SMARTWEAR
USE CASE

THE ACIC AI COUNTING SOLUTION ALLOWS SMARTWEAR TO KNOW THE EXACT FREQUENTATION OF ITS BUILDING.

The SMARTWEAR office is located in the Initialis industrial zone in Mons, Belgium. The building has two floors, three entrances and its own parking lot. There is a lot of traffic in the parking lot and in the building, as it houses 5 different companies. In total, several dozen vehicles and employees pass through it daily.
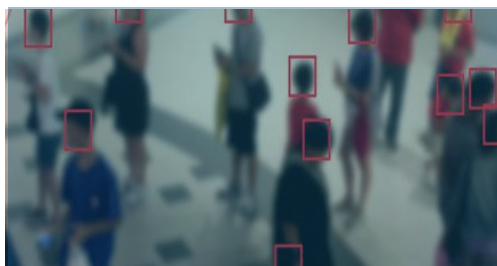

PROJECT KEY POINTS
• **Organization**: Smartwear
• **Location:** Mons (Belgium)
• **Sector**: Private
• **Application**: People Counting
• **ACIC Solution:** AI Counting , DataManagementPlatform
• **Technology partners:**
ACIC, HIKVISION, Aegentis, Milestone, It-Optics

MISSION

In order to ensure the safety of all and to know the exact traffic on the site, the managers have asked to install counting solutions at the entrances and exits of the building and on the car park on existing cameras. The counting data once collected had to be centralized at one point and displayed in Milestone XPROTECT. All the counting data at the entrances and exits of the building had to be added together while the counting data at the entrance of the parking lot had to be kept separate. The final goal of this count was to know the peak hours and the number of people present in real time in the building and on the parking. This is in order to have better management of the flow of people during the Covid-19 crisis.

SOLUTION APPLIED TO THE PROJECT

To meet the needs of SMARTWEAR, the solutions that have deployed are **AI Counting** and the **Data ManagementPlatform.**

Because the cameras were already positioned and did not have an optimal position and that there was a need to count vehicles, we used the solution **AI Counting** which uses artificial intelligence to validate the detection of a person or of a vehicle.
AI Counting has the ability to count any type of object when it crosses a line, in real time and in both directions. This solution works on an analysis server and requires a GPU to process the flows in AI. After treatment the video streams are integrated into Milestone and we have the possibility of reporting events and displaying overlays.

The **DataManagementPlatform** is our tool for centralizing and exploiting the counting data. This web interface allows counting data to be centralized and used through reports, maps, graphs, counters, etc. The different elements of the platform are fully integrated in Milestone and we have the possibility of raising alarms if a certain threshold is crossed.

RESULTS
SMARTWEAR

The three entrances and exits of the building as well as the parking access are now equipped with real-time counting solution. We count all the people and vehicles entering and leaving the site. The counting results go to the **DataManagementPlatform** and are displayed in Milestone.

AI COUNTING	DATA MANAGEMENT PLATFORM

ACIC's counting solutions are part of the Datacollection solutions portfolio. The main objective of these solutions is to collect data and generate statistics in different types of environment: stores, cities, factories, parking lots, etc.
They allow counting and enumeration of any type of object.

The DataManagementPlatform ACIC (DMP) is our interface for centralizing the counting data collected. This tool is provided as a VM (linux) and can be deployed on an analytic server. The DMP allows you to associate the data flows provided by our analytics solutions with visualization tools: histograms, graphs and curves, Heatmaps, representation of a map, etc. It is also possible to generate personalized reports. depending on the period, the zone, etc. The dashboard is made up of widgets compatible with various VMS.

AUTRES RÉFÉRENCES CLIENTS

eDF   rtbf.be   eurocopter an EADS Company   institut des radioéléments IRE   comet traitements   GCC Interconnection Authority   KNPC