

# 行政院公共工程委員會 Public Construction Commission (PCC) Executive Yuan



May 17, 2021

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# I. 本會簡介 / PCC Overview

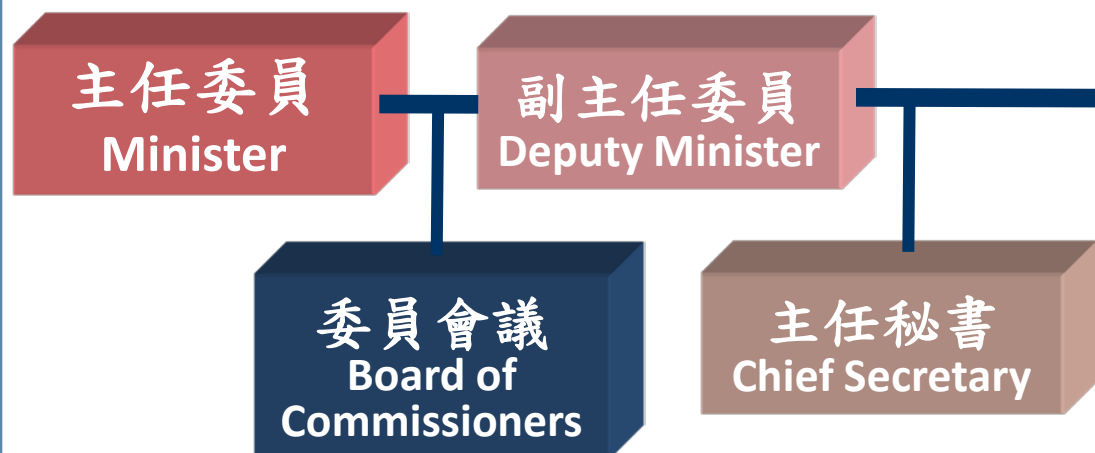
## i. 關於本會 / About PCC

- 行政院公共工程委員會為行政院所屬機關，與部同級。
- PCC is an entity equal to a ministry under the cabinet.
- 行政院公共工程委員會統籌全國公共工程之規劃、審議、協調及督導。
- PCC takes the responsibilities of planning, reviewing, coordination, and supervision for public construction projects as a whole in Taiwan.



# I. 本會簡介/PCC Overview

## ii. 組織架構 / Organization



## I. 本會簡介 / PCC Overview

### iii. 主管法令及主要業務 / Laws and Major Functions

- 政府採購法 / Government Procurement Act
- 技師法 / Professional Engineers Act
- 工程技術顧問公司管理條例 / Act Governing the Administration of Professional Engineering Consulting Firms
- 上述法令之施行細則及相關規定 / Rules and Regulations of the Aforementioned Acts





## II. 政府採購 / Government Procurement

### i. 政府採購法 / Government Procurement Act

- 生效日：1999年5月27日
- Effective Date: May 27, 1999
- 政府採購法符合世界貿易組織(WTO)政府採購協定(GPA)規定
- In consistent with the WTO Agreement on Government Procurement (GPA)
- 我國於2009年7月15日正式成為GPA的第41個會員，與GPA會員相互開放政府採購市場。
- Taiwan has become the 41st member to the GPA since July 15, 2009, and mutually opened government procurement market with other GPA members.



## II. 政府採購 / Government Procurement

### ii. 政府採購法規 / Government Procurement Laws and Regulations

- 政府採購法明定招標、決標、履約管理、驗收及爭議處理之規定，使機關辦理採購有所依循，其中並包括採購人員倫理準則等反貪腐機制。工程會訂頒各種招標文件範本供各機關參考利用。
- Government Procurement Act prescribes the rules of invitation to tender, award of contracts, administration of contract performance, inspection and acceptance, and dispute settlement, for government entities to follow. It incorporates some anti-corruption measures, including the ethics regulation for the procurement personnel. PCC has issued various model documentation as the reference for procuring entities.

## II. 政府採購 / Government Procurement

### iii. 政府電子採購網 / GEPS (Government E-Procurement System)

- 推動政府採購電子化，提供機關及廠商辦理政府採購業務之電子化單一窗口，促進採購資訊公開化、透明化，平均每年超過18萬件決標案件資料。
- Provide single website e-procurement service for government entities and suppliers to enhance the openness and transparency of procurement information. In average, the number of awarded cases exceeds 180 thousand per year.
- 機關提供電子領標案件比率逾99%，廠商24小時均可經由政府電子採購網電子領標，平均每案約4家廠商上網領標。
- The ratio of cases providing e-tender documentation was more than 99%. Suppliers may download e-tender documentation from website. In average, each tender is downloaded by 4 suppliers.



## II. 政府採購 / Government Procurement

### iv. 採購稽核監督 / Monitoring and Supervisory Functions in GP

- 稽核監督助於導正機關不當之採購行為，減少採購缺失，促使各機關確實依法辦理採購。
- Monitoring and supervision help correct inappropriate procurement behaviors, reduce procurement defects, and encourage entities to abide by the laws faithfully when conducting procurement.
- 全國共設有38個採購稽核小組，包括15個部會署、22個地方政府及工程會中央採購稽核小組。
- There are 38 procurement supervision units in Taiwan: 15 units under central government entities; 22 units under local governments; and the Central Procurement Supervision Unit, PCC.

## II. 政府採購 / Government Procurement

### v. 營造公平合理的採購環境 / Build A Fair and Reasonable Procurement Environment

- 為協助機關擇定合宜之決標方式，以提升採購之效率、功能及品質，訂定「政府採購之決標方式參考原則」，供機關實務作業參考。
- In order to assist entities in selecting appropriate awarding methods and promote the efficiency, effectiveness and quality of procurement, PCC has promulgated the “Reference Principles for Awarding Methods of Government Procurement”, providing practical references for entities.

## III. 工程技術 / Technology

### i. 工程產業國內實績案例 / Engineering Industry Domestic Case

- 臺灣的營造業及工程技術服務業具國際一流水準。
- Taiwan reaches international level in the construction industry and professional engineering service.



Taiwan High Speed Rail



Mass Rapid Transit



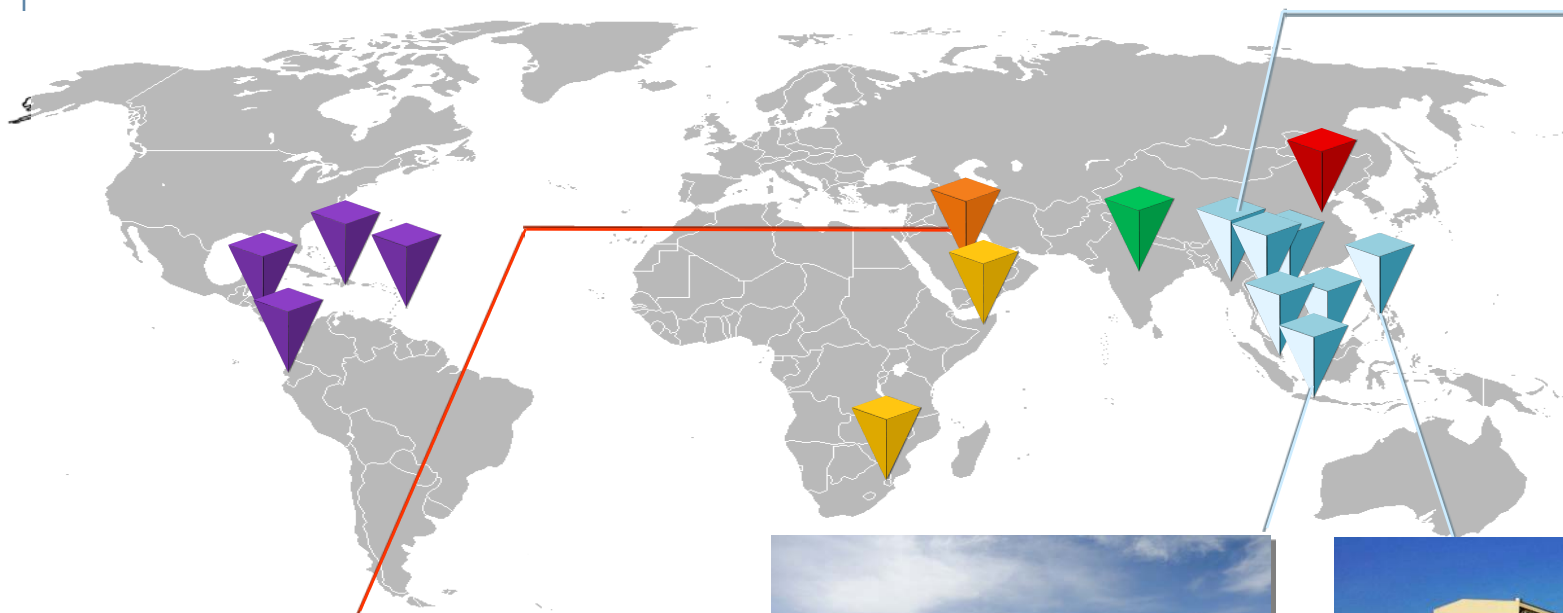
Freeway



Taipei 101

## III. 工程技術 / Technology

### ii. 工程產業海外實績案例 / Engineering Industry Foreign Cases



**Myanmar :**  
M Tower design  
review,  
construction  
supervision



**Qatar :** Petrochemical Plant EPC  
Project



**Indonesia :** Highway  
Supervision Program



**Philippines :** Power Plant  
EPC Turnkey



## III. 工程技術 / Technology

### iii. 工程技術服務業之監管 / Administration of Professional Engineering Sector

#### ➤ 產業概況 / Sector Overview

Year 2019

	家數 Firm	技師數 PE	總人數 Staff	年產值(十億元) Annual Revenue (billion)
工程技術顧問公司/ PE consulting firms	1,200	3,016	24,310	71.27
技師事務所/ PE offices	1,232	1,277	2,604	2.83
合計/ total	2,432	4,293	26,914	74.1

#### ➤ 業務重點 / Main Responsibilities

- (i) 許可及登記 / Permission and Registration
- (ii) 教育訓練 / Educational Training
- (iii) 工程倫理 / Ethics of Engineers
- (iv) 輔導及獎懲 / Guidance, Rewards & Penalties



### III. 工程技術 / Technology

#### iv. 工程技術及經費審議 / Conducting Technical and Budgetary Reviews of Public Construction Programs

- 中央各機關辦理重大公共工程計畫，須提送基本設計階段圖說予本會審議。
- When conducting major public construction projects, central government entities shall submit drawings of basic design phase to PCC for review.
- 審議重點：政策一致性、技術可行性、節能減碳措施、經費合理性等。
- Main reviewing items: policy consistency, technical feasibility, carbon reduction and energy saving measures, and reasonability of budget.
- 每年審議數量約400件，節省經費約200億元。
- PCC reviews approximately 400 construction projects per year and saves about NT\$ 20 billion on the budget.

### III. 工程技術 / Technology

#### v. 鼓勵創新及建立施工綱要規範 / Encouraging Innovation and Establishing Construction Specifications

- 蒐集公共工程運用之新材料、技術及工法，鼓勵機關透過政府採購法機制納入創新，提升公共工程品質與效益。
- Collect information on new construction materials, technologies and methods used in public construction projects to encourage innovation via government procurement process and improve the quality and efficiency of public construction.
- 為整合劃一全國工程施工規範，建立施工綱要規範，提供標準架構及綱要性內容，作為規劃設計參考並提升工程品質。
- Establish the public construction guide specifications, including framework and outlines to unify construction specifications in Taiwan. These specifications are used as the reference for designing and promoting the quality of construction.

### III. 工程技術 / Technology

#### vi. 推動循環經濟運用於公共工程 / Promote circular economy through infrastructure projects

- 推動循環經濟政策，協助產業發展，兼顧環境及工程品質。
- Promote circular economy policy to both assist industrial development and take into account the environment and engineering quality.
- 煉鋼轉爐石應用於瀝青混凝土鋪面，預估使用量已大幅提升。
- Encourage the use of steel slag in asphalt concrete pavements. The usage of steel slag has increased significantly in estimation.
- 垃圾焚化爐底渣應用於控制性低強度混凝土材料或道路基底層，不僅節省工程經費，亦有助於環境永續。
- Encourage the use of incinerator bottom ash in CLSM or road construction (subbase course/ base course) to not only save construction cost, but also contribute to environmental sustainability.

## IV. 工程管理 / Construction Management

### i. 公共工程標案管理資訊系統 / Public Construction Management Information System

- 為因應全國各機關每年約三萬件公共工程，本會於2001年自行開發公共工程標案管理系統，目前已累積近60.85萬筆公共工程標案資料。
- In response to the demand in managing around 30,000 cases of public constructions on a nationwide scale per year, PCC established the public construction management information system in 2001. Presently, there are more than 608,500 public construction cases in the database.

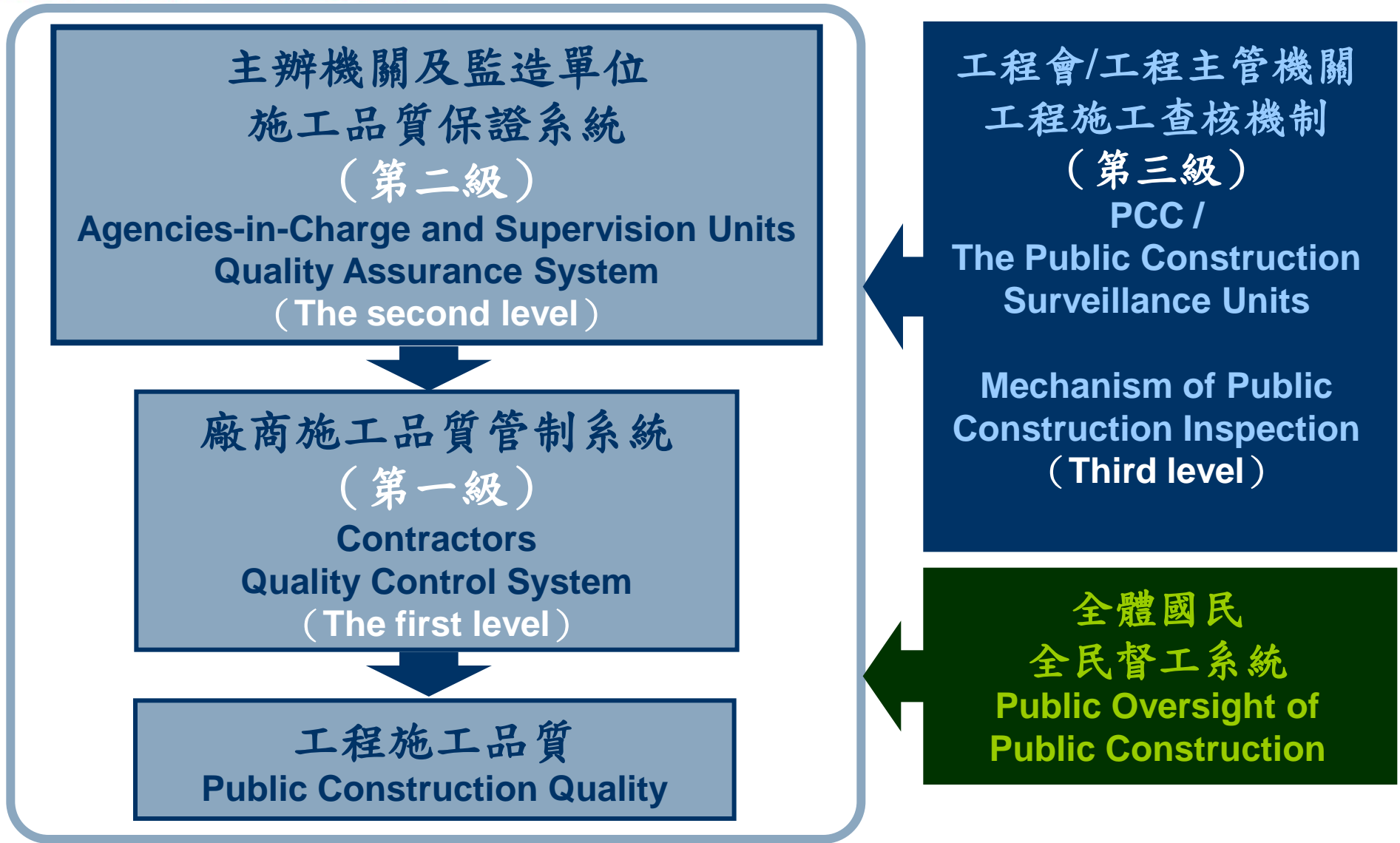


## IV. 工程管理 / Construction Management

### ii. 公共工程施工品質管理制度 / Public Construction Quality Management System

- 公共工程三級施工品質管理制度，建立主管機關、主辦機關(含監造單位)及施工廠商權責事項。
- The 3-level quality management system covers the responsibilities of competent authorities, procuring entities (including construction supervision unit) and contractors respectively.
- 施工廠商負責品質管制系統、主辦機關及監造單位負責品質保證系統及主管機關負責施工查核機制。
- Contractors are responsible for quality control system. Procuring entities and supervision units are responsible for quality assurance system. Authorities are in charge of the mechanism of Public Construction Inspection.





公共工程品質管理示意圖

## IV. 工程管理 / Construction Management

### iii. 公共工程施工查核機制 / The mechanism of Public Construction Inspection

- 為確保公共工程品質，工程會依「政府採購法」規定，要求中央及地方機關成立工程施工查核小組。
- In order to ensure the quality of public construction, central and local governments establish construction surveillance units pursuant to the Government Procurement Act.
- 目前全國有49個查核小組，定期查核所屬工程進度與品質，每年約查核4,200件工程。
- Currently, there are 49 surveillance units nationwide, which regularly inspect the progress and quality of public constructions. There are approximately 4,200 cases inspected per year.



## IV. 工程管理 / Construction Management

### iv. 公共建設督導會報 / Public Construction Supervisory Task Force

- 成立跨部會「公共建設督導會報」，每月召開會議，檢討各項列管計畫執行情形，協助排除困難問題，促使各機關提升執行效率。
- PCC has established a monthly convening inter-ministry "Public Construction Supervisory Task Force," reviewing the implementation status of all monitored projects to assist in eliminating difficulties and to enhance the operating efficiency of agencies.



## V. 爭議處理 / Procurement Settlement

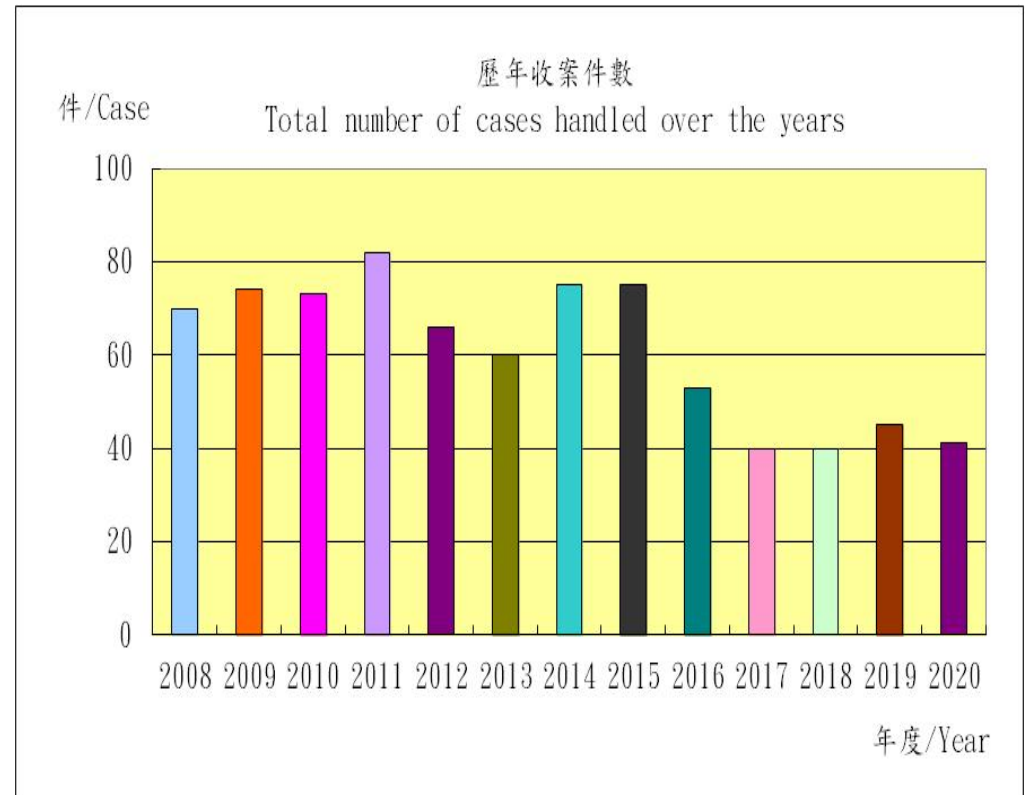
### 履約爭議處理 / Dispute Settlement of Government Procurement

- 成立申訴會，處理政府採購申訴及履約爭議調解，以快速有效解決政府採購爭議，並提升政府採購效益。
- CRBGP (Complaint Review Board for Government Procurement) was established to deal with complaints and contract dispute mediation effectively and efficiently and improve government procurement performance.
- 除工程會外，各直轄市及花蓮縣政府亦設置申訴會處理上述爭議。
- In addition to PCC, the complaint review board is also established under each Municipal Government and Hualien County Government.

## VI.技術鑑定 / Technique Corroboration

### 重要措施 / Major Measures

- 接受司法機關對需為工程技術鑑定之公共工程案件，提供專業鑑定意見，解決公共工程爭議。
- Provide technique corroboration of public construction upon the requests from judicial authorities to settle public construction disputes.





## VII. 結語 / Conclusion

在日新月異的年代，  
精益求精是公共工程委員會不變的方向，  
也因為不斷的改革、轉變，  
讓流程簡化、效能提升，  
使臺灣未來的競爭力更強。

In a time of rapid change,  
PCC continues to seek advancements.  
Our ongoing efforts in reforming and conforming to trends  
enable to simplify procedures, improve performance,  
and hence strengthen Taiwan's competitiveness in the future.



Thank you !

