



打造安全無虞的臺北城

Better

一個更好 更安全的臺北



Monitoring, Warning Response of Heavy R in Taipei City

Presenter:

**Taipei City Office of Disaster
Management**

宜居
Livability

永續
Sustainability

耐災韌性
Disaster Resilience

Outline



Hazards



Response System



Heavy Rainfall
Warning and Response



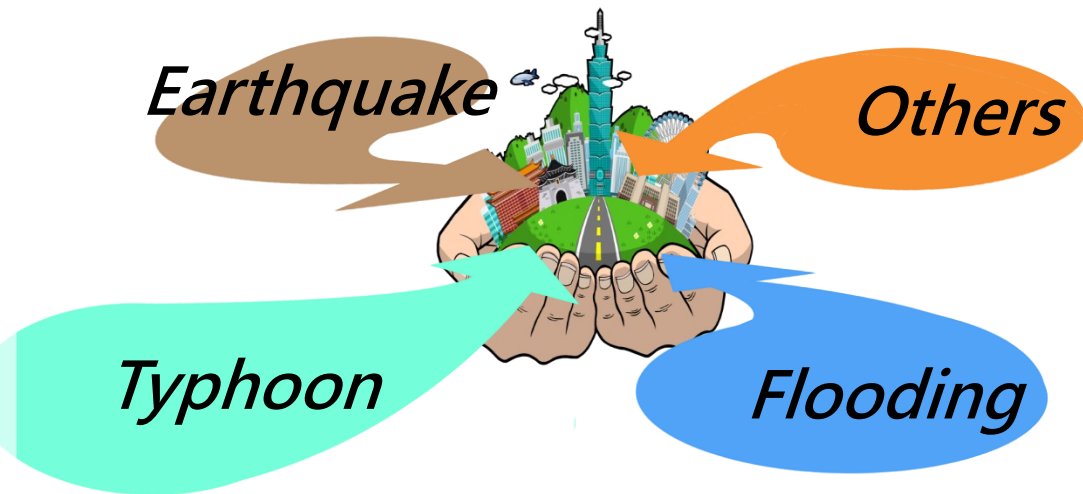
Conclusion and Outlook





Hazards

Taipei City is located in a Basin. The city is surrounded by the Xindian River, Danshui River, Keelung River, and Jingmei River traverse. The total rainfall during the wet season from May to October accounts for 62% of the total rainfall per year, which makes Taipei City susceptible to **flooding**. Taipei city is affected by an average of **3 to 4 typhoons** every year. In addition to the strong winds causing signs to fall, trees to fall over, and major flooding due to the amount of rainfall the city receives. Meanwhile, Taiwan is located at the junction of the Eurasia plate and the Philippine Sea plate in the Pacific Ocean. It is one of the most earthquake-prone areas in the world, so Taipei city is inevitably invaded by the **earthquake**.





Hazards



270萬 人口



271 平方公里

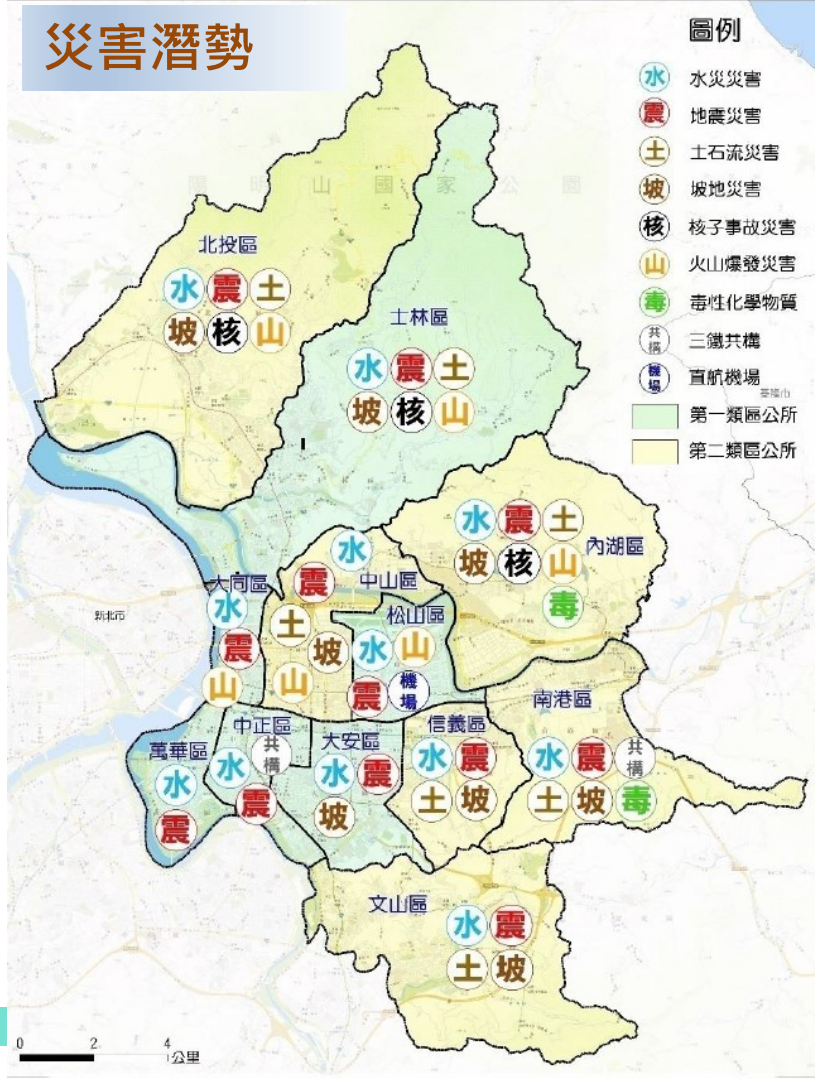


12個 行政區劃



臺北市政府

災害潛勢





Response System

防災重於救災
離災優於防災

臺北市災害應變中心
Emergency Operations Center Of Taipei City

Taipei City EOC

Inter-agency Coordination Decision Making and

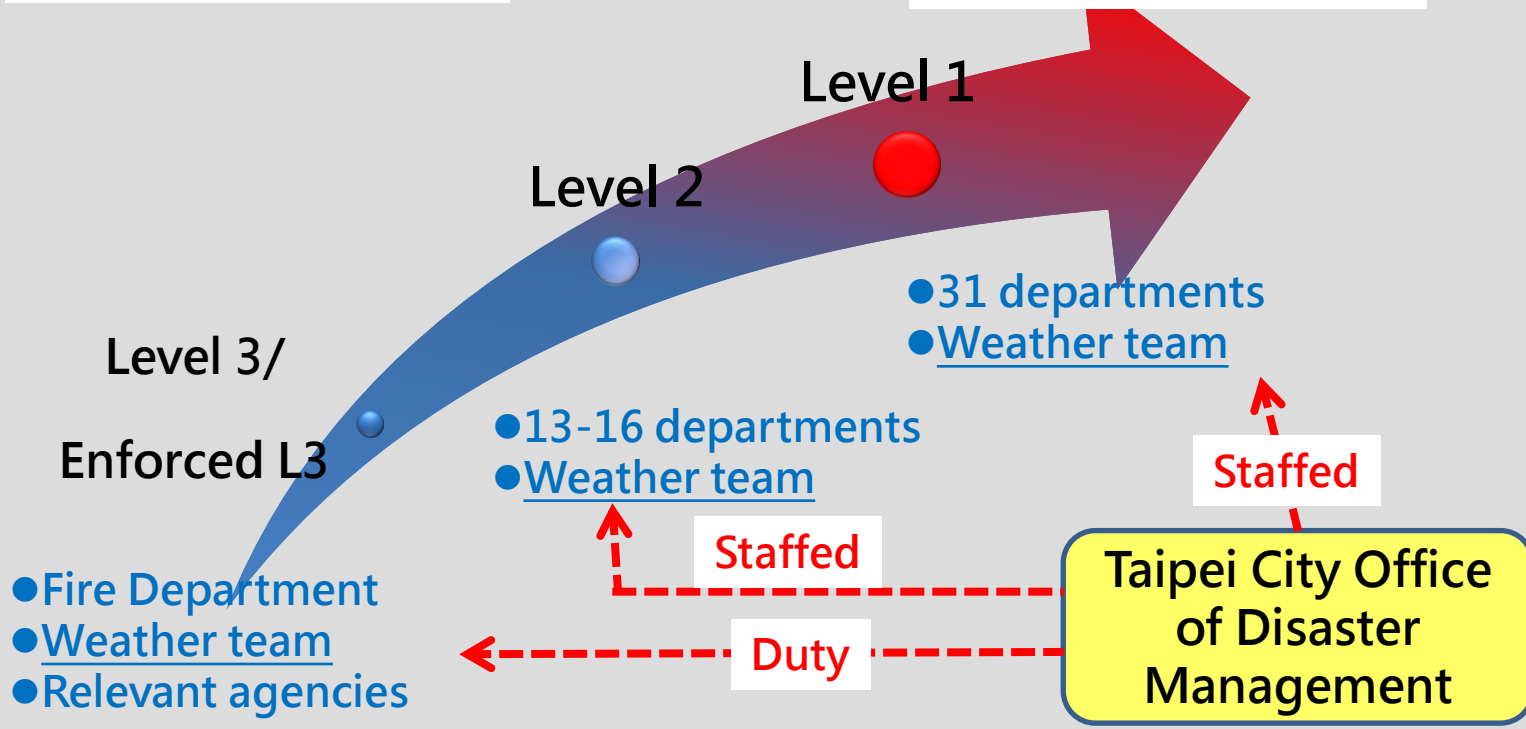


Response System

EOC Activation for Flooding

Normal operation

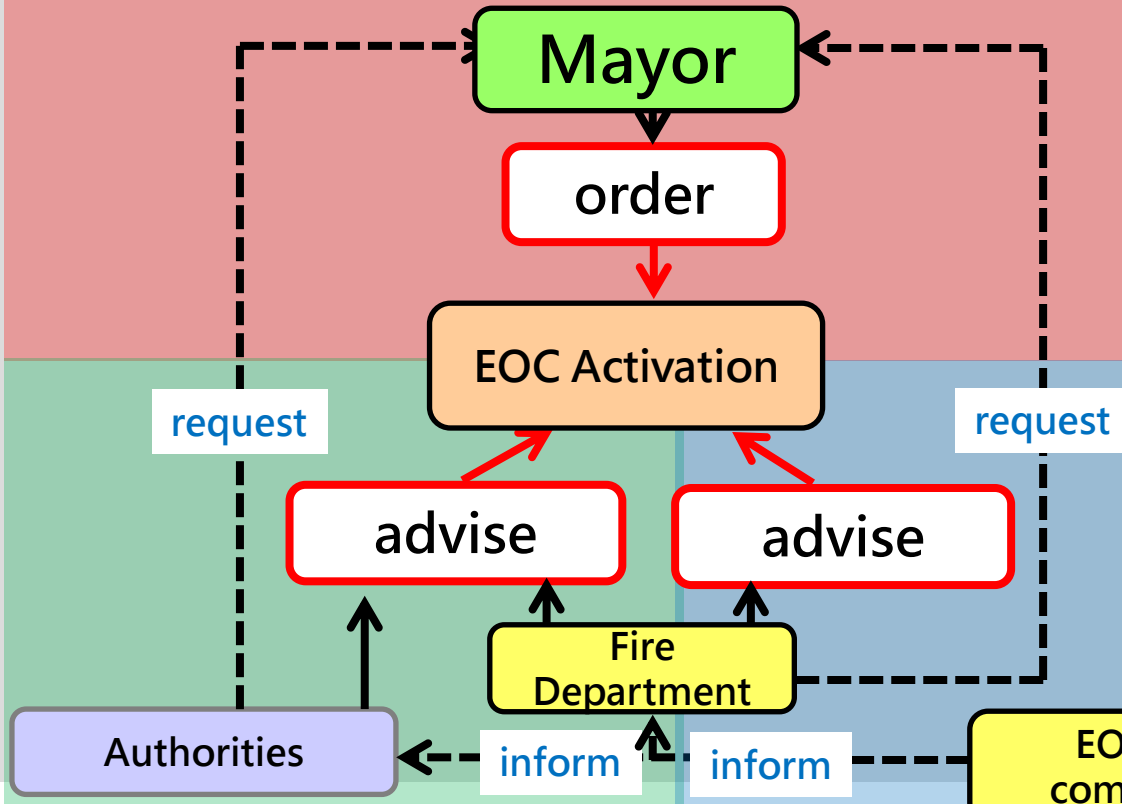
Disaster operation





Response System

EOC Operation for Level 1&2



Procedures

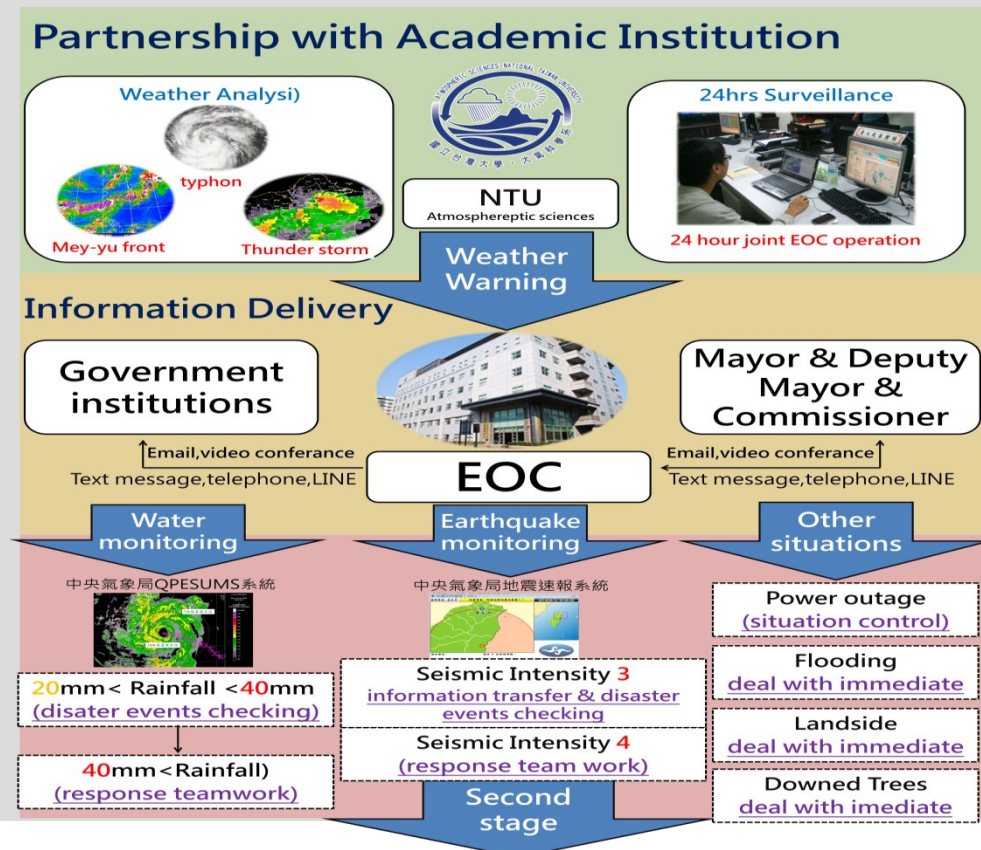
- Fire Department or authorities request the mayor for EOC operation in specific disaster situation
- Fire Department informs relevant agencies to join
- EOC is responsible for incidents



Response System

EOC Operation – Level 3 (Watch)

- *Monitoring potential disasters affecting city*
- *Watching weather, collecting local and national news*
- *Notifying disasters*





Heavy Rainfall Warning and Response

Photo By Jeff @ Taipei





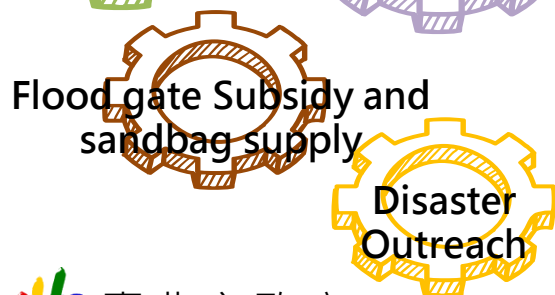
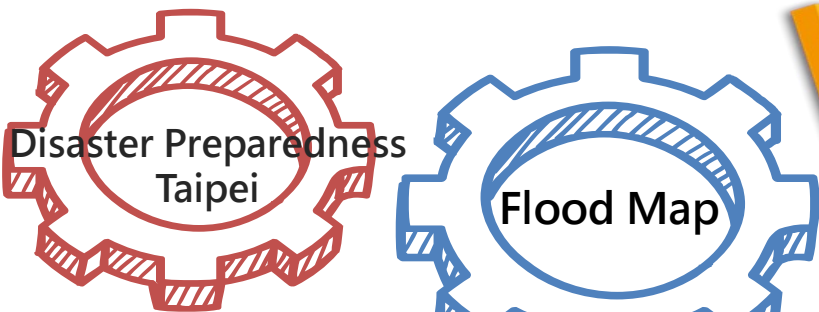
Heavy Rainfall Warning and Response -Heavy Rainfall Prevention Plan

The government adopted the "establishment of a joint disaster prevention cooperation model between the city government and the citizens" and formulated the "Heavy Rainfall Prevention and Mitigation Plan":

- Plan short, medium and long-term improvement projects
- Three stages of preparation before the disaster (**before the rain**), response during the disaster (**during the rain**), and recovery after the disaster (**after the rain stopped**)
- Establish **disaster notification, disaster rescue and post-disaster recovery** teams to quickly start various emergency response and recovery work



Heavy Rainfall Warning and Response-Mitigation



聰明防颱大作戰

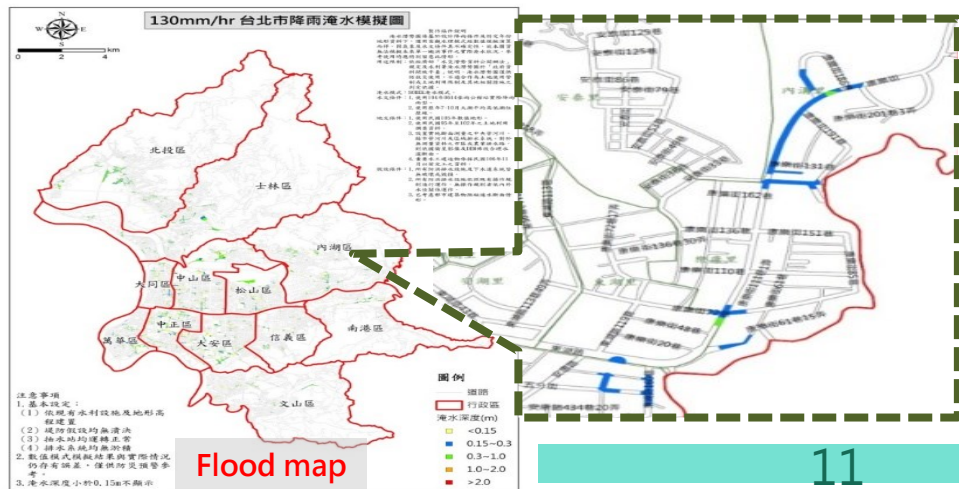


待在家裡最安全

- 隨時注意最新氣象資訊
- 無特殊必要，勿涉險外出

緊急情況配合疏散撤離

- 若位於地震地區且有淹水的可能性，建議先往高處遷徙或暫住親戚朋友家
- 若為山坡地或土石易崩落之處，緊急情況務必配合政府「預防性疏散撤離」



臺北市政府

Flood map



Heavy Rainfall Warning and Response-Mitigation

Taipei City Disaster Prevention APP



Rainfall info 雨量資訊

行政區	雨量站	累積時間	累積雨量(mm)
北投區	鞍部	24小時雨量	9.5
士林區	擎天	24小時雨量	9.5
士林區	溪山	24小時雨量	6
北投區	油坑	24小時雨量	4.5
北投區	竹湖	24小時雨量	3
士林區	青山	24小時雨量	1.5
士林區	竹子湖	24小時雨量	1
北投區	竹子湖	24小時雨量	1
士林區	平等國小	24小時雨量	0.5
南港區	舊莊	24小時雨量	0.5
南港區	九如	24小時雨量	0.5
大安區	公館	24小時雨量	0

正常 大雨 豪雨 大豪雨 超大豪雨

Evacuation info 避難資訊

名稱: 吳興街281巷朝興街前進
 電話: 02-2720-0226轉50
 地址: 臺北市信義區松仁路228號
 本資料更新頻率為3小時/次

參考路徑規劃方向
 註: 此路徑僅供參考, 請依實際災況規劃

1. 往東走吳興街281巷朝吳興街前進
2. 於吳興街向右轉
3. 在第2個路口向左轉, 走吳興街365巷
4. 於松仁路向右轉目的地在右邊

Flood info



LINE 加入好友



北市府LINE官方帳號「水情訊息」服務





Heavy Rainfall Warning and Response-Mitigation

- **Disaster Relief Volunteer** : Learning from Japan, department of civil affairs and fire department cooperate and train Taipei City Disaster Relief Volunteer.
 - ✓ Normal task: assist the public sector to jointly conduct disaster prevention and relief publicity
 - ✓ Disaster task: Assist the public sector and the private sector to communicate and establish communication channels, which is conducive to the transmission of information and increases the efficiency of disaster prevention and relief
- **Autonomous disaster prevention in flooded communities**: Combining the concept of "resilient communities", disaster relief volunteer will be promoted in the community and participate in relevant training according to the "Key Points of Disaster Prevention Training and Certification Management" to improve the city's response capability to floods, typhoon and other disasters.





Heavy Rainfall Warning and Response- Preparedness and Response

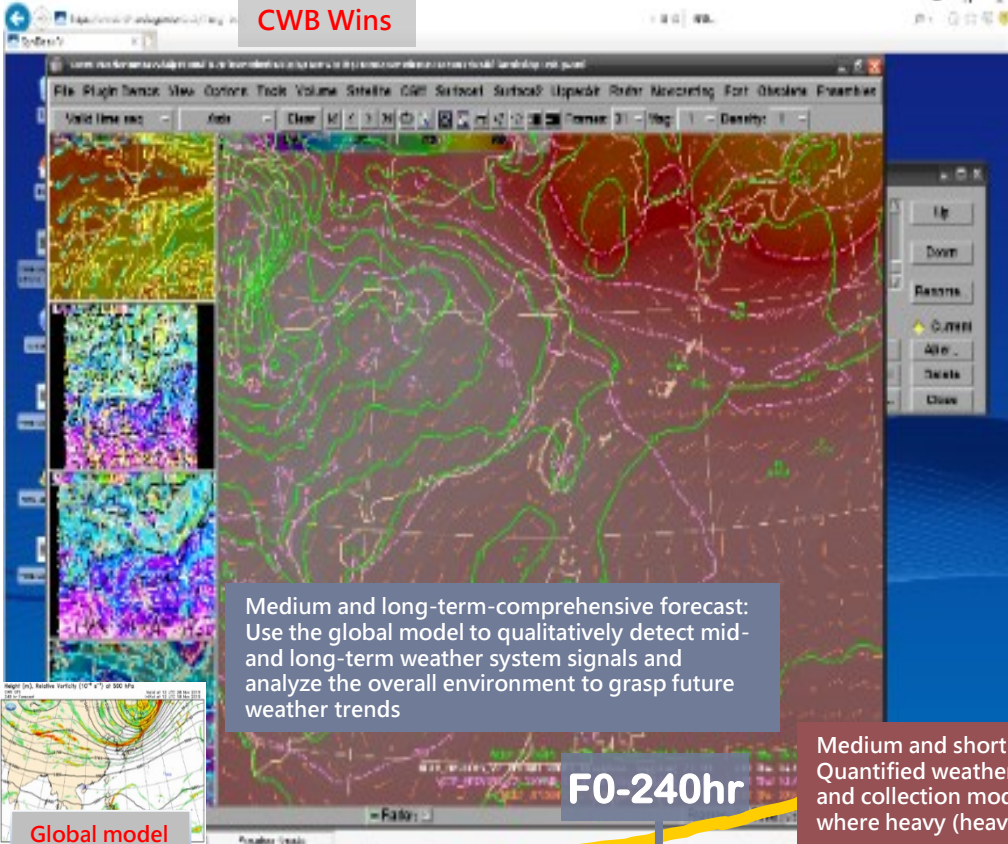
Academic institutions cooperate to improve the effectiveness of severe weather warning





Heavy Rainfall Warning and Response- Preparedness and Response

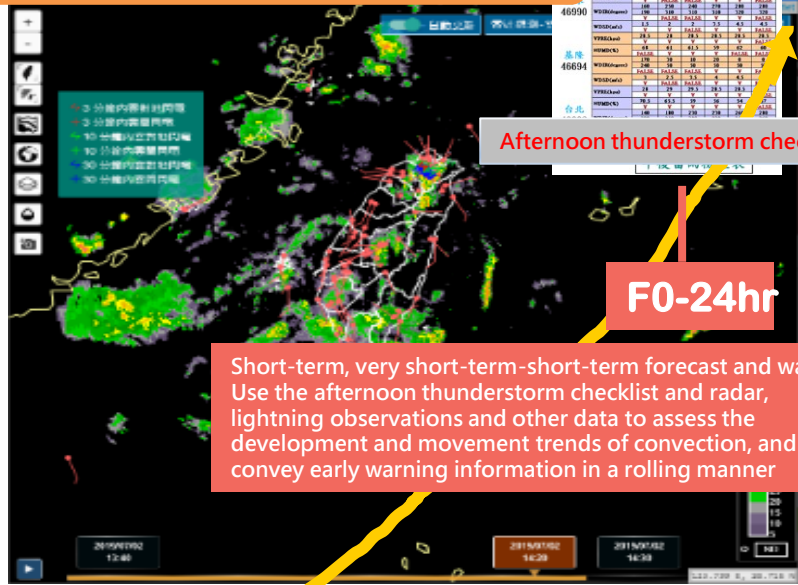
CWB Wins



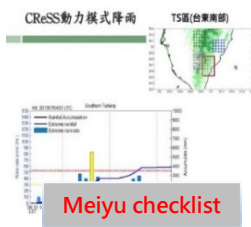
Medium and long-term-comprehensive forecast:
Use the global model to qualitatively detect mid- and long-term weather system signals and analyze the overall environment to grasp future weather trends

F0-240hr

Medium and short term-quantitative trend forecast:
Quantified weather information of reference area and collection model and assessment of areas where heavy (heavy) rain may occur



F0-72hr





Heavy Rainfall Warning and Response- Preparedness and Response

Weather Analysis

Typhoon
Meiyu front
Thunderstorm

NTU Weather Team

Real-time and correct weather info



Taipei City EOC

Participation and Watch

Participate in Level 3 EOC for 24 hours from April to October

Rainfall info Line group

EMIC message

Citizens registered on the rainfall information service platform

LINE 簡訊

Departments responsible for disaster prevention

Mail

email

phone

Telephone consultation

Video consultation



Heavy Rainfall Warning and Response- Preparedness and Response

Government response measures

Notification

- Disaster investigation and report

- Disaster rescue operations
- Traffic control in flooded areas

- EOC activation and operation
- Evacuation

Citizens cooperate in disaster prevention

- Assist side ditch clearing
- Erection of protective facilities such as flood gates

- Assist in disaster report

- Familiar with and cooperate with emergency evacuation

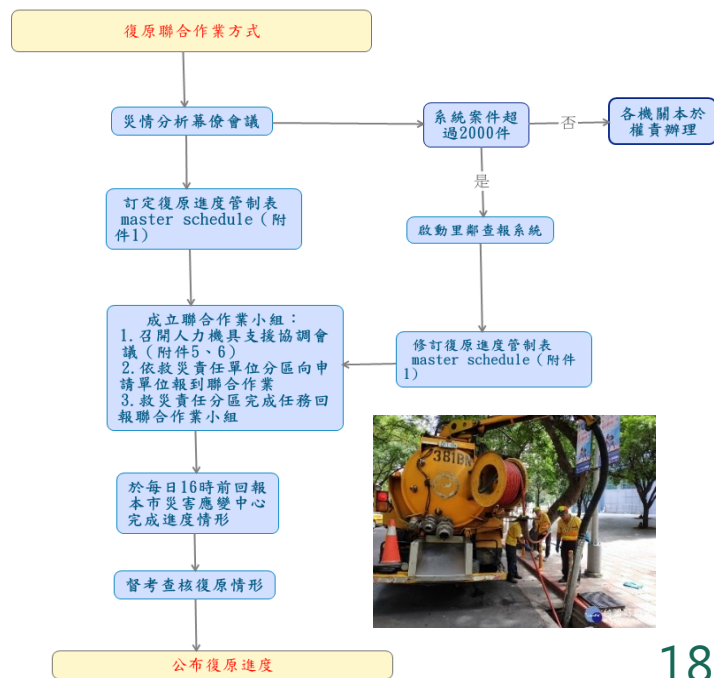




Heavy Rainfall Warning and Response- Recovery

The government has established a post-disaster review procedure for 8 parts including **initiation of review operations, collection of problems, confirmation of problems, formulation of countermeasures, review meetings, completion reports, follow-up management and examination, and personnel rewards and punishments**, which will be initiated after the completion of the post-disaster recovery task and write a review report to fully record the response process and review results.

In order to speed up the city's post-disaster recovery, the government mobilize the city's disaster prevention and relief units, public utility-related units, civil relief organizations, and the national army to form a joint operation team to actively assist the affected people in returning to their daily lives and city appearance as soon as possible.





Conclusion & Outlook



Conclusion and Outlook

A better and safer Taipei City

When faced with floods, engineering methods are often used to deal with them, but their protection capabilities are limited, and they are often impacted by extreme weather in recent years, and their methods are no longer sufficient to deal with them.

Although the invasion of natural disasters cannot be avoided, it is possible to continuously strengthen the monitoring, early warning and emergency response energy of the potential of Taiwan flood disasters, and to promote the public to face the disaster prevention and rescue, and to enhance the autonomous disaster prevention awareness and community disaster prevention capabilities. Communities work together to reduce losses caused by disasters and restore urban functions as soon as possible to make Taipei a safe city that is livable and sustainable.



Thank you for listening!

宜居Livability

永續Sustainability

耐災韌性Disaster Resilience



TAIPEI 臺北市政府