Use Case Examples

Transform your transport system with SPM+ Signal Performance Measures Plus Analytics and Integrator-AI! Our software ensures safety, easy installation, and universal network compatibility. It's scalable, responsive, and features advanced Vehicle-to-Everything (V2X) Integration. Elevate your traffic management and safety now. Contact us for a reliable and smarter transportation solution!

TRUSTED DATA

Data fusion reaches its pinnacle when Integrator-AI, in partnership with reliable detection systems, combines its resources. This collaboration exemplifies how Video, LiDAR, or Radar-based analytics solutions can establish a groundbreaking basis for public agencies to deploy Safe and Efficient System Approach tools.

ACTIONABLE INSIGHTS

Use advanced analytics combined with edge-based solutions to gain actionable insights into conflict risks among various road users. This approach identifies and reports on risk factors, severity, and characteristics in areas like intersections, crossings, and roundabouts enabling precise risk management.

DECISION SUPPORT TOOL

Leverage SMART Operations analytics and raise awareness about how current Automated Signal Performance Measures (ASPMs) used to create more efficient corridors typically do not account for pedestrians and bicyclists and in turn are not optimized for safety.

USE CASE NAME	USE CASE DESCRIPTION	READY TO DEPLOY
Stop Bar Detection/Actuation	We can cover basic stop bar detection and even specialized detection measures: NEMA operational requirements, object classification filters, specialized detection algorithms, and more. We can work with LiDAR, video, radar, and logic circuits for the detection input	🟢
Passive Pedestrian Detection	We can eliminate the need for the ped button	🟢
Advance Loops	Just like standard advance loops system, except ours can work with just about any sensor input	🟢
Movement Violations	We can detect, notify, and take action against many types of movement violations, for example someone executing a through movement from a right turn only lane.	🟢
Movement Statistics	We can keep track of any type of movement through intersections or roadway segment, for example u-turns at a stop light, left turns into a business from the main road	🟢
Red Light Running	We can detect, notify, and take action against red light runners	🟢
Pedestrian Traffic In Right Of Way	We can offer insights into what kind of pedestrian traic you may have in the right of way which could be used to justify modification of intersections and walkways	🟢
Wrong Way Driving	We can detect, notify, and take action against wrong way drivers	🟢
Railway Right Of Way Pedestrian Traffic	We can offer insights into what pedestrian traic looks like crossing or walking at railroad-grade crossings.	🟢
Vehicles Loitering In Right Of Way	We can detect, notify, and take action against vehicles loitering in the right of way	🟢
Vehicles Loitering On Railway Right Of Way	We can detect, notify, and take action against vehicles loitering in the railway right of way	🟢
Vehicles Loitering In Temporary Parking Zones	We can detect, notify, and take action against vehicles that are waiting too long in one spot	🟢
Vehicles Stuck On Train Tracks	We can detect, notify, and take action against vehicles that may be broken down on the tracks	🟢
Statistical Data Of Travelers	We can provide reporting data about travelers in roadways and intersections. For example: volume, speeds, height/length/width, weight, axles etc.	🟢
Traffic Signal Phase Skipped	Ever get stuck at a light but it seems the traic signal skipped your turn? Usually, it's due to a fault in the detection system, but we can detect that and notify the maintaining agency	🟢
Actuation For Bicycles In Vehicle Detection Zones	With our sophisticated object filtering system, we can include bicycles and other classifications in your stop bar detection	🟢
Dilemma Zone	We can detect, notify, and take action with dilemma zone scenarios	🟢
V2X Work Zone Broadcasts	You can schedule and configure work zone messages to the V2X infrastructure	🟢
Post And Warn Of Speeding Drivers	You can post slow down warnings to digital message signs alerting drivers if you catch them speeding	🟢
Dynamic Pedestrian Crosswalk Timing	We can change the amount of crosswalk time available to pedestrians based on the volume of them waiting to cross	🟢
Slow Pedestrian Crosswalk Time Extension	We can increase the time pedestrians have to cross if we detect any of them unable to move quickly enough	🟢
Construction Trucks Entering Highway Warning System	We can facilitate a warning system that can notify trucks when it's safe to begin entering the highway and drivers when a slow-moving construction truck begins to enter the highway with low visibility	🟢
Distracted Driving At Intersections	We can detect, notify, and take action when drivers aren't paying attention after the light turns green	🟢