

INTERNATIONAL MEETING ON SERVICES VALUE-ADDED IN EXPORTS

Services and trade policies for diversification and upgrading

Brasilia, Brazil, 22-23 October 2019

SERVICES AND EXPORTS OF SERVICES IN THE MEXICAN ECONOMY

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MINISTÉRIO DA
ECONOMIA





**Services and exports of services
in the Mexican economy**

Agenda

- | | | | |
|----------|---|----------|--|
| 1 | Services in the Mexican Statistical Framework | 5 | Extended Supply-Use Tables |
| 2 | Main changes from BPM5 to BPM6 | 6 | Global Manufacturing Exports Value Added (VAEMG) |
| 3 | Services in the MSNA | 7 | Services GVA by activity |
| 4 | Services mirror statistics in the intercountry NA TiVA Initiative | 8 | VAX of services by input-output model |

MSNA: Mexican System of National Accounts
VAEMG as a Spanish acronym



**Services in the Mexican
Statistical Framework**

Services Trade in the Mexican Statistical Framework

INEGI is by the Mexican Law the coordinator for the National System of Statistical Information and Geography and also in charge of the Information of National Interest, like GDP and the System of National Account of Mexico. .

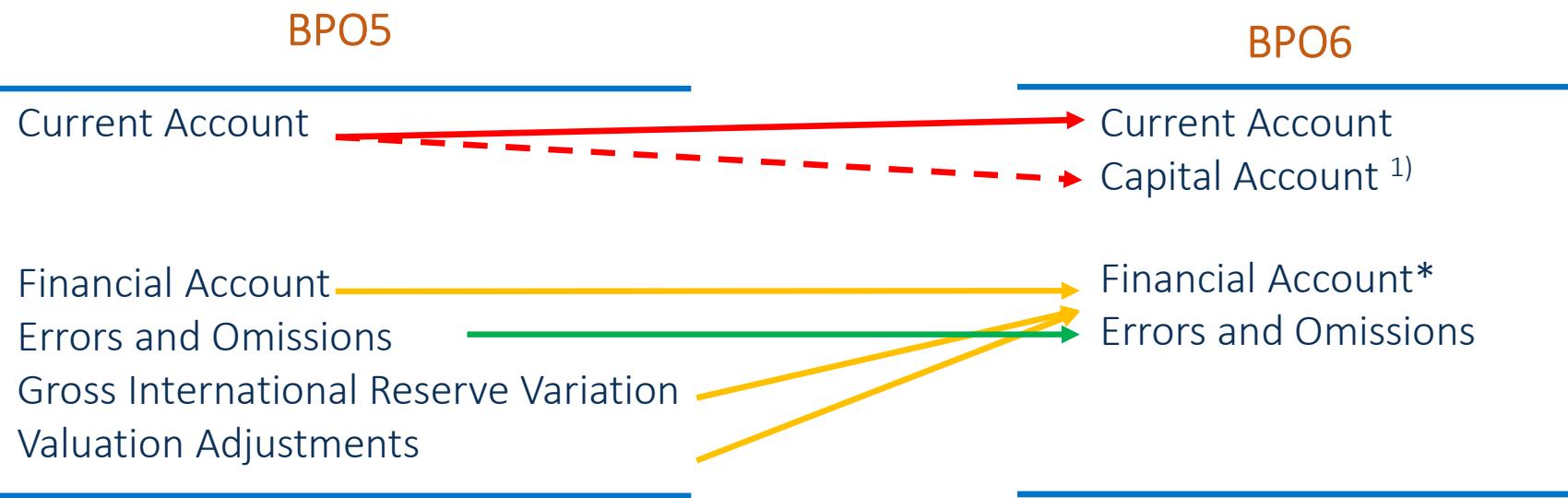
Bank of Mexico, the central bank is responsible for the BOP, and all the items are included in the National Accounts on the Goods and Services accounts and Supply and Use Tables (SUT) and in the Integrated Economic Accounts by institutional sector.





**Main changes from BPM5 to
BPM6**

Changes in the Structure of the Balance of Payments for Mexico



* Includes the Gross International Reserve Variation and the Valuation Adjustments.

1) Capital transfers are recorded in the Capital Account of MBP6, as well as the acquisition and disposal of non-produced non-financial assets, unlike the Capital Account of MBP4, which conceptually corresponds to the Financial Account of both MBP5, as of MBP6.

BPO5 Current account

Income	
Goods	
General merchandise ^{1/}	
Goods acquired in ports by means of transport	
Services	
Tourists	
Excursionist	
Miscellaneous transport	
Others ^{2/}	
Rent	
Interests ^{3/}	
Others	
Transfers	
Remittances	
Others	

BPO6 Current account

Credit	
Goods	
Merchandise exports	
Goods acquired in ports by means of transport	
Services	
Travels	
Transport	
Insurance and pension services	
Financial services	
Others	
Primary income	
Interests	
Profits and dividends	
Profits	
Dividends	
Others	
Secondary income	
Remittances	
Others	

The disaggregation will continue to be presented in complementary tables.

New opening

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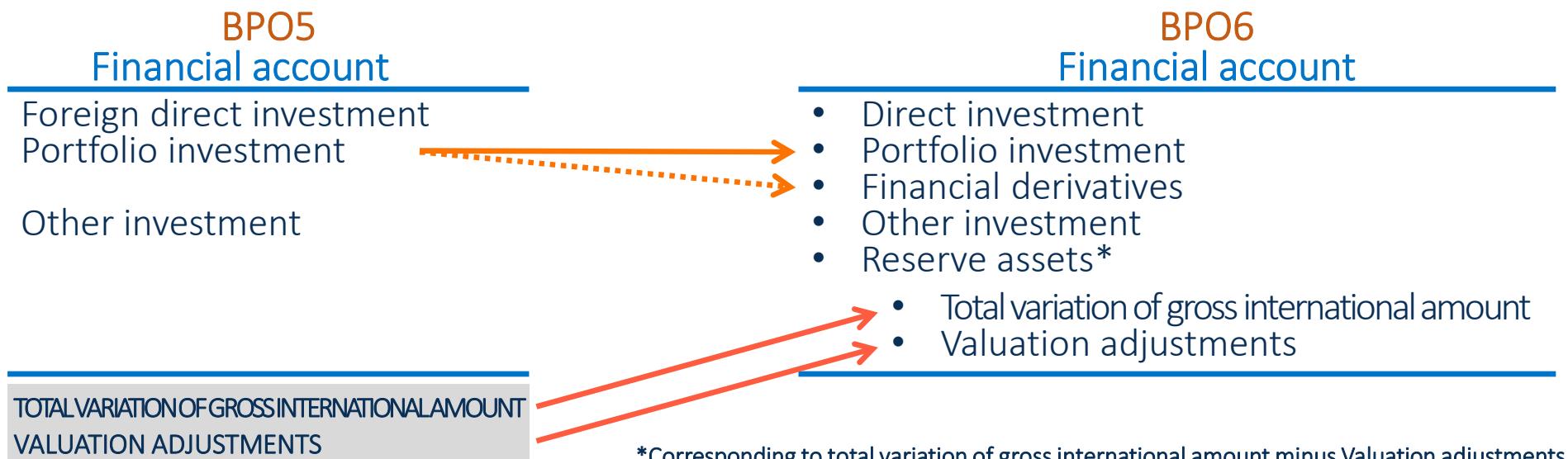
1 / Corresponds to the official statistics of the Trade Balance of Goods of Mexico. SAT, SE, Bank of Mexico, INEGI. SNIEG Information of National Interest.

2 / The information in this item is reallocated in MBP6 to Insurance and Pension Services, Other Services and to the Capital Account. Examples of reallocations are: the sale of a registered trademark is included in the Account of Capital; Reinsurance services revenues are classified under Insurance and pension services.

3 / The part of the interest income of the MBP5 defined as Financial Intermediation Services Indirectly Measured is reallocated in the MBP6 to the Credit and Debit of Financial Services, as appropriate.

On the new version, financial account is composed by the next 5 components:

1. Direct investment
2. Portfolio investment
3. Financial derivatives (different of reserve assets and formerly part of portfolio investment)
4. Other investment
5. Reserve assets (formerly a independent rubric)



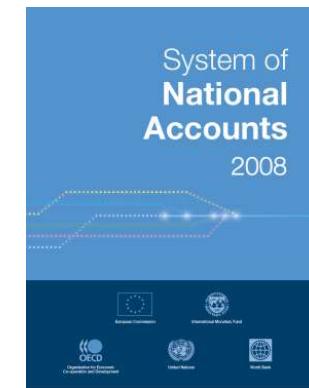
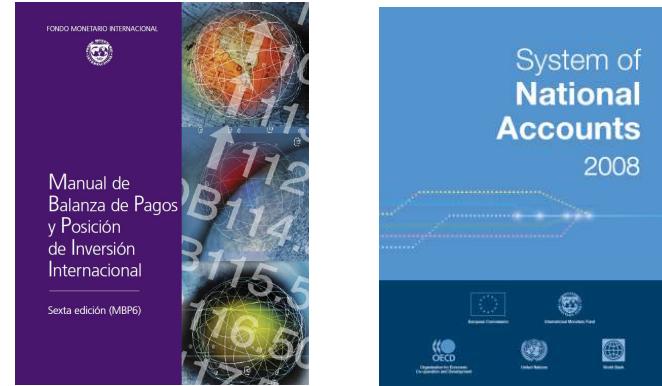
A large, abstract graphic occupies the background, consisting of several overlapping triangles in shades of blue, white, and grey. It features a photograph of a modern architectural complex with multiple levels and glass facades. The sky above the building is filled with dramatic, dark clouds.

Services in the MSNA

Indicators	2013	2014	2015	2016	2017	2018
Gross value added	100.00	100.00	100.00	100.00	100.00	100.00
Primary Sector	3.27	3.30	3.27	3.29	3.33	3.34
Secondary Sector	33.15	33.12	32.49	31.75	31.05	30.55
31-33 Manufacturing	16.47	16.68	16.66	16.47	16.63	16.58
Services sector - total	63.59	63.58	64.24	64.96	65.62	66.11
Including						
43 - Wholesale trade	8.23	8.46	8.64	8.61	8.79	8.89
46 - Retail trade	9.30	9.21	9.24	9.30	9.40	9.44
48-49 - Transportation, postal services and warehousing	6.47	6.52	6.58	6.59	6.71	6.78
51 - Mass media information	2.08	2.11	2.39	2.78	2.95	3.05
52 - Financial and insurance services	3.63	3.84	4.27	4.66	4.84	4.97
53 - Real estate services and tangible and intangible goods rental and leasing	11.85	11.75	11.67	11.59	11.53	11.49
54 - Professional, scientific and technical services	1.99	1.97	1.99	2.09	2.05	2.05
55 - Head offices	0.58	0.60	0.61	0.59	0.59	0.61
56 - Business support services, waste management and remediation services	3.69	3.58	3.52	3.57	3.71	3.79
61 - Educational services	4.25	4.15	4.02	3.96	3.92	3.86
62 - Health care and social assistance services	2.39	2.32	2.21	2.21	2.20	2.22
71 - Cultural and sporting recreation services and other recreational services	0.47	0.44	0.44	0.45	0.45	0.45
72 - Temporary accommodation services and food and beverage preparation services	2.20	2.21	2.30	2.32	2.37	2.37
81 - Other services, except government activities	2.17	2.15	2.13	2.13	2.08	2.06
93 - Legislative, governmental and justice administration activities, and activities of international and extraterritorial organizations	4.29	4.27	4.22	4.12	4.04	4.09

On may 2017, BANXICO published the BOP adopting BOP 6 manual.

The most recent base year on national accounts is 2013, it also adopted the changes in the Banxico BOP and also the SNA 2008 accounting framework, the adoption of BOP 6 manual is one of the main changes that were implemented in the MSNA base 2013 published in October 2017.



Imports and Exports Services to BoP v6

Services Trade published by Bank of Mexico are included in the SUT and other publications in the MSNA

Services were classified bases on the intrinsic nature of the products related to the NAICS class respectively.



Integration of services into SUT

Purchases by **resident** and **no residents** are **estimated** through the **aggregations** of some **imports** and **exports components**, namely:

Imports of:

- Government Goods and Services
- Travels

Exports of:

- Government Goods and Services
- Travels

Services Trade are also in the MSNA in the Tourism Satellite Account

Concepto	OPC - Oferta total a precios de comprador	MCT - Márgenes de comercio y transporte	D.21-D.31 - Impuestos sobre los productos, netos	Total	Sectores de actividad productiva			Total	P.7 - Importaciones de bienes y servicios		
				OPB - Oferta total a precios básicos	Actividades Primarias	Actividades Secundarias	Actividades terciarias		I.CIF - Importaciones C.I.F.	A.C.I.F./F.O.B. - Ajuste C.I.F./F.O.B.	ICIFTFOB - Importaciones C.I.F. (total F.O.B.)
11 - Agricultura, cría y explotación de animales, aprovechamiento forestal, pesca y caza	1 265 642	345 327	6 074	914 242	769 189	10 554	0	779 742	134 500		134 500
21 - Minería	1 553 561	62 975	55	1 490 531	0	1 463 213	0	1 463 213	27 317		27 317
22 - Generación, transmisión y distribución de energía eléctrica, suministro de agua y de gas por ductos al consumidor final	416 790	2 433	- 41 206	455 563	0	454 529.926	0	454 530	1 033		1 033
23 - Construcción	2 165 096	0	13 977	2 151 119	41 485	2 089 562	20 072	2 151 119	0		
31-33 - Industrias manufactureras	18 563 951	3 793 969	362 916	14 407 067	0	9 555 882	14 358	9 570 240	4 836 827		4 836 827
43 - Comercio al por mayor	0	- 1 579 160	0	1 579 160	0	0	1579160.256	1 579 160	0		
46 - Comercio al por menor	0	- 1 820 820	0	1 820 820	0	38045.251	1782775.01	1 820 820	0		
48-49 - Transportes, correos y almacenamiento	947 383	- 804 723	21 801	1 730 305	0	0	1689710.652	1 689 711	40 594	- 122 092	162 686
51 - Información en medios masivos	593 549	0	56 891	536 658	0	0	531686.532	531 687	4 971		4 971
52 - Servicios financieros y de seguros	1 050 933	0	96 586	954 347	0	0	878079.648	878 080	76 268	- 2 522	78 790
53 - Servicios inmobiliarios y de alquiler de bienes muebles e intangibles	2 097 961	0	4 216	2 093 745	37	38 789	2 049 291	2 088 117	5 628		5 628
54 - Servicios profesionales, científicos y técnicos	489 413	0	17 612	471 801	0	7672.575	428 786	436 459	35 343		35 343
55 - Corporativos	145 502	0	0	145 502	0	0	145502.109	145 502	0		
56 - Servicios de apoyo a los negocios y manejo de residuos y desechos, y servicios de remediación	681 856	0	6 924	674 932	0	0	673089.268	673 089	1 843		1 843
61 - Servicios educativos	748 028	0	0	748 028	0	0	748028.431	748 028	0		
62 - Servicios de salud y de asistencia social	588 144	0	6 883	581 261	0	0	581261.138	581 261	0		
71 - Servicios de esparcimiento culturales y deportivos, y otros servicios recreativos	125 377	0	13 119	112 259	0	0	112258.806	112 259	0		
72 - Servicios de alojamiento temporal y de preparación de alimentos y bebidas	577 881	0	56 459	521 423	0	72.632	521038.301	521 111	312		312
81 - Otros servicios excepto actividades gubernamentales	480 847	0	12 262	468 585	0	0	466514.899	466 515	2 070		2 070
93 - Actividades legislativas, gubernamentales, de impartición de justicia y de organismos internacionales y extraterritoriales	952 005	0	0	952 005	0	0	952004.776	952 005	0		
Total	33 443 921	0	634 567	32 809 353	810 711	13 658 321	13 173 617	27 642 648	5 166 705	- 124 614	5 291 319
A.C.I.F./F.O.B. - Ajuste C.I.F./F.O.B.	0	0	0	0					0	124 614	- 124 614
P.721 - Compras directas en el exterior por residentes	116 743	0	0	116 743					116 743	0	116 743
P.1_PAPB - Producción por actividad a precios básicos	33 560 664	0	634 567	32 926 097	810 711	13 658 321	13 173 617	27 642 648	5 283 449	0	5 283 449

INEGI. Sistema de Cuentas Nacionales de México. Cuadros de oferta y utilización 2013.
Millones de pesos a precios de 2013

Concepto	UTPC - Utilización total a precios comprador	DI - Demanda intermedia				DF - Demanda final						
		Total	Actividades Primarias	Actividades Secundarias	Actividades terciarias	Total	CP - Consumo Privado	CG - Consumo de gobierno	P.51b - Formación bruta de capital fijo	P.52 - Variación de existencias	P.6 - Exportaciones de bienes y servicios	YAO - Discrepancia estadística
11 - Agricultura, cría y explotación de animales, aprovechamiento forestal, pesca y caza	1 265 642	718 556	86 361	623 731	8 463	547 087	354 447		14 406	37 865	140 369	
21 - Minería	1 553 561	781 115	1 458	779 537	119	772 446			166 150	7 091	599 205	
22 - Generación, transmisión y distribución de energía eléctrica, suministro de agua y de gas por ductos al consumidor final	416 790	332 620	10 131	194 907	127 583	84 170	79 508				4 662	
23 - Construcción	2 165 096	191 187	12	149 109	42 066	1 973 909		9 268	1 964 641			
31-33 - Industrias manufactureras	18 563 951	7 425 497	193 619	5 903 020	1 328 858	11 138 454	5 564 062	2 796	1 291 476	157 030	4 123 090	
43 - Comercio al por mayor	0	0	0	0	0	0						
46 - Comercio al por menor	0	0	0	0	0	0						
48-49 - Transportes, correos y almacenamiento	947 383	202 322	154	54 154	148 014	745 061	737 689				7 372	
51 - Información en medios masivos	593 549	236 495	332	80 291	155 873	357 054	347 076	622	6 807		2 549	
52 - Servicios financieros y de seguros	1 050 933	300 219	4 564	80 336	215 319	750 714	709 257	4 066			37 391	
53 - Servicios inmobiliarios y de alquiler de bienes muebles e intangibles	2 097 961	387 147	740	108 897	277 510	1 710 814	1 696 642	98	14 073		0	
54 - Servicios profesionales, científicos y técnicos	489 413	412 115	652	144 553	266 910	77 298	54 003	20 303	1 751		1 241	
55 - Corporativos	145 502	145 502	0	38 072	107 430	0						
56 - Servicios de apoyo a los negocios y manejo de residuos y desechos, y servicios de remediación	681 856	636 950	815	244 218	391 917	44 906	44 906					
61 - Servicios educativos	748 028	5 495	0	443	5051	742 533	163 064	579 469				
62 - Servicios de salud y de asistencia social	588 144	5 505	0	140.752	5364.	582 639	168 652	413 987				
71 - Servicios de esparcimiento culturales y deportivos, y otros servicios recreativos	125 377	6 898	0	0.793	6896.	118 480	108 883	9 597				
72 - Servicios de alojamiento temporal y de preparación de alimentos y bebidas	577 881	87 290	133	23 685	63 472	490 591	490 591					
81 - Otros servicios excepto actividades gubernamentales	480 847	123 612	834	47 914	74 864	357 235	357 235					
93 - Actividades legislativas, gubernamentales, de impartición de justicia y de organismos internacionales y extraterritoriales	952 005	1 504	0	0	1503.	950 501	4 654	945 847				
UPC - Usos a precios de comprador	33 443 921	12 000 028	299 805	8 473 008	3 227 215	21 443 892	10 880 670	1 986 054	3 459 304	201 987	4 915 878	0
P.721 - Compras directas en el exterior por residentes	116 743	0	0	0	0	116 743	116 743					
P.621 - Compras directas en el mercado interno por no residentes	0	0	0	0	0	0	- 178 162	- 1 639			179 802	
P.621-P.721 - Compras netas de residentes y no residentes	116 743	0	0	0	0	116 743	- 61 419	- 1 639	0	0	179 802	0
B.1bpb - Valor agregado bruto a precios básicos	15 642 620	510 906	5 185 312	9 946 402								
D.29-D.39 - Impuestos netos de subsidios sobre la producción	87 419	15	40 721	46 682								
B.2b - Excedente bruto de operación	11 012 348	423 414	3 949 019	6 639 914								
P.1 - Producción	27 642 648	810 711	13 658 321	13 173 617								
Total			0	0	0	21 560 636	10 819 251	1 984 415	3 459 304	201 987	5 095 680	0



**Services mirror statistics in the
intercountry NA TiVA Initiative**

INEGI is in the process of estimating bilateral trade statistics for missing services and align balanced foreign trade statistics with trade data from national accounts for the NA TiVA project with USA and Canada for an Intercountry NA region SUT.

Estimation of bilateral trade statistics for missing services

- To compile detailed statistics on bilateral trade in services is a big challenge.
- At the international level, there are substantial differences between countries in the availability and level of detail.

UNITED STATES

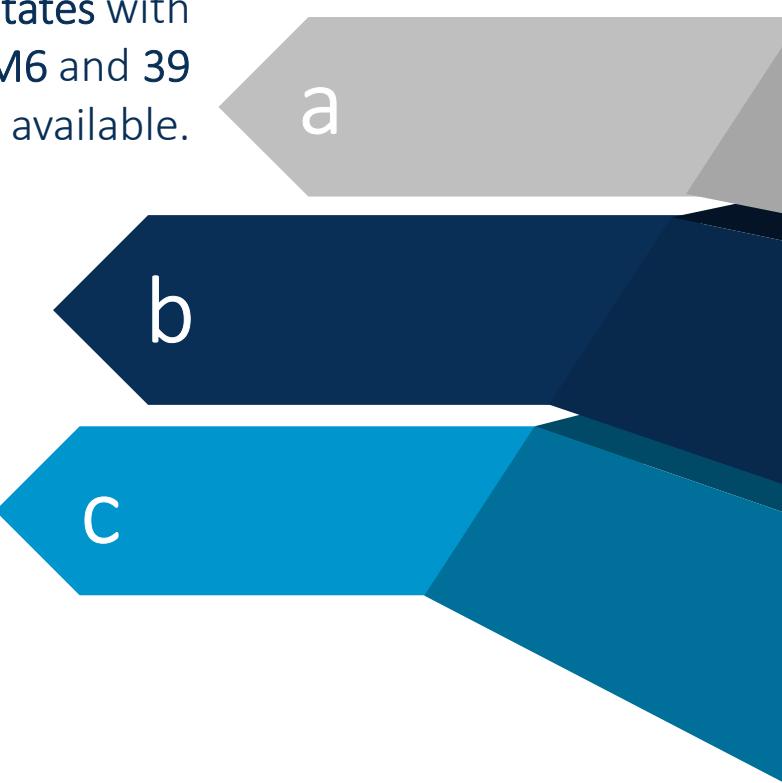
- Publishes statistics on trade in services with the world, as well as approximately 88 business partners per country or region.
- In some cases, the extended balance of payments services (EBOPS) offer more detailed data.

In the case of **bilateral services** trade reported by the United States with Canada and Mexico, about **9 main categories** of **BPM6** and **39 subcategories** are available.

Canada publishes trade statistics for services with the world, its bilateral trade in services with the United States and Mexico is available in **three main categories**^{/1}

The Bank of Mexico reports trade statistics of services with the world in **8 categories**^{/2}, also through surveys, reports on bilateral trade in travel services with Canada and the United States.

It is expected a reduction in trade statistics asymmetries and also the improvement in data sharing and exchange.



a

b

c

¹/ Travel, commercial services, transportation and government services

²/ Maintenance and repair services, transportation services, travel, insurance and pensions, financial services, charges for the use of intellectual property, telecommunications and other services

A photograph of a modern, multi-story building with a glass facade and a series of large, angular concrete or stone structures extending from its side. The sky is dark and cloudy, suggesting dusk or dawn. In the foreground, there's a paved area and some low walls.

Extended Supply-Use Tables

One of the main challenges arising from globalization is about generation of official statistics that provide information on the interdependencies and impacts between countries.

Responding to the challenge about measuring the global economy the OECD, as well as the WTO, have identified, at least, the following needs:

A policy for a macroeconomic vision at an industrial and firm-level based on estimates on globalization.

Statistics oriented to integrated and harmonized business statistics with macroeconomic accounts.

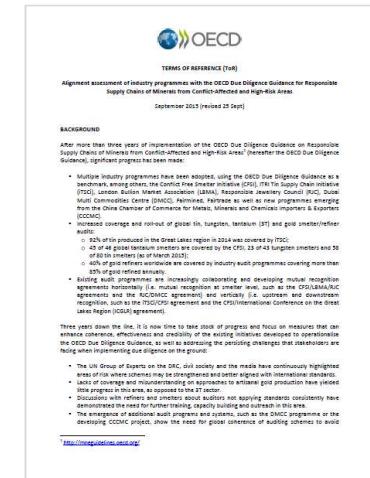
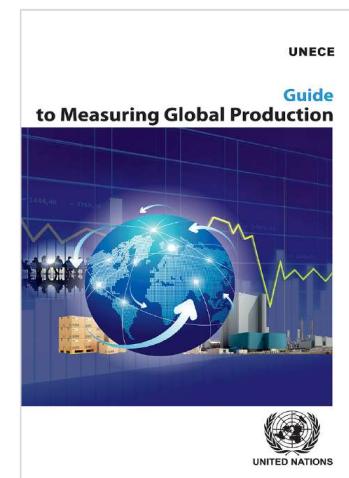
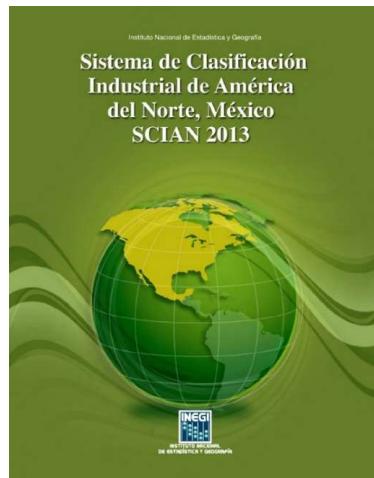
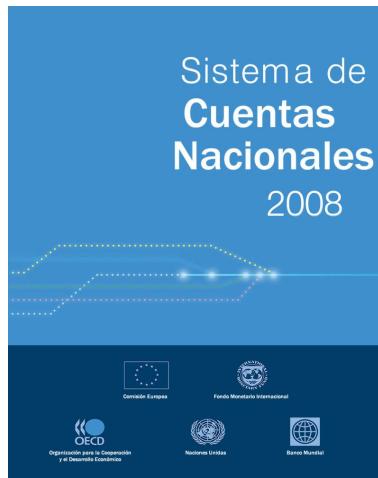
		Supply Table												
Industry	Products	Sector1	Q				Sector 1							
			Exporter				Non-Exporter							
			DO	DOA	FO	FOA					Imports C.I.F.			
			S M L	S M L	S M L	S M L					CIF/FOB adjustment on imports			
							Formal				Imports C.I.F. (Total F.O.B.)			
								Informal						

		Use Table														
Industry	Products	Sector 1	GVA	GDP	Total use at purchasers' prices	Intermediate Demand								Final Demand		
						Sector 1				Exporter				Non-Exporter	Total	
						DO	DOA	FO	FOA						Household consumption	
						S M L	S M L	S M L	S M L						General government	
										Formal					Gross fixed capital formation	
											Informal					Changes in inventories
															Exports	
															Statistical Discrepancy	

A large, modern industrial building with multiple levels and glass windows is set against a dramatic sky filled with dark, billowing clouds. In the foreground, there's a paved area with some low walls and a set of stairs. The overall color palette is dominated by shades of blue and grey.

**Global Manufacturing Exports
Value Added (VAEMG)**

INEGI as an alternative for implementing the BOP6 in terms of net Exports of Goods for Processing has compiled a series of Global Manufacturing Export Value Added (VAEMG) in a way that is consistent to most recent methodologies in the subject. This is the equivalent to manufacturing services and Mexico is very specialized into this industry.



THE VAEMG AS AN ALTERNATIVE TO BOP 6

METHODOLOGY: VAEMG MEASUREMENT PROCESS

1

Analysis of the commercial transactions of the Administrative Records of Foreign Trade 2013.

2

Census Information Analysis to identify companies with foreign capital participation.

3

Linkage of Foreign Trade records with Economic Census and surveys to obtain the classification of export and import economic activities.

4

Application of the HS-NAICS correlation table to the Imports and Exports of goods by item.

5

Production Accounts and Matrix Tables of Exports and Imports of Global Manufactures

• CINMG + VABMG

CINMG = Intermediate Consumption of Domestic Origin of Global Manufactures

VABMG = Gross Value Added of Global Manufactures

VAEMG

XMG - MMG

XMG = Exports of Global Manufactures

MMG = Imports of Global Manufactures

SUPPLY

USE

- Results presented at the four-digit level NAICS

Concepto	Oferta total a precios de comprador	Márgenes de comercio y transporte	Impuestos sobre los productos, netos	Total		Clases de actividad productiva					Importaciones de bienes y servicios				Resto de las importaciones C.I.F. (Total FOB)
				Oferta total a precios básicos	11 Actividades primarias	21 - 33 Actividades Industriales	MG - Manufacturas Globales	43 - 93 Actividades de servicios	Total	Importaciones C.I.F.	Ajuste C.I.F./F.O.B.	Bienes y servicios de origen nacional para la producción manufacturera global	Importaciones al resto del mundo de la producción manufacturera global C.I.F. (Total FOB)		
11 Actividades primarias	1 265 642	345 327	6 074	914 242	769 189	1 252	9 302		779 742	134 500			8 152	126 348	
21 - 33 Actividades Industriales	22 699 398	3 859 376	335 743	18 504 279	41 485	10 526 650	3 036 537	34 430	13 639 102	4 865 177			1 955 406	2 909 771	
MG - Manufacturas Globales	6 002 866	462 795	1	5 540 071			3045838.78		3 045 839	2 494 232		524 309	1 969 923		
43 - 93 Actividades de servicios	9 478 880	- 4 204 703	292 751	13 390 832	37	84 580	H 404 288	12 734 899	13 223 804	167 028	- 124 614		6 364	285 278	
Total	33 443 921	0	634 567	32 809 353	810 711	10 612 481	F 3 450 127	12 769 329	27 642 648	5 166 705	- 124 614		1 969 923	3 321 396	
Ajuste C.I.F./F.O.B.	0	0	0	0					0		124 614			- 124 614	
Compras de residentes en el extranjero	116 743	0	0	116 743					0	116 743					116743.315
Producción por actividad a precios básicos	33 560 664	0	634 567	32 926 097	810 711	10 612 481	F 3 450 127	12 769 329	27 642 648	5 283 449			1 969 923	3 313 526	

Concepto	Utilización total a precios básicos	Demanda intermedia						Demanda final						Resto de las exportaciones F. O. B.
		Total	11 Actividades primarias	21 - 33 Actividades Industriales	MG - Manufacturas Globales	43 - 93 Actividades de servicios	Total	Consumo Privado	Consumo de gobierno	Formación bruta de capital fijo	Variación de existencias	Exportaciones manufactureras globales F. O. B.		
11 Actividades primarias	1 265 642	718 556	86 361	601 465	22 266	8 463	547 087	354 447	0	14 406	37 865	9 302	131 067	
21 - 33 Actividades Industriales	22 699 398	8 730 419	205 220	4 664 062	2 362 511	1 498 626	13 968 979	5 643 570	12 064	3 422 267	164 121	3 440 825	1 286 131	
MG - Manufacturas Globales	6 002 866	2 552 739	0	2 552 739	A 2 552 739	0	3 450 127	0	0	0	0	I 3 450 127	0	
43 - 93 Actividades de servicios	9 478 880	2 551 054	8 223	654 742	167 962	1 720 126	6 927 826	4 882 653	1 973 991	22 630	0	0	48 552	
Total de Usos a precios comprador	33 443 921	12 000 028	299 805	5 920 269	B 2 552 739	3 227 215	21 443 892	10 880 670	1 986 054	3 459 304	201 987	3 450 127	1 465 751	
Importaciones C.I.F. para la producción manufacturera global	0	1 969 923	0	1 969 923	C 1 969 923	0	0	0	=	0	0	0	0	
Bienes y servicios de origen nacional para la producción manufacturera global	0	582 816	0	582 816	D 582 816	0	0	0	0	0	0	0	0	
Valor agregado bruto a precios básicos		15 642 620	510 906	4 692 212	E 493 100	9 946 402								
Producción total por actividad a precios básicos		27 642 648	810 711	10 612 481	F 3 450 127	12 769 329								
Valor agregado de exportación de la manufactura global		1 480 204		1 075 916	G 1 075 916	H* 404 288								
Total de otras columnas							21 560 636	10 819 251	1 984 415	3 459 304	201 987	3 450 127	1 645 552	

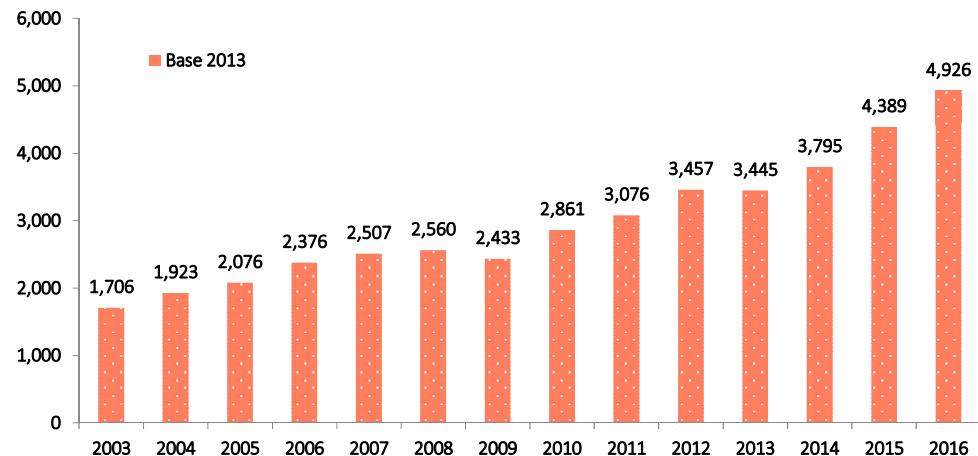
Relation with H and F in Use Table

IC GM A=B
 IC GM C+D=B
 VA GME D+E=F
 TP GM B+E+H*=F
 5 I=G

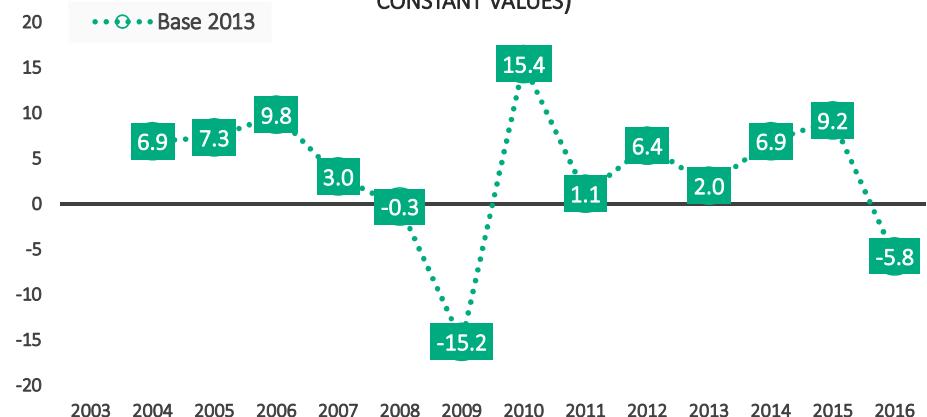
Results presented at the four-digit level NAICS

* To complete the GMP, it is necessary to add "H" of the GMP, explicit in the Supply, in the Use Table.

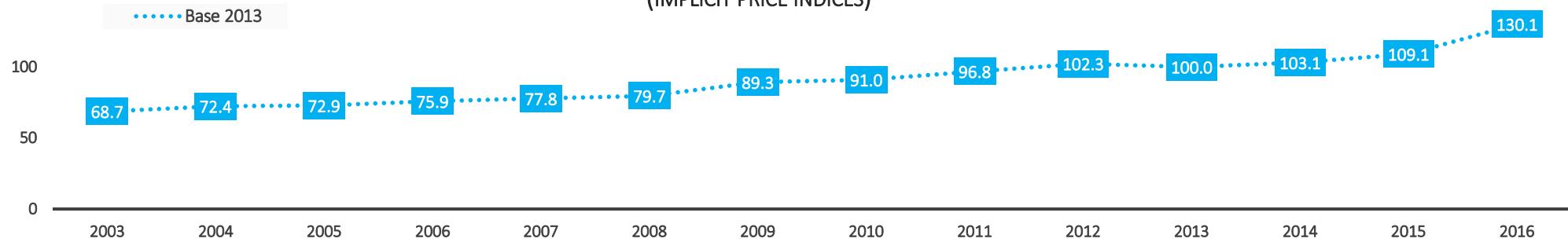
Sector 31-33 Manufacturing Industries Value of Global Manufacturing Production (Billions at Current Prices)



SECTOR 31-33 MANUFACTURING INDUSTRIES VALUE OF GLOBAL MANUFACTURING PRODUCTION (ANNUAL PERCENTAGE CHANGES CONSTANT VALUES)



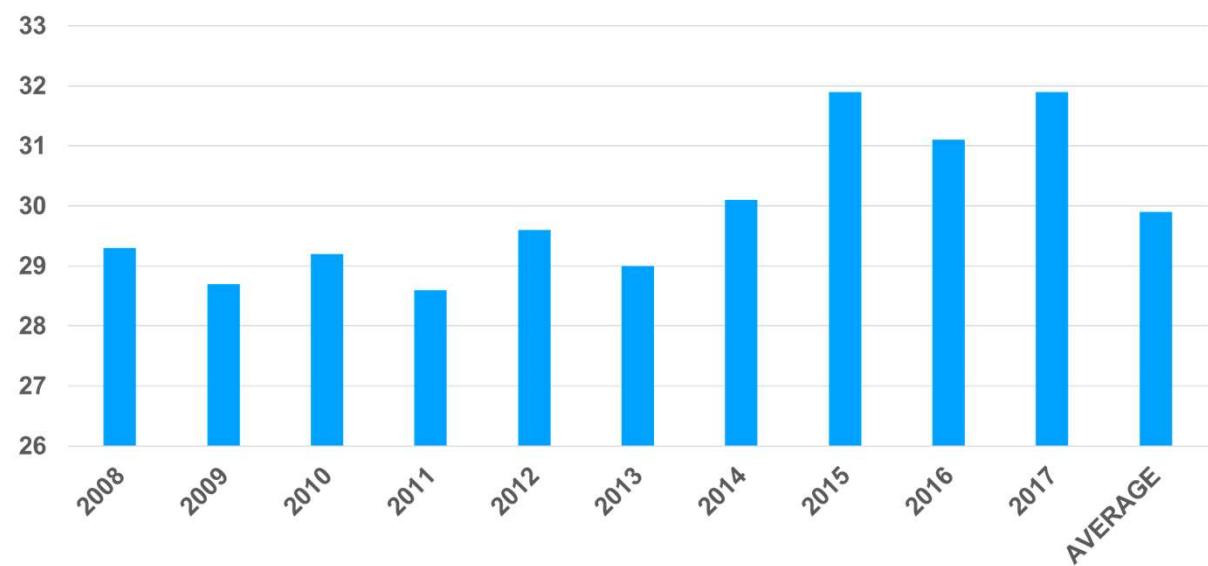
**SECTOR 31-33 MANUFACTURING INDUSTRIES VALUE OF GLOBAL MANUFACTURING PRODUCTION
(IMPLICIT PRICE INDICES)**



TABLE

YEARS	SHARE %
2008	29.3
2009	28.7
2010	29.2
2011	28.6
2012	29.6
2013	29.0
2014	30.1
2015	31.9
2016	31.1
2017	31.9
AVERAGE	29.9

GRAFIC
SHARE %





**VAX of services by input-output
model**

(VAX OF SERVICES BY INPUT-OUTPUT MODEL)

CONCEPTUAL FRAMEWORK

Input-output model

$$x = Ax + y \quad \dots \dots \dots \quad (1)$$

Clear y

$$x - Ax = y \quad \dots \dots \dots \quad (2)$$

Factorization

$$(I - A)x = y \quad \dots \dots \dots \quad (3)$$

Clear x

$$x = (I - A)^{-1} y \quad \dots \dots \dots \quad (4)$$

Where

x = output vector $(I - A)$ = Leontief matrix

A = matrix of technical coefficients $(I - A)^{-1}$ = Leontief inverse

y = demand vector

I = unit matrix



Value-added in export

$$V = G(I - A)^{-1} x$$

Where

V = Value Added of Export (VAX)

G = the diagonal matrix of Value Added

x = Exports in services

Leontief inverse

It shows how production in sector i changes if demand in sector j changes.

2013 VALUE-ADDED IN EXPORTS OF SERVICES BY INPUT-OUTPUT MODEL

Sector	VAX	GVA	VAX/GVA	Sector	VAX	GVA	VAX/GVA
Total	586,718.08	15,642,619.85	0.0375	52 - Financial and insurance services	30,911.75	567,237.53	0.0545
11 - Agriculture, animal breeding and production, forestry, fishing and hunting	1,272.54	477,213.24	0.0027	53 - Real estate services and tangible and intangible goods rental and leasing	11,461.85	1,913,831.06	0.0060
21 - Mining	2,424.07	1,150,003.49	0.0021	54 - Professional, scientific and technical services	7,937.36	315,021.15	0.0252
22 - Electric power generation, transmission and distribution, water and gas supply through mains to final consumers	3,068.15	239,629.07	0.0128	55 - Head offices	9,468.00	88,990.01	0.1064
23 - Construction	831.13	1,254,255.88	0.0007	56 - Business support services, waste management and remediation services	21,802.43	576,878.90	0.0378
31-33 Manufacturing	11,213.45	2,517,777.91	0.0045	61 - Educational services	29.93	664,282.79	0.0000
43 - Wholesale trade	342,595.85	1,273,202.85	0.2691	62 - Health care and social assistance services	0.44	373,679.62	0.0000
46 - Retail trade	46,398.16	1,479,990.16	0.0314	71 - Cultural and sporting recreation services and other recreational services	37.84	72,450.75	0.0005
48-49 - Transportation, postal services and warehousing	86,879.61	1,006,526.25	0.0863	72 - Temporary accommodation services and food and beverage preparation services	2,129.50	342,034.33	0.0062
51 - Mass media information	5,343.39	318,878.95	0.0168	81 - Other services, except government activities	2,854.83	339,068.15	0.0084

Millions of Mexican pesos

Source: 2013 Product by Product Input - Output table. INEGI

Knowing Mexico

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