EXTENDED SUPPLY AND USE TABLES AND TiVA INDICATORS

PUBLICACTION OF THE
EXTENDED SUPPLY AND USE TABLES

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The **Extended Supply** and **Use Tables** are **integrated** of the following profiles:

- Export Focus
- Owner Focus
- Economic Unit Size
- Integrated Focus

Integrated Focus is opened of the Exporter Focus into the **owner focus** and **economic unit size** in a **single table** for both supply and use.

The **dissemination** of the **four extensions** at the **sector level** and by **establishment** took place on:

November 14th 2018

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OCDE

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Terms of Reference (ToR) specify that the methods and extensions proposed are adaptable to the needs of each economy. Therefore, the next conditions showed of the extension are based on the availability of sources of information and the confidentiality required by them:

Statistical Unit	'Ideal' breakdown	Focuses of ESUT

- **ToR OCDE:** by **firm.**

- **ESUT Mexico:** by **establishment.**

- **ToR OCDE:** by **rows** (products) and **columns.** (industries)

- **ESUT Mexico:** by **columns** (industry).

- **ToR OCDE:** export focus, ownership focus and size classes focus.

- **ESUT Mexico:** export focus, ownership focus and size classes focus and **integrated** focus.

CATEGORIES
BY EXTENSION

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Export Focus

ToR OCDE:
- Exporter
- Non Exporter

ESUT Mexico:
- Exporter
- Non Exporter
  Formal
- Non Exporter
  Informal

Ownership Focus

ToR OCDE:
- Foreign Owned
- Domestically owned MNE
- Domestic Owned

ESUT Mexico:
- Domestic Owned
- **Affiliate** Domestic Owned
- Foreign Owned
- **Affiliate** Foreign Owned

Hybrid/ Integrated Focus

ToR OCDE:
- Foreign Owned
- Domestically owned MNE
- Domestic Owned (Small)
- Domestic Owned (Medium)
- Domestic Owned (Large)

ESUT Mexico:
- Export Focus
  - Domestic Owned
    - ✓ Small
    - ✓ Medium
    - ✓ Large
  - Affiliate Domestic Owned
    - ✓ Small
    - ✓ Medium
    - ✓ Large
  - Foreign Owned
    - ✓ Small
    - ✓ Medium
    - ✓ Large
  - Affiliate Foreign Owned
    - ✓ Small
    - ✓ Medium
    - ✓ Large
- Non Export Focus
  - **Formal**
  - **Informal**

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CATEGORIES
BY EXTENSION

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Export Focus

ToR OCDE:
- Exporter
- Non Exporter

ESUT Mexico:
- Exporter
- Non Exporter
  Formal
- Non Exporter
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Ownership Focus

ToR OCDE:
- Foreign Owned
- Domestically owned MNE
- Domestic Owned

ESUT Mexico:
- Domestic Owned
- **Affiliate** Domestic Owned
- Foreign Owned
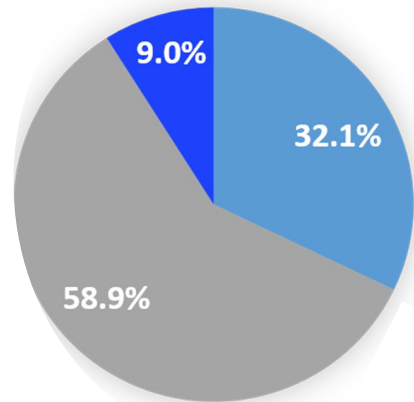- **Affiliate** Foreign Owned

ToR OCDE:
- Foreign Owned
- Domestically owned MNE
- Domestic Owned (Small)
- Domestic Owned (Medium)
- Domestic Owned (Large)
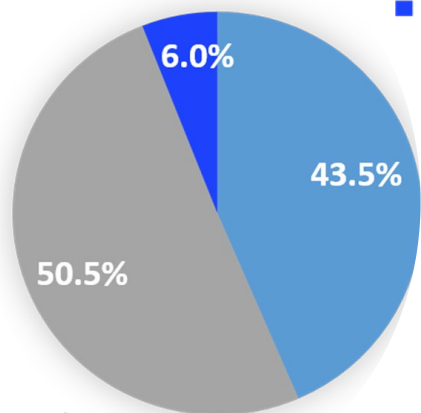
ESUT Mexico:
- Export Focus
  - Domestic Owned
    - ✓ Small
    - ✓ Medium
    - ✓ Large
  - Affiliate Domestic Owned
    - ✓ Small
    - ✓ Medium
    - ✓ Large
  - Foreign Owned
    - ✓ Small
    - ✓ Medium
    - ✓ Large
  - Affiliate Foreign Owned
    - ✓ Small
    - ✓ Medium
    - ✓ Large
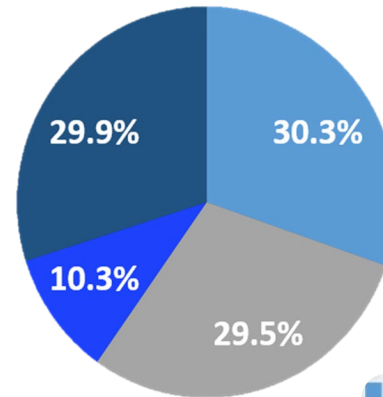- Non Export Focus
  - **Formal**
  - **Informal**

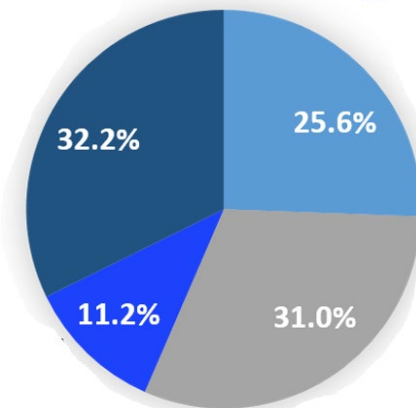INEGI

DOMESTIC AND IMPORTED INTERMEDIATE CONSUMPTION
EXPORT FOCUS

The **goal** of this disaggregation is to show the **origin** of the **goods and services** used to **carry out** the **production** of the **establishments** identified as Exporters (EF).

The origin of intermediate goods and services will be presented in two aggregates:

Domestic

Imported
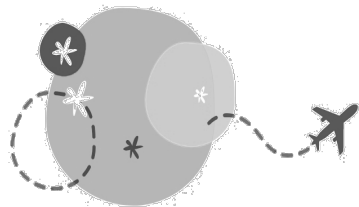
Intermediate inputs

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SUMMARY OF
RESULTS

Export Focus

The Economic Unit (EU) of the Export Focus consumed **19%** of **domestic inputs** and **24.5%** of **imported inputs** to carry out the production for exports and for the domestic market.

Non Export Focus

To carry out the production of the EU with a Non-Export Focus, **12.9% of imported inputs** and **43.6% domestic inputs** were used.

VALUE ADDED COMPONENTS
EXPORTERS

The ESUT 2013 **publication,** specifically in the Use Table, covers all characteristics and components of traditional Use Table except for **value added** components that were **not extended**.

For this reason, the importance of **complement** and **strengthen** the **publication** to offer **detailed information** to **users. To be completed and published at the end of the year.**

Use Table. Export Focus	Sector		
	Exporter	Non Formal Exporter	Non Informal Exporter
VALUE ADDED AT BASIC PRICES	-	-	-
Total compensation of employees	-	-	-
Wages and salaries including effective social security contributions	-	-	-
Salaries	-	-	-
Wages	-	-	-
Effective social security contributions	-	-	-
Other social benefits	-	-	-
Taxes net of subsidies on production	-	-	-
Taxes levied on its activity	-	-	-
Less: subsidies	-	-	-
Gross Operating Surplus	-	-	-
TOTAL PRODUCTION AT BASIC PRICES	-	-	-

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SUPPLY AND USE TABLES
NATIONAL

Based on the National **Supply and Use Tables (SUT)** prepared by each partner country in the region, **the regional** SUTs are constructed.

Compilation

- The available information about SUT, IOT and external trade are compiled by country.
- Valuations and structures are analyzed and adjusted.
- The number of industries and products are harmonized.
- A conversion to US dollars is made according to the IMF exchange rate.

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SUPPLY AND USE TABLES
REGIONAL

Regional SUT

According to methodology, there are two models **Endogenous and exogenous,** they are used to construction of **Regional** Supply and Use Tables that support regional matrices and TiVA indicators.
In our case used exogenous model.

Finally, they are balanced, and it is ensured that they coincide with the relevant accounting restrictions to obtain symmetric SUT's.

1 Adapt and adjust the information for each country in a symmetric matrix (NK*KN)[1].

2 Determine the **taxes** by difference through the values **at purchaser prices vs basic prices of the Use Table.**

3 The dimensions of **final demand** by product are adjusted, **maintaining their categories.**

4 The dimensions of **value added by industry** are adjusted.

1. N: Country, K: Industry.

INPUT-OUTPUT TABLES
REGIONAL

For the transformation from regional SUT to Regional IOT, it was used the "**Model D**" of **Eurostat's** "Manual of Supply, Use and Input-Output Tables" as a reference, and it was adopted the suppose which assumes that **each product has its own specific sales structure, irrespective of the industry where it is produced.** .

FIXED PRODUCT SALES STRUCTURE ASSUMPTION (MODEL D)
INDUSTRY BY INDUSTRY

Acronym	Description	Table
T	Transformation Table	$T = inv[diag(q)] * V$
A	Intermediate input coefficients	$A = T * U * inv[(diag(g)]$
R	Coefficients of Value-Added inputs	$R = W * inv[diag(g)]$
q	Production	$q = inv[\ I - T * U * inv(diag(g))]\ * T * y$
B	Intermediate Demand	$B = T * B$
W	Value added	$W = W$
F	Final Demand	$F = T * Y$

Source: *Manual of Supply, Use and Input-Output Tables, Eurostat*

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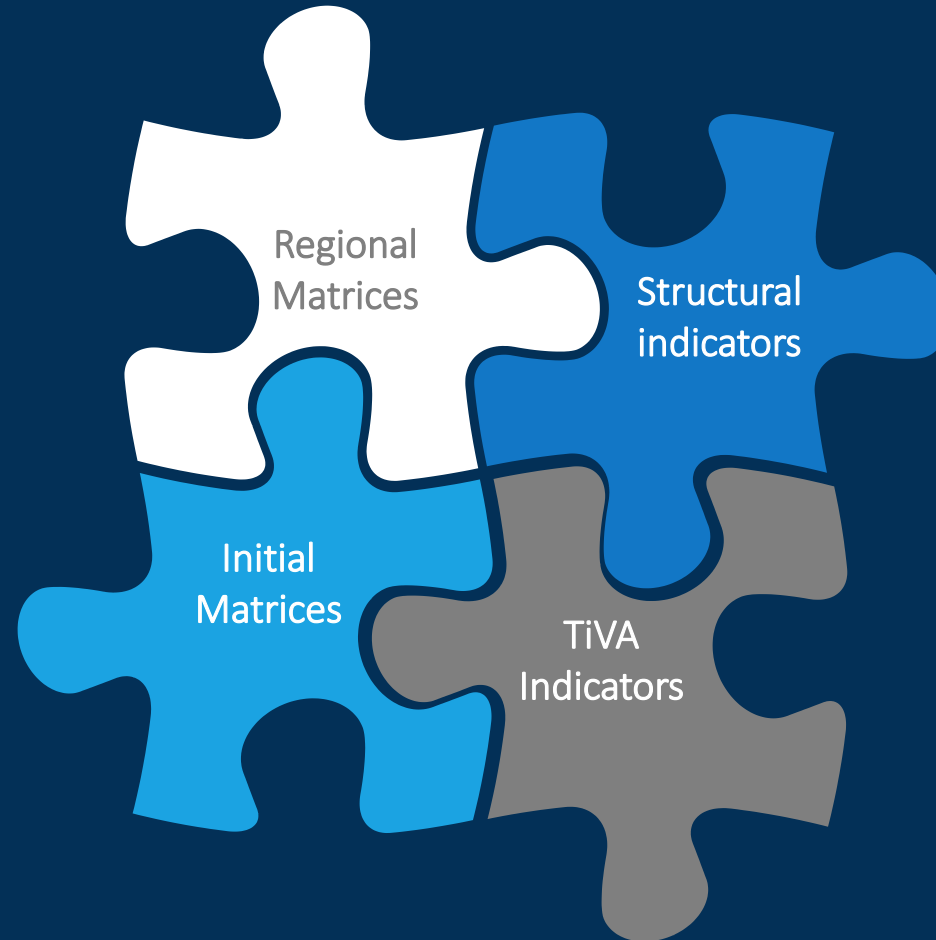
International trade in value added indicators

What do the indicators measure?

71 %
Domestic value-added share of gross exports. EX_DVA

29 %
Foreign value-added share of gross exports. EX_FVA

20 %
Domestic value added embodied in foreign final demand. FFD_DVA

70 %
Domestic value-added share of gross imports. IM_DVA
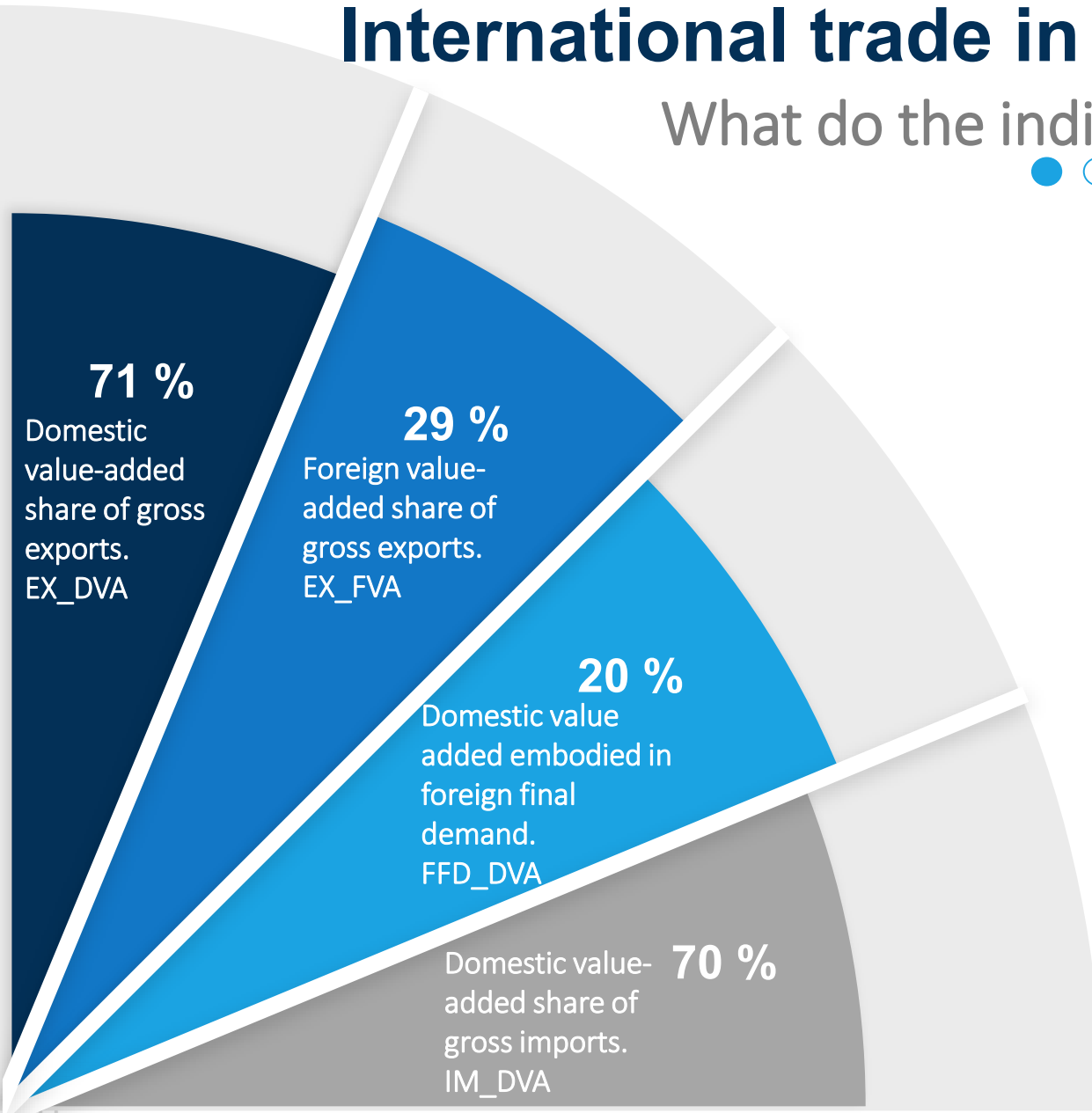
1 — EX_DVA
It measures the total domestic value added generated in the local economy c contained in exports to the partner country p.

2 — EX_FVA
Measures the content of foreign value added in gross exports of intermediate goods and services incorporated in the total gross exports of the local country c.

3 — DFE_VAD
It measures the domestic value added contained in the final goods and services that local industries export to partner countries.

4 — IM_DVA
It is the domestic value added generated in the local country that returns to the local country c contained in the gross imports of the industry i of the partner country.

SUMMARY OF
RESULTS

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Publishing at the end of 2022:

29 TiVA indicators for **North America** with information from the **ICIO for 2012** at **the experimental** area.

A time series **from 2012 to 2018** of the same **TiVA indicators** for **North America** with information from the **SNAM,** data from the **ICIO-OECD,** and **treatment** of **asymmetries of foreign trade.**

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Experimental Statistics
International trade in value added indicators

Indicator (Percentage terms)	Canada	Mexico	USA	Rest of the world
Domestic value-added share of gross exports. DVA	76.8	71.0	86.7	97.6
Direct domestic industry value added content of gross exports.	49.6	51.0	55.4	48.3
Foreign value-added share of gross exports.	20.6	29.0	23.2	22.9
Domestic services value-added share of gross exports, by country.	36.1	28.0	44.4	25.2
Domestic value-added share of gross imports.	75.6	77.2	86.1	97.7
Domestic value added embodied in foreign final demand.	20.7	20.8	10.0	2.7
Distance to final demand*	1.6	1.5	1.8	2.2

*Chaining index.

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THANK YOU

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