

# 「離地工作及棚架安全」網上研討會

## WEBINAR ON WORK-ABOVE-GROUND and SCAFFOLDING SAFETY

### 《閉幕辭》 Closing Remarks

建造業議會主席何安誠教授工程師  
Ir Prof. Thomas HO, Chairman, CIC

25.06.2025





# 2025年建造業致命意外 (截至2025年5月)

Fatal Accidents in Construction Industry in 2025 (As of May 2025)

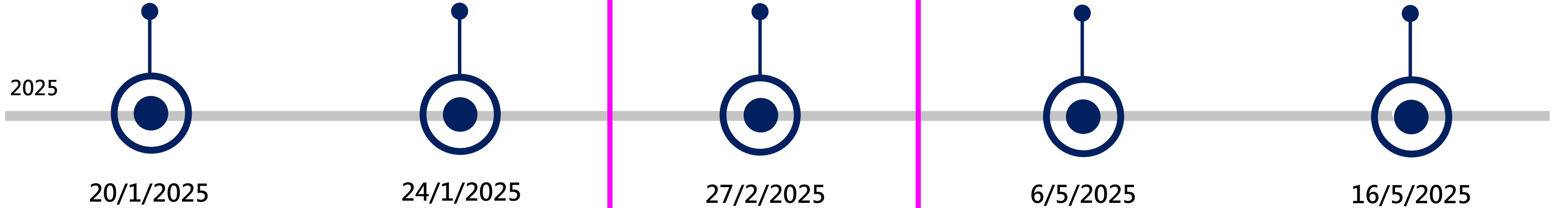
有4宗致命意外與離地工作和  
棚架工作相關  
4 fatal accidents related to Work-above-  
ground and Scaffolding Works



職安警示  
被轉動中的挖土機擊中

1. 意外日期： 2025 年 2 月
2. 意外地點： 一個填海地盤
3. 意外摘要：  
當一台挖土機的上部結構於沒有設置護欄的操作區域內轉動時，其鏟斗撞擊到一名工人，該工人重傷一個被挖土機吊起的金屬吊籠，他於三天後離世。

一工人被轉動中的挖土機  
擊中受傷 三日後離世



# 建造業潛在安全陋習

Potential Bad Safety Habits in  
Construction Industry

**1** 趕工文化（四、五日內起好一層）  
Culture of rushed works schedule

**2** 「你搞掂佢！什麼也全包」  
“Do it all on your own”

**3** 「文化領導者」不到現場宣講安全  
Culture setter do not visit site to preach safety

**4** 多層判上判文化（5/6/7判非常普遍）  
Multi-layered Subletting

**5** 關愛文化薄弱（工傷行政費十萬元）  
Weak Caring Culture (Administration fee for reportable accident \$100,000)

**6** 未能從過去的錯誤中學習  
Not learning from previous mistakes





# 建造業安全意識問卷調查2024

## Survey on Safety Awareness 2024

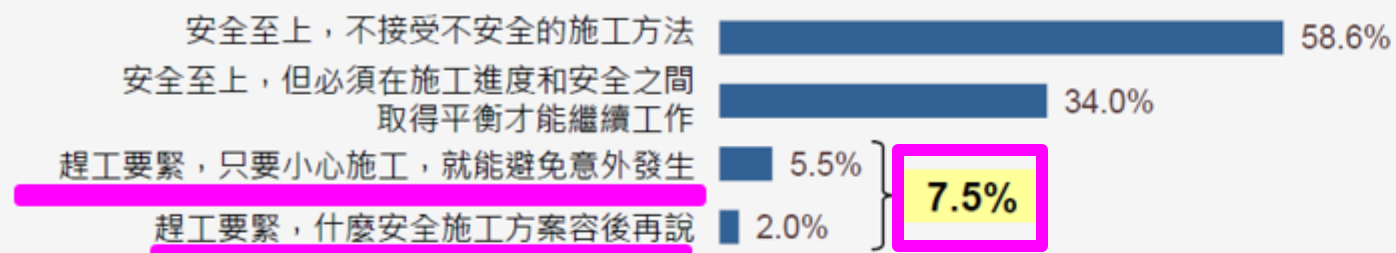
### 主題: 工友情景題

### Topic: Scenario-based Questions for Workers

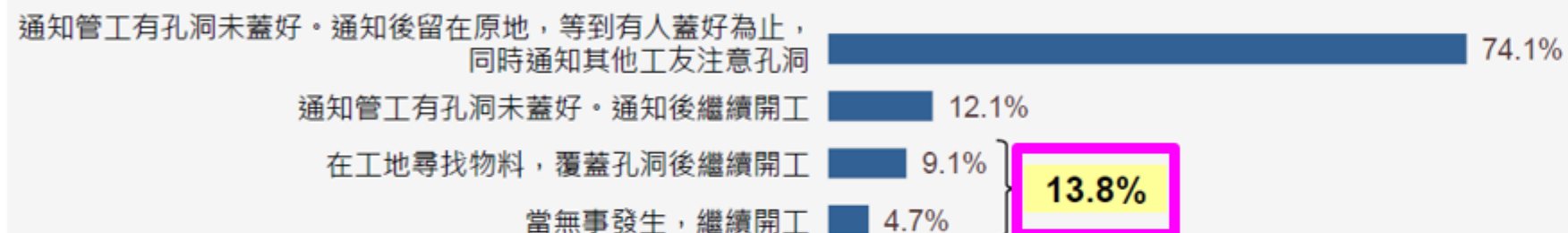
有7.5%到13.8%的工友選擇了明顯錯誤的答案，顯示安全意識仍需加強。

Between 7.5% and 13.8% of the workers selected apparently incorrect answers, indicating that safety awareness still needs to be strengthened.

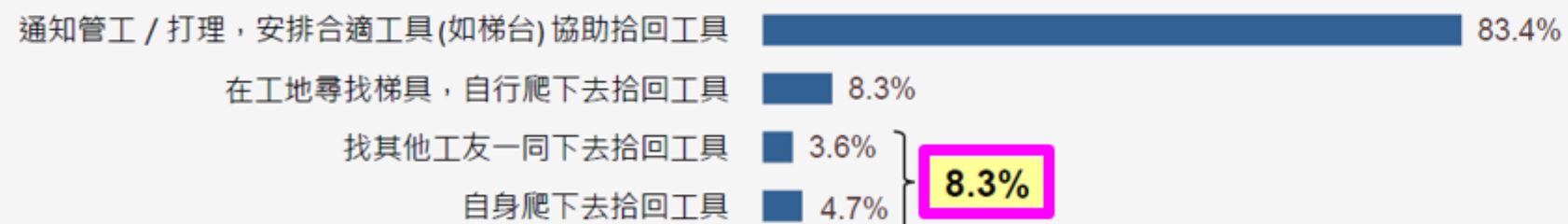
#### 假設地盤趕工，您會選擇哪種態度？



#### 如果發現有孔洞，您會怎樣處理？



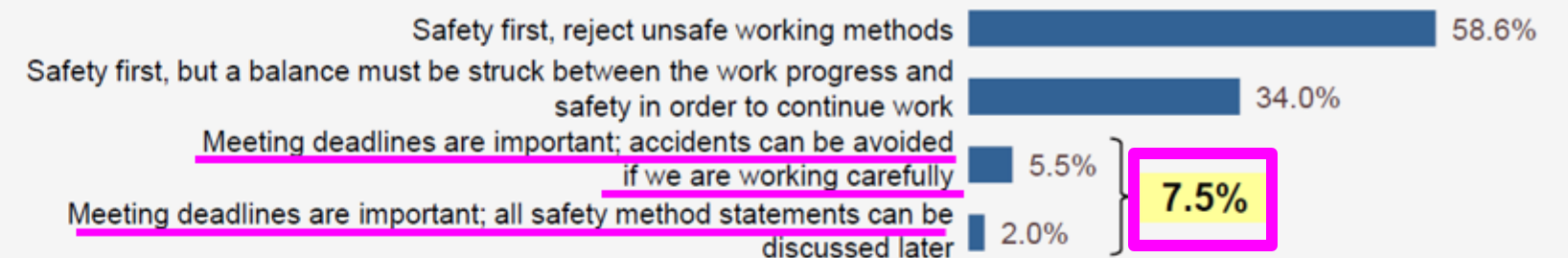
#### 如果工作的工具跌入孔洞內，您會怎樣處理？



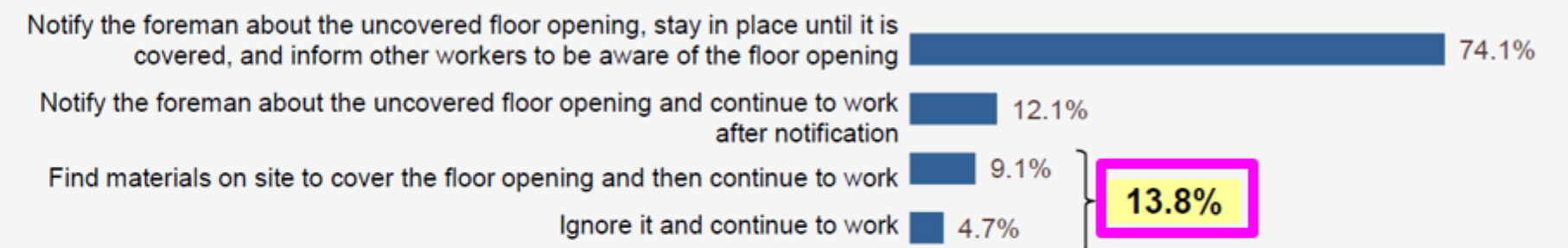
(N = 1,384)

0% 20% 40% 60% 80%

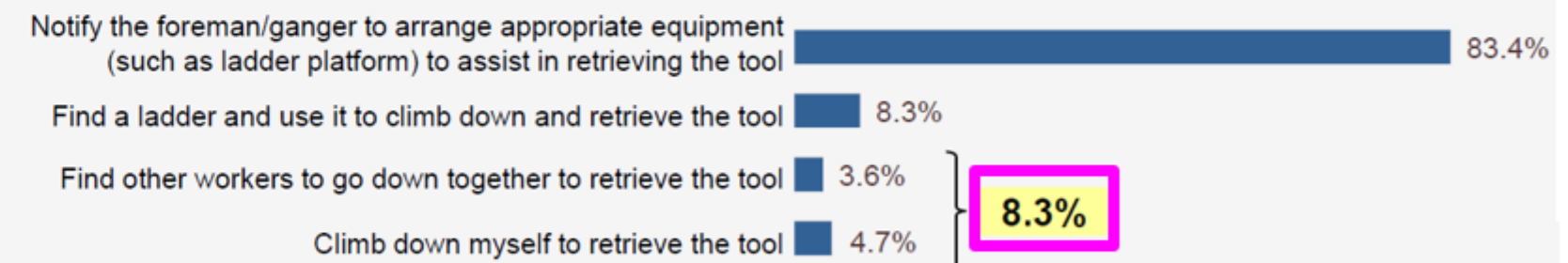
#### What attitude would you choose if the site is rushing to meet deadlines?



#### What would you do if you found a floor opening?



#### If a tool falls into an opening, how would you handle it?



(N = 1,384)

0% 20% 40% 60% 80%





# 建造業安全意識問卷調查2024

## Survey on Safety Awareness 2024

### 主題: 工友開工習慣

### Topic: Workers' Work Habits

問題: 請選擇你開工前的習慣(可選擇多於一項)?

Q: Select your Habits Before Starting the Works (May select more than one)?

#### Choices of habits before starting the works

- ☐ Observe the conditions of the workplace and confirm that it is safe before starting work
- ☐ Ensure there is a safe working procedure before starting work
- ☐ Ensure the use of appropriate personal protective equipment (PPE) before starting work
- ☐ Ensure safety training has been completed before starting work

☒ Only Selected this Habit (4.7%)  
Follow the order arranged by the foreman/ganger

☒ Only Selected this Habit (3.3%)  
Proceed the work based on working experience

#### 開工前的習慣的選項

- ☐ 觀察工作地點情況，安全才開工
- ☐ 確保有安全施工程序才開工
- ☐ 確保使用合適個人防護裝備才開工
- ☐ 確保開工前接受安全培訓

☒ 單選這一個習慣 (4.7%)  
聽從管工 / 打理安排

☒ 單選這一個習慣 (3.3%)  
按工作經驗正常施工

## 推算Calculation

\*註冊建造業工人數目(2024年高參與水平工友): 大約160,000人  
Registered Construction Workers (Heavily Engaged Workers in 2024): about 160,000

若果問卷數據代表整體建造業界工人:

If the survey data represents all construction workers in the industry:

$$160,000 \times 4.7 \% = 7,520 \text{人}$$

◆ 大約有7,520位工人只「聽從管工 / 打理安排」  
Around 7,520 workers only "Listen to Foreman / Gangers"

$$160,000 \times 3.3 \% = 5,280 \text{人}$$

◆ 大約有5,280位工人只「按工作經驗正常施工」  
Around 5,280 workers only "Based on Working Experience"

- 工頭/揸Fit人/座頭/區長非常重要  
Roles of Ganger/ Block Foreman/ Area Foreman are critical
- 工友的意識非常重要  
Workers' awareness is vital
- 推己及人，延伸關愛文化  
Cascade caring culture
- 行孖咗  
Work in pairs



# 建造業安全意識問卷調查2024

## Survey on Safety Awareness 2024

### 主題: 建造安全文化 – 自身義務

### Topic: Construction Safety Culture - Obligation

你認為自身在推動安全文化中是否需要承擔以下義務？ (回答：是)  
Do you agree you are responsible for the followings in promoting safety culture? (Answer: Yes)

Obligation	義務	工友 Workers	前線管理人員 Frontline Supervisors	持份者 Stakeholders
Ensuring that you wear appropriate personal protective equipment	確保自己佩戴合適的個人防護安全裝備	95.7%	98.1%	98.6%
Being vigilant about risky behaviors and potential danger zones on the site	對危險工地行為和潛在危險區域加以警惕	94.5%	96.5%	98.2%
Understanding the safety measures and response methods for safety incidents	了解及認識工地安全措施和發生安全事故的應對方法	94.5%	96.5%	98.1%
Recognising potential safety risks on the site	認識工地潛在的安全風險	93.9%	96.9%	97.3%
Reminding other workers about unsafe behaviors	對其他工友的不安全行為加以提醒	93.9%	96.1%	97.3%
Clearly understanding the consequences of safety incidents	清楚認識安全事故所引致的後果	93.9%	96.5%	98.8%
Ensuring the compliance with laws, codes of practice, and guidelines	確保符合法例、安全守則及指引	93.2%	95.4%	98.1%
Proactively reporting potential safety hazards on construction sites	主動匯報工地潛在的安全風險	92.6%	N/A	N/A
Conduct dynamic risk assessments	執行動態風險評估	86.1%	N/A	N/A
Leading workers to implement dynamic risk assessments	帶領工友執行動態風險評估	N/A	93.8%	N/A
Supervising the workers to carry out the construction works safely	應監督工友安全地施工	N/A	96.1%	N/A

約 14% 工友認為沒有義務執行動態風險評估; About 14% of workers think they are not obliged to "Implement Dynamic Risk Assessments"

約 6% 前線管理人員認為沒有義務帶領工友執行動態風險評估 About 6% of frontline supervisors think they are not obliged to "Leading to Implement Dynamic Risk Assessments"





# 建造業安全意識問卷調查2024

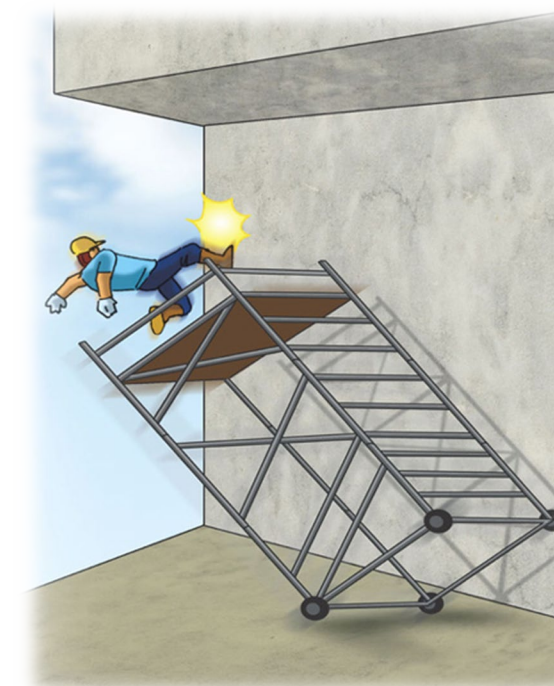
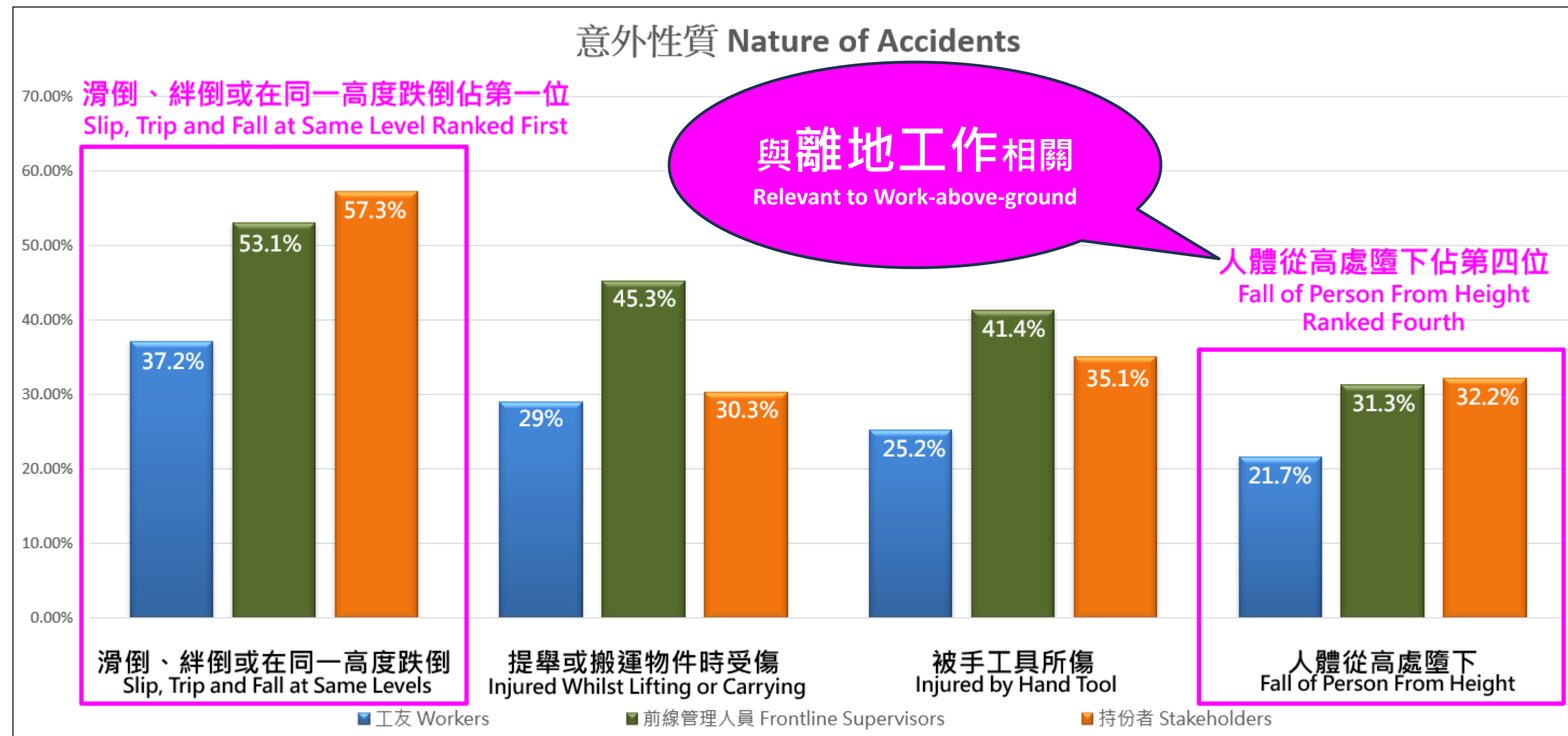
## Survey on Safety Awareness 2024

### 主題: 工業意外的經歷

### Topic: Experiences in Industrial Accidents

問題: 你曾經經歷/目擊/處理過的工業意外? What types of industrial accidents did you Experience, Witness, or Handle?

\*以下是首4個在過去五年內佔最多經歷的意外性質 Here are the Top 4 Nature of Accidents that experienced most frequently in the past 5 years





怎樣解決以上問題

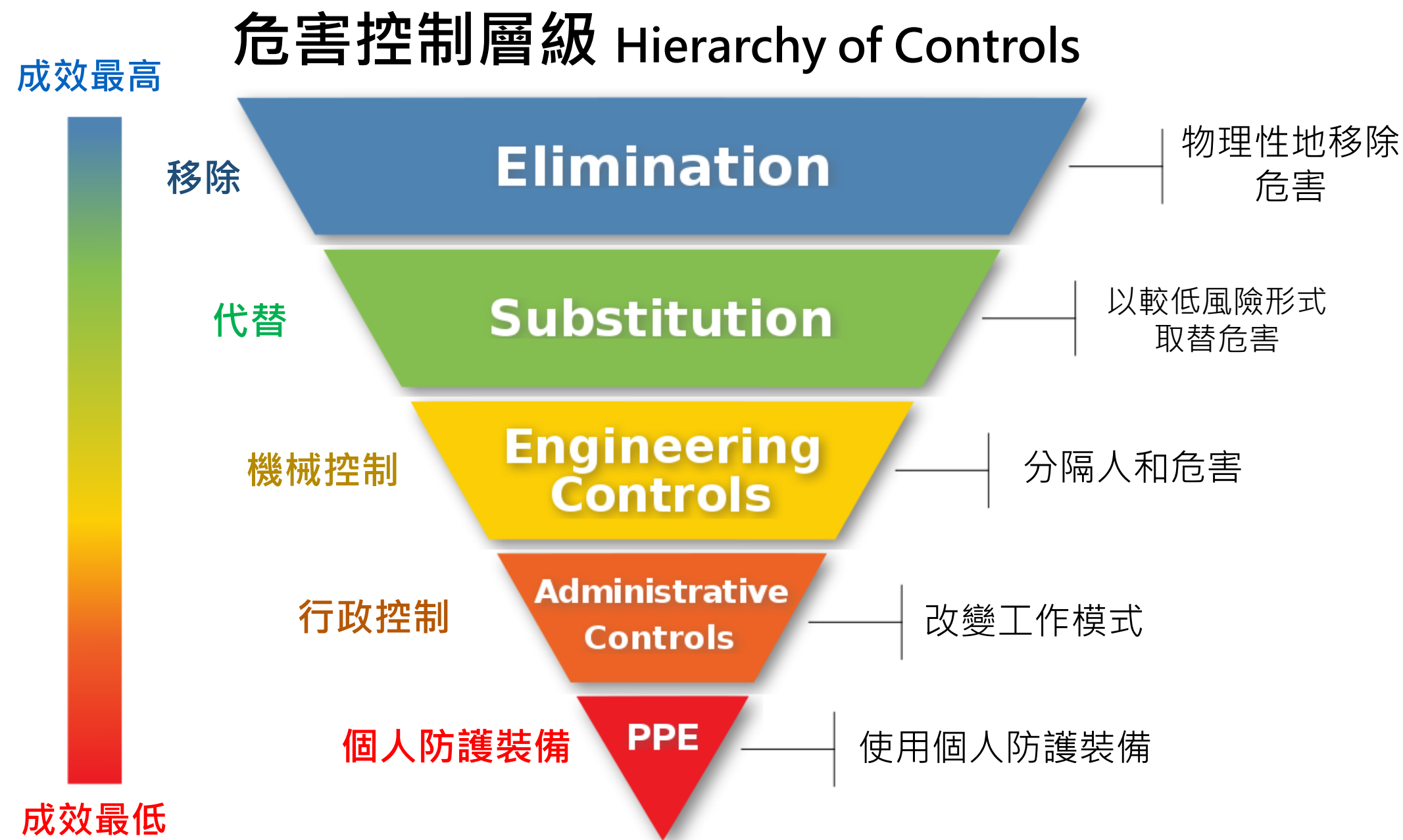
How to solve the above





# 建築設計安全 - 風險防範及管理

Design for Safety - Risk Prevention and Management



## 從源頭消除或降底風險



Eliminate or reduce risks from the sources



個人防護裝備  
只係最後防線!!

Personal Protective Equipment ("PPE") is the last resort!!



# 建築設計安全先導計劃

## Design for Safety Pilot Run Scheme

### 參與機構包括 (按字母順序排列)

- 機場管理局 Airport Authority
- 其士 (建築) 有限公司 Chevalier (Construction) Company Limited
- 土木工程拓展署 Civil Engineering and Development Department
- 機電工程署 Electrical and Mechanical Services Department
- 恒基兆業地產有限公司 Henderson Land Development Company Limited
- 香港房屋協會 Hong Kong Housing Society
- 香港置地集團公司 Hongkong Land Limited
- 香港電燈有限公司 The Hongkong Electric Co., Ltd.
- 市區重建局 Urban Renewal Authority

第一期 Phase 1  
2024年7月26日開始

共10個  
工程項目

### 參與機構包括 (按字母順序排列)

- 建築署 Architectural Services Department
- 嘉福機電工程有限公司 BYME Engineering (Hong Kong) Ltd.
- 土木工程拓展署 Civil Engineering and Development Department
- 香港房屋委員會 Hong Kong Housing Authority
- 新輝建築有限公司 Sanfield Building Contractors Limited
- 太古地產有限公司 Swire Properties Limited
- 香港電燈有限公司 The Hongkong Electric Co., Ltd.
- 特納唐遜有限公司 Turner & Townsend Limited
- 華聯建築有限公司 Union Contractors Limited
- 水務署 Water Supplies Department

第二期 Phase 2  
2025年5月15日開始

共10個  
工程項目





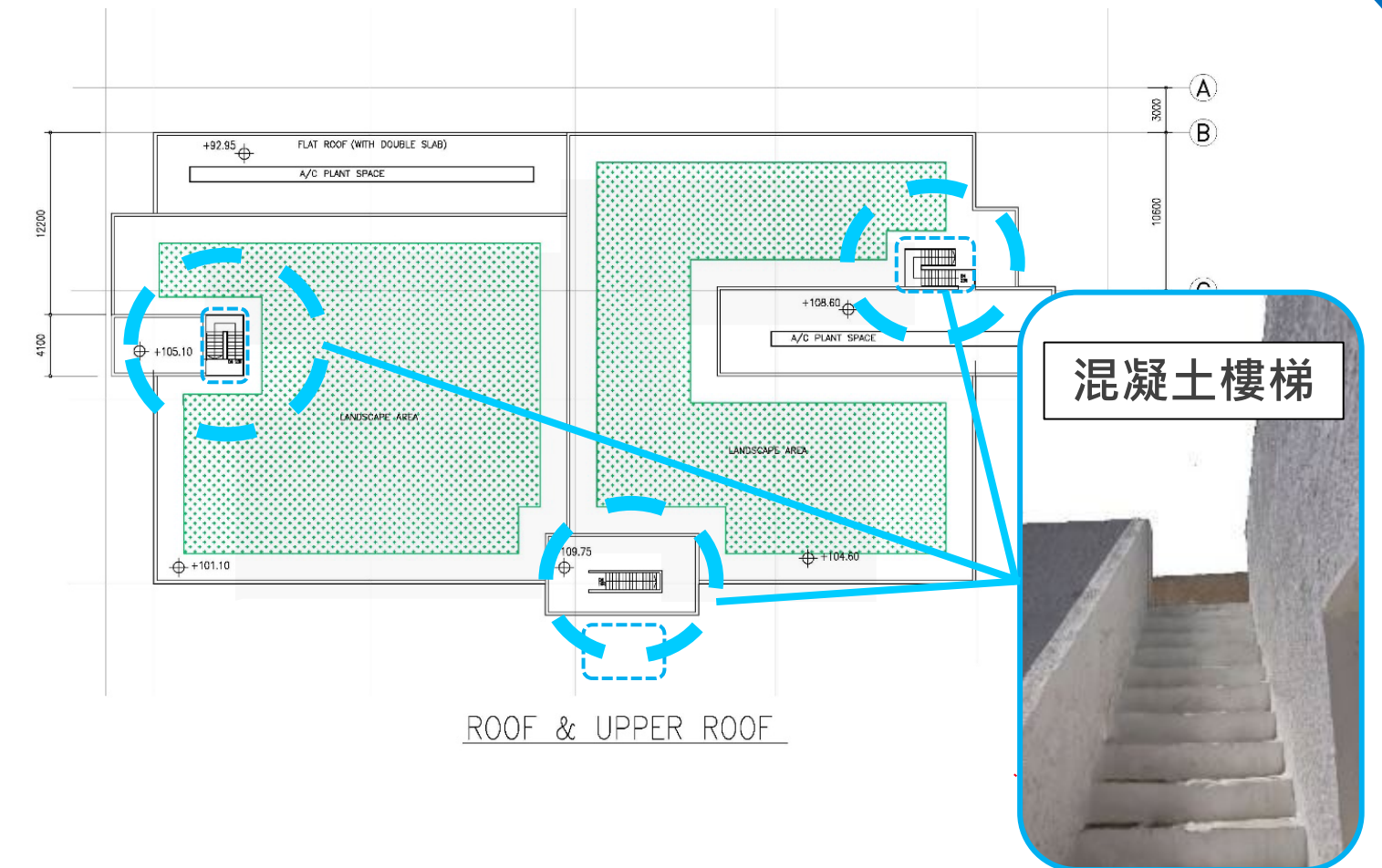
# 建築設計安全先導計劃（第一期）分享

## Sharing on Design for Safety (Phase 1)



### 傳統方案 Traditional Method

- 到達天面進行定期檢查、清潔和維修排水系統或機電設備
- 採用固定攀梯作通道



### 改善方案 Optimised Method

- 提供混凝土樓梯作通道



# 建築設計安全先導計劃（第一期）分享

Sharing on Design for Safety (Phase 1)

原本埋碼點



更改埋碼點以消除高空工作

更改後的埋碼點



## 傳統方案 Traditional Method

- 埋碼點位於「風機」的頂部
- 倚賴使用個人防護裝備 ("PPE")
- 增加人體從高處下墮的風險

## 改善方案 Optimised Method

- 檢討並更改埋碼點
- 高空工作已消除



MiMEP



# 建築設計安全 - 風險防範及管理

## Design for Safety - Risk Prevention and Management

Smart Site Safety System ("4S")



UTBM



MiC



BIM





# 良好安全作業 – 金屬棚架

Good Safety Practice – Metal Scaffolding





# 示範場景 - 連牆器 (俗稱拉掙) 感應器

## Scene Simulation - Putlog Sensors



感應器Sensor

[● 4級警報] 連牆器可能有問題 (輕微傾斜)

時間: 2025/4/11 08:53:00

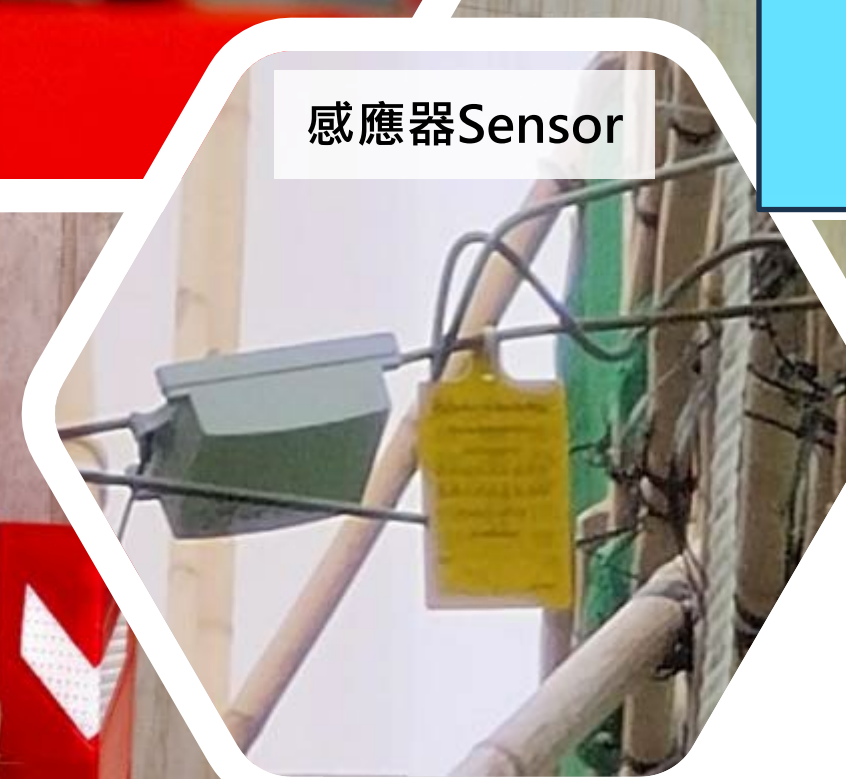
最新偏離角度: 6.98 °

手機警示



Alert will be received

感應器Sensor

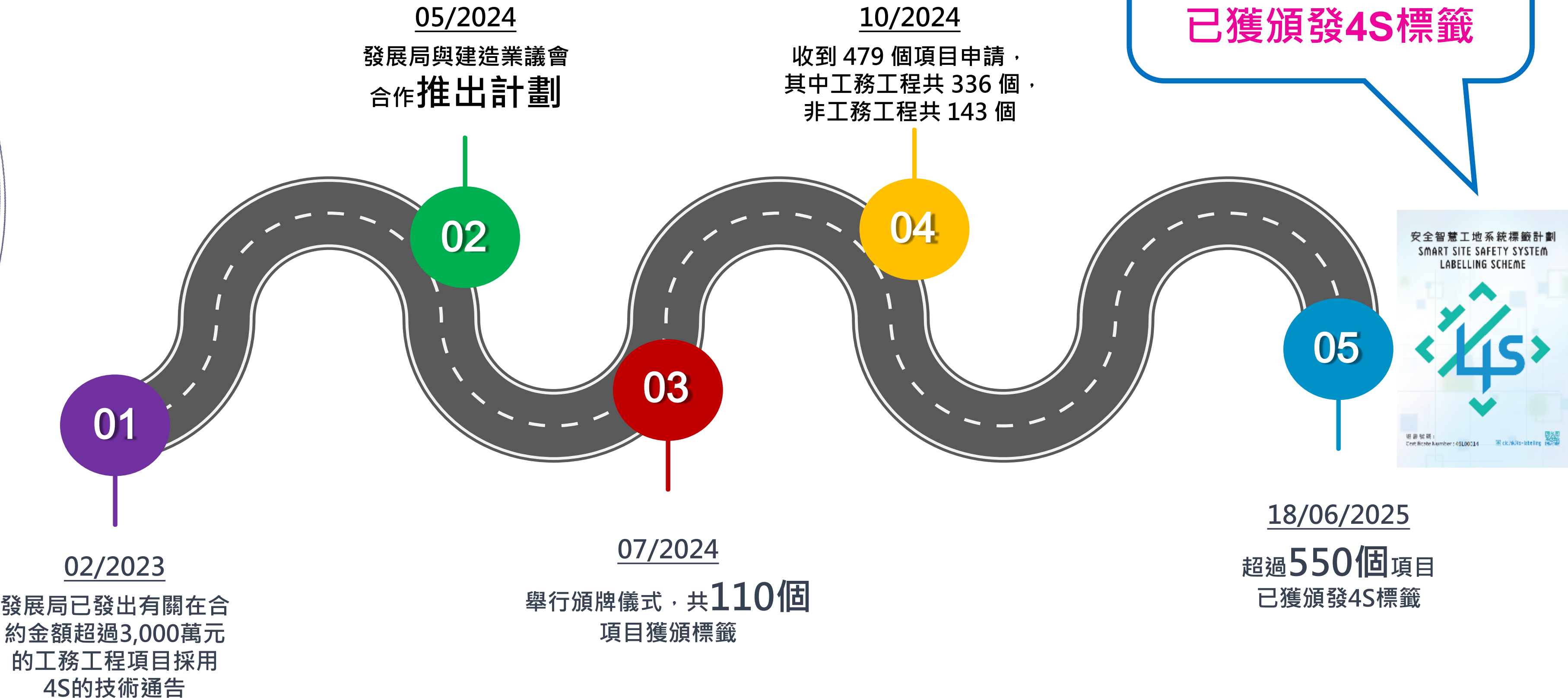




# 安全智慧工地系統標籤計劃("計劃")

Smart Site Safety System Labelling Scheme ("4S Labelling Scheme")

截至18/06/2025  
超過550個工程項目  
已獲頒發4S標籤







2025年目標 Target 2025 :  
**可達至600個工程項目  
獲頒發4S標籤**

Up to 600 projects can be  
awarded with 4S labels

安全智慧工地系統標籤計劃  
SMART SITE SAFETY SYSTEM  
LABELLING SCHEME



證書號碼：

Certificate Number : 4SL00014

 [cic.hk/4s-labelling](https://cic.hk/4s-labelling)





# 前線人員安全表現紀錄計劃

Frontline Personnel Safety Performance Recording Scheme

("安全紀錄計劃")  
("Safety Recording Scheme")

2.4.2025  
正式啟動! Kick-started!

## 目標 Objectives:

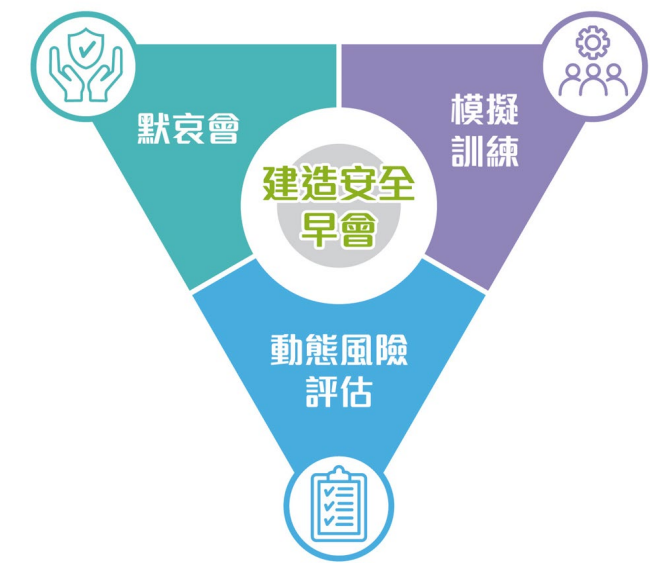
1. **統一標準制度**記錄建造業前線人員的安全表現。  
Standardise the safety performance items for the Frontline Personnel.
2. 培養**安全施工習慣**。  
Cultivate a safe working behaviour.
3. 鼓勵前線人員**積極參與安全培訓**。  
Encourage Frontline Personnel to actively participate in safety training.
4. **提升建造業安全表現**。  
Improve the safety performance of the construction industry.





# 全面落實建造安全早會

## Full Implementation of Construction Safety Assembly



### 早操早會

#### Morning Exercise and Morning Briefing

- ✓ 進行伸展運動
- ✓ 分析業界意外成因
- ✓ 提出安全建議
- ✓ 重申向危險說不



### 安全帶雙扣尾繩模擬訓練

#### Double Lanyard Training

- ✓ 建立肌肉記憶
- ✓ 養成扣安全帶習慣
- ✓ 減少人為出錯



### 動態風險評估

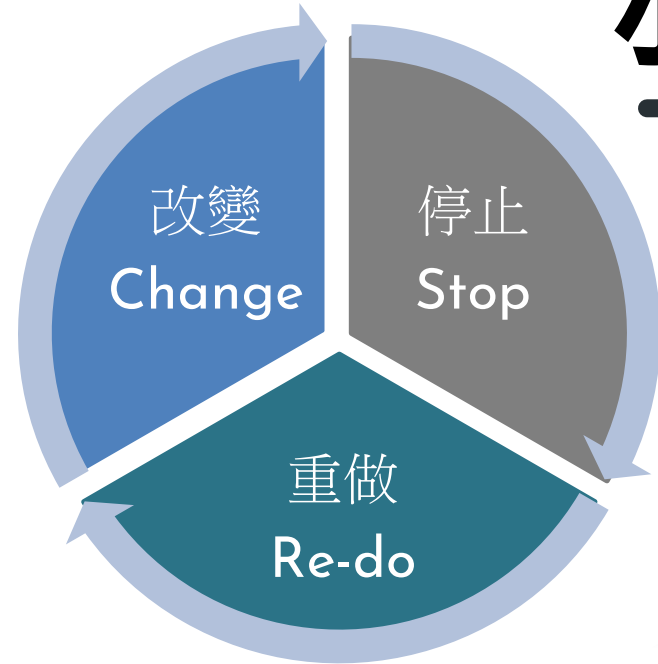
#### Dynamic Risk Assessment

- ✓ 檢視當日工序
- ✓ 識別危害
- ✓ 採取相應措施
- ✓ 分配各人安全責任



# 救命三寶 Three Life Saving Tips

動態風險評估  
Dynamic Risk  
Assessment



現場簡報  
Field Control Briefing



現場環境或工序有變，  
應立即停止工作！！  
If changes, Stop Stop Stop !!







謝謝  
Thank you

