Identifying Global Value Chains in Mexico: Challenges



Outline

01	Global context
02	Identified Challenges
03	Methodology
04	Extended Supply and Use tables
05	Conclusions

Global Context

Global Context

Currently the growth of globalization demands the generation of statistics that provide information on interdependencies across countries, promoting the quality of official statistics with accuracy and relevance.

Identified global needs:



A policy for an industrial and business macroeconomic vision based on estimates of globalization



Statistics oriented towards the integration and harmonization of business statistics with sectorial macroeconomic accounts

Identified Challenges

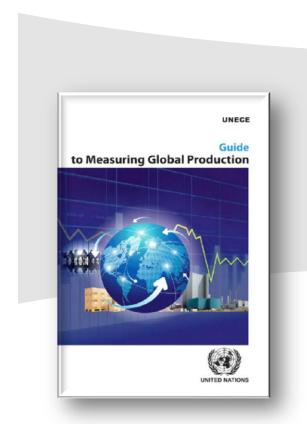
Identified Challenges

Objective: Identifying the production processes involved in a Global Value Chain (CVG), as well as the recognition of challenges and alternatives for their measurement in the case of Mexico.

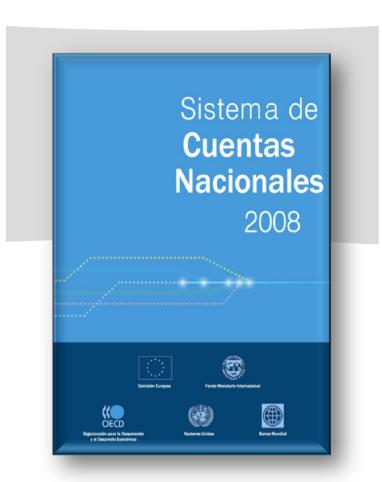
1. To conform establishment records into a firm or company record

2. To characterize the observation units and their transactions to identify if they are part of a domestic or global value chain.

Once these challenges are fulfilled, we will elaborate Extended Supply and Use Tables, considering them as the main input for the construction of Regional Matrices



Conceptual Framework



OCDE EXPERT GROUP ON EXTENDED SUPPLY-USE TABLES TERMS OF REFERENCE

1. Overvie

- 1. The increasing international fragmentation of production that has occurred in recent decades driven by technological progress, cost, excess resources and markets, that policy reforms, and indeed emerging economies. has challenged our conventional wisdom on how we look at and interpret trade. Traditional measures of the record grows flower of goods and services each and every time they cross borders length to what many describe as a "unfulpic" counting of trade, which may lead to misguided policy measures in a wide range of look in each contract.
- 2. To respond to this challenge on 15 March 2012 the OECD and WTO undertook to collaborate on the development of estimates of tade in value-added (TiVA), via the construction of a global input output table, resulting in a first release of a preliminary database on 16 January 2013 and a subsequent update in May 2013.
- 3. From the very beginning one of the key objectives of the TVA initiative has been to raise awareness of the importance of new statistics that nee better albe to relate the increasingly objed nature of production, driven by Global Value Chiniss (GVCs). But a second, and equally important, objective has been to chain the contract of the contract
- 4. Significant progress has been made on these fronts since the lausch of the database. TiVA has entered the ministream of the policy debate on OVCS and international and national organisations are investing resources through collaborative networks to create the underlying statistical infrastructure, in particular via the creation of improved national and international supply-use and input-output tables.
- 5. But further improvements can be made (and are being made) in a number of areas and exploring the feasibility of implementing these improvements is the key objective of the Expert Group on Extended Expolyt-Use Tables, who will be expected to deliver a sense of recommendations at the end of its mundate.

2. Backgroun

6. The use of Input Output tables to provide evidence on Global Value Chains (GVCs) and Globalisation more generally, is now vukespeated his pollustions in spirility changin [ngo-reading assumptions about the relative homogeneity of the production function (Input-Output technical coefficients) of units-classified to a given industrial activity, which is, implicitly, as underlying assumption used in creating Input-Output based indicators. Such assumptions have, of course, always been challenging when considering small and large frams, where countered so always been understood to play a role. But the unexessing perventiones of may be form such as Factorylate Producers and Processors, and the

Guide to Measuring Global Production (2015) System of National Accounts (2008)

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Trade by Enterprise Characteristics (TEC)

INEGI is considering the proposed OCDE terms of reference according to next structure:

CHARACTERISTICS

- Number of Exporting and Importing Firms
- Export values of Exporting firms
- Direct imports by product
- Direct Imports by Exporting Firms



CLASIFICATION

- Firms that have no direct imports and no exports
- Firms that have no direct imports and export
- Firms that have direct imports and export.
- Firms that have direct imports and do not export.

TARGET INDICATORS

Import content of exports



CHALLENGES

- Direct and indirect imports and exports
- Identify exports (imports) sold (purchased) through intermediaries (wholesalers) and changes in inventories

Source: Expert Group on Extended Supply Use Tables, Terms of Reference, Trade by Enterprise Characteristics (TEC), OCDE (2014)





Establishment Surveys



Information sources







Census





Household
Surveys



Extensive review of available information

Road Map

The following Road Map

Once results from stage 1 are obtained and through the exploitation of other complementary sources such as (FTDB², SUT 2013³), transactions between enterprises will be analized, identifyng:

- A. Enterprises linked to a GVC
- B. Enterprises not linked to a GVC

Enterprises participating in a GVC





Composition

Considering Census information and SBRM¹, it will be possible to obtain the following information:

- 1. Unique establishments
- 2. Enterprises
 - Parent company
 - Affiliates



Linking available information

Integration

For Enterprises linked to a GVC we will focus on:

- 1. Intra-firm relations
- 2. Inter firm relations

Based on this, we will be able to identify Domestic or Global Value Chains



This estimate will allow us to measure TiVA (foreign)

SBRM¹: Statistical Business Register of Mexico

FTDB², Foreign Trade Data Base **SUT 2013**³, Supply Use tables 2013

1. Composition of Enterprises

Information sources:

- A. Statistical Business Register of Mexico
- B. Economic Census

A. SBRM

It serves as a integration and dissemination tool of business records from directories (internal and external sources)

It allows to monitoring economic units over time.



A1.VARIABLES

- Business statistics code
- Business name
- Activity code
- External part: parent company, affiliate

Use of SBRM

DESCRIPTION SAMPLE

- Coverage: Large Establishments
- **Sample size:** 179, 195
- Activities: 777
- Num of parent companies: 15, 916 (8.9%)
- Num of affiliates: 163,279 (91.1%)



CRITERIA

- Economic consistency of the classified observations in parent companies or afiliates
- Reclassification of observations

1. Composition of Enterprises



Statistical Unit: Enterprise

Variables:

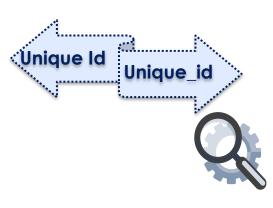
- Business statistics code
- Business name
- Parent company/Affiliate/Unique establishment

Business Statistics Code





ID CODE



NAICS 2013



Statistical Unit: Establishment

Variables:

- Business name
- Turnover
- Purchases of goods and services
- Production Value
- Occupied population

Business name



2. Linking available information

In order to characterize the statistical units as well as their transactions, the following available information will be linked as sound as possible (microdata):



2. Linking available information

Once the companies are formed, it will be possible to characterize information breaking down into parent, affiliate or unique establishment. Identifying their participation along the CVG and considering the following variables:

CENSUS VARIABLES

countries.



1. Participation of foreign capital in the capital of the establishment



2. Foreign capital share (%)

4. . Participation in contracts or programs share (%)

with companies located in other

3. Participation in contracts or

5. Contracts or collaboration programs established with economic units located in other countries (foreign, domestic, affiliates and nonaffiliates) ***

programs of economic collaboration



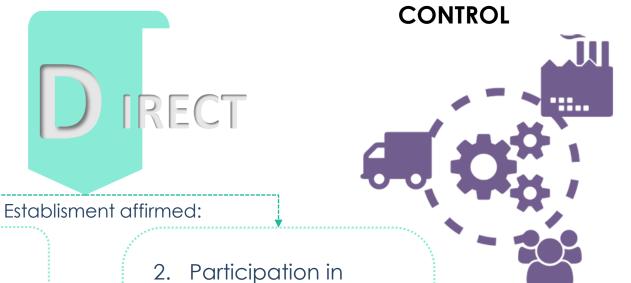


If enterprises fit these criteria they will be classified as a part of a GVC, otherwise they belong to a DVC.

- *** 1. Companies located abroad belonging to the same business group
 - 2. Mexican affiliates operating abroad
 - 3. Non affiliates

2. Linking available information

Considering previous variables, it will be posible to identify different types of enterpises' participation in GVC:



1. Receiving participation of foreign capital in the capital of the establishment, with a share higher than 80%.



2. Participation in contracts or programs of economic collaboration with companies located in other countries*, with a share higher than 0%



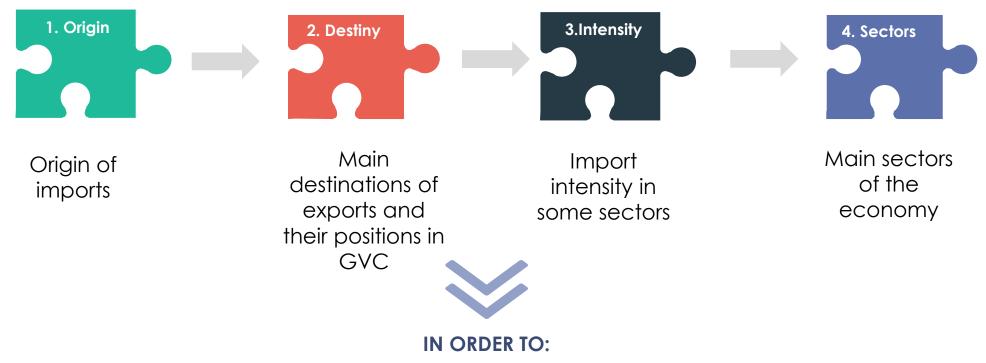
Establisment affirmed:

1. Receiving participation of foreign capital in the capital of the establishment, with a share higher than 80%.

- 1. Companies located abroad belonging to the same business group
- 2. Mexican affiliates operating abroad

Linking Microdata

Linking microdata will lead us to identify:





A. Evaluating impact of commercial phenomena in global production

Taking desicions in terms of commercial and public policies



Extended Supply and Use Tables

Extended Supply and Use Tables

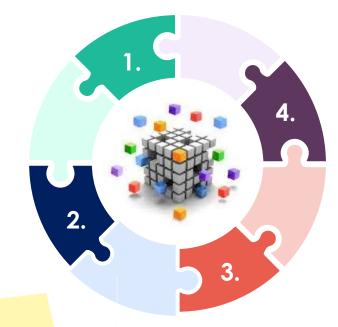
Considering international recommendations for constructing ESUT, Mexico will consider the next stages:

Stage 1. Goods for processing

Identification of establishments involved in goods for processing

Stage 2. Exporters

Establishments that assign partial or whole production of goods and services to exports



Stage 4.Enterprise Size

Determining the establishment size identified in the previous stage by economic activity

Stage 3. Ownership

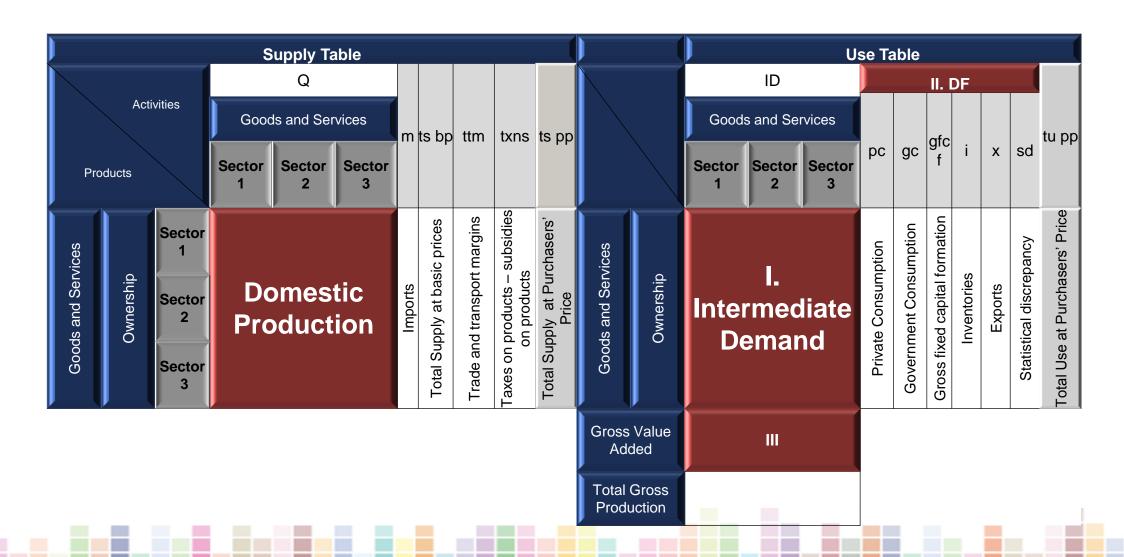
Determining the ownership focus based on results obtained on stages 1 and 2

Information sources

✓ Economic
Census_2014

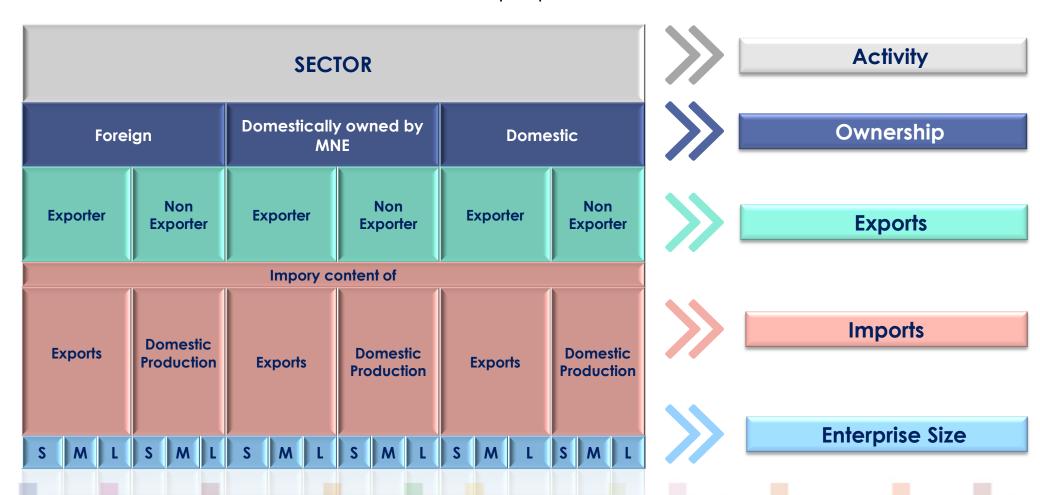
✓ Administrative
Records
✓ Economic Surveys

Supply and Use Tables

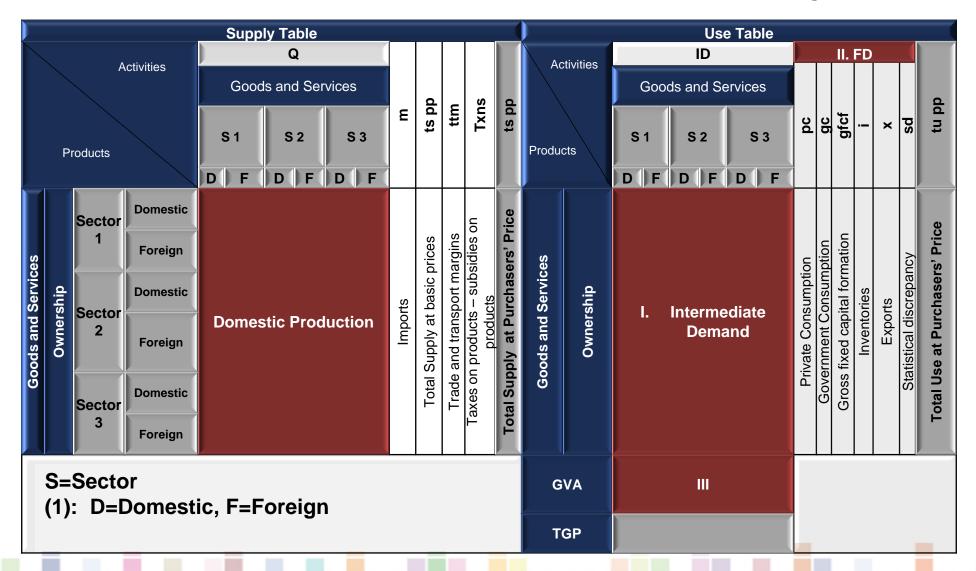


Extended Supply and Use Tables

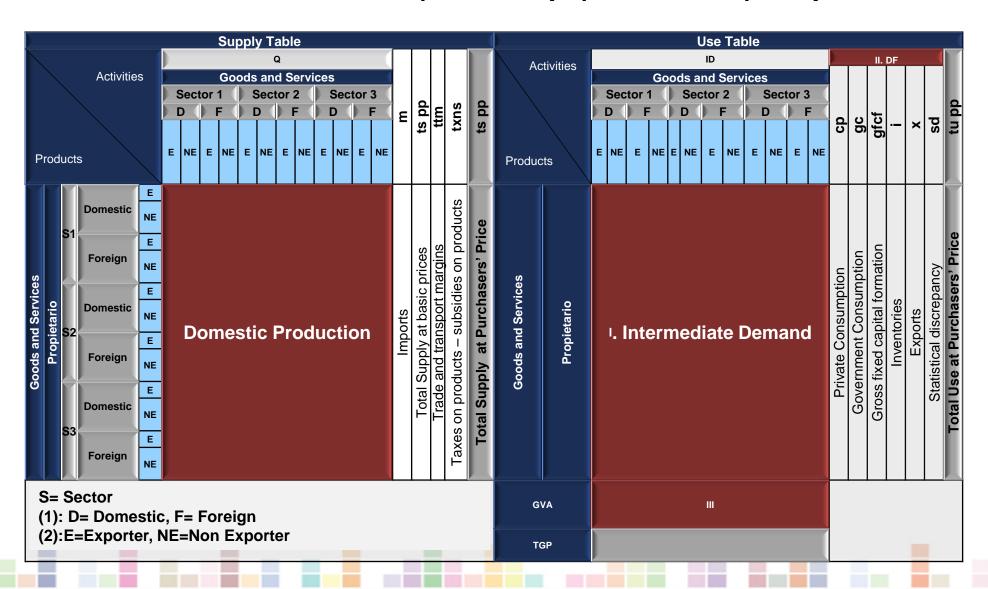
OCDE terms of reference to conformation ESUT proposed the next Ideal breakdown level



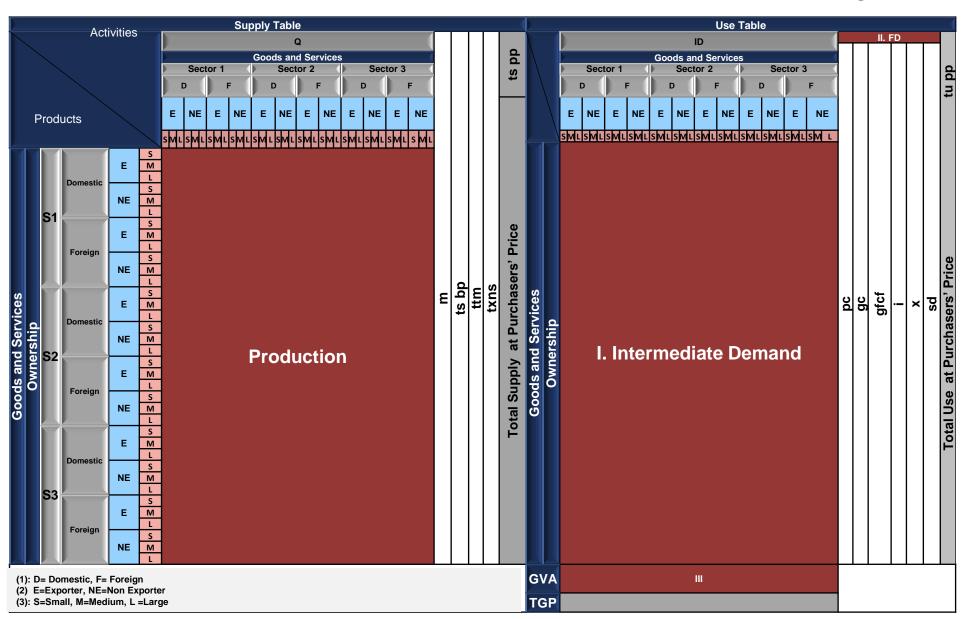
1st level of breakdown: Ownership Focus (Domestic, Foreign)



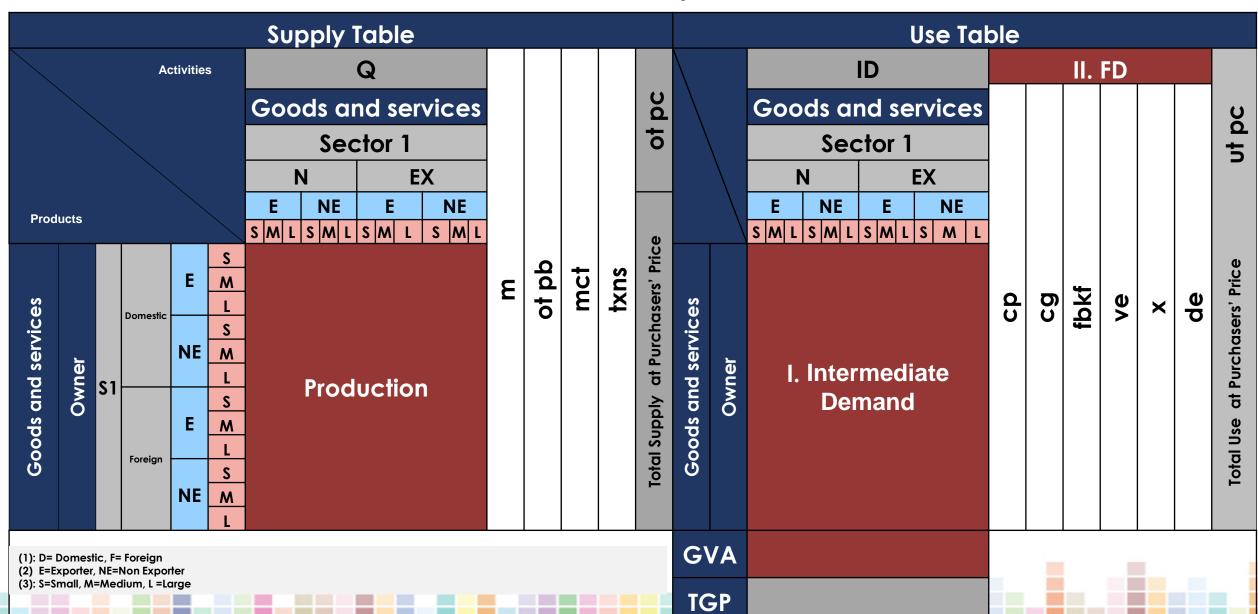
2nd level of breakdown: Export Focus (Exporter, Non Exporter)



3rd level of breakdown: Size of establishment (Small, Medium, Large)



Example



Concluding Remarks

Concluding Remarks

- 1. The identification of the companies participating in CVG will lead us to identify key sectors in the economy for decision making in terms of investment, commercial and public policies.
- 2. The composition of companies and their transactions will be a fundamental element for the construction of Extended Supply and Use Tables.

Conociendo México

01 800 111 46 34 www.inegi.org.mx atencion.usuarios@inegi.org.mx





