

# AID TUNNELS & HIGHWAYS

Harness the power of the most sophisticated AI in video surveillance, designed for automatic incident detection on highways and in tunnels. The FLOW effortlessly converts camera feeds into powerful detectors, identifying smoke, fire, wrong-way drivers, stationary vehicles, road obstacles, and more with unparalleled accuracy.

pedestrian  
score: 73.9/79.3(%)

smoke  
score: 84.3/86.8(%)

fire  
score: 86.2/87.2(%)

stopped vehicle  
score: 92.6/91.9(%)

## FLOW. INSIGHTS

The next generation of **highway** and **tunnel** monitoring



### Scalable solution

Designed for installations of varying sizes, from smaller tunnels equipped with dozens of cameras to comprehensive highway monitoring systems featuring thousands of cameras.



### Seamless integration

Supports a variety of communication interfaces and data formats, including OPC UA, for integration into larger systems. Integrates with video management systems.



### Proven technology

Deployed in the largest tunnel monitoring projects in the European Union, with more than 1,000 cameras. Driven to excellence by real experiences.

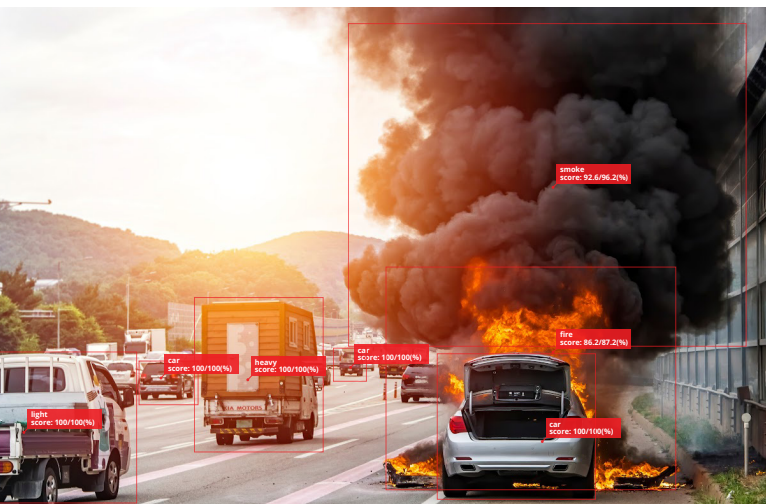


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## 01 Traffic event detection of any type

Advanced video AI technology identifies and tracks every participant in the traffic flow, including pedestrians, cyclists, and animals. The detection of events is fully customizable thanks to the FLOW framework. The system can detect stationary vehicles, wrong-way drivers, pedestrians on the road, slow-moving vehicles, traffic congestion, and many other situations including obstacles on the road.



## 03 Easy installation and use

Centralized management FLOW interface provides easy configuration and operational monitoring. Its modular design grants the flexibility to activate or deactivate specific functionalities, such as license plate recognition and object reidentification across the camera views. It is hardware agnostic solution compatible with almost any IP camera.

### Features

#### Video analytic engine

17 object categories including pedestrians and animals  
On road obstacle detection | Fire and smoke detection  
Bad visibility detection

#### Trajectory processing engine

Fully customizable | Stationary vehicle | Wrong way driver  
Slow/fast moving vehicle | Pedestrian on the road  
Congestion and many others

#### Visualization tools

Statistical data tables | Heatmaps | Historical data

#### Data interfaces

OPC UA | REST API | UDP | WEBHOOKS  
VMS-Milestone (SOAP & AI bridge)



## 02 Fire & smoke & bad visibility detection

Built-in video analytics for detection of fire, smoke, and bad visibility is designed with advanced AI capabilities to provide early warnings by recognizing signs of such situations in real-time. It is capable of detecting fire or smoke emanating from vehicles in motion, offering a proactive safety measure for tunnels and highways.



### Solution

#### FLOW platform

Enterprise

#### HW platform

Server with NVIDIA GPUs



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