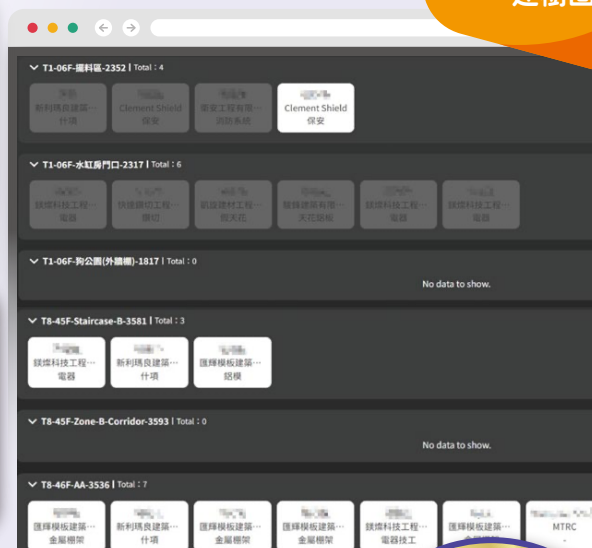臻善圈得獎提案摘要創意大獎 Project Summaries of WIT Innovative Project Award Winners

物聯網智能安全帽連雲端平台
DHAT's I.T.! - DasLoop HAT

Contribution Circle 建樹圈

物聯網智能安全帽連雲端平台 -
實時監察工友狀態，保障工友安全
"DasLoop HAT" platform - provide
real-time monitoring and
protection of workers.

多樓層儀表板系統
multi-floor dashboard system

臻善圈
最具創意提案獎
MOST
INNOVATIVE
PROJECT AWARD

提案摘要 Project Summarys

在地盤的趕工文化下，地盤工友爲生計而無間斷加班，忽略自身健康，增加安全風險。一旦有緊急情況，傳統監督方式無法即時收到工人求助或掌握工人狀態，導致救援延誤。

因此，團隊引入智能安全帽，結合無死角網絡及雲端平台，主動爲工人提供實時監察及保障：

- 實時監察工友的體徵與位置
- 當數據出現異常時，系統會自動向監督人員發出警報
- 工友遇險時，可按安全帽的緊急按鈕即時求助
- 管理者可透過3D模型及團隊共同研發的多樓層儀表板系統掌握及管理所有工友的實時狀態

Under the demanding construction culture, workers endure continuous overtime for their livelihood and neglecting their health, resulting in elevating safety risks. The traditional supervision method failed to instantly receive distress calls or status of workers when an emergency occurs, leading to critical delays in rescue.

The team introduced "DasLoop HAT", covering by a seamless network and a cloud platform, to provide real-time monitoring and protection of workers.

- Monitors vital signs and locations of workers in real time
- Automatically alerts supervisors to any anomaly
- Uses dedicated help button of "DasLoop HAT" when workers are in emergency
- 3D models and multi-floor dashboard system could be used to mange the real-time status of all workers