

TIE.Ai

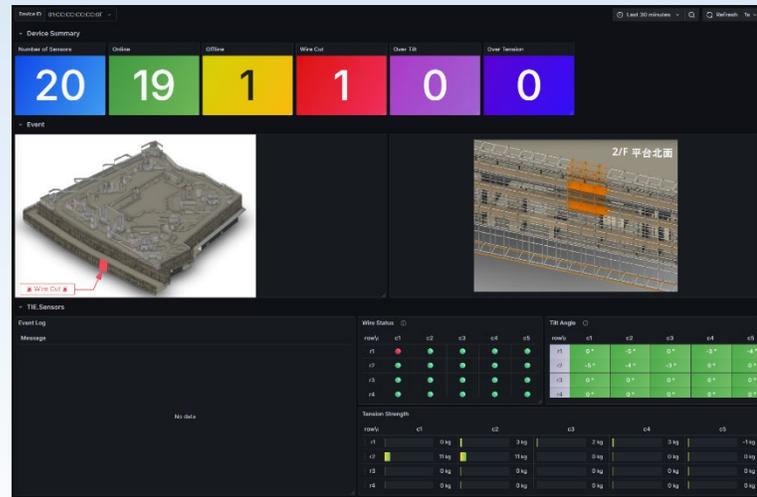
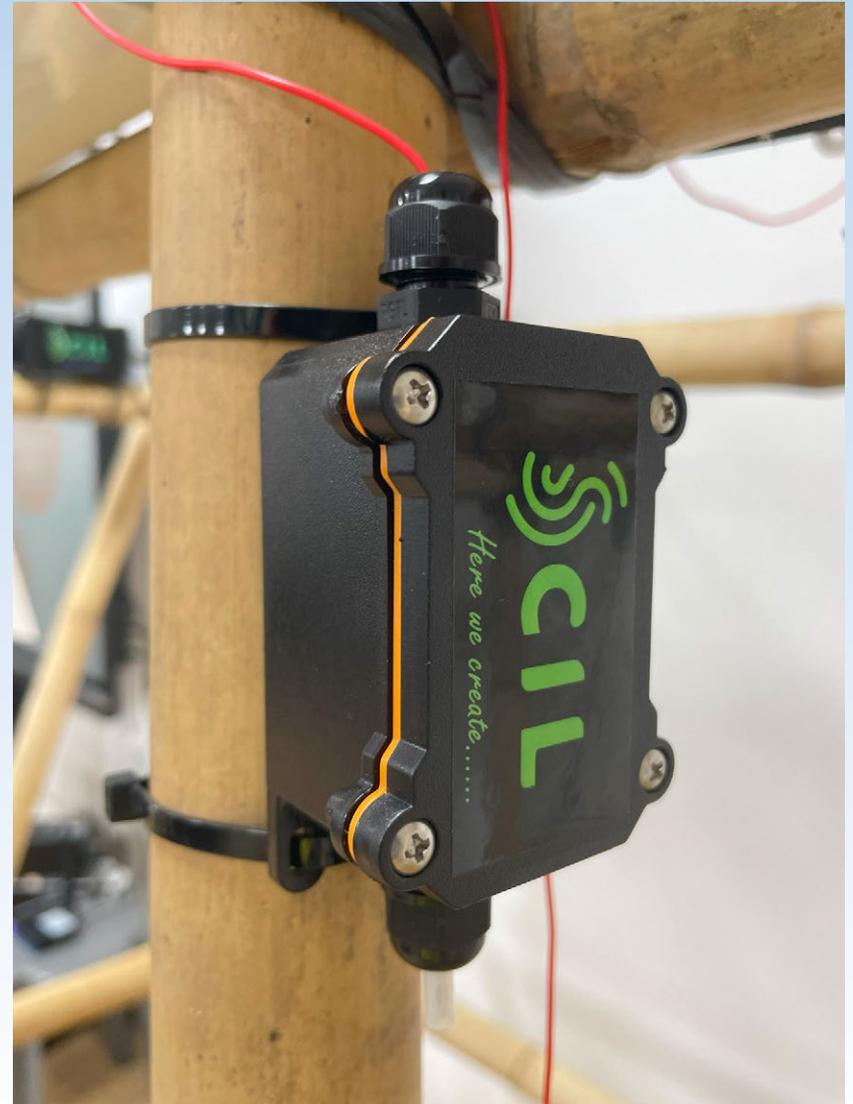
智能棚架監測系統

以心建家，讓創新搭建未來。

TIE.Ai 智能棚架監測系統



TIE.Ai 智能棚架監測系統



Real-Time data dashboard

TIE.Ai 系統平台

Device ID: 01:CC:CC:CC:CC:11 | Last 5 minutes | Refresh

Device Summary

Number of Sensors	Online	Offline	Wire Cut	Over Tilt	Over Tension	Over Temperature
20	19	1	1	0	0	0

Event

2/F 平台北面

Wire Cut

TIE.Sensors

Event Log

Message

拉搖斷線警告 SCIL智能棚架監察系統 時間: 2025-06-19 07:58:01 地點: 古河 位置: 區域A-2排1位

row\c	c1	c2	c3	c4	c5
r1	●	●	●	●	●
r2	●	●	●	●	●
r3	●	●	●	●	●
r4	●	●	●	●	●

row\c	c1	c2	c3	c4	c5
r1	0°	0°	0°	0°	0°
r2	0°	0°	0°	0°	0°
r3	0°	0°	0°	0°	0°
r4	0°	0°	0°	0°	0°

row\c	c1	c2	c3	c4	c5
r1	28 °C				
r2	28 °C				
r3	28 °C				
r4	28 °C				

row\c	c1	c2	c3	c4	c5
r1	0 kg				
r2	0 kg				
r3	0 kg				
r4	0 kg				

地盤概覽

警報訊息

拉搖狀態

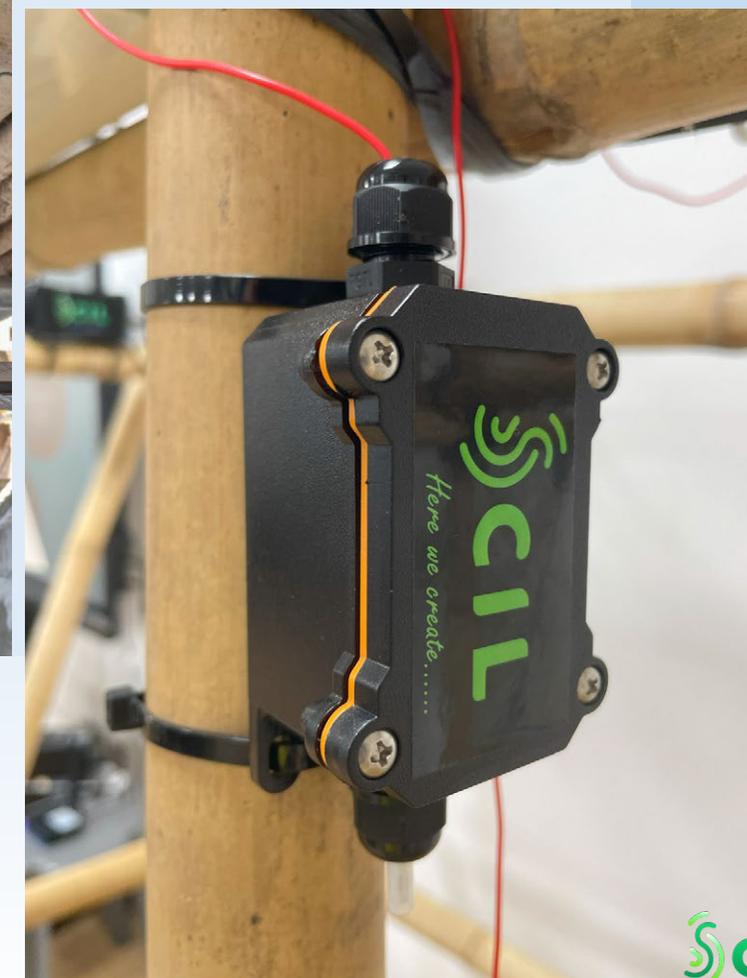
感應器資訊

警報位置

傾斜狀態

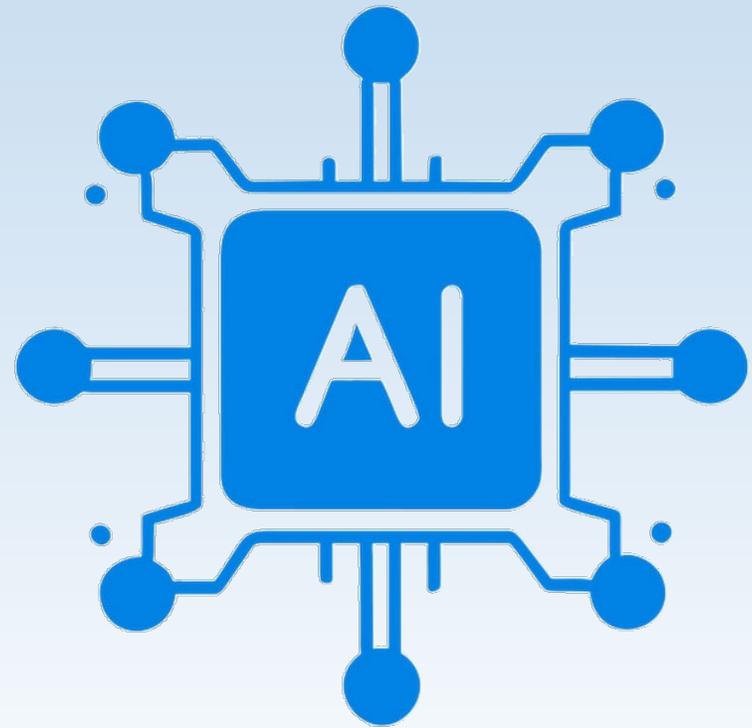
受力狀態

TIE.Ai 智能棚架監測系統



TIE.Ai Core Engines

T ie-wire	I nspection	E ngine
T ilting	I nspection	E ngine
T ension	I nspection	E ngine
T emperature	I nspection	E ngine



TIE.Ai 智能棚架監測系統



微傾斜度檢測

基於幾何形變算法，識別肉眼難察的結構傾斜，提前預警潛在倒塌風險。



深度拉力監測

實時追蹤鋼索、節點受力狀態，AI自動比對安全閾值，杜絕超負荷隱患。

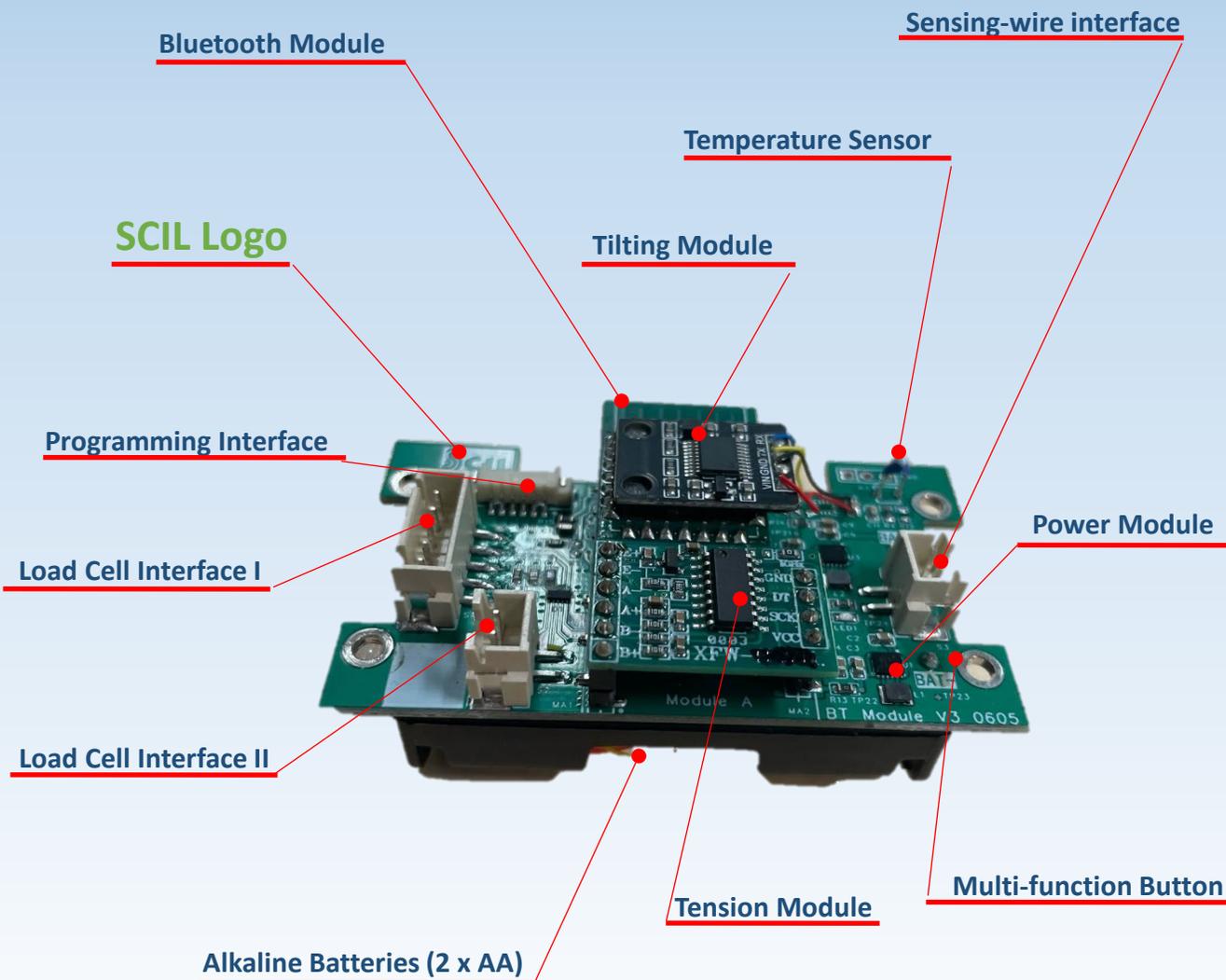


物理攔阻+即時警報

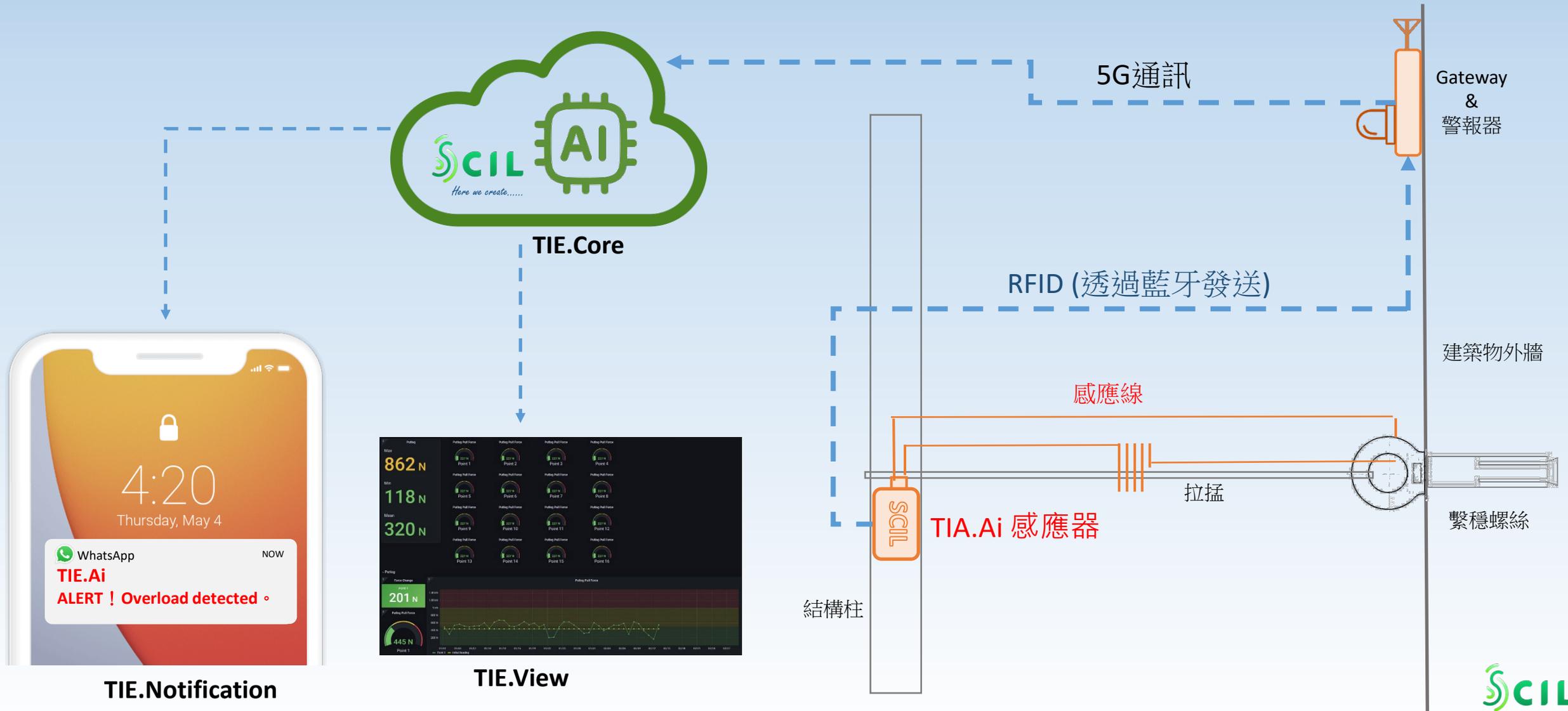
配置防剪感應線，防止「拉搥」被剪，異常觸發時同步推送警報至管理端，響應迅速。



新輝建築創科有限公司
Sanfield Construction Innovations Limited



TIE.Ai 系統



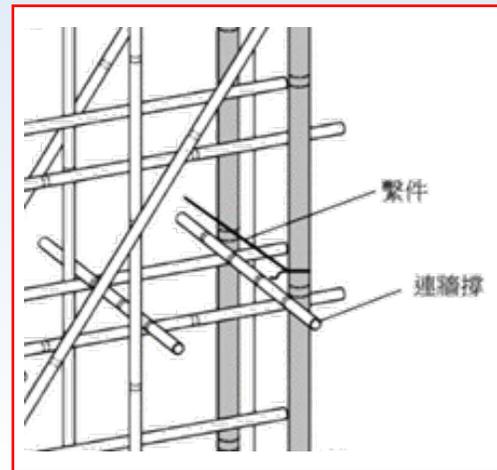
TIE.Ai 數據應用

2025-06-12 T1

古洞北地盤



科學園



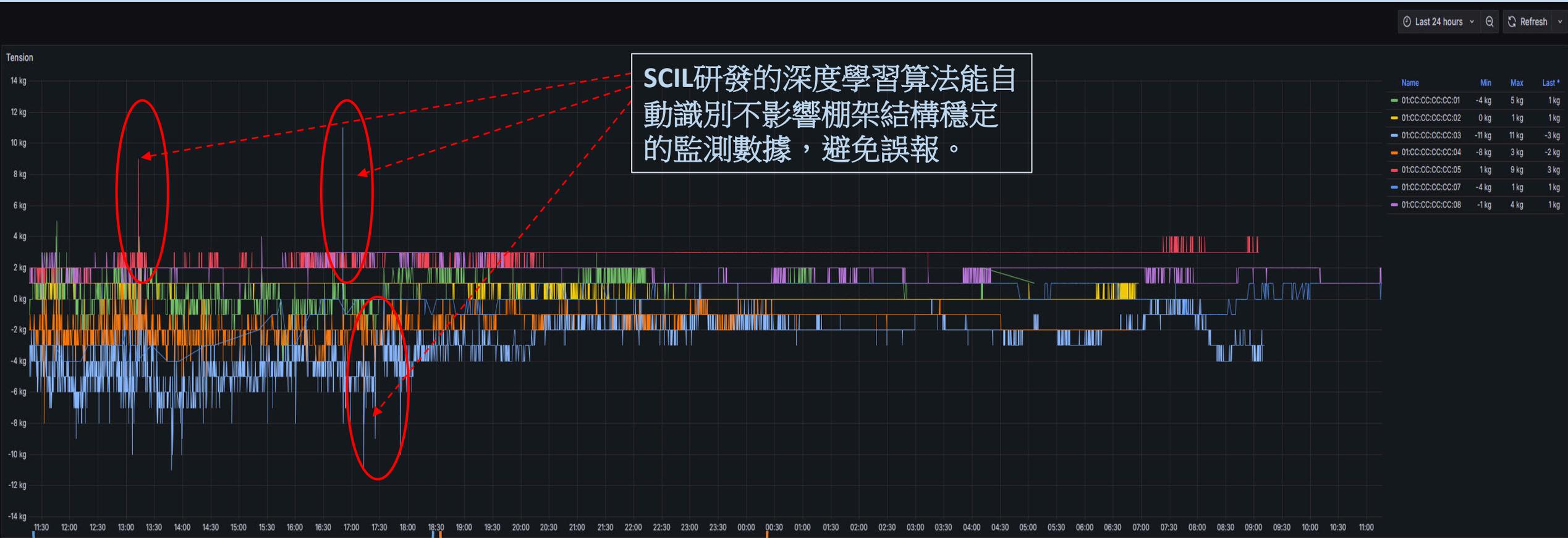
TIE.Ai 數據應用

2025-06-11 T1 古洞北(新建地盤)



TIE.Ai 數據應用

2025-06-12 T1 古洞北(新建地盤)

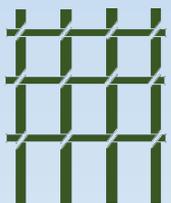


工作時段 + T1

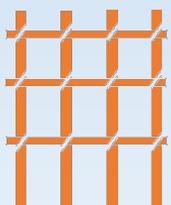
風勢逐漸減弱

TIE.Ai 系統功能

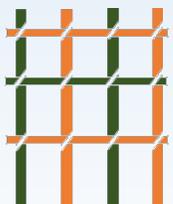
兼容性



竹棚架

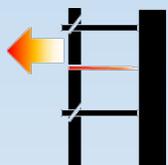


金屬棚架

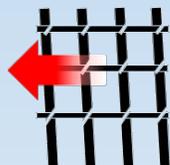


混合棚架

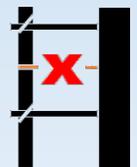
即時警報



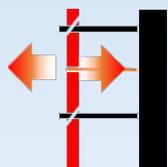
危險負荷



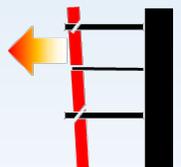
危險側傾



拉搥斷線

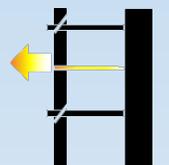


危險震動



危險外傾

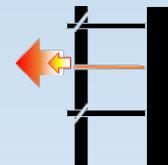
A.I. 預警



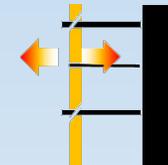
異常負荷



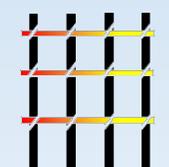
異常闖入



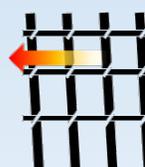
異常負荷改變



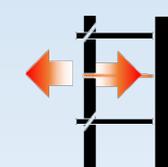
異常結構震動



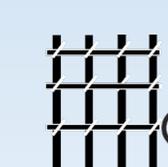
異常負荷分布



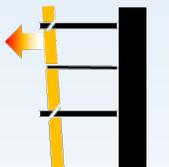
異常側傾



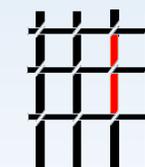
異常負荷震動



異常溫度



異常外傾

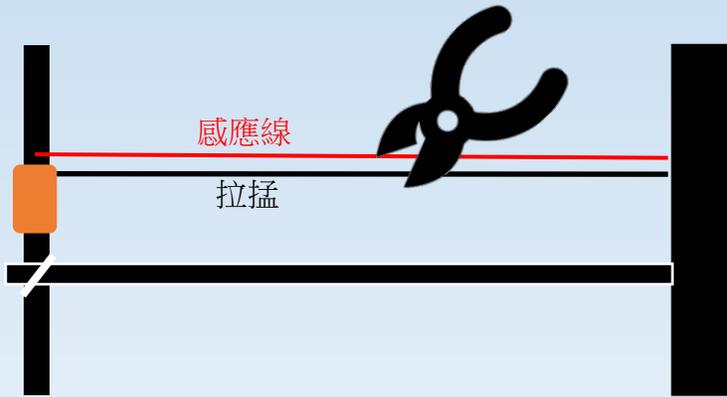


異常結構改變

TIE.Ai 系統操作

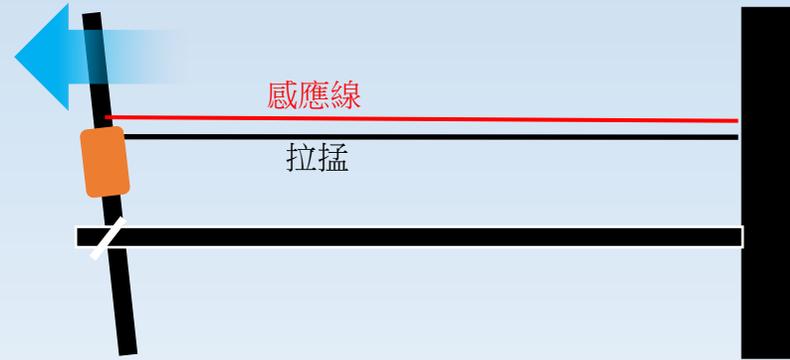


第一道防線



系統每5秒檢測拉搥狀態，當拉搥被剪掉，系統即時發出警報。

第二道防線



系統不斷檢測棚架傾斜度，當結構出現異常變化，便會發出預警或即時警報。

第三道防線



系統不斷檢測拉搥受力狀況，當拉力出現異常變化或超出預設警戒線，便會作出預警或即時警報。

以心建家，讓創新搭建未來。

聯絡我們

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