Case Study



iOmniscient's IQ Series deployed for managing extreme crowds

Sagrada Familia, Gaudi's Masterpiece in Barcelona, has high IQ

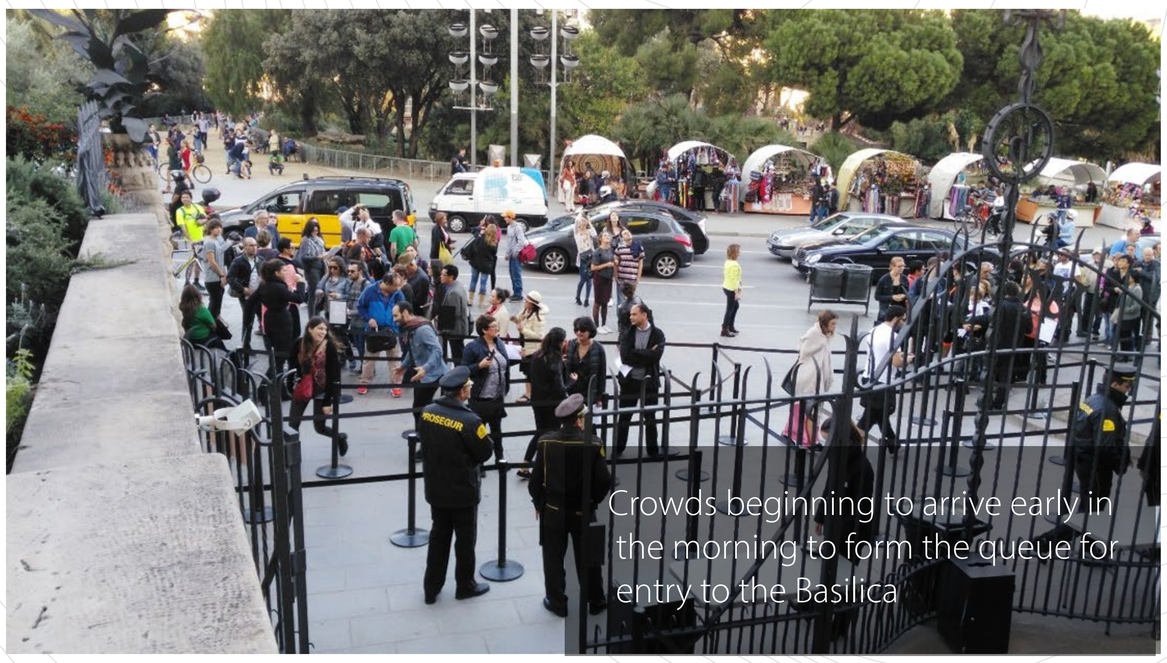
Sagrada Familia is the most visited tourist site in Barcelona hosting over 4.5 million visitors each year. In 2010 Pope Benedict upgraded its status from a Cathedral to a Basilica elevating its importance as a religious site for Roman Catholics.

The church is not yet completed after 150 years of construction. Gaudi who designed it died in 1926 having completed only a quarter of its construction. The current expected completion date is 2026 which means it will have taken only 50 years less to construct than the Great Wall of China.

In 1936, the building was attacked by anarchists during the Spanish Civil war, setting fire to the crypt and destroying some of Gaudi's original designs and plaster models that were held there.

The church is built in a unique Catalan Modernist/ Art Nouveau style which is not seen anywhere outside of Barcelona. There are no exact right angles to be seen inside or outside the church, and few straight lines in the design. The entire construction of the Sagrada Familia has been privately funded with a large proportion of the ongoing construction costs being covered by the tickets charged to the large number of tourists that visit it.
To manage the large crowds that descend on the church, the authorities rely on iOmniscient's patented capabilities.

The system is used to count the number of people in a crowd, to manage queue lengths and to calculate the dwell time of people who have to wait. They can also determine how long people spend in different parts of the church. They can detect sudden changes in the direction of the movement of the crowd which could lead to accidents.



Crowds beginning to arrive early in the morning to form the queue for entry to the Basilica



Ceiling of the Sagrada Familia

In addition to crowd management, the authorities are concerned with security. They cannot afford another incident where a terrorist might leave a package that might explode. They need to be able to recognize known terrorists while still complying with Europe's very stringent privacy protection legislation.

iOmniscient is proud to contribute to the safety, security and efficient management of Sagrada Familia providing visitors and staff with a secure environment whilst ensuring that their privacy is fully protected.

For further information, please contact sales@iomni.ai or visit our website www.iomni.ai

iOmniscient is a pioneer in Artificial Intelligence based Video Analytics.
Recently it topped Gartner's worldwide list of video analytics companies for the most comprehensive capabilities in the industry.
Its Artificial Intelligence based Multi-Sensory Analytics Platform includes sound and smell as well as video to better replicate human reasoning.
These technologies are proven and have been implemented by commercial and government users in almost 70 countries.

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