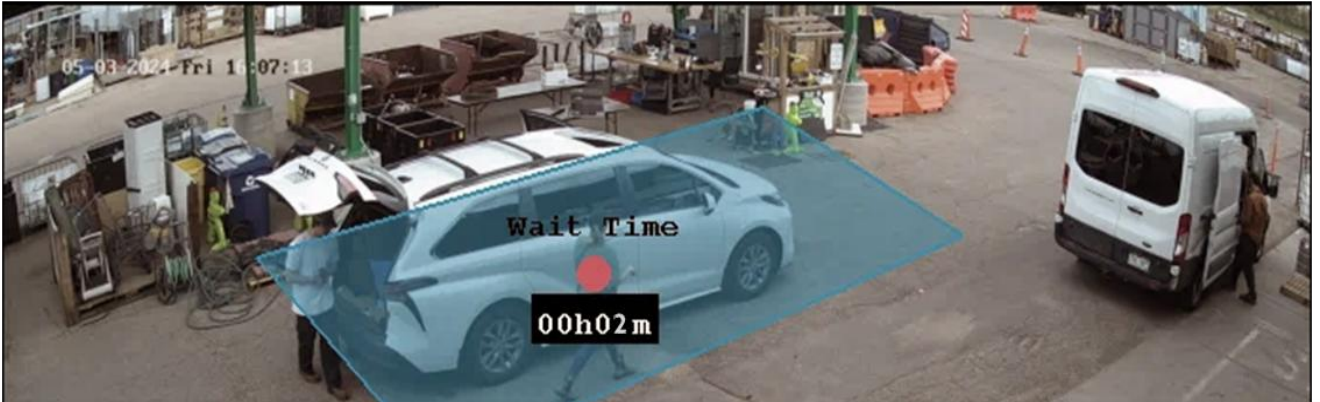# Materials Reuse Center - intuVision VA

Vehicle Counts and Dwell Duration

> "intuVision VA has been the perfect all-in-one solution for our Materials Reuse Center, intuVision's Review Application provides us detailed reports for various donation tracking metrics in an easy to access format."
>
> **Joe Pitts,** *Program Director - Materials Reuse Resource Center*

Resource Central needed a low-cost, low-footprint solution for tracking the numbers of donations, while minimizing book keeping done by staff.

intuVision VA Traffic and Parking modules used together provided them with vehicle counts, as well as data for several other metrics to improve Material Reuse Store and Donation Center efficiency.

Equipment-at-a-Glance

Software: intuVision VA v.15.0 Traffic/Parking
Hardware: Hikvision DS-2CD2743G1-IZ(S) Camera
Existing Windows PC

intuVision VA - Benefits

intuVision VA's low footprint, quick deployment time, and ability to work with existing cameras and hardware made this project a success.

In addition to counting donation vehicles with intuVision VA Traffic, intuVision Parking analytics provided further insight into the donation process.

- Generate reliable and low effort counts to track donations
- Easy reporting to show count comparisons & donation vehicle dwell duration trends
- Quick system deployment with minimal man hours using intuVision remote configuration services
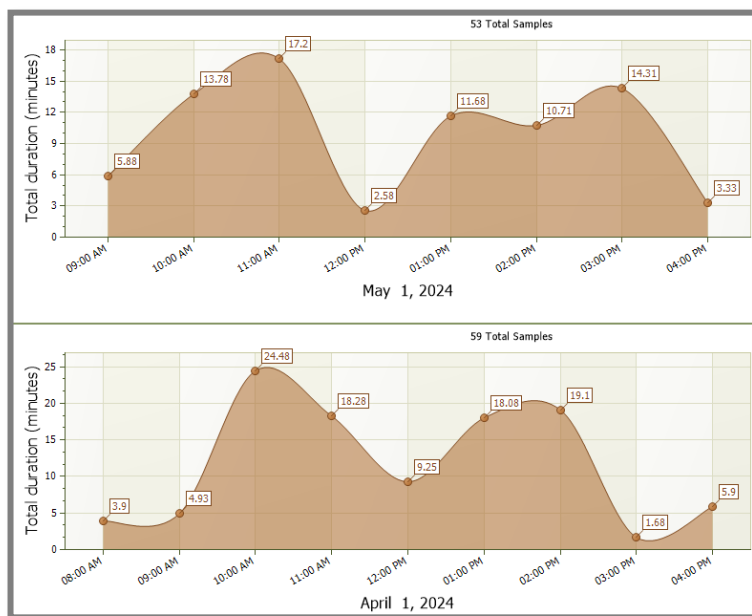
"intuVision team was very easy to work with, in every stage of the project. They guided us with camera selection and positioning; then remotely configured the analytics to not only meet but exceed our requirements; without us needing to learn how to use a new software!"

Joe Pitts
Program Director - Materials Reuse Resource Central

Use Case Details

In this project, using both intuVision VA Traffic and Parking modules together provided a solution that well exceeded the customer requirements. intuVision VA's ability to learn the scene background and adapt to fast changing lighting conditions has been crucial in this high activity outdoor environment.

intuVision VA's in-situ object classification training allowed a tailored approach for this busy scene with people, materials, vehicles, and forklifts. The machinery and forklifts are excluded from the counts, while still accurately counting vehicle types, from sedans and personal trucks, to large rental and box trucks. This level of customization for event detection generates data for several utilization metrics.

Rich reports from intuVision Review Application afford at-a-glance summary of the resource center donation process to help increase the operational efficiency.

- Donations by hour and by day – collect overall donation metrics for use in internal tracking and gather statistical data for grant proposals and marketing reports. Track busy times of the day and week for better staff allocation.

- Time Period Comparisons – ability to compare activity between two different time periods to track the change in donations levels, either monthly, seasonally or annually.

- Average Donation Duration – average time that each donation takes by day or time of day – allowing to track employee efficiency, and better schedule employees and allocate staff accordingly.

- Donation Area Utilization– percentage of the day and hour during which someone was parked in the donation bay – for tracking potential wait times and determine periods of the slow activity.