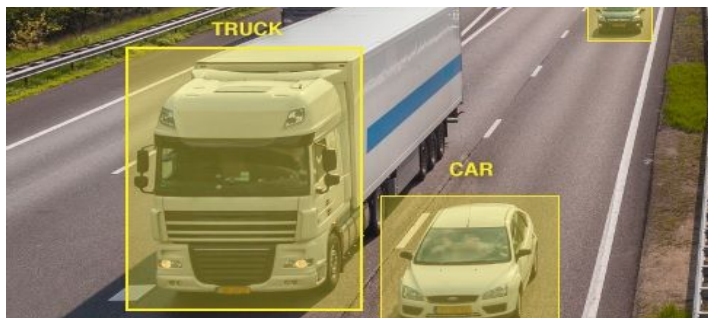


The client is a company that delivers high-quality custom solutions for a variety of use cases in smart cities and traffic management.



Challenge

The client needed to build a minimum viable product in short terms to prove the concept of a real-time monitoring system for automatic incident detection.

Solution

Motorway Detection is a real-time monitoring system based on data provided from 3 types of sensors. The system displays different types of alerts (pedestrian in/near a motorway, obstacles in the motorway, broken-down vehicles, traffic jam, etc.) and metrics (average journey time, average speed, etc.) in real time on a map. It also allows for generating reports and creating custom charts.

Tools and technologies

- .NET Core 2.1
- MVC
- HTML / CSS / JavaScript
- Google Maps
- jQuery
- Bootstrap
- Entity Framework Code First
- SignalR
- AngularJS
- HangFire
- MySQL
- StructureMap
- AutoMapper

Scope of work

- Decisions on the technical stack
- Architecture engineering
- User interface/User experience design
- Front-end/back-end development
- Requirements elaboration
- Quality assurance
- SaaS deployment
- Technical consulting

Results

- A presentable proof-of-concept delivered by a single developer in 3 months
- The system was implemented in the Dublin Port Tunnel

