



HIGH-SPEED WEIGH-IN-MOTION

High-Speed Weigh-In-Motion (HS-WIM) is a smart system used to measure the weight and height of moving vehicles in the roadway for enforcement and safety purposes.

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Objectives

Enforcement of regulations for illegally overloaded trucks aims to prevent premature deterioration of the road infrastructure and pavement.

Data collection for authorities planning and management purposes.

Automatic monitoring of overload and over-height violations with prosecution of violators.

Advantages

Improved productivity

The weighing process for vehicles has been optimized. Instead of having to stop, the vehicles can be weighed on-the-go within nanoseconds which eliminates any unnecessary delays and saves the drivers time that would otherwise be spent stopping and starting. With this streamlined system, a larger number of vehicles can be weighed each day.

Instant identification of overloaded vehicles

Overloading of vehicles is a serious issue as it can lead to various costs at different levels. Also, operators may receive fines for violating regulations.

Prevention of overloaded vehicles from causing damage to roads

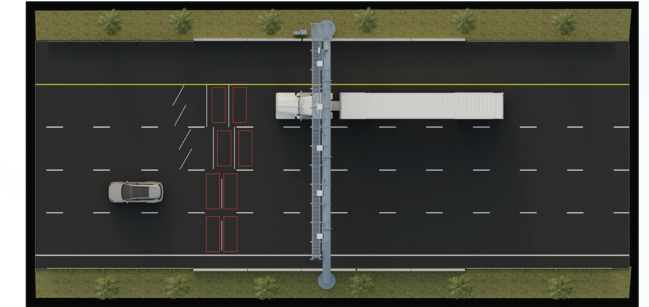
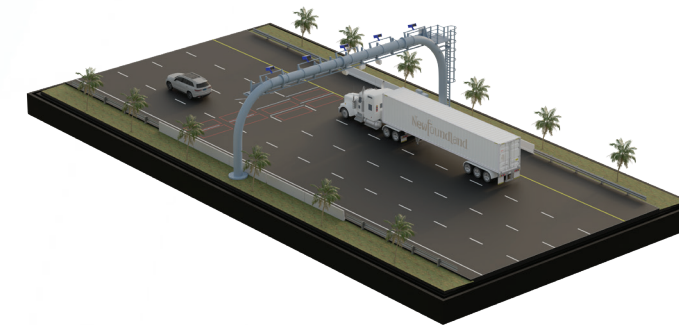
To ensure smooth road network for all users and to reduce the costs of road maintenance.

Comprehensive reporting and fully integrated solution

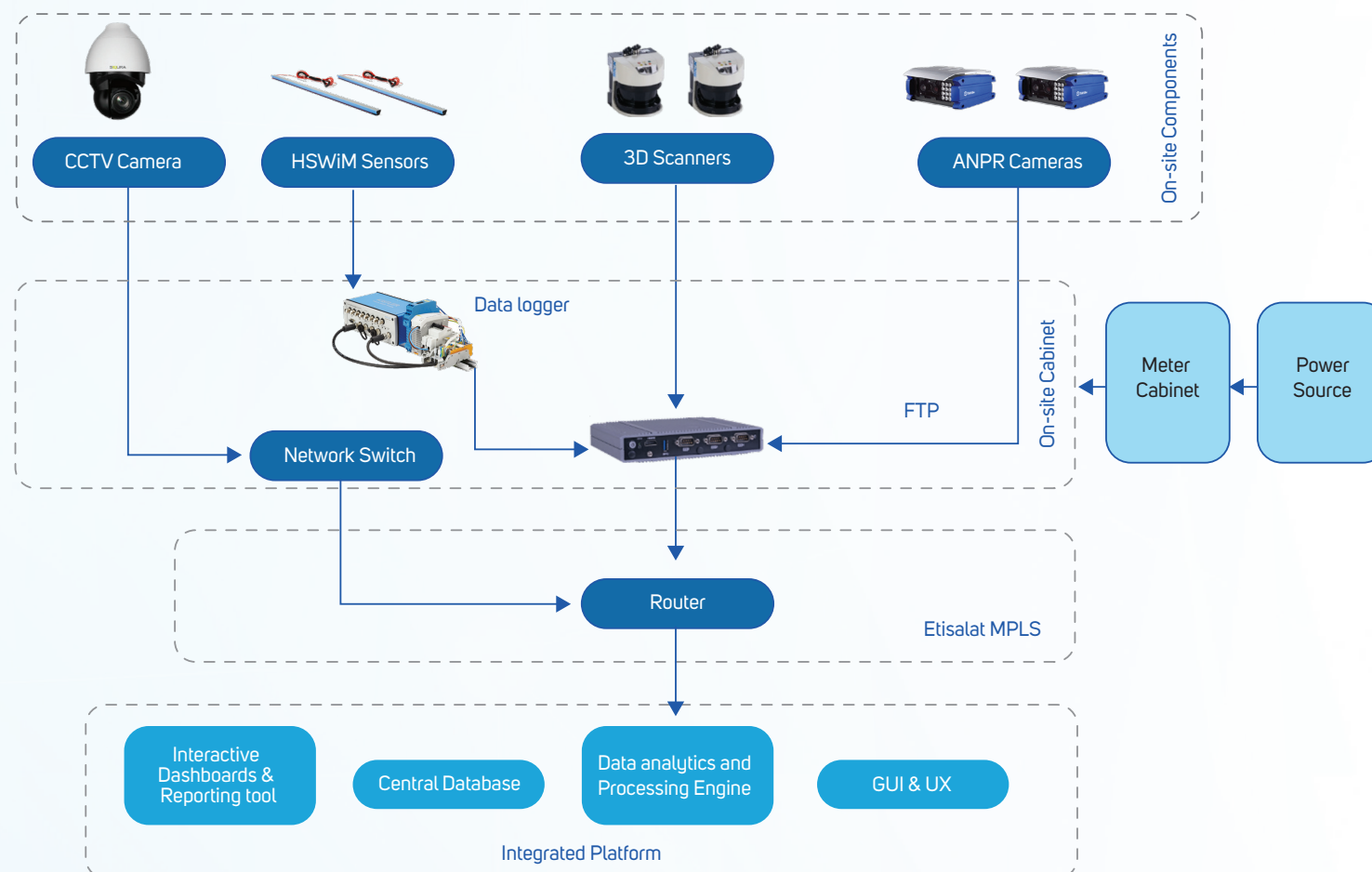
HSWIM system is fully integrated with other peripheral equipment such as ANPR Cameras, Laser Scanner, CCTV cameras. The integrated data for each vehicle will be sent to the central back office platform for data recording, enforcement, and statistics.

Components

- Quartz Sensors & Loop Detections
- Three-dimensional laser measurement system, using 3D Scanners.
- Automatic Number Plate Recognitions (ANPR) using Smart Cameras
- Site Surveillance, using CCTV Camera
- Communication System
- Back end Software for Enforcement



Architecture



Features

- High precision Weigh-in-motion
- Single lane & multi-lane, free flow
- Determination of vehicle length, volume, number of axles, double-tires and speed
- Customizable vehicle classification
- Proven credentials for use in law enforcement application
- Camera system for ANPR data capturing
- Measuring vehicle weight (individual wheels, axle and total)
- Validity of measurement
- CCTV to capture an overview of the Weigh-in-motion station live

Back-office Software

