

出國報告（出國類別：其他）

參加亞洲開發銀行「2021年回合國際比較計畫（ICP）」之2021年會議
綜合報告(視訊報告)

服務機關：行政院主計總處

姓名職稱：林研究員冠宏

派赴國家：菲律賓（受 COVID-19 疫情影響改以
派員於國內參加線上視訊會議）

出國期間：110年4月7日至12月15日

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摘 要

世界各國物價水準以及生活成本(Cost of Living)之比較一直是各跨國組織進行資源配置以及各項重要決策所不可或缺的參酌資訊(如貧窮線[Poverty Line])。惟以匯率換算各國國內生產毛額(Gross Domestic Product, GDP)的方式,因匯率波動無法真實反映貨幣之購買力,致換算結果亦難真實反映各國經濟實際概況。

為能更客觀地比較各國物價及經濟概況,購買力平價(Purchasing Power Parity, PPP)的編算以及購買力平價國際比較計畫(International Comparison Program, ICP)逐漸受到重視。聯合國自1968年發起此計畫,並委由世界銀行(World Bank, 後簡稱世銀)主持,從一開始單純的學術研究活動,逐步發展為常態性的全球統計計畫,目前全球分為8個區域,包括我國所屬之亞太,以及非洲、拉丁美洲、加勒比海地區、獨立國協、西亞、太平洋諸島與OECD/歐盟等共同執行,共約200個經濟體為參與成員,編算結果可用以換算各國之GDP,以比較與衡量區域內以及跨區域各國經濟相對發展狀況。

ICP前6個回合我國並未獲邀參加,自第7(2005年)回合開始,因亞洲開發銀行(Asian Development Bank, ADB, 後簡稱亞銀)受主辦方世銀委託成為亞太地區的ICP統籌負責機構(Regional Implementing Agency),而我國以亞銀會員國參與此全球統計盛事,至今已邁入第4個基準年回合。

受COVID-19疫情影響,亞銀與參與國商討後決議,將原訂3年1期的2020年回合延後1年,改為2021年回合,另全球疫情反覆,亞銀將2021年所有實體會議改為線上視訊會議,本總處負責我國統計資料之提供,前述會議全數參加。本報告綜整我國參與2021年亞銀辦理2021年回合ICP第2~9次線上討論會議(4/7~4/8、4/21~4/22、6/22~6/25、7/6~7/8、10/25~10/28、11/16~11/17、11/24~11/25及12/13~12/15)之重點。

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壹、參加緣由及目的

購買力平價 (Purchasing Power Parity, PPP) 可用以衡量不同貨幣的實質購買力，以進行各項重要經濟指標，如 GDP 等之國際比較。而國際比較計畫 (International Comparison Program, ICP) 則是為產製購買力平價，由聯合國統計委員會 (United Nations Statistical Commission) 統籌、世銀主持、近 200 個經濟體¹在內之各地區 (region) 參與的常川性國際統計活動。

我國屬於亞太地區 (Asia and Pacific Region) 經濟體，自 2005 年回合開始獲邀參與 ICP，迄今已參與包括 2005、2011 以及 2017 年 3 個基準年回合，以及 2009 與 2015-16 年亞太地區自行舉辦之 2 個非基準年回合。自 2017 年回合起，ICP 在亞太地區漸入軌道，同時也為了能跟其他地區如歐洲、美洲等已開發國家經濟體相比，世銀將亞太地區 ICP 舉辦間距由每 6 年一次縮短為每 3 年一次。本回合若按原定計畫應於 2020 年舉行，惟受 COVID-19 疫情影響，順延一年，改訂為 2021 年回合²。然而全球疫情反覆，亞銀基於諸多考量，於 2020 年底召開第 1 次線上區域研討會³，並於會上表示，2021 年以視訊研討會 (virtual workshop) 為主。

往年因 ICP 議程常逢我國各月辦理物價統計作業之高峰期，故僅派員參加日程較長或較為重要之研討會 (如家庭消費財各季檢討)，餘則以電子郵件或電聯等方式溝通。2021 年因 ICP 全數會議改採線上視訊辦理，免去與會人員須請多日公假出國之狀況，故亞銀鼓勵各國積極派員出席，我國亦全程出席所有會議，本報告係綜整參與 2021 年線上視訊會議之重點。

¹ 2018-Q1, ICP Newsletter, World Bank, <https://mailchi.mp/e05a330bca23/international-comparison-program-quarterly-update-1392861?e=f449f3ae3c>

² 2021 Dec, ICP Highlights, Issue 49, World Bank, <https://us10.campaign-archive.com/?u=743031b61a79359529362d6cc&id=1ad3c8ab70>；參與本回合亞太地區 ICP 共 21 個經濟體，包括我國、孟加拉、不丹、汶萊、柬埔寨、中國大陸、斐濟、香港、印度、印尼、寮國、馬來西亞、馬爾地夫、蒙古、尼泊爾、巴基斯坦、菲律賓、新加坡、斯里蘭卡、泰國及越南。

³ 第 1 次線上區域研討會於 2020 年 12 月 2 日舉行，為 ICP 前置作業說明會，不納入本報告。

貳、2021年亞太地區線上研討會議日程

第2次區域研討會（2021年4月7日~4月8日）

第3次區域研討會（2021年4月21日~4月22日）

第4次區域研討會（2021年6月22日~6月23日、6月25日）

第5次區域研討會（2021年7月6日~7月8日）

第6次區域研討會（2021年10月25日~10月26日、10月28日）

第7次區域研討會（2021年11月16日~11月17日）

第8次區域研討會（2021年11月24日~11月25日）

第9次區域研討會（2021年12月13日~12月15日）

參、各會議過程摘要報告

一、第 2 次區域研討會（2021 年 4 月 7 日~4 月 8 日）

本次會議主題為營造工程物價，主要係亞銀說明 ICP 中營造工程物價之查價概念及注意事項，及回復各國對於查價項目之提問（如可否透過仲介或中盤商查價等），並回顧上（2017 年）回合營造工程物價重要成果以及經驗傳承。

因營造工程物價分為住宅、非住宅及公共建設三大類，各大類再細分為原物料、設備租用及勞務類等三中類，加上查價項目較專業，故亞銀請世銀專家為各國與會者說明查價之注意事項：如選查規格中，原物料計價單位換算問題；租賃設備報價應含強制稅（無法免除之稅目，如營業稅）及運費，以反映使用此設備時的實際支付；勞務類報價應含強制險等。

二、第 3 次區域研討會（2021 年 4 月 21 日~4 月 22 日）

本次會議亞銀說明家庭消費財之經濟體內檢核要點及房屋租金查價事項，並介紹 APSS (Asia Pacific Software Suite，亞太地區軟體套件) 報價系統。

因多數國家尚未進行本回合家庭消費財之查價作業（截至開會時點，包含我國僅 12 個國家開始查價），加上部分國家之 ICP 團隊有新成員加入，亞銀爰就各國經濟體內查價注意事項（如選樣、人為疏失等常見錯誤）及資料檢核條件（如查價樣本數應大於 15、最小最大比值 (MMR, Min-to-Max Ratio) 大於 0.3 等）逐一說明。

房屋租金查價事項說明部分，亞銀介紹進行亞太地區各國住宅服務購買力比較所面臨的挑戰，上回合已設計較完整的調查方法及資料清單，除調查實際房屋租金外，另外對房屋量指數 (Housing Volume, 如房屋間數、衛浴設備、水電等可量化數值) 進行檢核，惟此法仍有改進空間，本回合在世銀專家建議下，將漸次改善上回合資料檢核方法。最後介紹本回合房屋租金調查指導手冊。

亞銀近年開發 APSS 報價系統，俾利各國提交價格資料與亞銀進行資料彙整，惟系統尚處開發初期，爰於會上請各國使用者提供經驗回饋，以利系統精進。

三、第 4 次區域研討會（2021 年 6 月 22 日~23 日、6 月 25 日）

本次會議主題係討論機械設備物價，主要就上回合成果進行經驗傳承，並說明本回合查價清單之異動。

機械設備分為不含機械及設備之金屬製品 (Fabricated Metal Products, except Machinery and Equipment)、電器與光學設備 (Electrical and Optical Equipment)、一般用途機械器具 (General Purpose Machinery)、特殊用途機械器

具(Special Purpose Machinery)以及陸上交通設備(Road Transport Equipment) 5類。因各國之地域或商業模式差異頗大，亞銀制定查價清單時會分成「指定品牌及型號」(如「柴油起重機-日本豐田」或「筆記型電腦-HP」)及「非指定品牌及型號」，主要是考量當國內無販售指定品牌及型號時，可參考指定品牌的規格，於非指定品牌中選定類似且具代表性產品報價，以避免該查價清單無價格資料可作跨國比較。另為比較各國非指定品牌及型號之項目，亞銀請世銀專家針對查價產品的規格訂出須優先符合的重要規格(Price Determining Characteristic, PDC / important specifications)，作為各國查價準則。

四、第 5 次區域研討會 (2021 年 7 月 6 日~7 月 8 日)

本次會議先針對本回合第 1 季家庭消費財價格做經濟體內 (intra-country) 及跨經濟體 (inter-economy) 檢核。

截至開會時點，亞洲各國受疫情影響程度不一，僅有我國、新加坡、香港、馬來西亞等 12 個國家如期從 2021 年 1 月開始查價作業，印度、越南、中國大陸等 9 個國家資料仍不完整。

亞銀先就各國經濟體內資料做檢討，並補充說明如下：

1. 項目可查性得視各國疫情狀況做調整。
2. 查價項目如屬知名品牌，請各國延續上回合所查之品牌，以確保資料一致性；若無指定品牌，不應查仿冒品或水貨。
3. 旅遊團費及住宿費用等受疫情影響致低需求之項目，應就實際家庭消費情況報價並檢視其價格代表性。

各國再針對本身資料做簡要報告(我國報告部分詳附錄 I)，包含本回合較上回合查價數量差異、無法查價之項目及查價作業上所面臨的困難或挑戰(如馬來西亞為防止疫情擴散進而頒布行動限制令，造成離島查價困難；汶萊因疫情影響商品進口，導致部分民生用品缺貨等)。

最後亞銀參考各國對於查價項目意見討論，決議如下：

1. 第 3 季增查項目：投幣式自助洗衣、高鐵 300 公里單程票 (10 天前購買及 2 個月前購買)、寬頻網路 (201-400Mbps 及 400Mbps 以上之網速)、兩款機車 (Kymco Agility 125 以及 SYM Jet 125)。
2. 修正部分查價項目規格：中型鍋、鐵鎚、水族缸等查價項目因各國所查品質不一，導致價格差異過大，亞銀要求改查非知名品牌；計程車車資拆分為車內是否提供冷氣服務。
3. 停查項目：桌/檯燈 (因此項目在各國都不具代表性)。
4. 針對查價項目規格補充說明，如：駕訓班應以小時為查價單位，而非整個課程；家庭幫傭應查全職而非兼職；影音串流服務 (如 Netflix) 應查最基本單人方案而非家庭式等多人方案等。

五、第 6 次區域研討會（2021 年 10 月 25 日~26 日、10 月 28 日）

本次會議針對本回合上半年家庭消費財價格做跨經濟體檢討，亞銀檢核各國提交資料後進行提問，會中亦請少數國家報告在疫情影響下進行 ICP 查價作業所面臨之挑戰與應對方法（我國報告部分詳附錄 II）。針對我國之提問，及我方代表回復或相應作為如下：

1. 有氧運動中心費用較高之原因：我國依市場行情報價。
2. 國際包裹郵資偏低之原因：主因我國郵政為國營事業。
3. 我國針對 RT-PCR（COVID-19 核酸檢測）項目並未報價之原因：2021 年 1 月查價時我國尚未爆發本土疫情，民眾對此項目需求極低，故無規劃報價，惟會後經討論認為現在代表性較高，故改為報價。

此外，亞銀提醒部分項目查價規格（如毛毯地墊類係以平方公尺為查價單位等）；另因應疫情，各國餐飲業大多改為外帶餐點，甚至禁止內用，亞銀建議原查價內用的項目，可改報外帶價格。

六、第 7 次區域研討會（2021 年 11 月 16 日~11 月 17 日）

本次會議主題係房屋租金價格之跨經濟體檢討及初步檢討房屋量指數。

受疫情影響查價進度，本次僅包含我國共計 10 國提交房屋租金資料。我國提交資料皆屬合理範圍內。另房屋量指數部分，亞銀請來世銀專家說明房屋量指數蒐集目的，期能透過房屋量指數資訊來了解各國房租存有落差之原因。然本次會議世銀尚未決定房屋量指數之參考指標，將於日後決定相關特性清單後，屆時再請各國協助調查。

七、第 8 次區域研討會（2021 年 11 月 24 日~11 月 25 日）

本次會議主題係營造工程物價之跨經濟體檢討。我國所提交資料因均屬合理範圍，亞銀會中並無特別詢問。

本次會議有世銀專家參與，針對各國因風土民情不同，及營造工程所用之材料、工資及機具設備規格多元，造成物價調查員對查價項目有所誤解而導致查錯價格之狀況，世銀專家希望未來各國盡可能提供查價項目的照片或網址，以利討論時釐清查價正確性。

八、第 9 次區域研討會（2021 年 12 月 13 日~12 月 15 日）

本次會議主題係機械設備物價之跨經濟體檢討。

因各國之地域或商業模式差異頗大，亞銀制定查價清單時會分成「指定品牌及型號」（如「柴油起重機-日本豐田」或「筆記型電腦-HP」）及「非指定品牌及型

號」，主要是考量當國內無販售指定品牌及型號時，可參考指定品牌的規格，於非指定品牌中選定類似且具代表性產品報價，以避免該查價清單無價格資料可作跨國比較。因此「非指定品牌及型號」在跨國比較時差異性較大，亞銀在會中也針對部分「非指定品牌及型號」項目詢及我國，回應如下：

- 1.少數「非指定品牌及型號」項目之重要規格（PDC）未符合亞銀要求，致報價與其他國家有明顯落差：於會上表示將依專家建議，依重要規格之優先順序，重新提報。
- 2.資通產品之「非指定品牌及型號」項目價格高於「指定品牌及型號」項目之原因：亞銀係於 2021 年初制定指定及未指定品牌及型號之規格清單，由於資通產品推陳出新，我國於 7-8 月進行查價、報價作業時，亞銀「指定品牌及型號」項目已是舊款（較低價）產品，「未指定品牌及型號」項目則係我國自行選定符合重要規格（PDC）的新款（較高價）產品報價所致。

由於各國皆有前述第 2 項的狀況，亞銀及世銀專家表示下回合會再評估如何調整改善。


肆、心得及建議

過去 ICP 研討會開會地點係於亞銀選定之國家舉行，各國須派員出席，我國則考量 ICP 開會時程經常逢業務高峰期，因此僅派員出席主要大型會議，如家庭消費財或機械設備物價會議。2021 年回合 ICP 開會方式因應全球疫情全面改以線上視訊會議進行，我國爰參與所有場次會議。亞銀將線上開會時間訂於菲律賓時間中午 12 點至下午 5 點，我國與菲律賓無時差，均能配合，但部分國家的時區則會落於非上班時間（如斐濟是晚上 7 點到午夜 12 點），開會較不便。而各國網路品質不一，時有發生連線中斷或延遲現象。此外，相較於過去實體會議每天開會 8 小時，線上會議表定開會時間僅每天 5 小時，故常有會議延長或議程無法完成之情事。整體來說，線上視訊會議好壞參半，但在疫情期間已是最有效率的集體討論方式。

亞太地區截至 2021 年底仍有部分國家（如印度、巴基斯坦、寮國）因疫情嚴峻而尚未開始查價，預計將延後至 2022 年查價，並以外插法（Extrapolation）推估其 2021 年價格。我國則因防疫得宜，查價作業大致順利，能如期如質提交資料。

職代表本總處全程參與 2021 年之所有亞太地區 ICP 會議，與過去僅出席大型會議之經驗有所不同，更進一步了解亞太地區各國資料的不同層面，並藉由其他國家代表及與會專家之實務分享，進而累積我國參與 ICP 計畫之經驗及學習最新國際統計方法，俾利傳承本總處其他同仁。此外，本回合亞銀正式啟用 APSS 報價系統，職除學習系統及相關操作外，因系統上線之初而有不少問題，導致我國所提交的正確資料經上載後反而出現欄位錯置等錯誤，故職持續將使用者經驗回饋予亞銀，俾利亞銀改善系統，以提升各國交付資料及亞銀彙整與檢核資料之效率。

附錄 I、第5次區域研討會簡報





ADB **ICP** International Comparison Program
for Asia and the Pacific 2021

Session 2 : Country Presentation- Taiwan

Fifth Virtual Regional Workshop
6-8 July 2021

Kuan-Hung Lin
Researcher, Price statistics Section
DGBAS, Executive Yuan, R.O.C. (Taiwan)



The views expressed in this document do not necessarily reflect the views and policies of the ADB or its Board of Governors of the government they represent.



Outline of Presentation

2

- I. Introduction
- II. HHC: Progress Report
 - Number of Items Priced by Category
- 2017 vs 2021
 - Frequency of Price Collection
 - Not Applicable Basic Headings
 - Summary Statistics
 - Extrapolation from 2020 to 2021
- III. Challenges and Way Forward





Introduction

Name of Implementing Agency:

**Department of Statistics, DGBAS, Executive Yuan, R.O.C.
(Taiwan)**

Head of Implementing Agency:

Mr. Tsai, Director

Name of National Coordinator

Mr. Tsao, Senior Executive Officer

Name of Deputy National Coordinator

Ms. Lin, Section Chief



Introduction

Team Composition

Household Team

**Ms. Chen, Senior Officer, and
partial members of Price Statistics
Section**

Construction Team

**Mr. Hsu, Senior Officer, and
partial members of Price Statistics
Section**

MEQ Team

**Mr. Lin, Senior Officer, and
partial members of Price Statistics
Section**

National Accounts Team

**Partial members of National
Account Section**



Introduction

Team Composition

Housing Team
Mr. Lee, Officer

Compensation Team
Ms. Liu, Senior Officer

Administrative-Related Focal Persons

Other Teams, if any



Status of Activities as of 30 June 2021

Survey	Regional Schedule	Country Schedule	Status of Price Surveys in the Country
1. HHC	January – December 2021	Jan to Dec 2021	Price collected from January to June
2. CON	June – July 2021	June-July 2021	As scheduled
3. MEQ	July – September 2021	July-Sept 2021	As scheduled
4. Compensation	Q1 2022	Q1 2022	As scheduled
5. Housing-Rental	June and December 2021	June and December 2021	Price collected in June
6. Volume of Dwellings	Q1 2022	Q1 2022	As scheduled
7. GDP Compilation	Q3 2021 onwards	Q3 2021 and on	As scheduled



Household Consumption Survey: Progress Report



Number of Items Available by Category⁸

Details		Number of Items Priced	
Category	Description	2017 ICP	2021 ICP
1101	FOOD AND NON-ALCOHOLIC BEVERAGES	198	199
1102	ALCOHOLIC BEVERAGES, TOBACCO AND NARCOTICS	16	16
1103	CLOTHING AND FOOTWEAR	78	79
1104	HOUSING, WATER, ELECTRICITY, GAS AND OTHER FUELS	12	12
1105	FURNISHINGS, HOUSEHOLD EQUIPMENT AND ROUTINE HOUSEHOLD MAINTENANCE	102	97
1106	HEALTH	75	65
1107	TRANSPORT	48	41
1108	COMMUNICATION	18	16
1109	RECREATION AND CULTURE	66	63
1110	EDUCATION	7	7
1111	RESTAURANTS AND HOTELS	18	20
1112	MISCELLANEOUS GOODS AND SERVICES	40	40
	TOTAL	678	655



Frequency of Price Collection

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Frequency	Number of Items
Annual	None
Semi-annual	None
Quarterly	None
Monthly	655



Not Applicable Basic Headings

10

BH CODE	DESCRIPTION
11.07.12.1	Motor cycles: Motor scooters and Motorcycles Due to EPA regulations, motorcycles and other related are heavily controlled, therefore the brand/models specified by the Product List are not found in our market.



Basic Headings Not Available for Pricing ¹¹

BH CODE	DESCRIPTION
11.04.53.1	Other fuels: Charcoal, Firewood and Kerosene (canister) Charcoal, Firewood and Kerosene are not priced due to availability of gas utility .



Summary Statistics – Q1 2021 ¹²


Particulars	Value
Total No. of Available Products	655
Total No. of Products Priced	654
Total No. of Quotations	8,896
No. of Available Products by No. of Quotations	
0 (Zero)	1
1	0
2	0
3-5	74
6-10	4
11-14	0
15-30	576
31-90	0
>90	0
Subtotals	
< 3	1
3 - 14	78
>= 15	576

Coefficient of Variation (%)	
CV = NA	1
CV = 0	63
0 < CV <= 5	133
5 < CV <= 10	118
10 < CV <= 20	196
20 < CV <= 30	143
30 < CV <= 40	1
40 < CV <= 50	0
50 > CV	0
Min-Max Ratio	
MMR < 0.10	0
0.10 <= MMR < 0.20	0
0.20 <= MMR < 0.33	1
MMR >= 0.30	653
Tagging	
Total No. of Tagged CPI Products	402
Total No. of Tagged ICP Products	253



Challenges and Way Forward

附錄 II、第6次區域研討會簡報





ICP International Comparison Program
for Asia and the Pacific 2021

Session 2 : Country Presentation- Taiwan

**RW06: Regional Workshop on
Household Consumption Data Validation**
25, 26 & 28 October 2021

Kuan-Hung Lin
Researcher, Price statistics Section
DGBAS, Executive Yuan, R.O.C. (Taiwan)



The views expressed in this document do not necessarily reflect the views and policies of the ADB or its Board of Governors of the government they represent.



Outline of Presentation

2

- I. Introduction
- II. Status of ICP Activities
- III. HHC: ICP Price Imputation Procedures
- III. Challenges and Way Forward
- IV. Other Topics of Interest





Introduction [1]

Name of Implementing Agency:

**Department of Statistics, DGBAS, Executive Yuan, R.O.C.
(Taiwan)**

Head of Implementing Agency:

Mr. Tsai, Director

Name of National Coordinator

Mr. Tsao, Senior Executive Officer

Name of Deputy National Coordinator

Ms. Lin, Section Chief



Introduction [2]

Team Composition

Household Team

**Ms. Chen, Senior Officer,
Mr. Lin, Researcher, and partial
members of Price Statistics Section**

Construction Team

**Mr. Hsu, Senior Officer, and
partial members of Price Statistics
Section**

MEQ Team

**Mr. Lin, Senior Officer, and
partial members of Price Statistics
Section**

National Accounts Team

**Partial members of National
Account Section**



Introduction [3]

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Team Composition

Housing Team
Mr. Lee, Officer

Compensation Team
Ms. Liu, Senior Officer

Administrative-Related Focal
Persons
Mr. Lin, Researcher

Other Teams, if any



Status of ICP Activities as of 20 October 2021

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Survey	Regional Schedule	Country Schedule	Status of Price Surveys in the Country
1. HHC	January – December 2021	January – December 2021	Price collected from January to October 2021
2. CON	June – July 2021	June-July 2021	Price collected in July with June 2021 as reference month
3. MEQ	July – September 2021	July-September 2021	Price collected in August with July 2021 as reference month
4. Housing-Rental	June and December 2021	June 2021	Rental price collected in June 2021
5. Compensation	Q1 2022	Q1 2022	As scheduled
6. Volume of Dwellings	Q1 2022	Q1 2022	As scheduled
7. GDP Compilation	Q3 2021 onwards	Q3 2021 onwards	As scheduled



HHC: ICP Price Imputation Procedures ⁷

Please fill this table only if you have performed imputation for ICP HHC price survey.

Rationale: Due to government-imposed lockdowns, price collectors could not collect prices for ICP as usual although products are available, thus the need for imputation.

Category/Group	Period	Method	Indicators



Challenges and Way Forward [1] ⁸

Q1. What operational challenges and deterrents have you faced/do you expect to face in the ICP price collection of your respective economy?

- In the past three quarters, we experienced lack of oversea package holiday prices as travel ban were imposed due to COVID-19, therefore most travel related items were not priced. Also due to uprising COVID-19 cases, a national-wide level 3 pandemic alert were issued and most indoor activities were suspended from May 15 – July 26.



Challenges and Way Forward [2]

9

Q2 (i). Can you provide any relevant new initiatives/success stories or best practices regarding ICP price collection in response to the challenges discussed in Question 1 which you find to be helpful/useful?

(ii) Do you find the [ICP COVID-19 Guidelines on Prices](#) useful?

- During the level 3 pandemic alert, most indoor activities such as gym centers, movie theaters and restaurant dine-in were suspended, thus the prices were carried forward from May to June; other items were collected normally with appropriate safety measures. As for the guideline we have ask our colleagues to study thoroughly in case should the necessity arise.



Challenges and Way Forward [3]

10

Q3. In addition to Question 2 on previous slide, have you used alternative modes of price collection to substitute for face-to-face collection, such as telephone, e-mail, online prices, web scraping, and scanner data? What are the mechanisms in place to secure quality of price data obtained from alternative sources?

- All available items were priced normally and abiding proper safety measures.



Challenges and Way Forward [4]

11

Q4. Other issues/constraints/success stories not elsewhere classified

- None.



Other Topics of Interest

12

Which topics would you like to suggest for discussions either as part of the ICP regional workshops or through short webinars to be organized by ADB in future (with participation of ICP teams from all ICP economies) as knowledge sharing and capacity building?

- None.



Thank you!

Kuan-Hung Lin

Price Statistics Section, Department of Statistics
Directorate-General of Budget, Accounting and Statistics (DGBAS)
Executive Yuan, R.O.C. (Taiwan)

<https://www.dgbas.gov.tw>
for stats detail please visit
<https://eng.stat.gov.tw/mp.asp?mp=5>

附錄 III、各研討會議程

附錄 A Second Virtual Regional Workshop



**Second Virtual Regional Workshop
7 to 8 April 2021, 1:30 to 5:30 PM (Manila Time)
Provisional Agenda**

Session	Particulars
Wednesday, 7 April	
1:00 – 1:30	Registration and Reminders
Session 1.	<i>Opening Session</i>
1:30 – 1:50	Opening Remarks Introduction of Participants Workshop Objectives and Agenda
Session 2.	<i>Gross Capital Formation: Construction and Civil Engineering Survey</i>
1:50 - 4:30	Overview of Construction and Civil Engineering Survey in Asia and the Pacific <i>The Construction category under Gross Fixed Capital Formation</i> <i>Key Results of the 2017 ICP cycle for Construction</i> Approaches in measuring Construction PPPs Item Lists and Data Requirements for ICP Construction Surveys in Asia and the Pacific <i>Item List - Overview</i> <i>National Average Price, Relevance Indicator, and Resource Mix</i>
4:30- 4:45	<i>Break</i>
4:45 - 5:30	Price Collection and Guidelines
Thursday, 8 April	
Session 2.	<i>Gross Capital Formation: Construction and Civil Engineering Survey (cont'd)</i>
1:30 - 5:00	Item List and Specifications Intra- and Inter-economy validation of prices Lessons from the 2017 ICP Construction Survey
	<i>Break</i>
	Overview of ICP APSS - Construction module Other matters
Session 3.	<i>Concluding Session</i>
5:15 - 5:30	Summary of discussion and agreements

附錄 B Third Virtual Regional Workshop



Third Virtual Regional Workshop
21 to 22 April 2021, 1:30 to 6:30 PM (Manila Time)
Provisional Agenda

Session	Particulars
Wednesday, 21 April	
1:00 – 1:30	Registration and Reminders
Session 1. Opening Session	
1:30 – 1:50	Opening Remarks Introduction of Participants Workshop Objectives and Agenda
Session 2. Intra-economy validation of prices	
1:50 - 2:45	Introduction <i>Sampling vs Nonsampling Errors</i> <i>Validation: Editing and Verification</i> Validation Process: Intra- and inter-economy validation Possible Checks: <i>Completeness (BH, GL and AP representativity)</i> <i>Product error</i> <i>Price error</i>
2:45 - 3:00 Break	
3:00 - 5:30	Intra-economy Validation <i>Available reports from ICP APSS</i> <i>Summary Statistics</i> <i>Interquarter analysis</i> <i>Urban-rural analysis</i> <i>Outlet analysis</i> <i>Possible course of action</i> Conclusion
Thursday, 22 April	
Session 3. Dwelling Services: Rental Price Approach	
1:30 - 2:45	Overview of the Dwelling Services in ICP Approaches to Housing Comparisons (Rental, Volume of Dwelling, and User Cost Approach) Experience and Challenges of Asia and the Pacific in Measuring Dwelling Services
2:45 - 3:00 Break	
3:00 - 4:30	Rental Approach to Housing in 2021 ICP Product List (Types of Housing); Concepts/Definitions; and Data Requirements ICP Rental Surveys and Other Data Sources - Guidelines <i>Housing Rental Questionnaires</i> Lessons from 2017 ICP Rental Surveys
Session 3. Dwelling Services: Rental Price Approach (cont'd)	
4:30 - 6:15	Intra-economy Validation Overview of the ICP-APSS
Session 4. Concluding Session	
6:15 - 6:30	Concluding Remarks

附錄 C Fourth Virtual Regional Workshop – Machinery and Equipment Survey



Fourth Virtual Regional Workshop - Machinery and Equipment Survey 22-23,25 June 2021, 12:00 to 5:00 PM (Manila Time) Provisional Agenda

Session	Particulars
Tuesday, 22 June	
11:30 – 12:00	Registration and Reminders
Session 1.	Opening Session
12:00 – 12:30	Opening Remarks Introduction of the Participants Workshop Agenda and Objectives
Session 2.	Gross Capital Formation: Machinery and Equipment (MEQ)
12:30 – 2:00	Overview of MEQ Survey in Asia and the Pacific Definitions and Concepts in the MEQ Survey The MEQ category under Gross Fixed Capital Formation <i>[Objectives of the MEQ Survey and MEQ in the ICP Classification]</i> Key Results of the ICP's 2017 cycle for Machinery and Equipment
2:00 – 3:00	Item Lists and Data Requirements for ICP MEQ Surveys in Asia and the Pacific Item List - Overview <i>including Changes on the MEQ list in 2021 ICP</i> Price Collection and Guidelines <i>including Sources of Price Information</i>
3:00 – 3:15	Break
3:15 – 3:30	Lessons from the ICP's 2017 cycle MEQ Survey
3:30 – 5:00	Item List and Specifications <i>Fabricated metal products, Electrical and optical equipment</i>
Wednesday, 23 June	
Session 2.	Gross Capital Formation: Machinery and Equipment (MEQ) - cont'd
12:00 – 2:30	Item List and Specifications <i>Electrical and optical equipment - cont'd</i>
2:30 – 2:45	Break
2:45 – 5:00	Item List and Specifications - <i>cont'd</i> <i>General purpose machinery, Special purpose machinery</i>
Friday, 25 June	
Session 2.	Gross Capital Formation: Machinery and Equipment (MEQ) - cont'd
12:00 – 3:00	Item List and Specifications <i>Special purpose machinery - cont'd, Road transport equipment</i>
3:00 – 3:15	Break
3:15 – 4:15	Intra-economy validation of prices Overview of ICP APSS - MEQ module
Session 3.	Other matters
4:15 – 4:30	Administrative and Technical Matters (if any)
Session 4.	Concluding Session
4:30 – 5:00	Summary of discussion and agreements

附錄 D Fifth Regional Workshop – Technical Evaluation and Review of Household Consumption Prices



Fifth Regional Workshop - Technical Evaluation and Review of Household Consumption Prices 6 to 8 July 2021, 12:00 to 5:00 PM (Manila Time) Provisional Agenda

Session	Particulars
Tuesday, 6 July	
11:30 - 12:00	Registration and Reminders
Session 1.	Opening Session
12:00 - 12:30	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
Session 2.	Status of ICP Activities: Household Consumption Price Collection
12:30 - 1:15	Status of Price Collection <i>Schedule of Price Collection</i> Key Points: <i>Intra-economy Validation</i> <i>Number of Priced Items by Major Category and Basic Heading</i> <i>Intra-economy Summary Statistics</i>
Session 3.	Review of Household Consumption Prices
1:15 - 3:00	Overview: <i>Inter-economy Validation and its Iterative Process</i> <i>Inter-economy Validation Summary and Item Diagnostics</i> <i>Country-Product-Dummy Residual Interpretation and Color Coding</i> <i>Other Validation Parameters</i> Inter-country Validation of Items Priced for Priority Items and Product List Issues <i>by Major Category and/or Basic Heading</i>
3:00 - 3:15	Break
3:15 - 5:00	Inter-country Validation of Items Priced for Priority Items and Product List Issues (<i>cont'd</i>) <i>by Major Category and/or Basic Heading</i>
Wednesday, 7 July	
Session 3.	Review of Household Consumption Prices
12:00 - 2:45	Inter-country Validation of Items Priced for Priority Items and Product List Issues (<i>cont'd</i>) <i>by Major Category and/or Basic Heading</i>
2:45 - 3:00	Break
3:00 - 5:00	Inter-country Validation of Items Priced for Priority Items and Product List Issues (<i>cont'd</i>) <i>by Major Category and/or Basic Heading</i>
Thursday, 8 July	
Session 3.	Review of Household Consumption Prices
12:00 - 2:45	Inter-country Validation of Items Priced for Priority Items and Product List Issues (<i>cont'd</i>) <i>by Major Category and/or Basic Heading</i>
2:45 - 3:00	Break
3:00 - 4:45	Inter-country Validation of Items Priced for Priority Items and Product List Issues (<i>cont'd</i>) <i>by Major Category and/or Basic Heading</i> <i>Possible course of action</i>
Session 4.	Concluding Session
4:45 - 5:00	Other Matters and Concluding Remarks

附錄 E Sixth Regional Workshop – Technical Evaluation and Review of Q1 and Q2 Household Consumption Prices



Sixth Regional Workshop - Technical Evaluation and Review of Q1 and Q2 Household Consumption Prices 25-26, and 28 October 2021, 12:00 to 5:00 PM (Manila Time) Provisional Agenda

Session	Particulars
Monday, 25 October	
11:30 - 12:00	Registration and Reminders
Session 1.	<i>Opening Session</i>
12:00 - 12:30	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda Global and Regional Developments
Session 2.	<i>Review of Household Consumption Prices: Status and Intra-economy Validation</i>
12:30 - 1:30	Status of Price Collection Key Points and Results: <i>Intra-economy Validation</i> <i>Number of Priced Items by Major Category and Basic Heading</i> <i>Intra-economy Summary Statistics</i> <i>Key Issues</i>
Session 3.	<i>Review of Household Consumption Prices: Inter-economy Validation</i>
1:30 - 3:00	Overview: <i>Inter-economy Validation-Concepts and Considerations</i> <i>Country-Product-Dummy Residual Interpretation and Color Coding</i> <i>Other Validation Parameters</i> <i>Outlier Analysis</i>
3:00 - 3:15	<i>Break</i>
3:15 - 5:00	<i>Inter-economy Validation-Summary and Recommended Courses of Action</i>
Tuesday, 26 October	
Session 3.	<i>Review of Household Consumption Prices: Inter-economy Validation</i>
12:00 - 3:00	<i>Inter-economy Validation of Items Priced for Priority Basic Headings/Items by Major Category and/or Basic Heading</i>
3:00 - 3:15	<i>Break</i>
3:15 - 5:00	<i>Inter-economy Validation of Items Priced for Priority Basic Headings/Items (cont'd) by Major Category and/or Basic Heading</i>
Thursday, 28 October	
Session 3.	<i>Review of Household Consumption Prices</i>
12:00 - 2:45	<i>Inter-economy Validation of Items Priced for Priority Basic Headings/Items (cont'd) by Major Category and/or Basic Heading</i>
2:45 - 3:00	<i>Break</i>
3:00 - 4:45	<i>Inter-economy Validation of Items Priced for Priority Basic Headings/Items (cont'd) by Major Category and/or Basic Heading</i>
Session 4.	<i>Concluding Session</i>
4:45 - 5:00	Other Matters and Concluding Remarks

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附錄 F Seventh Regional Workshop – Technical Evaluation and Review of
Housing Rental Prices and Discussion on Housing Volume Concepts



**Seventh Regional Workshop – Technical Evaluation and Review of Housing Rental Prices
and Discussion on Housing Volume Concepts**
16 to 17 November 2021, 12:00 to 5:00 PM (Manila Time)
Provisional Agenda

Session	Particulars
Tuesday, 16 November	
11:30 - 12:00	Registration and Reminders
Session 1.	Opening Session
12:00 - 12:30	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
Session 2.	Review of Housing Rental Prices: Status and Intra-economy Validation
12:30 - 1:30	Status of Price Data Submission Key Points and Results: <i>Intra-economy Validation</i> <i>Overview: ICP APSS Validation Reports</i> <i>Intra-economy Summary Statistics</i> <i>Key Issues</i>
Session 3.	Review of Housing Rental Prices: Inter-economy Validation
1:30 - 3:00	Overview: <i>Inter-economy Validation</i> <i>Other Validation Parameters</i> Inter-economy Validation of Housing Rental Prices
3:00 - 3:15	Break
3:15 - 5:00	Inter-economy Validation of Housing Rental Prices (<i>cont'd</i>)
Wednesday, 17 November	
Session 4.	Housing Volume
12:00 - 3:00	Overview Quality and Quantity Indicators Housing Volume Metadata Housing Volume Guidelines and Data Collection Form Open Discussion
3:00 - 3:15	Break
Session 5.	ICP - Consumer Price Index (CPI) Mapping
3:15 - 4:45	Overview: ICP - CPI Mapping <i>Extrapolation Methodology</i> <i>Open Discussion</i>
Session 6.	Concluding Session
4:45 - 5:00	Other Matters and Concluding Remarks

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附錄 G Eighth Regional Workshop – Technical Evaluation and Review of Construction Prices



Eighth Regional Workshop - Technical Evaluation and Review of Construction Prices 24 to 25 November 2021, 12:00 to 5:00 PM (Manila Time) Provisional Agenda

Session	Particulars
Wednesday, 24 November	
11:30 - 12:00	Registration and Reminders
Session 1.	Opening Session
12:00 - 12:30	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
Session 2.	Review of Prices for Construction Items: Status and Intra-economy Validation
12:30 - 1:30	Status of Price Collection/ Data Submission Key Points and Results: <i>Intra-economy Validation</i> <i>Overview: ICP APSS Validation Reports</i> <i>Number of Priced Items by Sub-heading</i> <i>Intra-economy Summary Statistics</i> <i>Key Issues</i>
Session 3.	Review of Prices for Construction Items: Inter-economy Validation
1:30 - 3:00	Overview: <i>Inter-economy Validation</i> <i>Country-Product-Dummy Residual Interpretation and Color Coding</i> <i>Other Validation Parameters</i> <i>Outlier Analysis</i> Inter-economy Validation of Items Priced
3:00 - 3:15	Break
3:15 - 5:00	Inter-economy Validation of Items Priced (<i>cont'd</i>)
Thursday, 25 November	
Session 3.	Review of Prices for Construction: Inter-economy Validation
12:00 - 3:00	Inter-economy Validation of Items Priced (<i>cont'd</i>)
3:00 - 3:15	Break
3:15 - 4:45	Inter-economy Validation of Items Priced (<i>cont'd</i>) <i>Possible course of action/Open Discussion</i>
Session 4.	Concluding Session
4:45 - 5:00	Other Matters and Concluding Remarks

INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

附錄 H Ninth Regional Workshop – Technical Evaluation and Review of Machinery and Equipment Goods Prices



Ninth Regional Workshop - Technical Evaluation and Review of Machinery and Equipment Goods Prices 13 to 15 December 2021, 12:00 to 5:00 PM (Manila Time) Provisional Agenda

Session	Particulars
Monday, 13 December	
11:30 - 12:00	Registration and Reminders
Session 1.	<i>Opening Session</i>
12:00 - 12:30	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
Session 2.	<i>Review of Prices for Machinery and Equipment Items: Status and Intra-economy Validation</i>
12:30 - 1:30	Status of Price Collection/ Data Submission Key Points and Results: <i>Intra-economy Validation</i> <i>Number of Priced Items by Basic Heading</i> <i>Overview: ICP APSS Validation Reports</i> <i>Intra-economy Summary Statistics</i> <i>Key Issues</i>
Session 3.	<i>Review of Prices for Machinery and Equipment Items: Inter-economy Validation</i>
1:30 - 3:00	Overview: <i>Inter-economy Validation</i> <i>Country-Product-Dummy Residual Interpretation and Color Coding</i> <i>Other Validation Parameters</i> <i>Outlier Analysis</i>
3:00 - 3:15	<i>Break</i>
3:15 - 5:00	Inter-economy Validation of Items Priced for Basic Headings/Items
Tuesday, 14 December	
Session 3.	<i>Review of Prices for Machinery and Equipment Items</i>
12:00 - 3:00	Inter-economy Validation of Items Priced for Basic Headings/Items (<i>cont'd</i>)
3:00 - 3:15	<i>Break</i>
3:15 - 5:00	Inter-economy Validation of Items Priced for Basic Headings/Items (<i>cont'd</i>)
Wednesday, 15 December	
Session 3.	<i>Review of Prices for Machinery and Equipment Items</i>
12:00 - 2:45	Inter-economy Validation of Items Priced for Basic Headings/Items (<i>cont'd</i>)
2:45 - 3:00	<i>Break</i>
3:00 - 4:45	Inter-economy Validation of Items Priced for Basic Headings/Items (<i>cont'd</i>) <i>Possible course of action/Open Discussion</i>
Session 4.	<i>Concluding Session</i>
4:45 - 5:00	Other Matters and Concluding Remarks

INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.