Segunda Reunión Técnica del Programa de Comparación Internacional (PCI)

## ICP 2017: Machinery & Equipment (M&E) PCI 2017: Maquinaria & Equipo (M&E)



## Objective of the M&E survey

Overview of the M&E survey form

## Review of the M&E survey form

- Item examples
- Survey Form and Data entry
- Decision on the form structure for LAC

## Frequently Asked Questions

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## **Objective of the M&E survey**

The objective is to gather the price information needed to construct PPPs to deflate the Machinery & Equipment component of Gross Fixed Capital Formation (a GDP component)

Special survey (and form) needed because prices are not as easily observed as those for household consumption



#### Pricing approach

Similar to that of household consumption goods: countries collect national average prices for items from a common list of predefined items

#### Changes with respect to ICP 2011 M&E survey

- 1. Number of items and basic headings about the same as ICP ICP
- 2. Some, but not all, items and item definitions were updated (each item has notes on the update, if any)
- 3. Item codes were changed due to updated ICP classification
- 4. Specified items will now have an unspecified counterpart, where applicable
- 5. Countries asked to list the characteristics of each item priced in order to assess its compatibility with the item listed, e.g. for 'tractor'; specify *price*, but also specify *model*, *power of engine*, etc.



HEADING	LEVEL	NUMBER OF ITEMS		
		Specified	Unspecified	Total
GROSS FIXED CAPITAL FORMATION	Category	107	89	196
MACHINERY AND EQUIPMENT	Group	92	84	176
Metal products and equipment	<u>Class</u>	81	73	154
Fabricated metal products	BH	7	3	10
Electrical and optical equipment	BH	35	31	66
General purpose machinery	BH	13	13	26
Special purpose machinery	BH	26	26	52
Transport equipment	<u>Class</u>	11	11	22
Road transport equipment	BH	11	11	22
Other transport equipment	BH	-	-	-
• • •	• • •	• • •	• • •	• • •
OTHER PRODUCTS	Group	15	5	20
Other products	<u>Class</u>	15	5	20
Other products	BH	15	5	20



HEADING	LEVEL	NUMBER OF ITEMS		
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Electrical and optical equipment	BH	35	31	66
General purpose machinery	BH	13		26
Special purpose machinery	BH	20/ 3	classes	52
<u>Transport equipment</u>	Class			22
Road transport equipment	BH	11	11	22
Other transport equipment	BH	-	-	-
•••	• • •		• • •	•••
OTHER PRODUCTS	Group	15	5	20
Other products	Class	15	5	20
Other products	BH	15	5	20



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Special purpose machinery	BH	26 h	eadings	52
Transport equipment	<u>Class</u>	11		22
Road transport equipment	BH	1	11	22
Other transport equipment	BH	-	-	-
•••	• • •		• • •	•••
OTHER PRODUCTS	Group	15	5	20
<u>Other products</u>	<u>Class</u>	15	5	20
Other products	ВН	15	5	20



Overview of the M&E survey					
Most, but not all, <i>specifie</i>		NUM	IBER OF ITEMS		
HEAD items have an unspecifie		Specified	Unspecified	Total	
GRO COUNTERPART	ategory	107	89	196	
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Metal products and equipment	<u>Class</u>	81	73	154	
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Special purpose machinery	BH	26	26	52	
<u>Transport equipment</u>	<u>Class</u>	11	11	22	
Road transport equipment	BH	11	11	22	
Other transport equipment	BH	-	-	-	
•••	•••	•••	•••	• • •	
OTHER PRODUCTS	Group	15	5	20	
<u>Other products</u>	<u>Class</u>	15	5	20	
Other products	BH	15	5	20	



#### **Example:** Specified vs. Unspecified

#### Portable rotary screw compressor [Compresor rotativo portátil (de tornillo)]

Código del artículo	1501115020			
Nombre del artículo	Portable rotary screw compressor Propuesto			
Fabricante (y país de origen)	Atlas Copco	(Sweden)		
Modelo	XAS 68 Kd S	8 Series		
	Metric	Imperial		
Free air delivery	3.5 m³/min.	135 CFM		
Working pressure	7 bar	100 psi		
Sound power level (EC Stage II)	98 dB	98 dB		
Engine: number of cylinders	4	4		
Full load speed	3000 rpm	3000 rpm		
Output at rated speed	26.5 kw	35.5 hp		
With brakes and adjustable towbar	yes	yes		
Without particle filter	yes	yes		
Overall width	135 cm.	53 in		
Overall length	229 cm.	90 ins		
Height	140 cm.	55 in		
Weight	650 kg (box unit)	1433 lb (box unit)		
Company website	www.atlascopco.com	www.atlascopco.com		
Type of price information	(1-4)	(1-4)		
Price from the Internet	yes/no	yes/no		

An unspecified item will have the <u>same</u> specifications as an existing item (whether or not on the M&E list) <u>except</u> for the brand

Unspecified does **not imply** brand less, e.g. unspecified hacksaw (sierrano especificada) will still have a brand, which needs to be reported



#### **Example:** Specified vs. Unspecified

#### Portable rotary screw compressor [Compresor rotativo portátil (de tornillo)]

#### Specified Item

#### Código del artículo Código del artículo 1501115010 1501115020 Nombre del artículo Portable rotary screw compressor Nombre del artículo Portable rotary screw compressor **Propuesto** Propuesto Atlas Copco (Sweden) Fabricante (y país de origen) Fabricante (y país de origen) Unspecified Modelo Unspecified Modelo XAS 68 Kd 8 Series Metric Imperial Metric Imperial Free air delivery 3.5 m³/min 135 CFM Free air delivery 3.5 m<sup>3</sup>/min 135 CFM Working pressure Working pressure 7 bar 100 psi 7 bar 100 psi Sound power level (EC Stage II) Sound power level (EC Stage II) 98 dB 98 dB 98 dB 98 dB Engine: number of cylinders Engine: number of cylinders Full load speed Full load speed 3000 rpm 3000 rpm 3000 rpm 3000 rpm Output at rated speed Output at rated speed 26.5 kw 26.5 kw 35.5 hp 35.5 hp With brakes and adjustable towbar With brakes and adjustable towbar yes yes yes yes Without particle filter Without particle filter yes yes yes yes **Overall width** Overall width 135 cm 53 in 135 cm 53 in **Overall length** 229 cm **Overall length** 229 cm 90 ins 90 ins Height Height 140 cm 55 in 140 cm 55 in Weight Weight 650 kg (box unit) 1433 lb (box unit) 650 kg (box unit 1433 lb (box unit) Company website Company website www.atlascopco.com www.atlascopco.com Type of price information Type of price information (1-4)(1-4)(1-4)(1-4)Price from the Internet yes/no yes/no Price from the Internet yes/no yes/no



**Unspecified Item** 

#### **Example:** Fabricated metal products

#### Hacksaw - Bahco (Sweden) 325 [Sierra para metales Bahco (Suecia) - 325]



Código del artículo	1501111070		
Nombre del artículo	Hacksaw		ENTRADA DE DATOS
	Prop	uesto	Observado
Fabricante (y país de origen)	Bahco (	Sweden)	
Modelo	3	25	
	Metric	Imperial	Observado
Strong rigid steel tube for ease of use	aluminium frame	aluminium frame	
Integrated blade storage	no	no	
Quick release blade changing mechanism	yes	yes	
No. of teeth/cm/inch	24 TPI	24 TPI	
With tension guide on handle lever	yes	yes	
No. of cutting positions	2	2	
Blade length	300 mm	11.8 in	
Company website	www.bahco.com	www.bahco.com	
Type of price information	(1-4)	(1-4)	
Price from the Internet	yes/no	yes/no	

#### **Example:** Electrical and optical equipment

#### Portable generator - Unspecified [Generador portátil - No Especificado]



Código del artículo	1501112350		
Nombre del artículo	Portable generator		ENTRADA DE DATOS
	Prop	uesto	Observado
Fabricante (y país de origen)	Unsp	ecified	
Modelo	Unsp	ecified	
	Metric	Imperial	Observado
Fuel type	Petrol	Petrol	
Four stroke engine	yes	yes	
Max power output	3.6 kW	4.8 bhp	
Output voltage (50 Hz)	115/230 V	115/230 V	
Output: rated	3.4 kW	4.6 bhp	
Current	31/15.5 A	31/15.5 A	
Cont. op. hours w/o refuelling	2.9	2.9	
With generator frame housing	yes	yes	
Fuel tank Capacity	6.01	1.3 galls	
Dimensions	800 x 550 x 540 mm	31.5 x 21.7 x 21.3 ins	
Dry weight	58 kg	128 lbs.	
Company website			
Type of price information	(1-4)	(1-4)	
Price from the Internet	yes/no	yes/no	



#### **Example:** Electrical and optical equipment

#### **Portable generator - Unspecified** [Generador portátil - No Especificada]



Código del artículo	1501112350		
Nombre del artículo	Portable generator		ENTRADA DE DATOS
Fabricante (y país de origen)ModeloFuel typeFour stroke engineMax power outputOutput voltage (50 Hz)Output: ratedCurrentCont. op. hours w/o refuellingWith generator frame housingFuel tank CapacityDimensionsDry weightCompany website	Unspe Unspe Metric Petrol yes Note: ide be tricky 1. Look a 2. Look a	ecified Imperial Petrol yes entifying unsport v. Some tips: at the specified of	(for specified item)
Type of price information Price from the Internet	(1-4) yes/no	(1-4) yes/no	

#### **Example:** Road transport equipment

**Tractor unit - Mercedes Benz (Germany) - Actros 1843** [Tractocamión de carga para tareas pesadas - Mercedes Benz (Alemania) - Actros 1843]



Código del artículo			
Nombre del artículo			ENTRADA DE DATOS
	Prop	uesto	Observado
Fabricante (y país de origen)	Mercedes Be	nz (Germany)	
Modelo	Actros 184	3 LS 4x2 F11	
	Metric	Imperial	Observado
Engine Euro 6 compliant	yes	yes	
G. V. W.	18000 kg	39683 lbs	
Engine no.	OM 470	OM 470	
Engine Capacity	10.7	653 in <sup>3</sup>	
Power of engine	315 kw	422 bhp	
Gearbox: number of forward speeds	12-speed, automatic transmission	12-speed, automatic transmission	
Braking system	ABS and ASR	ABS and ASR	
Type of suspension: front	spring	spring	
Type of suspension: rear	full air	full air	
Wheelbase	3550 mm	139.8 ins	
With standard sleeper cab: length	2300 mm (L-cab StreamSpace)	90.6 ins (L-cab StreamSpace)	
With standard roof	yes	yes	
Company website	http://trucks.mercedes-benz.com	http://trucks.mercedes-benz.com	
Type of price information	(1-4)	(1-4)	
Price from the Internet	yes/no	yes/no	



#### **Example:** Other products

#### Computer software - Microsoft (USA) - SQL Server 2016 Enterprise Core Edition [Software - Microsoft (Estados Unidos) - SQL Server 2016 Enterprise Core Edition]

Código del artículo	jo del artículo 1501311190		
Nombre del artículo	Computer software		ENTRADA DE DATOS
	Prop	uesto	Observado
Fabricante (y país de origen)		oft (USA)	
Modelo	SQL Server 2016 En	terprise Core Edition	
	Metric	Imperial	Observado
Platform	Windows - 64 bit	Windows - 64 bit	
Category	Business applications	Business applications	
Licence type	MOLP, NL	MOLP, NL	
Licence quantity	2 cores	2 cores	
Licensing pricing	License only	License only	
Language	Single language	Single language	
Company website	www.microsoft.com	www.microsoft.com	
Type of price information	(1-4)	(1-4)	
Price from the Internet	yes/no	yes/no	



## Survey Form and Data Entry

- M&E Survey Form includes the following sheets:
- Index (to view and access all survey form sheets)
- Instructions (general instructions, explanatory notes for recording of data, explanation of pricing guidelines)
- Country Data sheet (for country to enter name, currency, ISO code, and year prices correspond to)
- Individual item sheets (one sheet per item)
- Database sheet (records all data entered in item sheets)
- Item Re-classification sheet (concordance table between 2017 and 2011 ICP)



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## Survey Form and Data Entry

# What is the link between data entered in the individual item sheets and the database sheet?

	<b>INDEX</b> (You can click the below link to go to the sheet)
<u>0.</u>	Cover Page
<u>1.</u>	Index
<u>2.</u>	Instructions
<u>3.</u>	Country Data
<u>150111102</u>	Double skinned underground horizontal cylindrical storage tank - Unspecified
<u>150111103</u>	Double skinned underground horizontal cylindrical storage tank - Unspecified
<u>150111104</u>	Stainless steel beer keg - Unspecified
<u>150111105</u>	Packaged steam boiler - Unspecified
<u>150111106</u>	Hacksaw - Unspecified
<u>150111107</u>	Hacksaw - Bahco (Sweden): 325
<u>150111108</u>	Hacksaw - Stanley (USA): Turbocut (1-20-110)
<u>150111109</u>	Automotive tool set - Facom (France): Tool set 2143.M in box BT.11A
<u>150112101</u>	Portable rotary screw compressor - Unspecified
<u>150112102</u>	Portable rotary screw compressor - Atlas Copco (Sweden): XAS 67 Dd Series 7
<u>150112103</u>	Portable rotary screw compressor - Atlas Copco (Sweden): XAS 77 Dd Series 7
150311107	Computer software - Microsoft (USA): Microsoft Visual Studio Pro 2013
<u>150311108</u>	Computer software - Adobe (USA): Creative Cloud for teams 2014
<u>150311109</u>	Computer software - Adobe (USA): Adobe Acrobat XI Pro (Retail)
<u>150311112</u>	Anti-virus software - McAfee (USA): Total Protection 2015 3 User fyr
<u>150311113</u>	Anti virus software - Symantec (USA): Norton Security 2015 5 devices 1yr
<u>150311114</u>	Computer software - Microsoft (USA): SQL Server 2014 Enterprise Core Edition
4.	Database

Data for each item is entered in each corresponding - individual item sheet...

> ..all entered data entered in the individual sheets is "recorded" to the database sheet for easy extraction (so, do not enter anything here).

## Survey Form and Data Entry: Item Sheet

Item Code	1501115120		DATA ENTRY
Item Name	Water pump 18 x 24		
	Proposed		Observed
Make (and nationality)	Grundfos (Denm	ark)	
Model	TP 32-320/2		
	Metric	Imperial	Observed
Type: single stage centrifugal in-line single head	yes	yes	
Rated head	24.04 m	78.9 ft	
Rated capacity	17.6 m³/h	10.4 cfm	
Speed	2900 rpm	2900 rpm	
Max. working pressure	16 bar	232 psi	
Shaft: stainless steel	yes	yes	
Pump and impeller: cast iron	yes	yes	
Impeller diameter	155 mm	6.1 in	
Rated voltage/frequency Power of motor	3x380-415V/50hz 2.2 kw	3x380-415V/50hz 2.9 bhp	
No. of poles	2.2 KW	2.9 DNP c	
Total weight, including baseplate	52 kg	115 lb	
Company website	www.grundfos.com	www.grundfos.com	
Type of price information	(1-4)	(1-4)	
Price from the Internet	yes/no	yes/no	
	Prices		Observed
	Unit base price		
	Order quantity		
	Delivery cost/unit		
	Installation cost per unit		
Ot	her unit costs (please specify here)		
	Discount per unit (%)		
	Non-deductible taxes		
Total unit price net of deductible taxes and discount			0
	Importance		
Is the item			
	Notes		Specifications revised. The product code for this model is 96086769.
	Comments		
	Date of collection (mm/dd/yyyy)		

Enter observed brand and model

Enter observed technical details and extra information (price type, internet price or not)

Enter observed price and other details (**note**: <u>no</u> need to calculate total unit price, a formula does this)

Enter comments and the <u>date</u> the reported price refers to



## Survey Form and Data Entry: Item Sheet

Item Code	1501115120			
Item Name	Water pump 18 x 24		DATA ENTRY	Enter observed
	Propose	d	Observed	
Make (and nationality)	Grundfos (Denmark)			brand and model
Model	TP 32-320/2			
<del></del>	Metric	Imperial	Observed	$\prec$
Type: single stage centrifugal in-line singl head	yes	yes		
Rated head	24.04 m	78.9 ft		Enter observed technical
Rated capacity	17.6 m³/h	10.4 cfm		Enter observed technical
Speed	2900 rpm	2900 rpm		datails and outra information
Max. working pressure	16 bar	232 psi		details and extra information
Shaft: stainless steel	yes	yes		- (price type interpet price or
Pump and impeller: cast iron	yes	yes		🚽 🗁 (price type, internet price or
Impeller diameter	155 mm	6.1 in		
Rated voltage/frequency	3x380-415V/50hz	3x380-415V/50hz		not)
Power of motor	2.2 kw	2.9 bhp		Helpful tips were added
No. of poles	2	2		
Total weight, including baseplate	52 kg	115 lb		here, for ex: model name to
Company website	www.grundfos.com	www.grundfos.com		nere, for ex. model name to
				find online indication
				find online, indication
				whether item changed with
Type of price information	(1-4)	(1-4)		
Price from the Internet	yes/no	yes/no		Enter observ respect to 2011 ICP, etc.
	Prices		Observed	
	Unit base price			other details (note: <u>no</u> need
	Order quantity			
	Delivery cost/unit			to calculate total unit price,
	Installation cost per unit			i lo valculate total unit price,
C	Other unit costs (please specify here)			-     a tarmula door thic)
	Discount per unit (%)			formula does this)
	Non-deductible taxes			
Total unit p	price net of deductible taxes and disco	ount	0	
	Importance			
Is the item priced important (1) or less important (0)?		······································		
NOTAS		pecifications revised. The produce ode for this model is 96086769.		
Comments				
Date of collection (mm/dd/yyyy)				

## Survey Form and Data Entry: Price Concept

Prices	Observed
Unit base price	
Order quantity	
Delivery cost/unit	
Installation cost per unit	
Other unit costs (please specify here)	
Discount per unit (%)	
Non-deductible taxes	
Total unit price net of deductible taxes and discount	0
Importance	
Is the item priced important (1) or less important (0)?	
Notes	
Comments	
Date of collection (mm/dd/yyyy)	

- Prices reported must be for one unit, regardless of the order quantity (ideally should be 1).
- Purchaser prices are required (for the machinery installed and ready for use), so countries must:
  - Report (unit) costs of transporting the asset to the place where it will be used
  - Report any (unit) charges for installing the asset so that it is ready for use in production
  - Report any (unit) discounts
  - Report non-deductible product taxes paid by the purchaser (but only if these are <u>nondeductible</u>!)
- Total unit price (net of deductible taxes and discounts) will be generated automatically by an Excel formula in the sheet if and only if the relevant price cells are filled
- Note: second-hand goods are <u>not</u> to be priced



## Survey Form and Data Entry: Price Concept

Prices	Observed
Unit base price	
Order quantity	
Delivery cost/unit	
Installation cost per unit	
Other unit costs (please specify here)	
Discount per unit (%)	
Non-deductible taxes	
Total unit price net of deductible taxes and discount	0
Importance	
Is the item priced important (1) or less important (0)?	
Notes	
Comments	
Date of collection (mm/dd/yyyy)	

Recall: the instructions sheet explains these details and more!

- Prices reported must be for one unit, regardless of the order quantity (ideally should be 1).
- Purchaser prices are required (for the machinery installed and ready for use), so countries must:
  - Report (unit) costs of transporting the asset to the place where it will be used
  - Report any (unit) charges for installing the asset so that it is ready for use in production
  - Report any (unit) discounts
  - Report non-deductible product taxes paid by the purchaser (but only if these are <u>nondeductible</u>!)
- Total unit price (net of deductible taxes and discounts) will be generated automatically by an Excel formula in the sheet if and only if the relevant price cells are filled
- Note: second-hand goods are <u>not</u> to be priced



## Survey Form and Data Entry: Other Details

Prices	Observed
Unit base price	
Order quantity	
Delivery cost/unit	
Installation cost per unit	
Other unit costs (please specify here)	
Discount per unit (%)	
Non-deductible taxes	
Total unit price net of deductible taxes and discount	0
Importance	
Is the item priced important (1) or less important (0)?	
Notes	
Comments	
Date of collection (mm/dd/vvvv)	

- Report if the item priced is important (within the basic heading)
- Add any comments (e.g. any of the requested price info was already included in unit base price)
- Report the date the price reported refers to
  - ideally price for 2017 (but always report the date)
  - maybe prices for 2018 are more feasible?



### Decision on LAC 2017 ICP M&E Form Structure

Item Code				
Item Name	Water pump 18 x 24		DATA ENTRY Observed	
	Proposed			
Make (and nationality)	Grundfos (Denm	ark)		
Model	TP 32-320/2			
	Metric	Imperial	Observed	
Type: single stage centrifugal in-line single head	yes	yes		
Rated head	24.04 m	78.9 ft		
Rated capacity	17.6 m³/h	10.4 cfm		
Speed	2900 rpm	2900 rpm		
Max. working pressure	16 bar	232 psi		
Shaft: stainless steel	yes	yes		
Pump and impeller: cast iron	yes	yes		
Impeller diameter	155 mm 6.1 in			
Rated voltage/frequency	3x380-415V/50hz 3x380-415V/50hz			
Power of motor	2.2 kw	2.9 bhp		
No. of poles	2	2		
Total weight, including baseplate	52 kg	115 lb		
Company website	www.grundfos.com	www.grundfos.com		
Type of price information	(1-4)	(1-4)		
Price from the Internet	yes/no	yes/no		
	Prices		Observed	
	Unit base price			
	Order quantity			
	Delivery cost/unit			
	Installation cost per unit			
Ot	her unit costs (please specify here)			
	Discount per unit (%) Non-deductible taxes			
Total unit pr	0			
	Importance			
Is the item	priced important (1) or less important (0)?			
		pecifications revised. The product ode for this model is 96086769.		
	Comments			
	Date of collection (mm/dd/yyyy)			

#### <- Currently like this

Countries compute national averages <u>on their own sheets</u> (i.e. outside the form) and use the form to report:

 one price observation per item sheet (=national average price), plus the other details requested (once)

parameters observed



### Decision on LAC 2017 ICP M&E Form Structure

Item Code	1501115120			Data Entry 1	Data Entry 2	Data Entr
Item Name	Water pump 18 x 24			Data Entry 1	Data Entry 2	Data Entr
	Propo		Observed	Observed	Observe	
Make (and nationality)	Grundfos (E	Denmark)				
Model	TP 32-3	320/2				
	Metric	Imperial		Observed	Observed	Observe
Type: single stage centrifugal in-line single						
head	yes	yes				
Rated head	24.04 m	78.9 ft				
Rated capacity	17.6 m³/h	10.4 cfm				
Speed	2900 rpm	2900 rpm				
Max. working pressure	16 bar	232 psi				
Shaft: stainless steel	yes	yes				
Pump and impeller: cast iron	yes	yes				
Impeller diameter	155 mm	6.1 in				
Rated voltage/frequency	3x380-415V/50hz	3x380-415V/50hz				
Power of motor	2.2 kw	2.9 bhp				
No. of poles	2	2				
Total weight, including baseplate	52 kg	115 lb				
Company website	www.grundfos.com	www.grundfos.com				
Type of price information	(1-4)	(1-4)				
Price from the Internet	yes/no	yes/no				
	Prices		Average	Observed	Observed	Observe
	Unit base price					
	Order quantity					
	Delivery cost/unit					
	Installation cost per unit					
01	ther unit costs (please specify here)					
	Discount per unit (%)					
	Non-deductible taxes					
Total unit pr	rice net of deductible taxes and d	iscount				
	Importance					
Is the item priced important (1) or less important (0)?						
	Notes					
	Comments					
	Date of collection (mm/dd/yyyy)					
					-	_

# <- Proposal to help countries

Allow countries to report more than one observation in each individual item sheet and have the sheet calculate the national average of the reported price observations

parameters observed would have to be reported for <u>each</u> <u>observation</u>

crucial to report collection date for <u>each observation</u>



## Frequently Asked Questions (1)

How many items to price?

As many as you can, while ensuring you cover all basic headings.

#### How many price observations per item?

Depends on the national price variation of the item. However, less observations are usually needed for M&E than, say, rice and most consumer goods. It may even by one observation in some cases.

#### Do I have to collect prices in all cities in my country?

Again, depends on the national price variation of the item. This will be more of a concern for larger countries. It may be a good idea to think of what cities/areas accounts for most of the national expenditure on M&E. Price collection can target those areas.



## Frequently Asked Questions (2)

### What price parameters are important?

In principle, all, that's why they were listed (plus they are not many). However, often, but not always, the first parameters (from top to bottom) are the more important ones.

### Why report the price parameters observed?

For validation purposes. During the 2011 ICP, questions arose during validation as to whether countries did or did not include costs of transportation, installation, etc. (included in the purchasing price)



## Frequently Asked Questions (3)

Why have both specified and unspecified items?

So that country prices are more representative. We want to avoid situations where countries have M&E, but are not pricing items because they are unable to find a specific brand or model.

Why report the price parameters observed?

For validation purposes. During the 2011 ICP, questions arose during validation as to whether countries did or did not include costs of transportation, installation, etc. (included in the purchasing price)



## Frequently Asked Questions (4)

#### I work on CPI, where and how do I get these prices?

Prices of equipment goods may be obtained directly from producers, importers, distributors, or sometimes catalogues. Asking colleagues working on PPI can be beneficial. In the past, ICPs prices were collected by the method countries found the most convenient such as personal visit, telephone, letter, or online.

What distance do I use to report the average delivery unit cost? If not provided when you obtain the prices, these should be estimated by countries selecting their own average distance over which the items are transported and delivered. Again, think of what locations account for most of the national expenditure on M&E



## After the meeting you will receive:

LAC 2017 ICP M&E Survey Form (includes item pictures and instructions)

Access to item brochures to view specified items (to help identify and understand the items)

This presentation in English & Spanish (so you can share it)



# Thank you! / ¡Gracias!



## **Annex: Brochure Example**

A set of brochures with pictures and item descriptions for specified items

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Double skin underground fuel storage

CZ have been manufacturing underground tanks since 1961 and double skinned tanks since 1989. Their Deuma automated equipment ensures tanks are superb in terms of concentricity and straightness and the submerged arc welding in and out ensures quality of welding techniques and elimination of weld stresses. They can supply not only the tanks but many ancillary items such as holding down straps, access chambers, ground covers, suction pipes, fill pipes and overfill prevention valves. Via their sister company CZ can supply UPP piping and fittings making a onestop shop a reality.

All tanks are fully tested and certified to BS EN 12285 specification and, on completion of manufacture, are externally blast cleaned to SA 2.5 followed by a coating of solvent-free polyurethane. This coating receives a 100% pin-hole test on completion.

Specification Summary				
Capacity Range	5,000 to 100,000 Litres			
Tank Diameters	1250mm, 1500mm, 1900mm, 2000mm, 2500mm, 2743mm, 3000mm			
Tank Length	If it can be transported CZ can build it			
Specification	BS EN 12285 part 1			
External Coatings	Polyeurethane, Epoxy, Bitumen			
Internal Linings	Epoxy			
Testing	Pneumatic or Hydraulic			



If you believe that the modular PetroFast system may suit your installation specification please contact Cookson and Zinn on the number given below and full information will be provided







Double skin underground fuel storage

#### • The UK's number one tank manufacturer with over 45 years experience

- 5,000 to 100,000 Litre capacity
- Deuma automated assembly for maximum concentricity and straightness
- Single or multi-compartment
- Both skins tested and certified on completion
- Externally blast cleaned and coated
- 100% pin-hole test on finished coating
- Ancillary items supplied