

Taiwan Optical Platform



This project integrates cable TV systems, Civil IoT, and AI video recognition technology to build smart disaster prevention and site safety services. Centered on set-top boxes (STB) and intelligent sensing, the solution focuses on bridging the gap in real-time information and safety protection for elderly and rural populations.

Through its wired network infrastructure, the system developed under this project is capable of delivering real-time disaster prevention information, including earthquakes, typhoons, and heavy rainfall alerts. In addition, AI-based recognition capabilities have been integrated into the system.

Currently, the system has completed event recognition functions such as parcel placement and retrieval detection. It also performs analysis of human movement trajectories and abnormal group behavior detection. In the future, the system will be further expanded to identify dangerous situations such as violent behavior.

Through this project, Taiwan Optical Platform (TOP) demonstrates the potential of integrating cable television networks with AI and IoT technologies to develop a platform for smart disaster prevention and public safety applications.



AI Image Recognition Technology



Public Information Interface



Disaster Alert Notifications