



BB Visual Solutions AS
SECURITY & TRACKING

INDUSTRIES & MARKETS

Department of Business Development **BB Visual Solutions AS**

SECURITY & TRACKING

In BB Visual Solutions AS we deliver solutions in three main areas: Augmented Reality, Tracking and Navigation, and 3D scanning, planning and modeling.

If you want to learn more about these solutions separately check also "Search by Product, Use and Solution" in "Integrated Solutions" at bbvisuals.no

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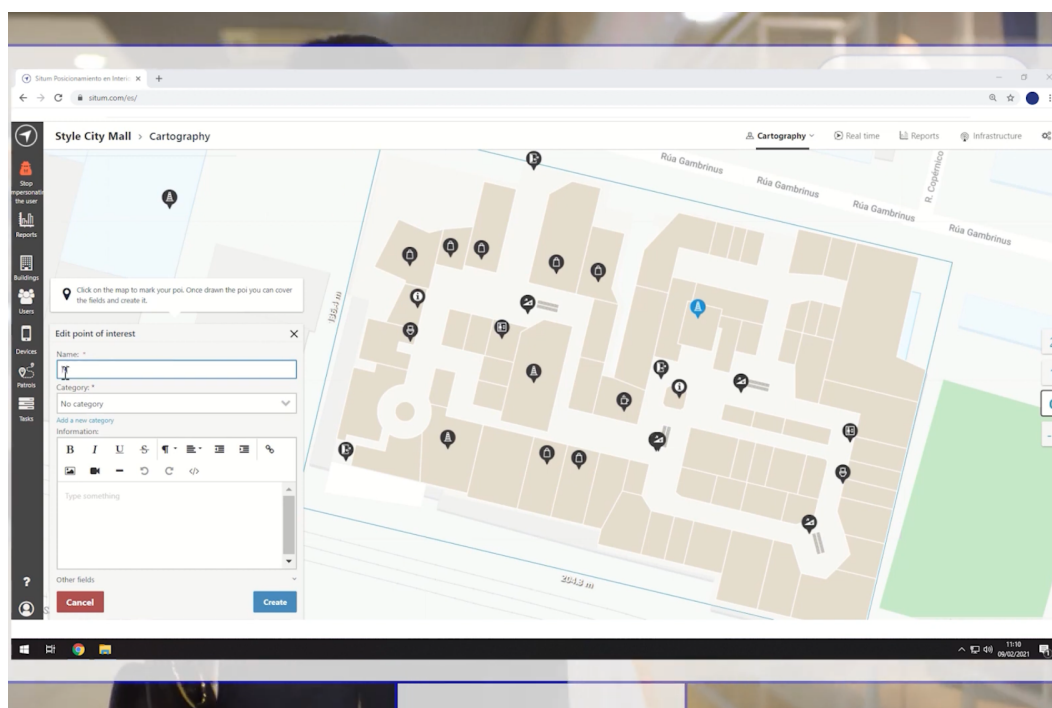
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We would like to extend an invitation to your organization to join the ranks of prestigious clients, such as Prosegur or Securitas, who already enjoy our solutions.

As security becomes increasingly more dynamic and digitalized, with a growing emphasis on automation and real-time tracking, here in BB Visual Solutions AS we want to recall the importance of IT solutions and their key role in this evolving landscape.

Our Concept of Tracking Solutions:

We offer you the ability to locate on real-time any employee working on your building. Using our simple and economical tracking solutions and extremely simple and small-size infrastructure, managing routines and employees working in such a dynamic and complex workspace is almost automatic.



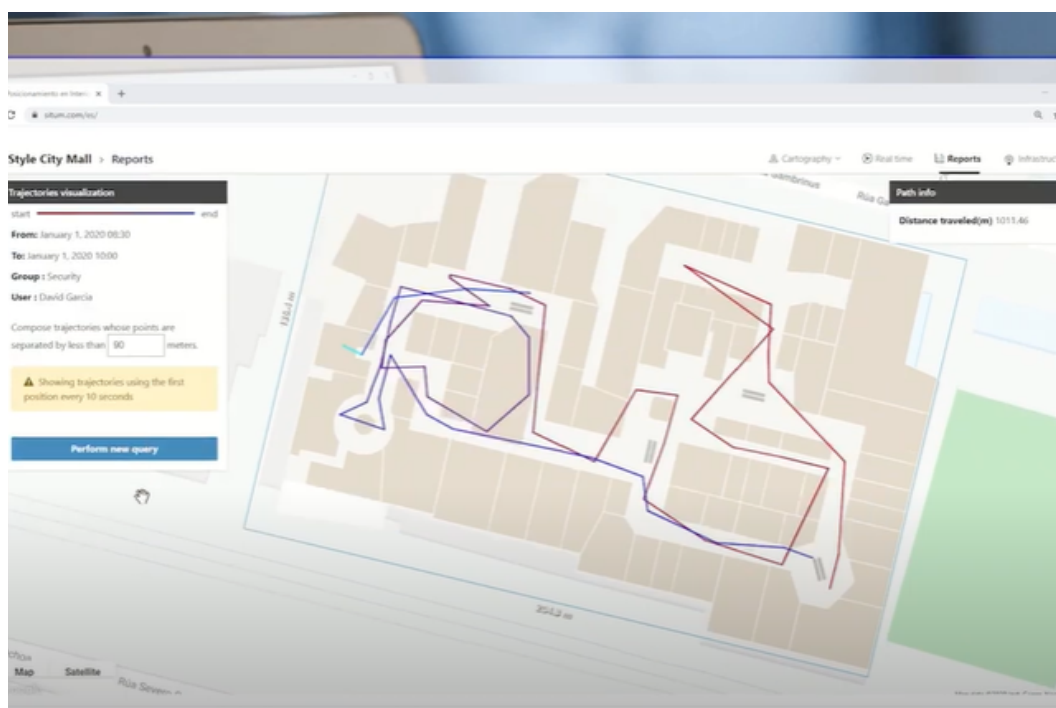
Actual view of the Platform

We use Wifi networks inside of a building to accurately measure the location of the user. The user is simply required to wear a device connected to internet and running the program, this device can be a smartphone or other custom devices used in this industry.

Monitoring Work Routines

Facilities are complex and dynamic work environments with multi-disciplinary teams working together and separately to maintain and ensure the completion of a process.

This is an overwhelming task that we aim to simplify. In our Tracking Platform you can upload routes or routines for workers and compare them automatically with the actual work performed by an employee, and automatically evaluate the deviations, possible issues, and delays. Depending on the department, as well as the task and its importance, we can establish different standards and evaluate what is a normal deviation, or in what cases management should be automatically informed.



Routines followed by an employee

On this map we can see the logged information of an employee inside a shopping mall. We can analyze not only the route taken by the employee, but also the speed, as well as the time spent in each area.

Automatic Supervision

FOR SECURITY PROFESSIONALS

Real-time tracking and automatic supervision can play a significant role in enhancing security personnel's safety and effectiveness. By implementing such technologies, security professionals such as guards can be tracked and monitored in real-time to enhance their safety and provide prompt responses to security threats.

The following are some areas that can be addressed through real-time tracking and automatic supervision:

1. **Safety of security professionals:** One of the significant benefits of real-time tracking and automatic supervision is enhancing the safety of security professionals. By monitoring the guards' location, supervisors can detect if any of them are in danger and provide immediate assistance.
2. **Tracking of routes inside the facility:** By tracking the guards' routes inside a facility, our solution can automatically detect any deviations from the designated paths. Such deviations could indicate a potential security threat or that the guard is investigating a suspicious anomaly. In such a case, the supervisors or other security professionals would be informed automatically in order to evaluate the situation, get in contact with the guard, or take any other appropriate action.
3. **Detection of running:** By analyzing the guards' speed, the system can detect if they are running. Such an occurrence could indicate an emergency or security threat, and more security professionals would be alerted automatically to respond.
4. **Coordination of responses:** By tracking the guards' location, the system can determine the closest guards to a security threat and dispatch them to the location immediately. This feature helps to provide a faster and automatic response to security threats.

FOR REGULAR EMPLOYEES

Real-time tracking and automatic supervision can also be implemented to track regular employees of a facility to ensure their safety and enhance security measures. By monitoring the employees' location and activities, supervisors can detect potential security threats and ensure compliance with security protocols.

The following are some areas that can be addressed through real-time tracking and automatic supervision:

1. **Ensuring employee safety:** The system can track the location of employees, especially in high-risk areas, to ensure their safety. If an employee's location is detected in a potentially dangerous area, an alert can be sent to the supervisor or security personnel.
2. **Compliance with security protocols:** The system can track whether employees comply with security protocols, which can be ignored specially if they require extra work or an extra long path. By analyzing the routine and location of workforce we can ensure that if an employee violates any of the security protocols an alert would be sent to the supervisor or security personnel.
3. **Evaluation of work completion:** The system can monitor employee movements and activities to evaluate their work completion. Certain jobs are essential to ensure the security and integrity of a building, such as maintenance or quality inspections, and should never be missed or gone through unnecessarily quickly. This feature can automatically detect whether these tasks have been issued or not.
4. **Restricted Areas:** The system can analyze employee behavior to detect potential security threats, such as an employee behaving suspiciously or attempting to access restricted areas.

Augmented Reality Security

SMART PANELS

BB Visual Solutions AS offers Smart Panels as a reliable and secure solution for industrial security. One of the main advantages of Smart Panels is their ability to provide a high level of security and authorized access control, ensuring that only trained and authorized personnel can access sensitive machinery and equipment.



In industry machinery and operations can be complex and technically demanding. Smart Panels provide a cost-effective and customizable alternative to traditional machinery operation panels that require physical contact and can be easily tampered with or damaged. Instead, Smart Panels use layers of metal, plastic, or stickers with a unique code that can be read and operated hands-free with AR glasses or a physical device such as a phone.

Smart Panels are designed to operate in harsh industrial environments and are not affected by corrosion, oxidation, or other problems commonly found in machinery. They require no maintenance and can be customized to incorporate any machine routine or operation process as a new button or a new user interface. With Smart Panels, operators can easily rearrange the elements on the panel to fit their specific tasks and responsibilities.

One of the key advantages of Smart Panels is their high level of security. They can only be operated and viewed by authorized personnel, ensuring that only trained and authorized employees can access

sensitive machinery and equipment. Unauthorized access can lead to serious security breaches, equipment damage, or even accidents that can harm personnel and damage equipment.

Smart Panels also have a built-in access control system that can log or record all actions performed on the panel. This feature enables quick and easy troubleshooting in case of machine operation errors and can help identify potential security breaches. By tracking and monitoring access to sensitive equipment, Smart Panels provide an additional layer of security that can help prevent unauthorized access and ensure the safety of personnel and equipment.

In addition, Smart Panels are compatible with a variety of devices, including AR and VR glasses, phones, tablets, and other devices with a camera and internet connection. This makes it easy for authorized personnel to access and use the panels, and also allows for remote monitoring and control of machinery and operations.

In summary, Smart Panels are a reliable, customizable, and secure solution for industrial security. Their ability to provide authorized access control and log all actions performed on the panel makes them ideal for industries that require reliable and secure machinery and operation processes. With Smart Panels, industries can ensure the safety of their personnel and equipment, prevent unauthorized access and security breaches, and quickly identify and address any potential issues.

SMART CHECKLISTS

BB Visual Solutions AS offers Smart Checklists as a reliable and secure solution for enhancing industrial security by ensuring safety procedures are being followed in any industry. Smart Checklists are designed to ensure safe and efficient operation of machinery by providing real-time instructions and information about machinery to operators. Their main utility is ensuring that certain routines and processes are being properly executed.



This is accomplished by providing real-time instructions to operators and logging and recording all actions performed. Smart Checklists can be created manually by an operator or automatically by a script that analyzes data from the machines to determine the tasks that must be followed. This feature allows for a customizable and adaptable solution that can be tailored to specific machinery and operations.

Smart Checklists can be operated hands-free in the same manner as Smart Panels with the use of AR glasses. They can also be operated remotely by staff or support, providing a seamless workflow for operators and allowing for support when needed.

SMART MARKERS

In the industrial sector, precise measurements and accurate positioning are crucial for maintaining safe and efficient operations. BB Visual Solutions AS offers Smart Markers as a solution that enhances both accuracy and security. These markers can provide real-time measurement data with an accuracy of up to the millimeter, allowing operators to conduct precise measurements without the need for additional tools or equipment.

More importantly, Smart Markers can be used to ensure the security of the facility by providing real-time machine status and operation information. By using AR glasses or mobile devices, operators can access critical information such as the current status of machinery, potential hazards, and any deviations from normal operation. This information can be used to quickly identify and address any issues that arise, preventing accidents and minimizing downtime.

Smart Markers are significantly faster to read than traditional QR codes and can be accurately read in real-time from multiple meters away. This makes them ideal for use in large industrial facilities where quick and accurate data collection is essential. Smart Markers can also be read with low luminosity and from almost any angle, further enhancing their versatility and reliability in any industrial setting.

Overall, Smart Markers offer a wide variety of different uses in the industrial sector, but their ability to enhance security by providing real-time machine status and operation information is particularly valuable. By using Smart Markers, operators can quickly and easily access critical information, ensuring the safety and efficiency of the facility.