The Demand Side of Firm Growth: Evidence from Mexico

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Introduction

- Firms in developing countries face many constraints to upgrading
 Verhoogen 2020
- There must exist demand for the additional and/or improved products

 Atkin Khandelwal and Osman 2017, Hiort Iver and de Rochambeau 2021
- In the long run, firms cannot rely exclusively on exporting Goldberg and Reed
 2020
- This paper: studies informational frictions as a potential demand-side barrier to the growth of firms in the domestic market

Motivation

- Consumer goods sector in Mexico:
 - 42% of households are below the national poverty line
 - Despite higher prices, Multinational Corporations (MNCs) dominate the market price premium

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 - Many instances of product safety issues
 - Efforts to raise national standards

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 - Despite higher prices, Multinational Corporations (MNCs) dominate the market <u>price premium</u> <u>size</u>
- Hypothesis: there is domestic demand for higher-quality products, but quality uncertainty prevents domestic firms from fully capturing it
 - Many instances of product safety issues
 - Efforts to raise national standards
- How does quality uncertainty impact the growth of domestic firms?
 - What can be done to support the domestic sector?

Research Design & Preview of Results

- Use rare consumption data to establish new stylized facts
 - Domestic firms grow relatively more through surviving goods
 - 2 Domestic products have a slower life-cycle
 - 3 Customer acquisition is key to domestic firm growth
 - Domestic firms acquire customers relatively more within products
 - The new customers of domestic products are poorer
- Propose a model of consumer learning in a context of uncertainty
 - Consumers may learn about quality by experimenting themselves
 - Or by waiting until others experiment.
 - Uncertainty makes waiting valuable for poorer customer, hurting firms
- Test for this uncertainty mechanism



Contribution 1: trade and consumption

How does trade affect consumption in developing countries?

- Using expenditure shares: Fajgelbaum and Khandelwal (2016)
- Using broadly-defined good categories: Atkin (2013)
- Using barcode-level data but without the origin: Atkin, Faber and Gonzalez-Navarro (2018)
- Using barcode-level data with the origin a handful of imported products: Atkin and Donaldson (2015)

This paper: analyzes the impact of MNCs on consumption thanks to the identification of the origin of the universe of CPG consumed in a market.

Contribution 2: marketing

How does marketing affect firms' sales?

- Marketing efforts increase markups: Atkin, Chaudhry, Chaudry, Khandelwal and Verhoogen (2015)
- Marketing costs limit firms' expansion in export markets: Arkolakis (2016)
- Teachable marketing skills can increase firms' market access: Hjort, lyer and de Rochambeau (2021)
- Marketing expenses may come at the expense of firms' investment in R&D: Einav, Klenow, Levin and Murciano-Goroff (2021)

This paper: suggests how marketing could overcome quality uncertainty issues

Contribution 3: quality uncertainty

Bai (2021), Bai Gazze and Wang (2017)

Overview

- Introduction
- Setting and Data
- Stylized Facts
- 4 Conceptual Framework
- Mechanism

Outline

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Mexico: A large and highly-integrated emerging market

- 15th economy in the world, GDP: \$1.2 TR USD in 2015
- 15.6% growth in constant terms between 2010 and 2015
- ullet Upper middle-income country: GDP/capita $\sim \$10{,}000$ GDP/capita
- High inequality and high poverty
- High volatility
- Highly exposed to trade:
 - Imports + exports total over 60% of GDP in goods and services
 - The U.S. is by far the main importer & exporter [USCMA]
 - ullet Up to 50% of the goods consumed are manufactured by MNCs

An extremely detailed consumption panel

Kantar World Panel: similar to Nielsen Homescan

- 8,000 households per year, each followed 3.5 years on average
- Household information: number of people, age, gender, some socio-economic information, some appliances, city

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- Household information: number of people, age, gender, some socio-economic information, some appliances, city
- Households are surveyed weekly about their purchases of at-home consumption packaged goods
- Purchase information: date, price, category, quantity, brand, flavor, color, packaging material, size, etc. at the barcode level data structure

An extremely detailed consumption panel

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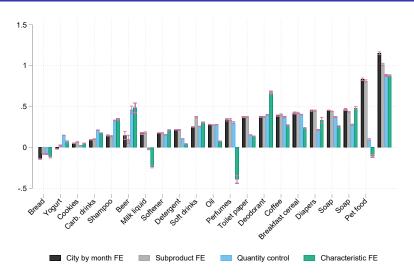
- 8,000 households per year, each followed 3.5 years on average
- Household information: number of people, age, gender, some socio-economic information, some appliances, city summary stats
- Households are surveyed weekly about their purchases of at-home consumption packaged goods
- Purchase information: date, price, category, quantity, brand, flavor, color, packaging material, size, etc. at the barcode level data structure
- The firms are the "manufacturer" of the products purchased.
 - Directorio Estadistico Nacional de las Unidades Economicas (DENUE)
 - Registro Nacional de Inversiones Extranjeras (RNIE) firms

A panel that's representative of urban Mexican consumers

	ENIGH			KWP			Difference	
	mean	sd	N	mean	sd	N	diff	р
Number of household members	3.94	1.98	26942	4.37	1.83	8414	0.430	0.00
Number of women in household	2.03	1.27	26942	2.29	1.22	8414	0.267	0.00
Age head of household	48.32	15.62	26942	45 61	14.02	8412	-2.707	0.00
Finished primary	0.84	0.37	26942	0.96	0.20	8414	0.120	0.00
Finished secondary	0.35	0.48	26942	0.65	0.48	8414	0.307	0.00
Finished Post-secondary	0.26	0.44	26942	0.13	0.34	8414	-0.130	0.00
Works full time	0.75	0.44	26942	0.75	0.43	8414	0.006	0.24
Number of cars	0.53	0.80	26942	0.56	0.66	8414	0.030	0.00
Number of PCs	0.31	0.61	26942	0.33	0.47	8414	0.019	0.01
Access to Internet (0/1)	0.19	0.39	26942	0.24	0.42	8414	0.043	0.00
Number of color TVs	1.44	0.92	26942	1.87	0.98	8413	0.426	0.00
Number of fridges	0.83	0.43	26942	0.96	0.19	8412	0.135	0.00
Number of microwaves	0.42	0.51	26942	0.70	0.46	8414	0.287	0.00
Number of bedrooms	2.01	0.97	26385	2.20	0.97	8412	0.188	0.00
Debit or credit card (0/1)	0.21	0.41	26942	0.28	0.45	8414	0.070	0.00
Monthly expenditure (MXN)	1107.30	758.20	26942	1320.09	736.49	8414	212.796	0.00

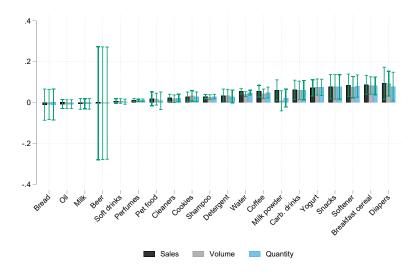
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The Foreign price premium in Mexican consumer goods



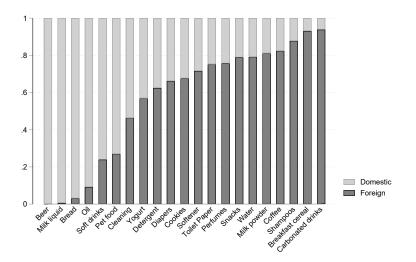


The Foreign share premium in Mexican consumer goods





The Foreign share in Mexican consumer goods











A large sample of firms manufacturing consumer goods

Over 4,000 manufacturers, > 90% of them are domestic.

	Top Foreign Firm			Top Domestic Firm			
	Rank	Share	Name	Rank	Share	Name	
Milk	20	0.00	WAL-MART	1	0.50	LALA	
Detergent	1	0.43	PROCTER & GAMBLE	2	0.27	LA CORONA	
Water	1	0.31	COCA COLA FEMSA	5	0.05	JOSE RAMOS CHIAPAS	
Oil	5	0.07	ACH FOODS	1	0.23	EMBOTELLADORA MEXICANA	
Toilet paper	1	0.53	KIMBERLY CLARK	3	0.09	FABRICA DE PAPEL SAN FRANCISCO	
Bread	3	0.01	GRUPO GAMESA	1	0.93	BIMBO	
Cookies	1	0.58	GRUPO GAMESA	2	0.23	BIMBO	
Beer	5	0.00	HEINEKEN	1	0.51	CERVECERIA MODELO	
Yogurt	1	0.37	DANONE	2	0.19	LALA	
Milk powder	1	0.71	NESTLE	3	0.07	LICONSA	



Outline

- Introduction
- 2 Setting and Data
- Stylized Facts
- Conceptual Framework
- Mechanism

Stylized Facts

Domestic firms grow relatively more through surviving goods

What share of growth is due to product innovation?

Following Argente, Lee and Moreira (2020), the growth of sales S of firm i at time t are made of:

- the growth of sales of older products,
- minus the t-1 share of sales of products that exited between t and t-1
- plus the sales of new products, which are made of
 - ullet the rate of entry of new products between t-1 and t
 - multiplied by the relative average sale of a new product at time t compared to an old, surviving product at time t

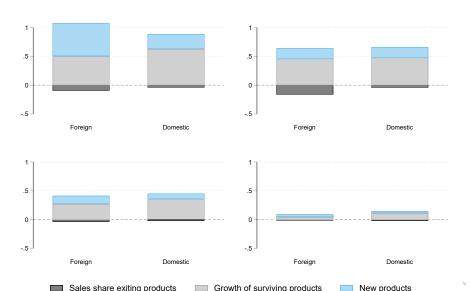
$$\Delta S_{i,t} = \underbrace{\Delta S_{i,t}^{old,survive} - \overline{S}_{i,t-1}^{old,exit}}_{product\ life-cycle} + \underbrace{n_{i,t}^{new} \times \overline{S}_{i,t}^{new}}_{new\ products}$$

Data-driven definition of new goods

- Data-driven definition
- Product that appears at least one year into the dataset
- Introduced by households who have been active in the dataset for at least one year
- Verification: Based on marketing releases, for example Coca-Cola Life or Ocean Spray Pomegranate and Blueberry, released in 2013

rate

Domestic firms grow more through surviving goods



Stylized Facts

- Domestic firms grow relatively more through surviving goods
- Oomestic products have a slower life-cycle

Product life-cycle

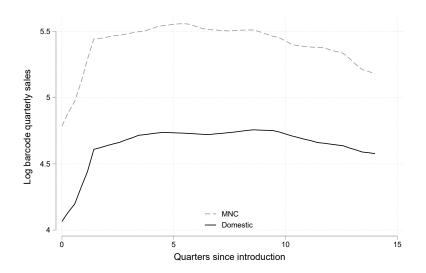
We estimate the effect of age on product sales following Argente, Lee and Moreira (2020):

$$logY_{u,t} = \alpha + \sum_{a=2} \beta_a D_a + \lambda_{jt} + \theta_c + u_{u,t}$$

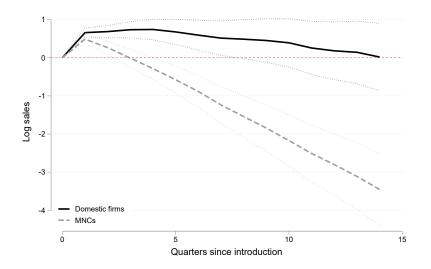
- u product
- ullet a age in quarters D_a are fixed effects for each age
- j product category
- t quarter we control for time and product category fixed effects
- c cohort we control for cohort effects Deaton 1997

Balanced panel comprised of products introduced starting in 2011 Q1 and that survived at least 14 quarters, observed for 14 quarters.

Domestic products have a slower life-cycle



Domestic products have a slower life-cycle

















Stylized Facts

- O Domestic firms grow relatively more through surviving goods
- Oomestic products have a slower life-cycle
- Oustomer growth is key to firm growth, especially for domestic firms

How can firms grow sales?

Following Einav, Klenow, Levin and Murcinao-Goroff (2021):

Sales
$$\equiv$$
 Customers $\frac{Quantity}{Customers}$ $\frac{Sales}{Quantity}$
Unit value

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 $\log{(\mathsf{Sales})} = \log{(\mathsf{Customers})} + \log{(\mathsf{Quantity} \ \mathsf{per} \ \mathsf{Customer})} + \log{(\mathsf{Unit} \ \mathsf{value})}$

How can firms grow sales?

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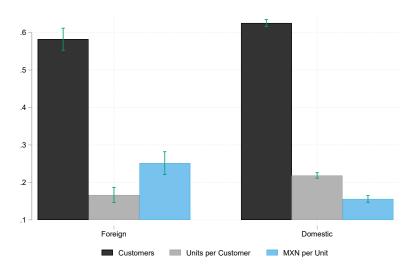
 $\log{(\mathsf{Sales})} = \log{(\mathsf{Customers})} + \log{(\mathsf{Quantity} \ \mathsf{per} \ \mathsf{Customer})} + \log{(\mathsf{Unit} \ \mathsf{value})}$

$$\begin{split} \log \left(\mathsf{Customers}_{it} \right) &= \alpha + \beta_C \log \left(\mathsf{Sales} \right)_{it} + \gamma_i + \delta_t + \epsilon_{it} \\ \log \left(\mathsf{Quantity} \ \mathsf{per} \ \mathsf{Customer}_{it} \right) &= \alpha + \beta_Q \log \left(\mathsf{Sales} \right)_{it} + \gamma_i + \delta_t + \epsilon_{it} \\ \log \left(\mathsf{Unit} \ \mathsf{value}_{it} \right) &= \alpha + \beta_U \log \left(\mathsf{Sales} \right)_{it} + \gamma_i + \delta_t + \epsilon_{it} \end{split}$$

$$\beta_C + \beta_Q + \beta_U \equiv 1$$

 γ_i are firm fixed effects and δ_t are year fixed effects .

The fastest-growing firms also acquire customers the fastest





Stylized Facts

- Domestic firms grow relatively more through surviving goods
- Omestic products have a slower life-cycle
- Customer growth is key to firm growth, especially for domestic firms
- Domestic firms acquire customers relatively more within product markets

How can firms acquire more customers?

$$Customers \equiv Markets \frac{Customers}{Markets}$$

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$${\sf Customers} \ \equiv {\sf Markets} \ \frac{{\sf Customers}}{{\sf Markets}}$$

 $\log{(\mathsf{Customers})} = \log{(\mathsf{Markets})} + \log{(\mathsf{Customers}\ \mathsf{per}\ \mathsf{markets})}$

$$\log \left(\mathsf{Markets}\right)_{it} = \alpha + \beta_M \log \left(\mathsf{Customers}\right)_{it} + \gamma_i + \delta_t + \epsilon_{it}$$

$$\log \left(\mathsf{Customers}\right)_{it} = \alpha + \beta_C \log \left(\mathsf{Customers}\right)_{it} + \gamma_i + \delta_t + \epsilon_{it}$$

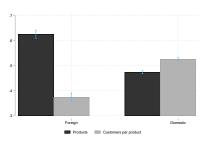
$$\beta_M + \beta_C \equiv 1$$

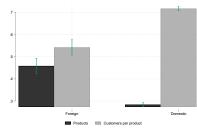
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Domestic firms acquire customers relatively more within product markets

Across firms / Within firms over time





table

Stylized Facts

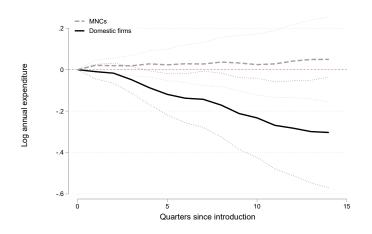
- Domestic firms grow relatively more through surviving goods
- ② Domestic products have a slower life-cycle
- Oustomer growth is key to firm growth, especially for domestic firms
- Domestic firms acquire customers relatively more within products
- The new customers of older domestic products are poorer

Who are the new customers of older goods?

$$logY_{u,t} = \alpha + \sum_{a=1}^{\infty} \beta_a D_a + \lambda_{jt} + \theta_c + u_{u,t}$$

Where $Y_{u,t}$ is the sales-weighted average of the annual expenditure of the new customers of product u at quarter t

The new customers of older domestic goods are poorer







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Setup

- ullet New good of unknown quality x R. V. with prior μ_0
- Agents maximize utility

$$u(x) = \max\{\mu - \beta_i p, 0\}$$

- There are two agents i, where price-sensitivity $\beta_i \in \{\beta_L, \beta_H\}, \ \beta_H > \beta_L.$
- They each represent a share γ_i of the market, where $\gamma_i \in \{\gamma_L, \gamma_H\}, \gamma_H > \gamma_L$.

Sequence of events

- In each period, agents decide whether to buy the new good or not.
- Once they have tried the good, they immediately learn the true quality.
- If they like the good, they continue buying for 3 periods and exit.
- If they don't, they immediately exit.
- Everybody observes whether the good has been purchased or not.

Experimentation

Period t

- Suppose no agent has purchased the good yet.
- Everyone has the same prior μ_t .

$$\mu_t - \beta_i p > 0$$
?

Experimentation

Period t

- Suppose no agent has purchased the good yet.
- Everyone has the same prior μ_t .

$$\mu_t - \beta_i p > 0$$
?

- Suppose one agent purchases the good.
- ullet It must be the agent with the lowest eta: the "leader".
- Immediately after, she learns the true quality x.

Individual learning

Period t+1

The "follower" has not purchased and not learned. For him,

$$\mu_{t+1} = \mu_t$$

• The "leader" has learned and faces a new problem:

$$x - \beta_L p > 0$$
?

She decides whether to buy the good again or not.

Social learning

Period t+2

- If the "leader" has not bought in t+1:
 - The "follower" agent learns that that $x < \beta_L p$
 - Updates his belief $\mu_{t+2}(x < \beta_L p) < \mu_{t+1} = \mu_t$
 - If he didn't experiment with μ_t , he won't with μ_{t+2} .
- If the the "leader" has bought in t+1:
 - The "follower" agent learns that $x>\beta_L p$
 - He updates his belief $\mu_{t+2}(x>\beta_L p)>\mu_{t+1}$
 - He might decide to start buying the good.

Life-cycle of a successful product

With unknown quality:

Quarter	0	1	2	3	4	5
β_{L}	γ_{L}	γ_L	γ_{L}	0	0	0
β_H	0	0	γ_H	γ_H	γ_H	0
Total	γ_{L}	γ_L	$\gamma_L + \gamma_H$	γ_H	γ_H	0
Quarter FE	Ξ	0	$+\gamma_H$	$+\gamma_H - \gamma_L$	$+\gamma_H - \gamma_L$	$-\gamma_L$

Life-cycle of a successful product

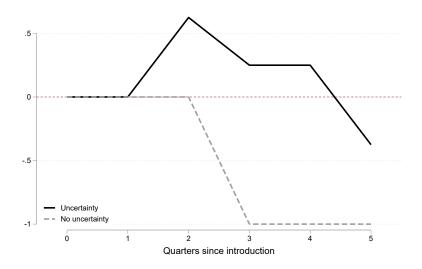
With unknown quality:

Quarter	0	1	2	3	4	5
β_L	γ_L	γ_L	γ_L	0	0	0
β_H	0	0	γ_H	γ_H	γ_H	0
Total	γ_L	γ_L	$\gamma_L + \gamma_H$	γ_H	γ_H	0
Quarter FI	Ξ.,	0	$+\gamma_H$	$+\gamma_H - \gamma_L$	$+\gamma_H - \gamma_L$	$-\gamma_L$

With known quality:

Quarter	0	1	2	3	4	5
β_L	γ_L	γ_L	γ_L	0	0	0
β_H	γ_H	γ_H	γ_H	0	0	0
Total	$\gamma_L + \gamma_H$	$\gamma_L + \gamma_H$	$\gamma_L + \gamma_H$	0	0	0
Quarter FE		0	0	$-\gamma_H - \gamma_L$		

Trajectory



Implications

What can be done to accelerate adoption?

- Provoke experimentation: subsidize first purchase
- Reduce uncertainty: raise and enforce quality regulation
- Substitute for social learning: leverage brand power

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Measuring individual learning

I study the effect of consumption of a brand on the probability of consuming a (new) good from the same brand a year later

$$y_{i,jk,t} = \alpha + \beta y_{j,t-1} + \gamma D_j + \delta D_j \times y_{j,t-1} + d_i + \epsilon_{i,t}$$

- i is the consumer
- j is the brand, k the product
- t is the year
- ullet D_j is a dummy that turns on if the brand is domestic

Domestic brand effects are larger

		Current co	nsumption	
	Barcode (1)	Brand (2)	Firm (3)	Country (4)
Previous consumption	0.326 (0.001)	0.018 (0.000)	0.012 (0.000)	0.007 (0.000)
Domestic	-0.004 (0.000)	-0.002 (0.000)	-0.002 (0.000)	-0.004 (0.000)
Previous consumption X Domestic	0.070 (0.001)	0.007 (0.000)	0.008 (0.000)	0.000 (.)
Hhd FEs	Yes	Yes	Yes	Yes
Year FEs	Yes	Yes	Yes	Yes
Control mean	0.013	0.007	0.005	0.008
N	6259248	6141346	6141346	6141346
R2	0.12	0.01	0.01	0.00

Poorer households rely more on brand effects

		Current co	nsumption	
	Barcode (1)	Brand (2)	Firm (3)	Country (4)
Previous consumption	0.290 (0.000)	0.020 (0.000)	0.017 (0.000)	0.011 (0.000)
Low expenditure	-0.005 (0.001)	-0.004 (0.001)	-0.004 (0.001)	-0.007 (0.003)
Previous consumption X Low expenditure	0.107 (0.003)	0.005 (0.001)	0.002 (0.001)	0.005 (0.003)
Barcode FEs	Yes	Yes	Yes	Yes
Year FEs	Yes	Yes	Yes	Yes
Control mean	0.013	0.007	0.005	0.008
N	6259248	6141346	6141346	6141346
R2	0.17	0.05	0.05	0.05

Products for which uncertainty matters more

		Current co	nsumption	
	Barcode	Brand	Firm	Country
	(1)	(2)	(3)	(4)
Previous consumption	0.325	0.017	0.012	0.005
	(0.001)	(0.000)	(0.000)	(0.001)
Food	0.003	0.000	0.000	0.002
	(0.000)	(0.000)	(0.000)	(0.001)
Previous consumption X Food	0.043	0.005	0.006	0.001
	(0.001)	(0.000)	(0.000)	(0.001)
Hhd FEs	Yes	Yes	Yes	Yes
Year FEs	Yes	Yes	Yes	Yes
Control mean	0.013	0.007	0.005	0.008
N	6259248	6141346	6141346	6141346
R2	0.12	0.01	0.01	0.00

Conclusion '

- In the Mexican consumer goods sector, domestic firms have quite different growth patterns compared to MNCs.
- Part of these differences can be attributed to hesitant demand for new domestic goods.
- Uncertainty about product quality may be one contributor.
- Marketing strategies may help address this problem.
- Policy intervention raising quality and transparency could also help support the domestic sector.

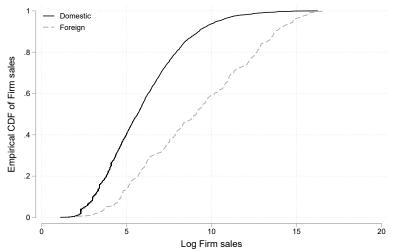
Thank you

Thank you!

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Appendix slides

The distribution of firm size in the Mexican Consumer goods sector

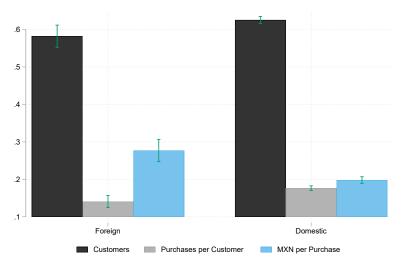




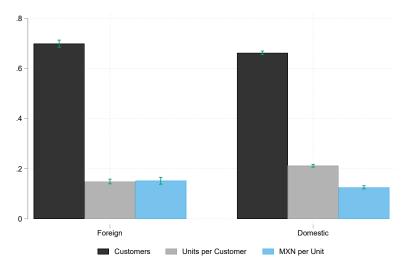
Date	id	product	subproduct	brand	producer	charac1	ch arac2	[]	content	hhid
2013/02/17	1	Energy drinks	regular	Burn	Coca-Cola		can	[]	310 ML	a
2013/09/05	2	Snacks		Doritos	Sabritas	Pizzerolas	bag	[]	52gr	b
2013/12/26	2	Oil	Oil	1-2-3	La Corona	Vegetal	plastic	[]	500 ML	b
back										

The fastest-growing firms also acquire customers the fastest

Number of purchases instead of Volume



The fastest-growing firm-industry pairs also acquire customers the fastest



The customer margin is the key one to increase sales

	Panel	A: All tirms	
Dep. var:	Customers	ltems per C	MXN per item
All	0.622*** (0.005)	0.215*** (0.004)	0.162*** (0.004)
N	12064	12064	12064
R2	0.97	0.91	0.89

Panel B: Mexican firms

Dep. var:	Customers	ltems per C	MXN per item
ΑШ	0.625***	0.218***	0.157***
	(0.005)	(0.004)	(0.005)
N	10943	10943	10943
R2	0.97	0.91	0.88

Panel C: Foreign Firms

	i unci c.	T OI CIGIT I II III I	
Dep. var:	Customers	ltems per C	MXN per item
ΑII	0.586***	0.171***	0.243***
	(0.015)	(0.010)	(0.016)
N	1121	1121	1121
R2	0.99	0.96	0.91

How to get more customers

	P	anel A: Al	l firms			
Dep. var:	Cities	per city	Chains	per chain	Products	per product
All	0.630***	0.370**	* 0.595**	* 0.405***	0.294***	0.706***
	(0.004)	(0.004)	(0.004)	(0.004)	(0.005)	(0.005)
N	12257	12257	12428	12428	12428	12428
R2	0.97	0.95	0.96	0.94	0.96	0.95
	Pane	el B: Mexi	can firms			
Dep. var:	Cities	per city	Chains	per chain	Products	per product
Mexican firms	0.629***	0.371**	* 0.596**	* 0.404***	0.283***	0.717***
	(0.004)	(0.004)	(0.004)	(0.004)	(0.005)	(0.005)
N	11165	11165	11283	11283	11283	11283
R2	0.96	0.94	0.96	0.93	0.95	0.95
	Pane	el C: Forei	gn Firms			
Dep. var:	Cities	per city	Chains	per chain	Products	per product
Foreign firms	0.649***	0.351**	* 0.565**	* 0.435***	0.451***	0.549***
	(0.012)	(0.012)	(0.014)	(0.014)	(0.017)	(0.017)
N	1092	1092	1145	1145	1145	1145
R2	0.99	0.98	0.98	0.98	0.98	0.96



Mexican firms introduce relatively more new goods

			Share new	products		
	(1)	(2)	(3)	(4)	(5)	(6)
Mexican	0.053 (0.013)	0.042 (0.013)	0.053 (0.014)	0.046 (0.012)	0.035 (0.013)	0.045 (0.013)
Firm sales		-0.026 (0.007)	0.008 (0.009)		-0.025 (0.006)	0.007 (0.009)
Number of varieties			-0.199 (0.061)			-0.196 (0.060)
Firm leader in category			-0.071 (0.034)			-0.067 (0.034)
Firm controls	No	No	No	Yes	Yes	Yes
Year FEs	No	No	No	Yes	Yes	Yes
Baseline share (foreign)	0.22	0.22	0.22	0.22	0.22	0.22
N	12128	12128	12128	12127	12127	12127
R2	0.00	0.00	80.0	0.06	0.06	0.12