

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2022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、黃專員耀民、  
連研究員子惠

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：111年2月22日至10月20日

報告日期：112年1月4日

## 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2021~22年之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2022年亞銀辦理2021年回合ICP第10~19次線上討論會議 (2/22~2/24、3/10、3/23~3/24、5/10、5/12、5/24~5/25、6/28~6/30、9/27、9/29及10/18~10/20) 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<sup>1</sup>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<sup>2</sup>。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，並於會上表示，2021 年採視訊研討會 (virtual workshop)，2022 年續以視訊方式辦理。

往年因 ICP 會議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。2021-22 年因 ICP 全數會議 (2021 年為第 1~9 次會議，2022 年為第 10~19 次) 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 2022 年線上視訊會議之重點。

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

<sup>2</sup> 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。

## 貳、2022年亞太地區線上研討會議日程

第 10 次區域研討會（2022 年 2 月 22 日~2 月 24 日）

第 11 次區域研討會（2022 年 3 月 10 日）

第 12 次區域研討會（2022 年 3 月 23 日~3 月 24 日）

第 13 次區域研討會（2022 年 5 月 10 日）

第 14 次區域研討會（2022 年 5 月 12 日）

第 15 次區域研討會（2022 年 5 月 24 日~5 月 25 日）

第 16 次區域研討會（2022 年 6 月 28 日~6 月 30 日）

第 17 次區域研討會（2022 年 9 月 27 日）

第 18 次區域研討會（2022 年 9 月 29 日）

第 19 次區域研討會（2022 年 10 月 18 日~10 月 20 日）

## 參、各會議過程摘要報告

### 一、第 10 次區域研討會（2022 年 2 月 22 日~2 月 24 日）

本次會議針對本回合第 1~3 季家庭消費財價格做跨經濟體（inter-economy）檢核。亞銀表示本(2021 年)回合平均每個查價項目之報價數(Quotations)較上(2017 年)回合明顯減少，研判係受疫情影響，另請各國分享因疫情導致查價困難之應對方法。

亞銀針對我國之提問，及我方代表回復或相應作為如下：

1. 國際包裹寄送報價偏高之原因：受疫情影響致航運價格激增，除原本配送資費，另加收緊急情況附加費。
2. 有氧運動中心費用較高之原因：我國依市場行情報價。
3. 我國手洗洗衣精報價高於機洗洗衣精之原因：我國標榜可手洗洗衣精之品質較佳(如標榜不傷皮膚等功能)。

亞銀提醒各國須注意或確認事項如下：

1. 電話及傳真服務報價之查價規格為市內電話基本方案，且不含其他多媒體服務或商品。
2. 請各國附註說明是否因疫情改採視訊教學，導致教育服務相關報價有所變動。
3. 影音修理、影像以及資訊處理設備之電池維修費，僅限筆記型電腦之電池。
4. 手機螢幕維修費之規格為在非專門店維修，但須為原廠材料。
5. 家事服務費之計價單位，部分工時者(Part-time)應以小時計價，全職者(Full-time)應以月薪報價(月薪定義依各國法規規定)。
6. 金飾之規格應為基本款式(不花俏、不含寶石)，鐘錶之規格應敘明品牌及型號。

### 二、第 11 次區域研討會（2022 年 3 月 10 日）

本次會議亞銀先簡述 ICP 政府受僱人員薪資調查之概念及上(2017 年)回合調查結果，再說明政府消費支出(GFCE, Government Final Consumption Expenditure)占 GDP 比重及其重要性(上回合 22 個參與國家的 GFCE 占 GDP 比重為 14.16%)。

本回合政府受僱人員薪資調查共查 35 項職類，包括 21 項一般行政、9 項醫療及 5 項教育類。每個職類別又分初階(任職 1 年)、任職滿 5 年、任職滿 10 年以及任職滿 20 年等 4 種年資(與上回合相同)。薪資應包括年薪及政府負擔之社會安全捐。

### 三、第 12 次區域研討會（2022 年 3 月 23 日~24 日）

本次會議係亞銀說明計算 PPP 所需之 GDP 資料，請各國提交 GDP 基本項目資料，及請各國分享 GDP 編算概況，與疫情對編算 GDP 之影響。

各國針對 GDP 支出面統計之發布狀況、修正機制、資料來源及編算方法等面向進行簡要報告(我國報告部分詳附錄 I)，我國並說明因疫情控制得宜，不但 GDP 編算作業未受衝擊，還能依統計結果分析疫情對我國經濟的影響，例如民間消費中的交通、休閒文化、國外淨購買等大類，即因疫情及邊境管制等防疫措施影響而明顯下滑。主席及與會國家在簡報後互相提問討論，其中各國詢問我國 GDP 五年修正機制，會上回復我國 GDP 五年修正係依據每 5 年舉辦一次的工業及服務業普查結果，重新框定 GDP 規模值，其意義與一般年修正不同，並說明下次五年修正會依據 2021 年普查結果辦理，於 2024 年底發布。

### 四、第 13 次區域研討會（2022 年 5 月 10 日）

本次會議主要由亞銀說明經濟體內房屋租金檢核概況，包括各國經濟體內資料檢核原則，如同房型不同坪數之價格關係、城鄉租金差異，及較上回合租金變動率是否過大等，另亦說明各國繳交資料進度，並就目前現有報價之 16 國資料做 2021 年跨經濟體檢討。

跨經濟體檢核中，主要針對租金較上回合變動率較大、查價區間或涵蓋範圍有異動、樣本數不足或有違常理判斷者(如鄉村租金較首都高者)檢討。

### 五、第 14 次區域研討會（2022 年 5 月 12 日）

本次會議係檢核各國提交之房屋量指數 (Housing Volume，如房屋間數、衛浴設備、水電等可量化數值) 資料。亞銀除說明編製房屋量指數目的、調查內容及注意事項外，並說明本回合新增之房屋量指數的指標(本回合新增兩項住屋品質 (housing quality) 指標，包括「每戶用電(per capita electricity consumption)」及「房屋建材(housing materials)」，有助於說明不同經濟體之租屋價格差異)。由於部分指標通常透過各國人口普查或房屋類型調查時取得，但該類調查時間落後，各國應尚無 2021 年資料，故亞銀建議各國可運用最近一次的普查/調查資料輔以外插法(extrapolation)設算得出。

亞銀對我國之「居住空間」指標高於其他國家有疑義，會中回應係與我國居住空間之統計定義有關，待確定後於下次(第 17 次)會議說明。

## 六、第 15 次區域研討會（2022 年 5 月 24 日~25 日）

本次會議主題係營造工程物價之跨經濟體檢討，及世銀專家介紹營造工程購買力平價編算方法。

亞銀先說明相近營造材料之間的價格關係，如「粒片板」價格通常低於「內部用合板」等；接續檢討營建材料與三種營造工程類型(住宅建築、非住宅建築及土木工程)之相關性(即材料是否投入各工程類型)；最後檢討三種營造工程類別之投入權數結構。

亞銀認為本回合投入權數結構應與上回合相當(營造技術大幅進步或產業結構改變才會使權數結構有大幅變化)，並請各國依前述準則檢修提交資料。

世銀專家介紹運用各國營造材料及勞務價格、相關性、投入權數結構資料編算各國營造工程購買力平價之方法，並提供相關試算表給有興趣的與會者自行模擬試算。

## 七、第 16 次區域研討會（2022 年 6 月 28 日~30 日）

本次會議主題係機械設備物價之跨經濟體檢核。世銀專家說明查價清單中易混淆或定義不明的項目，並分析各國報價差異較大之項目，逐一建議各國可改查之型號及品牌。建議我國部分：

我國「電子經緯儀(倍率 30)-不指定品牌」之原選查型號為「Nikon NE-100」，但該型號的角度測量精準度遠高於其他多數國家之選查型號，世銀專家建議我國改採「Nikon NE-102」報價。

## 八、第 17 次區域研討會（2022 年 9 月 27 日）

本次會議主題係房屋量資料之跨經濟體資料檢討。亞銀比較各國資料後，認為我國居住空間偏大，因按 ICP 查價定義，陽台(Balcony) 與露台(Terrace)屬戶外，不納入居住空間。我國的陽台多有屋簷延伸，加上許多電梯大樓常有陽台外推後成為室內坪數之情事，及相關統計無法拆分陽台坪數，故我國提交居住空間資料會包含陽台。我國於會上解釋後，亞銀表示明白。另亞銀提醒各國房屋量指數係針對國民所得中的自有住宅與租屋戶所居住的建物調查，不可將待售屋及無人居住之建物納入統計。



## 九、第 18 次區域研討會（2022 年 9 月 29 日）

本次會議主題係政府受僱人員薪資報酬之跨經濟體檢討。

亞銀對我國之詢問及我國之回應：

1. 本回合醫療職務類報價較上回合下跌(亞銀推算本回合我國政府受僱報酬平均要較上回合增 3%)：受 COVID-19 疫情影響，醫療業分紅獎金減少所致。
2. 亞銀認為我國「資料庫管理員」與「數據處理主管」報價落差太大：國外(尤其是歐洲)資料庫管理員需要證照與相關資歷，故其薪資與數據處理主管差距不大，然在我國，資料庫管理員並非管理職，亦非以證照認定，故以 6-7 職等非主管級薪資報價，而數據處理主管則以 12 職等主管級薪資報價所致。

## 十、第 19 次區域研討會（2022 年 10 月 18 日~20 日）

本次會議主題係本回合各季家庭消費財價格之跨經濟體檢討。可觀察亞太地區各經濟體家庭消費財之價格走勢。我國提交之報價資料皆符合亞銀每項目的變異係數(小於 30)及最小/最大比值(MMR，需大於 0.33)之檢核條件。

部分項目因亞銀未明定查價規格，致各國報價落差不小，另有多數國家反映部分項目不合時宜，經亞銀綜整檢討，包括：

1. 教育類：為「一學年」之學費，而非一整個學程(如大學四年、高中三年)。
2. 通訊類：考量智慧手機普及，未來考慮刪除「市話，月費」；多數國家反映「平信」已漸式微，亞銀表示未來可能改查「國際郵件」。
3. 教養娛樂類：「吉他課程，1 堂」定義為 1 堂課程包含 4-6 節課，1 節課約 40 至 60 分鐘，但部分國家提交 1 節課報價，致報價偏低。「游泳池入場費」應查「公共泳池，1 次」，但部分國家提交私人健身房或飯店之泳池使用費，致報價偏高。
4. 個人隨身用品：「女用手提包，知名品牌」因種類數量眾多且價格範圍較大，本回合各國報價從奢侈品牌到平價品牌都有，導致價格落差甚大。亞銀表示應查一般民眾會購買的中低階價位品牌。


最後由世銀統計專家分享「電腦輔助面訪(CAPI, Computer Assisted Personal Interview)」，可供各國未來精進查價之用。會後主席表示隨著疫情和緩，2023 年可能改為實體會議(face-to-face)，但仍視世銀的最終決定。

## 肆、心得及建議

目前 ICP 進度進入尾聲，預計 2023 年第 4 季發布 2021 年回合全球購買力平價報告。

職連續 2 年代表本總處全程參與 2021 年回合所有亞太地區 ICP 會議(2021-22 年)，參與家庭消費財跨經濟體檢核時，發現我國依亞銀最低規範，每個查價項目提報 5 個樣本價格，係考量調查資源有限且不增加太多縣市物價調查員工作負荷，但與其他國家相較，中國大陸平均每個查價項目逾 50 個樣本，新加坡約 8 個，香港約 7 個，我國樣本數較少，建議下回合或可增加樣本數。另世銀研擬推廣電腦輔助面訪(CAPI)，係物價調查員查價時，透過網路及智慧手機即時報價，不僅提高效率，亦可透過定位，確保調查員至正確查價點查價。惟職認為實務上仍有窒礙難行之處，例如各國網路連線、傳輸品質不一，世銀是否分擔各國調查員查價所使用的公用智慧手機、上網等費用，均增添實務推展難度。

## 附錄 I、第12次區域研討會簡報





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

**Session 3 :**  
**Challenges, Compilation and  
Impact of COVID-19 on GDP -  
TAIWAN**

**Twelfth Virtual Regional Workshop**  
23-24 March 2022

**Yao-Min Huang**  
Senior Officer, Section of National Accounts,  
Department of Statistics,  
Directorate-General of Budget, Accounting and Statistics,  
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

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- I. Introduction
- II. Current GDP Compilation
- III. GDP Compilation Challenges due to COVID-19
- IV. Impact of COVID-19 on GDP Estimates





## Introduction

3

**Agency in-charge of NA Compilation:**

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

**Head of Agency, Designation:**

Mr. Yu-Tai Tsai , Director

**Name and Designation of Overall In-charge of NA compilation:**

All members of National Accounts Section, Economic Forecast Section and Industry Input-Output Accounts Section

**Key Members of the NA team for ICP:**

Around 1/3 members engage in ICP-related matters



## Current GDP Compilation [1]

4

SNA Version	2008SNA
General Valuation	Purchaser's price
Base Year/ Reference Year	2016
Approach/es used in estimating GDP	Production, Expenditure, Income
Approach where Official GDP is based	Expenditure



## Current GDP Compilation [2]

5

<b>Available Linked Series</b>	Reference period of annual estimates if not Calendar Year: <a href="#">Calendar Year</a> Years available: <a href="#">1981-2021</a> Latest Year, Quarter available: <a href="#">2021, Q4 (Oct.-Dec.)</a> Webpage: <a href="https://nstatdb.dgbas.gov.tw/dgbasall/webMain.aspx?k=engmain">https://nstatdb.dgbas.gov.tw/dgbasall/webMain.aspx?k=engmain</a>
<b>Latest IOT</b>	Reference year: <a href="#">2016</a> Size: <a href="#">487 commodities</a> Webpage: <a href="https://eng.stat.gov.tw/ct.asp?xItem=8488&amp;ctNode=1650">https://eng.stat.gov.tw/ct.asp?xItem=8488&amp;ctNode=1650</a>
<b>Latest SUT</b>	Reference year: <a href="#">2020</a> Size: <a href="#">63 rows</a> Webpage: <a href="https://eng.stat.gov.tw/ct.asp?xItem=29540&amp;ctNode=1650&amp;mp=5">https://eng.stat.gov.tw/ct.asp?xItem=29540&amp;ctNode=1650&amp;mp=5</a>
<b>Latest Household Expenditure/Budget Survey</b>	Reference year (and month): <a href="#">2020 Survey of Family Income and Expenditure</a> Publication year: <a href="#">2021</a>



## Current GDP Compilation [3]

6

CLASSIFICATION (and VERSION) used for Compiling GDP Expenditures	
ICEH	<a href="#">COICOP 1999</a>
NPISHs	<a href="#">COICOP 1999</a>
Government	<a href="#">COFOG 2014</a>
GCF	<a href="#">SNA 2008</a>
EXPORTS-IMPORTS	<a href="#">HS(2017)</a>



## Current GDP Compilation [4]

7

### Individual Consumption Expenditures by Households

Data Source & Reference Year	Level of Available Details	Methodology
The Survey of Family Income and Expenditure, 2016	Family expenditure classified according to food, clothing, household appliance, medical care, and etc.	To split the consumption expenditures into BHs according the shares of detailed items.
Sales of Wholesale, Retail and Food Services, 2021	Sales of food, clothing, household appliance, medical care, and etc.	Extrapolated from a recent year using sales indicators
2020 Survey of Travel by R.O.C Citizens	R.O.C(Taiwan) citizens' spending behavior	Direct estimation
2020 Annual Survey Report on Visitors Expenditure and Trends in Taiwan	Visitor's expenditure according to main purpose	Direct estimation



## Current GDP Compilation [5]

8

### Individual Consumption Expenditures by NPISHs

Data Source & Reference Year	Level of Available Details	Methodology
Civil Organizational Activities Condition Survey 2016	Expenditures	Estimated by total production costs and extrapolated using number of registered nonprofit organizations



## Current GDP Compilation [6]

9

### Individual Consumption Expenditures by Government

Data Source & Reference Year	Level of Available Details	Methodology
Final accounting reports of government at all levels, 2021	With available data on compensation of employees, Government sales and purchases, and so on.	1. The data is based on COFOG. 2. Direct estimation



## Current GDP Compilation [7]

10

### Collective Consumption Expenditures by Government

Data Source & Reference Year	Level of Available Details	Methodology
Final accounting reports of government at all levels, 2021	With available data on compensation of employees, Government sales and purchases, and so on.	1. The data is based on COFOG. 2. Direct estimation



## Current GDP Compilation [8]

11

### Gross Capital Formation(1/2)

Data Source & Reference Year	Level of Available Details	Methodology
Manufacturing Investment & Operation Overview Survey, 2021	Purchase/Sold of fixed assets; products and materials in stock	Extrapolation, Direct estimation
External Trade Statistics, 2021	Statistics of exports and imports	Extrapolation
Factory Operation Census, 2019	Fixed assets invested	Extrapolation



## Current GDP Compilation [8]

12

### Gross Capital Formation(2/2)

Data Source & Reference Year	Level of Available Details	Methodology
National Science and Technology Survey, 2020	R&D expenditure by Taiwan's Industrial Classification	Extrapolation
Sales of Wholesale, Retail and Food Services, 2021	Products and materials in stock	Direct estimation
Final accounting reports of government at all levels, 2021	Gross fixed capital formation by Government	Direct estimation





## Current GDP Compilation [9]

13

### Balance of Exports and Imports

Data Source & Reference Year	Level of Available Details	Methodology
Balance of Payments Statistics, 2021	Imports and Exports of goods and services	Direct estimation



## Current GDP Compilation [10]

14

### Exhaustiveness

Are adjustments made to GDP estimates to cover the following?	Yes/No
Producer deliberately does not register (underground activity) in order to avoid tax and social security obligations or to avoid losing some social benefits.	Yes
Producer deliberately does not register (illegal activity) because the producer is involved in illegal activities such as prostitution, sale of stolen goods, drug dealing, smuggling, or illegal gambling.	No
Producer not required to register because the producer does not have any market output or the producer's market output is below a set threshold.	Yes



## Current GDP Compilation [11]

15

### Exhaustiveness

Are adjustments made to GDP estimates to cover the following?	Yes/No
Legal producer not surveyed because, although registered, the producer is excluded from statistical surveys.	Yes
Registered entrepreneurs not surveyed.	Yes
Misreporting by producers.	Yes
Other statistical deficiencies. This category can be divided into two parts: i) data that are incomplete or cannot be directly collected from surveys, and ii) data that are incorrectly compiled during survey processing.	Yes



## Current GDP Compilation [12]

16

### Revision Policy

- For every year, at the end of November, we release an annual revision which would revise the gross domestic product (GDP) figures for previous 2 years.
- Once every 5 years, we produce a “comprehensive” revision to the GDP statistics, and the updated GDP numbers will be released at the end of November for years ending in 4 and 9.



## Current GDP Compilation [13]

17

### Schedule of Release of Annual Estimates, 2017-2021

Year	Date of Release	Remarks
2017	Feb. 2018 <preliminary estimate)<="" td=""> <td>revised in May 2018, Nov. 2018 and Nov. 2019</td> </preliminary>	revised in May 2018, Nov. 2018 and Nov. 2019
2018	Feb. 2019 <preliminary estimate)<="" td=""> <td>revised in May 2019, Nov. 2019 and Nov. 2020</td> </preliminary>	revised in May 2019, Nov. 2019 and Nov. 2020
2019	Feb. 2020 <preliminary estimate)<="" td=""> <td>revised in May 2020, Nov. 2020 and Nov. 2021</td> </preliminary>	revised in May 2020, Nov. 2020 and Nov. 2021
2020	Feb. 2021 <preliminary estimate)<="" td=""> <td>revised in May 2021, Nov. 2021 and will be revised in Nov. 2022</td> </preliminary>	revised in May 2021, Nov. 2021 and will be revised in Nov. 2022
2021	Feb. 2022 <preliminary estimate)<="" td=""> <td>will be revised in May 2022, Nov. 2022 and Nov. 2023</td> </preliminary>	will be revised in May 2022, Nov. 2022 and Nov. 2023



## GDP Compilation Challenges Due to COVID-19 [1]

18

Individual Consumption Expenditures by Households	ISSUE	ACTION TAKEN
Data sources		
Methodology		
Quality of estimates		
Others, specify		

The COVID-19 pandemic has been controlled relatively well in Taiwan.  
The surveys and statistics for compiling GDP were NOT affected or delayed.



## GDP Compilation Challenges Due to COVID-19 [2]

19

Individual Consumption Expenditures by NPISHs	ISSUE	ACTION TAKEN
Data sources	<p>The COVID-19 pandemic has been controlled relatively well in Taiwan. The surveys and statistics for compiling GDP were NOT affected or delayed.</p>	
Methodology		
Quality of estimates		
Others, specify		



## GDP Compilation Challenges Due to COVID-19 [3]

20

Individual Consumption Expenditures by Government	ISSUE	ACTION TAKEN
Data sources	<p>The COVID-19 pandemic has been controlled relatively well in Taiwan. The surveys and statistics for compiling GDP were NOT affected or delayed.</p>	
Methodology		
Quality of estimates		
Others, specify		



## GDP Compilation Challenges Due to COVID-19 [4]

21

Collective Consumption Expenditures by Government	ISSUE	ACTION TAKEN
Data sources	<p>The COVID-19 pandemic has been controlled relatively well in Taiwan. The surveys and statistics for compiling GDP were NOT affected or delayed.</p>	
Methodology		
Quality of estimates		
Others, specify		



## GDP Compilation Challenges Due to COVID-19 [5]

22

Gross Capital Formation	ISSUE	ACTION TAKEN
Data sources	<p>The COVID-19 pandemic has been controlled relatively well in Taiwan. The surveys and statistics for compiling GDP were NOT affected or delayed.</p>	
Methodology		
Quality of estimates		
Others, specify		



## GDP Compilation Challenges Due to COVID-19 [6]

23

Balance of Exports and Imports	ISSUE	ACTION TAKEN
Data sources		
Methodology		
Quality of estimates		
Others, specify		

The COVID-19 pandemic has been controlled relatively well in Taiwan.  
The surveys and statistics for compiling GDP were NOT affected or delayed.



## Impact of COVID-19 on GDP Estimates [1]

24

### ▪ Expenditure Share at the Main Aggregate Level

Code	Description		2017	2018	2019	2020	2021
1000000	GROSS DOMESTIC PRODUCT (billion SNTD)	GDP	17,983	18,375	18,909	19,799	21,706
1100000	INDIVIDUAL CONSUMPTION EXPENDITURE BY HOUSEHOLDS (%)	Main Aggregate	51.2	51.5	51.6	47.9	44.1
1200000	INDIVIDUAL CONSUMPTION EXPENDITURE BY NPISHs (%)	Main Aggregate	0.6	0.8	0.7	0.6	0.6
1300000	INDIVIDUAL CONSUMPTION EXPENDITURE BY GOVERNMENT (%)	Main Aggregate	7.3	7.6	7.7	7.6	7.4
1400000	COLLECTIVE CONSUMPTION EXPENDITURE BY GOVERNMENT (%)	Main Aggregate	6.5	6.7	6.4	6.4	6.2
1500000	GROSS CAPITAL FORMATION (%)	Main Aggregate	21.0	22.2	23.8	24.2	26.8
1600000	BALANCE OF EXPORTS AND IMPORTS (%)	Main Aggregate	13.3	11.2	9.9	13.3	14.9

## Impact of COVID-19 on GDP Estimates [2] <sup>25</sup>

### ▪ Categories/Basic Headings Most Affected

Code	Category/ Basic Heading	Effect (Up or Down)
1107000	TRANSPORT	-14.2% in 2020 and -3.7% in 2021
1107311	Passenger transport by railway	-16.3% in 2020 and -23.2% in 2021
1107321	Passenger transport by road	-12.0% in 2020 and -12.9% in 2021
1107331	Passenger transport by air	-72.6% in 2020 and -69.2% in 2021

## Impact of COVID-19 on GDP Estimates [3] <sup>26</sup>

### ▪ Categories/Basic Headings Most Affected

Code	Category/ Basic Heading	Effect (Up or Down)
1109000	RECREATION AND CULTURE	-10.0% in 2020 and -1.1% in 2021
1109421	Cultural services	-25.7% in 2020 and -5.6% in 2021
1109611	Package holidays	-63.6% in 2020 and -21.4% in 2021
1111000	RESTAURANTS AND HOTELS	-7.4% in 2020 and -5.3% in 2021
1111111	Catering services	-3.9% in 2020 and -5.9% in 2021
1111211	Accommodation services	-30.3% in 2020 and +0.4% in 2021



## Impact of COVID-19 on GDP Estimates [4]

27

### ▪ Categories/Basic Headings Most Affected

Code	Category/ Basic Heading	Effect (Up or Down)
1113000	NET PURCHASES ABROAD	-81.0% in 2020 and -69.2% in 2021
11131111	Purchases of Residents Abroad	-86.1% in 2020 and -64.2% in 2021
11131112	Purchases on Nonresidents in the Domestic Economy	-86.9% in 2020 and -63.2% in 2021

## 附錄 II、各研討會議程

# Thank You!

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

For more details, please visit website at:  
<https://eng.stat.gov.tw/mp.asp?mp=5>



附錄 A Tenth Virtual Regional Workshop – Household Consumption Price Data Validation (Revised Q1-Q2 2021 and Q3 2021)



**Tenth Regional Workshop - Technical Evaluation and Review of Q1 to Q3 2021 Household Consumption Prices  
22 to 24 February 2022, 12:00 to 5:00 PM (Manila Time)  
Provisional Agenda**

Session	Particulars
<b>Tuesday, 22 February</b>	
11:30 - 12:00	Registration and Reminders
<b>Session 1.</b>	<b>Opening Session</b>
12:00 - 1:00	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
<b>Session 2.</b>	<b>Review of Household Consumption Prices: Status and Intra-economy Validation</b>
1:00 - 3:00	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>
<b>3:00 - 3:15</b>	<b>Break</b>
<b>Session 3.</b>	<b>Review of Household Consumption Prices: Inter-economy Validation</b>
3:15 - 5:00	Overview: <i>Inter-economy Validation</i> <i>Inter-economy Validation-Summary and Recommended Courses of Action</i> <i>Inter-economy Validation of Items Priced for Priority Basic Headings/Items by Major Category and/or Basic Heading</i>
<b>Wednesday, 23 February</b>	
<b>Session 3.</b>	<b>Review of Household Consumption Prices: Inter-economy Validation</b>
12:00 - 3:00	<i>Inter-economy Validation of Items Priced for Priority Basic Headings/Items (cont'd) by Major Category and/or Basic Heading</i>
<b>3:00 - 3:15</b>	<b>Break</b>
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>
<b>Thursday, 24 February</b>	
<b>Session 3.</b>	<b>Review of Household Consumption Prices</b>
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>
<b>2:45 - 3:00</b>	<b>Break</b>
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>
<b>Session 4.</b>	<b>Concluding Session</b>
4:45 - 5:00	Other Matters and Concluding Remarks

附錄 B Eleventh Regional Workshop - Government Compensation



**Eleventh Regional Workshop - Conceptual Discussion of Government Compensation**  
**10 March 2022, 12:00 to 5:00 PM (Manila Time)**  
**Provisional Agenda**

Session	Particulars
<b>Thursday, 10 March</b>	
11:30 - 12:00	Registration and Reminders
<b>Session 1.</b>	<b><i>Opening Session</i></b>
12:00 - 1:00	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
<b>Session 2.</b>	<b><i>Discussion on Conceptual Considerations for Government Compensation</i></b>
1:00 - 3:00	Government Expenditures in ICP and National Accounts Government Compensation Survey <i>Product Catalogue of Government Occupations</i> <i>Data Requirements, Questionnaire, related Concepts/Definitions, Data Validation</i>
<b>3:00 - 3:15</b>	<b><i>Break</i></b>
<b>Session 2.</b>	<b><i>Discussion on Conceptual Considerations for Government Compensation (cont'd)</i></b>
3:15 - 4:30	<i>Demonstration on the Price Collection Tool and ICP APSS Compensation Module</i> <i>Open Discussion</i>
<b>Session 3.</b>	<b><i>Concluding Session</i></b>
4:30 - 5:00	Other Matters and Concluding Remarks

附錄 C Twelfth Virtual Regional Workshop – National Accounts Framework and Data Requirements



**Twelfth Regional Workshop - National Accounts Framework and Requirements  
for GDP Expenditure Weights for 2021 PPP Computation  
23-24 March 2022, 12:00 to 5:00 PM (Manila Time)  
Provisional Agenda**

Session	Particulars
<b>Wednesday, 23 March</b>	
11:30 - 12:00	Registration and Reminders
<b>Session 1.</b>	<b>Opening Session</b>
12:00 - 1:00	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
<b>Session 2.</b>	<b>National Accounts Framework and Classifications</b>
1:00 - 2:30	ICP, its objectives, and national accounts GDP – by three approaches <i>Valuation – basic, producers' and purchasers' prices</i> <i>GDP at basic price and GDP at market prices</i> Basic SNA Identities Types of Outputs: Market, for Own Final Use and Other Non-Market Imputed Expenditures (rents of dwellings, own-account production/consumption, own-account capital Expenditures aggregates of GDP 2008 SNA - Key changes from 1993 SNA affecting GDP ICP Expenditure classification – 155 Basic headings GDP Reporting Excel Templates
<b>Session 3.</b>	<b>National Accounts Compilation and Expenditure Aggregates by Economies</b>
2:00 - 3:00	Country Presentations <i>Country Practice, Challenges, and Impact on GDP due to Covid-19</i>
<b>3:00 - 3:15</b>	<b>Break</b>
3:15 - 5:00	Country Presentations - contd <i>Country Practice, Challenges, and Impact on GDP due to Covid-19</i> Summary of Country Practices and Challenges
<b>Thursday, 24 March</b>	
<b>Session 4.</b>	<b>Splitting GDP Expenditure and Data Sources</b>
12:00 - 2:00	Five Approaches of splitting Major Data Sources Individual Consumption Expenditure by Household Individual and Collective Consumption Expenditure by Government Individual Consumption Expenditure by NPISHs Gross Fixed Capital Formation Change in Inventories National Accounts Expenditure Data during the COVID-19 Pandemic - IACG Guidance Note
<b>Session 5.</b>	<b>Validation – National Accounts Expenditure Data</b>
2:00 - 3:00	Validating Expenditure aggregates <i>Validation process and Tools</i> <i>Basic edits and consistency checks</i>
<b>3:00 - 3:15</b>	<b>Break</b>
<b>Session 6.</b>	<b>Review of Expenditure Aggregates 2017 (Revised) to 2020</b>
3:15 - 4:30	Review and discussion on revised expenditures 2017 and available data data until 2020
<b>Session 7.</b>	<b>Concluding Session</b>
4:30 - 5:00	Other Matters, Conclusions, and Agreements

附錄D Thirteenth Virtual Regional Workshop – Technical Evaluation and Review of Housing Rental Prices



**Thirteenth Regional Workshop - Technical Evaluation and Review of Housing Rental Prices**  
**10 May 2022, 12:00 to 5:00 PM (Manila Time)**  
**Provisional Agenda**

Session	Particulars
<b>Tuesday, 10 May</b>	
<b>11:30 - 12:00</b>	<b>Registration and Reminders</b>
<b>Session 1.</b>	<b><i>Opening Session</i></b>
<b>12:00 - 12:30</b>	<b>Opening Remarks Introduction of the Participants Workshop Objectives and Agenda</b>
<b>Session 2.</b>	<b><i>Review of Housing Rental Prices: Status and Intra-economy Validation</i></b>
<b>12:30 - 1:30</b>	<b>Status of Price Data Submission Key Points and Results: <i>Intra-economy Validation</i> <i>Intra-economy Summary Statistics</i> <i>Key Issues</i></b>
<b>Session 3.</b>	<b><i>Review of Housing Rental Prices: Inter-economy Validation</i></b>
<b>1:30 - 3:00</b>	<b>Overview: <i>Inter-economy Validation</i> <i>Other Validation Parameters</i> Inter-economy Validation of Housing Rental Prices</b>
<b>3:00 - 3:15</b>	<b><i>Break</i></b>
<b>3:15 - 5:00</b>	<b>Inter-economy Validation of Housing Rental Prices (<i>cont'd</i>)</b>

附錄 E Fourteenth Regional Workshop – Technical Evaluation and Review of  
Housing Volume Data



**Fourteenth Regional Workshop - Technical Evaluation and Review of Housing Volume Data**  
**12 May 2022, 12:00 to 5:00 PM (Manila Time)**  
**Provisional Agenda**

Session	Particulars
<b>Thursday, 12 May</b>	
<b>11:30 - 12:00</b>	<b>Registration and Reminders</b>
<b>Session 1.</b>	<b><i>Housing Volume</i></b>
<b>12:00 - 2:00</b>	<b>Overview</b> <b>Quality and Quantity Indicators - Data Collection Form</b> <b>Status of Data Submission</b> <b>Data Availability</b>
<b>Session 2.</b>	<b><i>Review of Indicators: Housing Volume</i></b>
<b>2:00 - 3:00</b>	<b>Inter-Economy Validation</b>
<b>3:00 - 3:30</b>	<b><i>Break</i></b>
<b>3:30 - 4:45</b>	<b><i>Inter-Economy Validation (cont'd)</i></b> <b><i>Extrapolated indicators</i></b> <b><i>Open Discussion</i></b>
<b>Session 3.</b>	<b><i>Concluding Session</i></b>
<b>4:45 - 5:00</b>	<b>Other Matters and Concluding Remarks</b>

附錄 F Fifteenth Virtual Regional Workshop – Technical Evaluation and Review of Construction Prices



**Fifteenth Regional Workshop - Technical Evaluation and Review of Construction Prices**  
**24 to 25 May 2022, 12:00 to 5:00 PM (Manila Time)**  
**Provisional Agenda**

Session	Particulars
<b>Tuesday, 24 May</b>	
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 Construction 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 Sub-heading</i> <i>Intra-economy Summary Statistics</i> <i>Key Issues</i>
Session 3.	<i>Review of Prices for Construction 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> Inter-economy Validation of Items Priced
3:00 - 3:15	<i>Break</i>
3:15 - 5:00	Inter-economy Validation of Items Priced ( <i>cont'd</i> )
<b>Wednesday, 25 May</b>	
Session 3.	<i>Review of Prices for Construction: Inter-economy Validation</i>
12:00 - 3:00	Inter-economy Validation of Items Priced ( <i>cont'd</i> )
3:00 - 3:15	<i>Break</i>
3:15 - 4:30	Inter-economy Validation of Items Priced ( <i>cont'd</i> ) <i>Possible course of action/Open Discussion</i>
Session 4.	<i>Other Requirements</i>
4:30 - 4:45	Resource Mix for Construction
Session 5.	<i>Concluding Session</i>
4:45 - 5:00	Other Matters and Concluding Remarks



附錄 G Sixteenth Virtual Regional Workshop – Technical Evaluation and Review of Machinery and Equipment Prices



**Sixteenth Regional Workshop - Technical Evaluation and Review of Machinery and Equipment Goods Prices  
28 to 30 June 2022, 12:00 to 5:00 PM (Manila Time)  
Provisional Agenda**

Session	Particulars
<b>Tuesday, 28 June</b>	
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>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
<b>Wednesday, 29 June</b>	
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> )
<b>Thursday, 30 June</b>	
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

附錄 H Seventeenth Regional Workshop – Technical Evaluation and Review of Housing Volume Data



**KSTA 9898: 2020 International Comparison Program (ICP) for Asia and the Pacific**

**Seventeenth Regional Workshop: Technical Evaluation and Review of Housing Volume Data**

**Venue: Virtual via Microsoft Teams**

**Date: 27 September 2022**

Session	Particulars
<b>Tuesday, 27 September</b>	
11:30 - 12:00	Registration and Reminders
<b>Session 1.</b>	<b><i>Opening Session</i></b>
12:00 - 12:30	Opening Remarks Introduction to Participants Workshop Objectives and Agenda
<b>Session 2.</b>	<b><i>Housing Volume: Approach and Methodology</i></b>
12:30- 1:30	Overview Methodology
<b>Session 3.</b>	<b><i>Housing Volume: Review of Implementation Status</i></b>
1:30 - 2:00	Status of Data Submission Data Availability and Clarifications
<b>Session 4.</b>	<b><i>Housing Volume: Review of Data</i></b>
2:00 - 3:00	Intra-Economy Validation <i>Additivity</i> <i>Ratios</i> <i>Rate of Change</i> Inter-Economy Validation
<b>3:00 - 3:30</b>	<b><i>Break</i></b>
3:30 - 4:00	<i>Inter-Economy Validation (cont'd)</i>
<b>Session 5.</b>	<b><i>Housing Approaches: Measuring Housing PPPs in Asia and the Pacific</i></b>
4:00 - 4:45	PPPs from the two Housing approaches Other/New Housing approaches
<b>Session 6.</b>	<b><i>Concluding Session</i></b>
4:45 - 5:00	Other Matters and Concluding Remarks



附錄 I Eighteenth Regional Workshop – Technical Evaluation and Review of Government Compensation Data



**KSTA 9898: 2020 International Comparison Program (ICP) for Asia and the Pacific**

**Eighteenth Regional Workshop: Technical Evaluation and Review of Government Compensation Data**

**Venue: Virtual via Microsoft Teams**

**Date: 29 September 2022**

Session	Particulars
<b>Thursday, 29 September</b>	
11:30 – 12:00	Registration and Reminders
<b>Session 1.</b>	<b><i>Opening Session</i></b>
12:00 – 12:45	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
<b>Session 2.</b>	<b><i>Review of Government Compensation Data: Status and Intra-economy Validation</i></b>
12:45 – 2:00	Status of Government Compensation data submission Key Points and Results: Intra-economy Validation <i>Intra-economy Summary Statistics</i>
<b>Session 3.</b>	<b><i>Review of Government Compensation Data: Status and Inter-economy Validation</i></b>
2:00 – 3:00	<i>Summary of Inter-economy Validation Module</i> <i>Open Discussion</i>
<b>3:00 – 3:30</b>	<b><i>Break</i></b>
<b>Session 3.</b>	<b><i>Review of Government Compensation Data: Status and Inter-economy Validation (Cont'd)</i></b>
3:30 – 4:30	<i>Summary of Inter-economy Validation Module</i> <i>Open Discussion</i>
<b>Session 4.</b>	<b><i>Concluding Session</i></b>
4:30 – 5:00	Other Matters and Concluding Remarks

附錄 J Nineteenth Regional Workshop – Technical Evaluation and Review of Q1 to Q4 2021 Household Consumption Prices



**KSTA 9898: 2020 International Comparison Program (ICP) for Asia and the Pacific**

**Nineteenth Regional Workshop: Technical Evaluation and Review of Q1 to Q4 2021**

**Household Consumption Prices**

**Venue: Virtual via Microsoft Teams**

**Date: 18-20 October 2022**

Session	Particulars
<b>Tuesday, 18 October</b>	
11:30 - 12:00	Registration and Reminders
<b>Session 1.</b>	<b>Opening Session</b>
12:00 - 1:00	Opening Remarks Introduction of the Participants Workshop Objectives and Agenda
<b>Session 2.</b>	<b>Review of Household Consumption Prices: Status and Intra-economy Validation</b>
1:00 - 3:00	Status of Household Consumption Price Surveys Key Points and Results: <i>Intra-economy Validation</i> <i>Number of Items Priced by Major Category and Basic Heading</i> <i>Intra-economy Summary Statistics</i> Summary of <i>Inter-economy Validation</i> <i>Inter-economy Validation-Recommended Courses of Action</i>
<b>3:00 - 3:15</b>	<b>Break</b>
<b>Session 3.</b>	<b>Review of Household Consumption Prices: Inter-economy Validation</b>
3:15 - 5:00	Inter-economy Validation of Items Priced for Priority Basic Headings/Items <i>by Major Category and/or Basic Heading</i>
<b>Wednesday, 19 October</b>	
<b>Session 3.</b>	<b>Review of Household Consumption Prices: Inter-economy Validation</b>
12:00 - 3:00	Inter-economy Validation of Items Priced for Priority Basic Headings/Items ( <i>cont'd</i> ) <i>by Major Category and/or Basic Heading</i>
<b>3:00 - 3:15</b>	<b>Break</b>
3:15 - 5:00	Inter-economy Validation of Items Priced for Priority Basic Headings/Items ( <i>cont'd</i> ) <i>by Major Category and/or Basic Heading</i>
<b>Thursday, 20 October</b>	
<b>Session 3.</b>	<b>Review of Household Consumption Prices</b>
12:00 - 2:45	Inter-economy Validation of Items Priced for Priority Basic Headings/Items ( <i>cont'd</i> ) <i>by Major Category and/or Basic Heading</i>
<b>2:45 - 3:00</b>	<b>Break</b>
3:00 - 4:00	Inter-economy Validation of Items Priced for Priority Basic Headings/Items ( <i>cont'd</i> ) <i>by Major Category and/or Basic Heading</i>
<b>Session 4.</b>	<b>Other Matters</b>
4:00 - 4:30	Extrapolation/Back-casting of Prices
4:30 - 5:00	Introduction to CAPI Tool for ICP Household Survey
<b>Session 5.</b>	<b>Concluding Remarks</b>