

Advancing financial inclusion

Established by





Is the financial sector meeting the needs of Mexicans? Implications for financial inclusion

February 2019



COMISIÓN NACIONAL BANCARIA Y DE VALORES

FI in Mexico

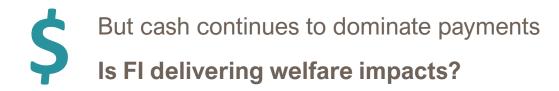
Great strides, but is it delivering impact?



ENIF 2012–2018:

68% (14.6 million more) have at least one financial product

47% (12.3 million more) have an account

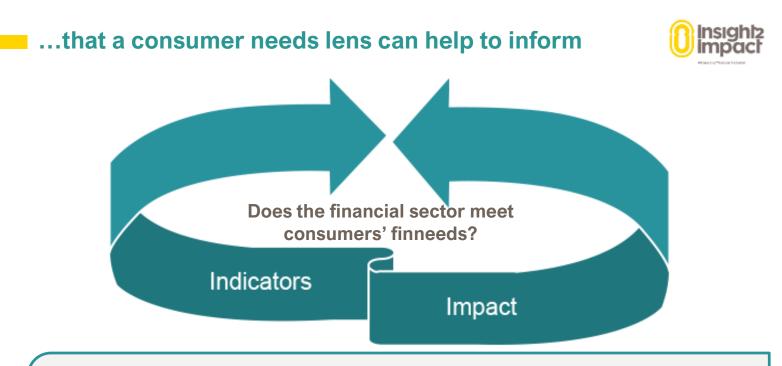


This is part of a bigger FI question internationally



Success in achieving financial inclusion targets

Questions around the impact of financial inclusion



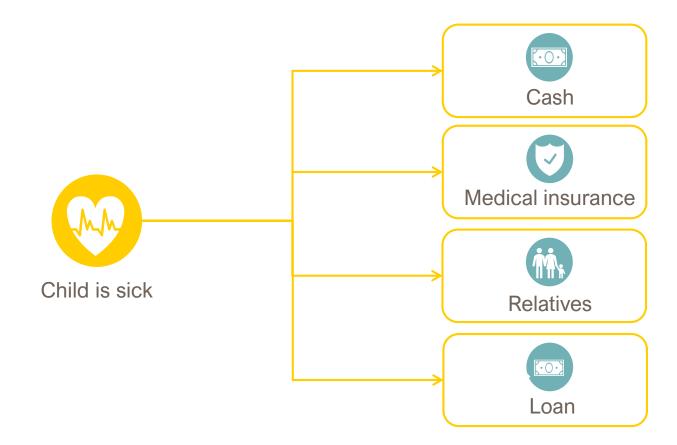
i2i Finneeds framework: A closer look at how people live their financial lives by considering what use cases they express, how they meet these use cases and how they *actually engage* with different financial services



Financial needs framework



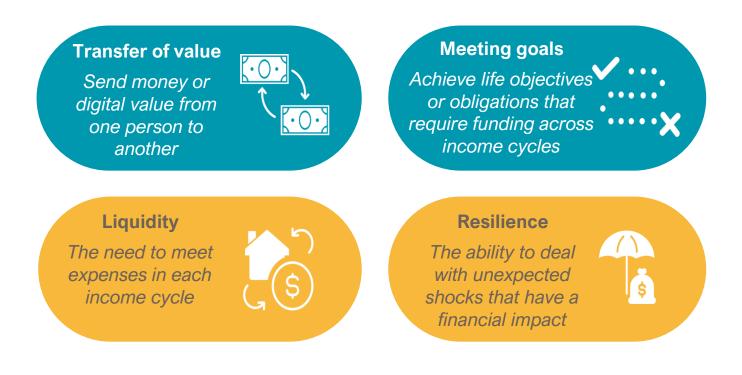
Everyone expresses financial use cases, pursued through financial devices



Financial needs framework



Need: A collection of use cases that can be fulfilled by financial services



About the Mexico study





Somolo	1,154 adults representative of Puebla state		
Sample	Fieldwork completed in December 2017		
	400 individuals		
Booster sample	Fieldwork completed in July 2018		

Key findings



FI is not yet doing enough to build financial health and social equity

Unmet needs highlight large market opportunities...



... and create distinct policy and market imperatives.

Agenda



1. How do people meet their financial needs?

- 2. A closer look at usage
- 3. Why do these findings matter?

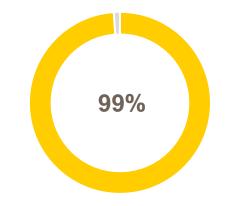
Which financial devices do people use?



Formal financial devices

Top three devices used	%
Money transfer from account	18%
Money in account	12%
Money transfer service	10%

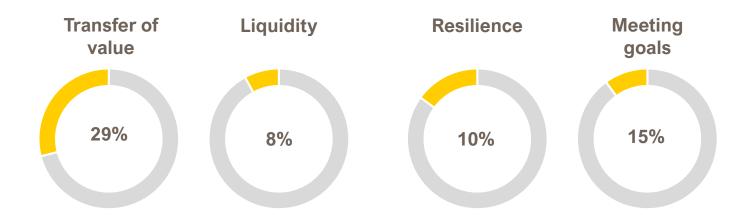
Informal financial devices



Top three devices used	%
Cash	99%
Money set aside at home	41%
Assistance from friends and family	32%

Formal financial sector not meeting needs





% of adults who use at least one formal fin service to meet their needs
% of adults who use only informal fin devices to meet their needs



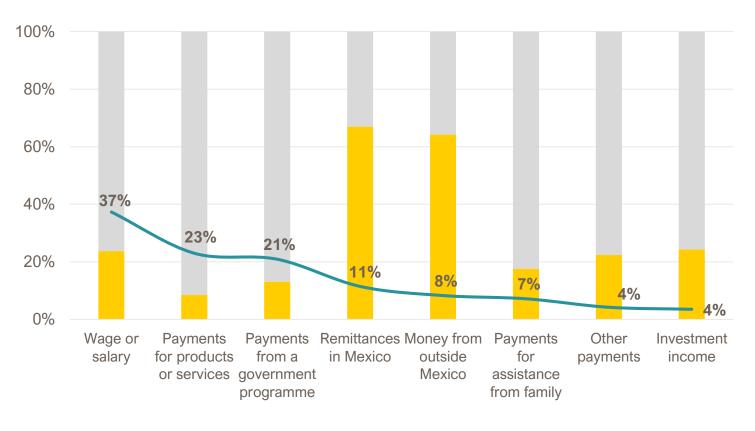
How do people receive and make payments?



Income receipts:



Some inroads being made in wages and remittances

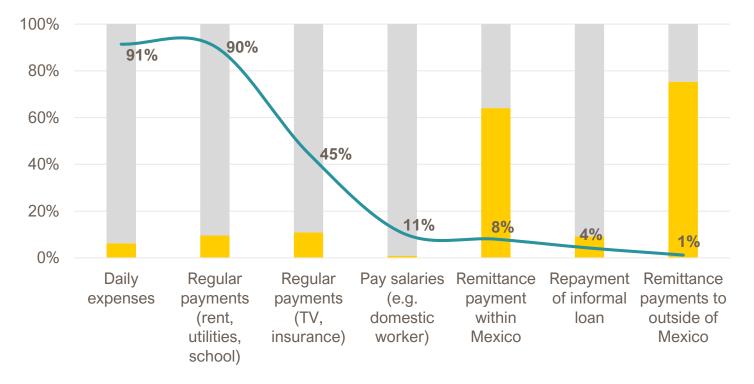


% adults who receive income digitally
 % adults who receive income

% of adults who receive income in cash

Payments: Cash dominating, with the exception of remittances



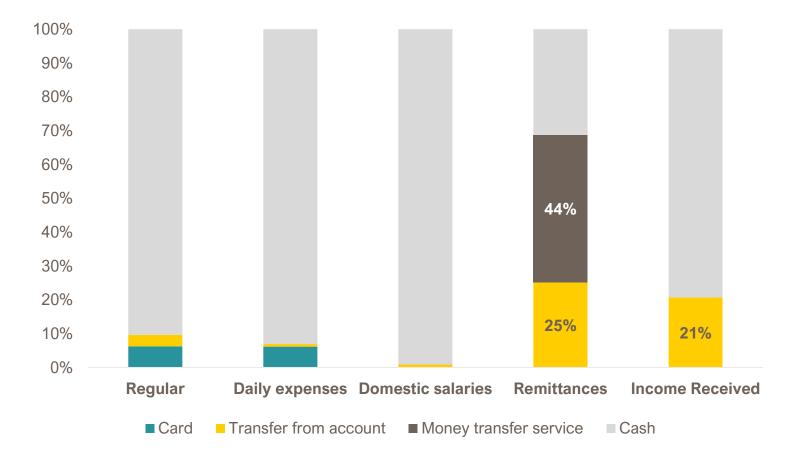


% of adults who make payments digitally
 % of adults who make payments

% of adults who make payments in cash

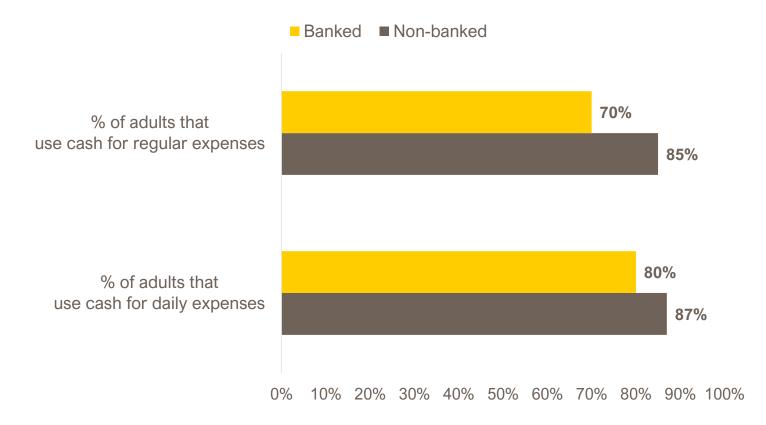
Most remittances still have a cash link





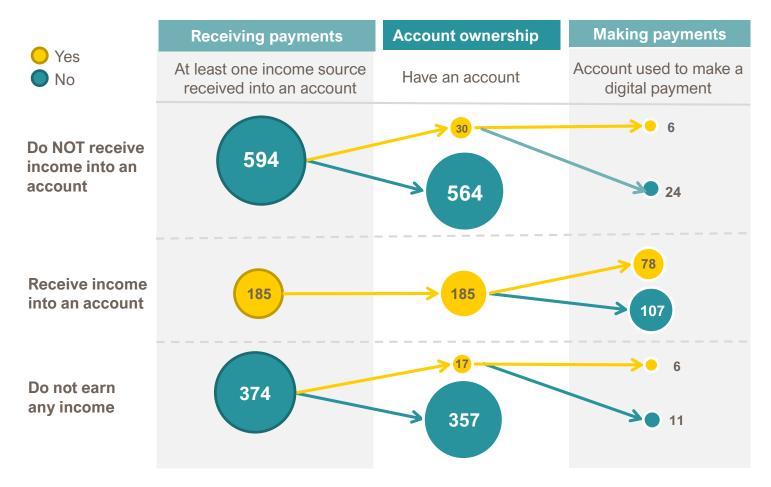
Cash remains the primary mechanism to transfer value, even for those with a bank account





Digital receipts as a predictor of digital payments?





Transfer of value

What does this tell us?



- A notable proportion of population have digital accounts.
- Digital growth points:
 - Income receipts
 - Remittances
- However, most use cases are still met largely via cash.
- Even for digital, there remains a cash link.
- Future growth points?
 - Instant payments that mimic cash

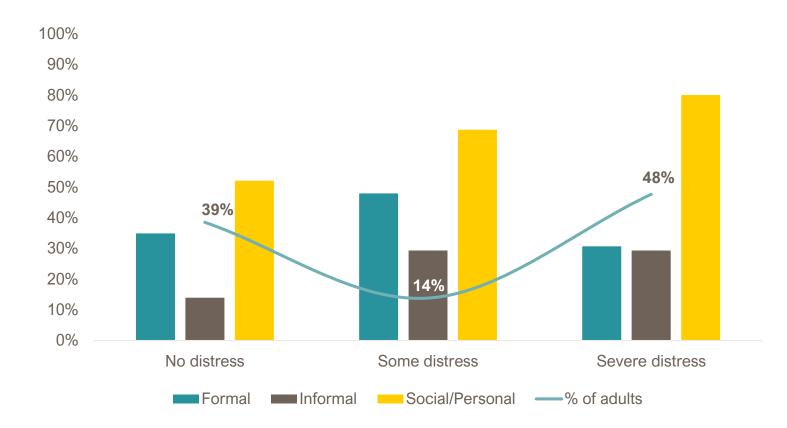


How do people manage liquidity?



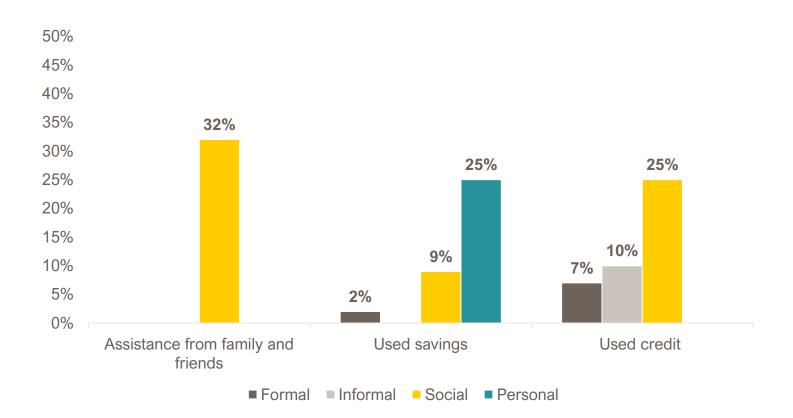
Most respond to liquidity stress by turning to their community or family





Very little reliance on formal savings or credit





Liquidity: What does this tell us?



- Distress makes people turn to social circle and cash at home:
 - Ease of access
 - Flexibility
- This is a call to action for the financial sector
 - How can formal features mimic assistance/cash at home to change consumer incentives towards formal?

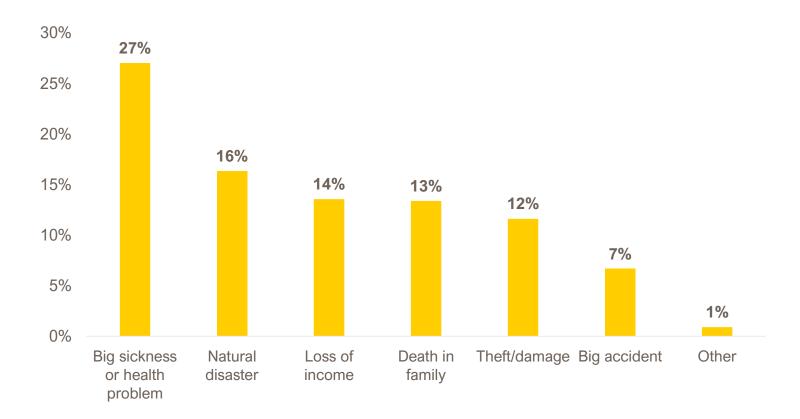


How do people cope with risks?



Many experienced a risk event in the past 12 months







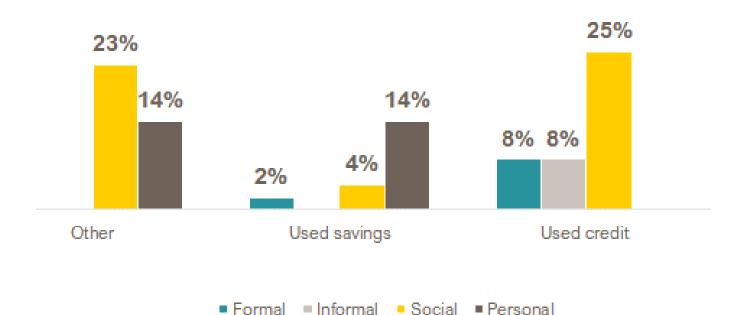


% of those who experienced a risk more than three months ago:

63%						17%		20%		
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
■H	Have not recovered			longer th	an 3 mon [.]	ths to rec	over ∎R	lecovered	d within 3	months

... despite reliance on informal devices





Resilience: What does this tell us?



- Informal coping strategies not able to secure resilience
- Welfare imperative for larger formal financial sector role

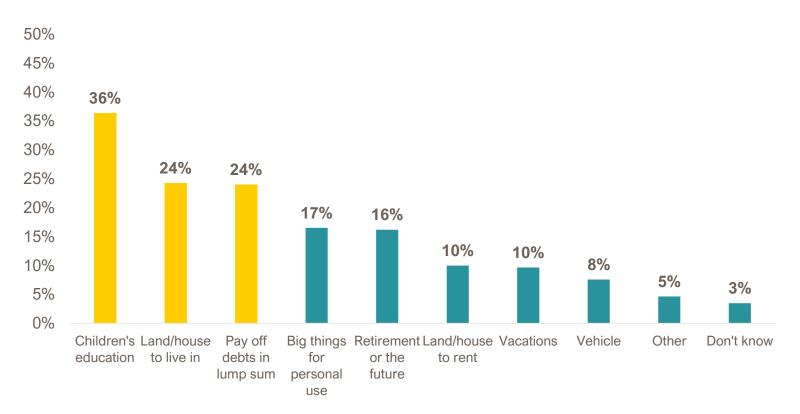


How do people meet goals?



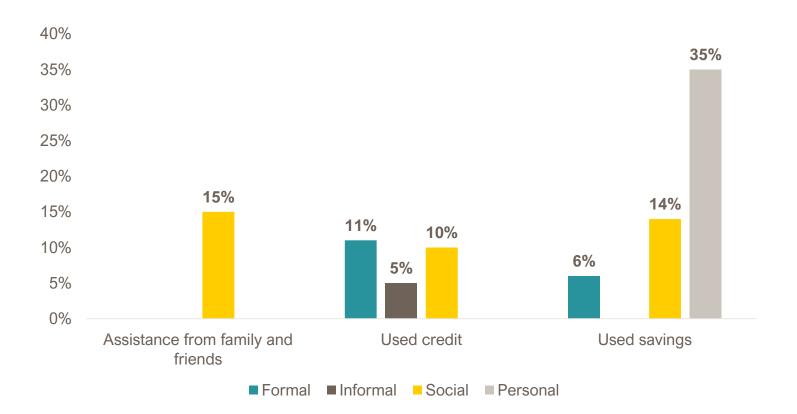
Education, paying off debts and buying house/land are the most expressed personal goals





Again: Reliance mostly on community or family and friends to meet this need





Meeting goals

What does this tell us?



- Formal sector already playing large role in some use cases
 - ENIF 2018 shows pensions emerging as anchor alongside other devices for retirement use case
- What will it take to extend the use cases for which the formal financial sector is the anchor?
 - Education
 - Home/land ownership

Agenda



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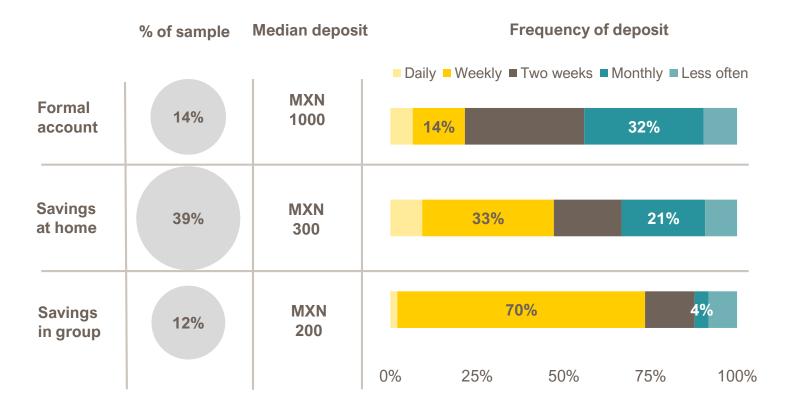


What are consumers telling us about their usage behaviour?



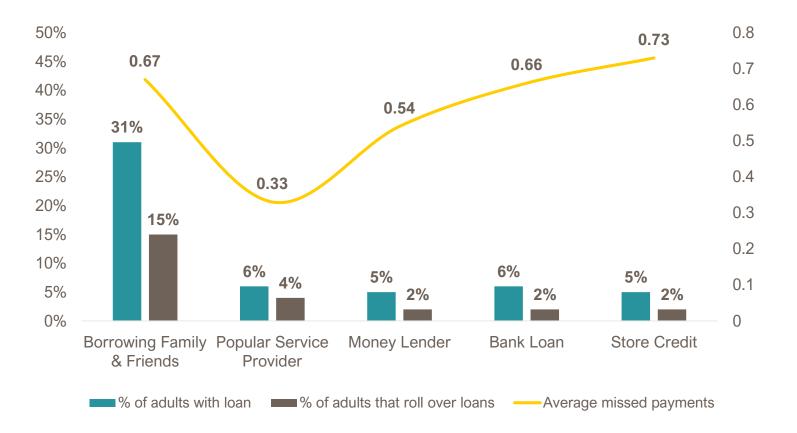
Savings usage behaviour





Credit usage behaviour





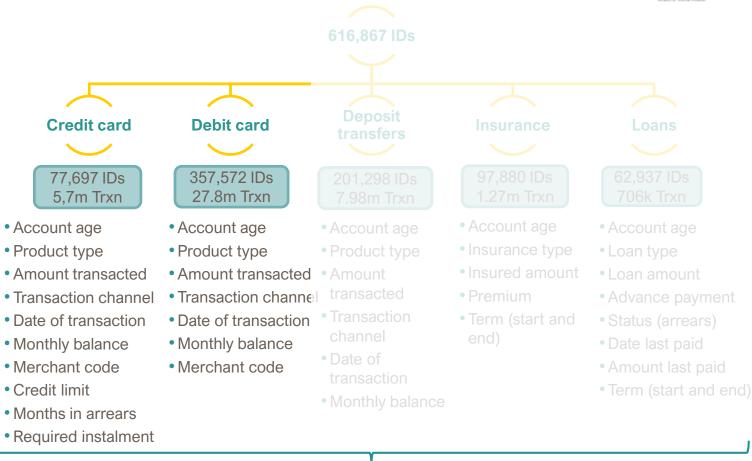


What does transaction data tell us about usage?



Overview: Retail bank data





Demographic Information

Age Gender

Key variables

Marital status

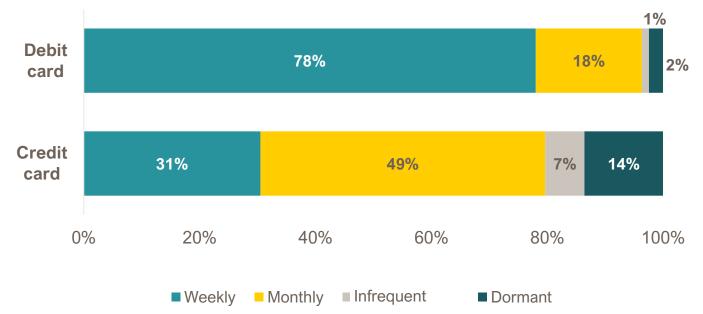
Income Education

Years associated

Comparing debit and credit card users by frequency of use



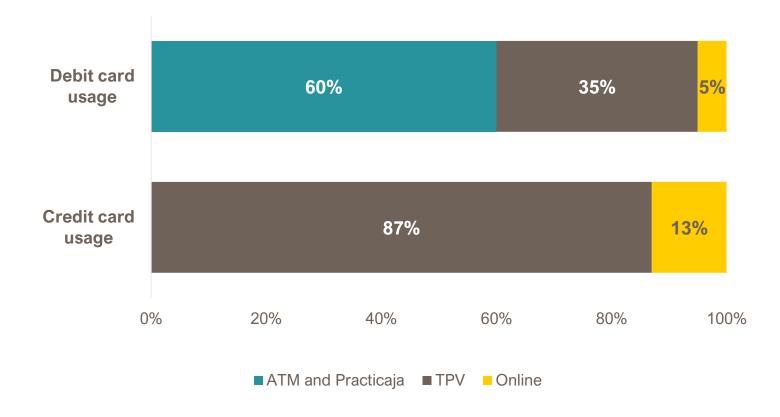
Frequency: Number of transactions conducted per active month (Unique customers from data sample)



Source: Retail bank transactional data

Comparing debit and credit card users by payment channel used





Source: Retail bank transactional data

What determines higher usage?



Usage Modelling Framework

	Recency +	Measure by	Days since last transaction
Usage =	Frequency +	Measure by	Average number of transactions
	Monetary Value +	Measure by	Average amount transacted
	Duration	Measure by	Age of account

Process

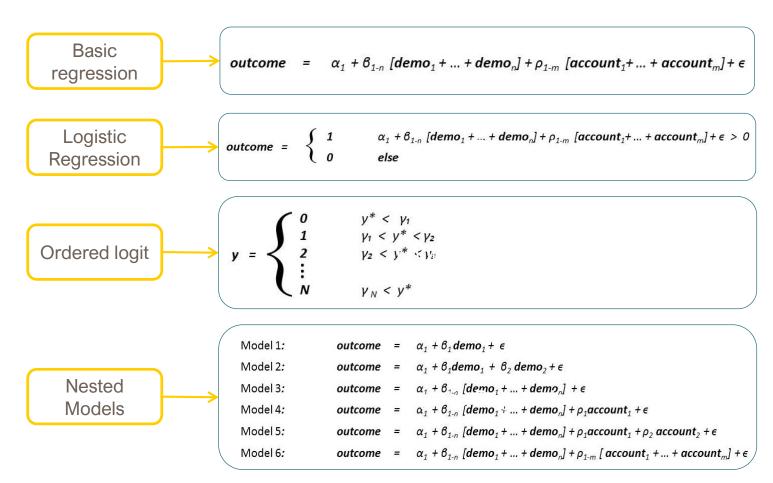
- 1. Cap and floor variables*
- 2. Standardise variables
- 3. Assign quintiles to IDs based on standardised variables
- 4. Create composite score by adding quintiles
- 5. Create quintiles for aggregate score

*drop observations below first percentile and above 99th percentile

Modelling usage

Basic analysis process





Results



	Order	ed Log	istic Regressi	on	
Explanatory variable	Debit Usage	P> z	Credit Usage	P > z	Statistics
gender (male)	1.05	0.000	0.98	0.121	
age	0.97	0.000	0.99	0.000	
In a relationship	1.4	0.000	0.93	0.000	Number of Observations
Income (base = Low)					354,692 ; 77,278
Medium Low	4.8	0.000	0.6	0.000	<i>LR chi</i> ² (16)
Medium High	9.4	0.000	1.4	0.000	168,683 ; 175,513
High	12	0.000	2.9	0.000	Probability > chi ²
Very High	13.1	0.000	8.4	0.000	0.000 ; 0.000
Education (base = None					Psuedo R-squared
Junior High School	1.36	0.001	0.55	0.004	0.1490 ; 0.0714
High School	1.86	0.000	0.74	0.137	
Tertiary	2.34	0.000	1.3	0.199	

Modelling usage

What determines usage?



ngly asso nship is s	ciated wit	h higher	. <i>Number of Observations</i> usage.so2 : 77.278 with higher
st importa ngly asso nship is s	ant driver ciated wit	of usage h higher u	usage.692 ; 77,278
ngly asso nship is s	ciated wit	h higher	usage.692 ; 77,278
		- 0.009	



When asked why they choose their particular device mix, the following picture emerges from the Puebla survey:

- People tend to use **formal services** more for the **functional benefit** (value and cost)
- Tend to use **informal/social** for **relational benefits** (trust and sense of belonging).
- All socioeconomic classes skew towards relational, except for AB who emphasise functional benefits.

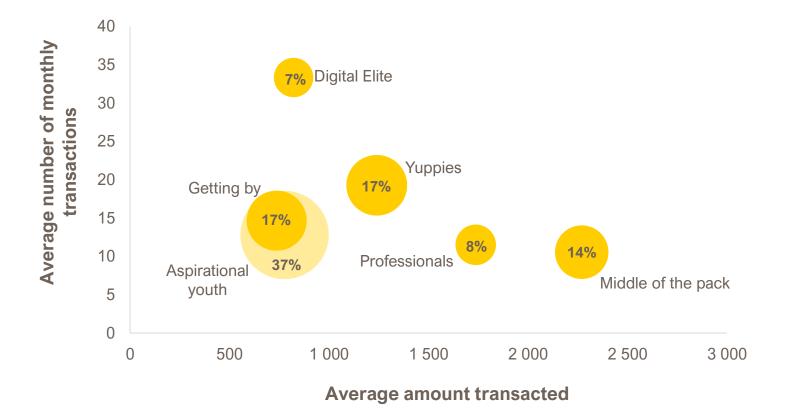
Segmenting customers by usage intensity



Method	K-means Clustering
Data	Debit card transactions
Variables	 Average number of transactions Average amount transacted Gender Age Income Education

Six clusters of users





Source: Retail bank transactional data

Overview of usage cluster profiles



	Getting by	Aspirational youth	Middle of the pack	Digital Elite	Professionals	Yuppies
% of sample	17%	37%	14%	7%	8%	17%
Male Female	42% 58%	53% 47%	56% 44%	<mark>39%</mark> 61%	30% 70%	57% 43%
Income	Low	Very Low	Medium	High	Very high	Very high
Married*	37%	35%	58%	47%	54%	55%
Education	Poor	Poor	Decent	Excellent	Good	Good
Median age	42	32	50	41	43	36

Source: Retail bank transactional data

*or living together/in a relationship



What insights do we get from combining the transaction and demand-side picture?



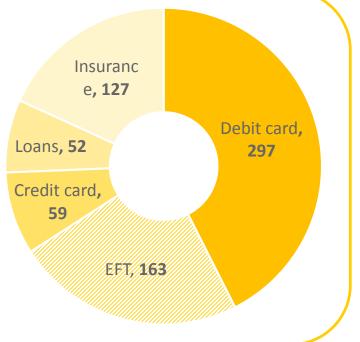
Merged data set summary statistics



- Final sample size: 400
- Matches in bank dataset:

Cautionary notes:

- Smaller sample size limits granularity
- Inherent sampling bias towards higher income and more "established" clients
- Demand-side data underreports formal usage relative to the objective stats in the transaction data



Understanding formal usage in context Usage Cluster Profile 1: Getting by

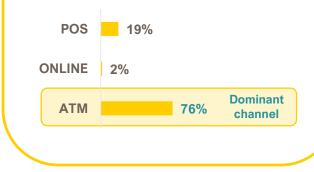


Getting by

17% of customers fall into this segment

Transactions per month	15
Average value per transaction	MXN 736
Median monthly spend	MXN 8,466

Transaction types used



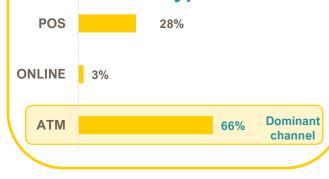
Consumer needs	Formal	Informal
Receive income	69% digital	45% cash
Make payments	60% digital	98% cash
Balance expenses (Liquidity)	11%	92%
Manage risks (Resilience)	10%	54%
Meet goals	27%	76%

Understanding formal usage in context Usage Cluster Profile 2: Aspirational youth



Aspirational youth

37% of customers fall into this segment
 Transactions per month
 Average value per transaction
 Median monthly spend
 MXN 8,596
 Transaction types used



Consumer needs	Formal	Informal
Receive income	60% digital	45% cash
Make payments	57% digital	96% cash
Balance expenses (Liquidity)	15%	97%
Manage risks (Resilience)	13%	47%
Meet goals	34%	72%

Understanding formal usage in context Usage Cluster Profile 3: Middle of the Pack



Middle of the pack				
14% of customers fall into this segment				
Transac	tions per month	n 1 ′	1	
Average value per transaction			XN 2,247	
Median monthly spend			XN 22,160	
— (1 (1)				
Transaction types used				
POS		39%		
ONLINE	5%			
АТМ		52%	Dominant channel	

Consumer needs	Formal	Informal
Receive income	59% digital	37% cash
Make payments	49% digital	100% cash
Balance expenses (Liquidity)	50%	65%
Manage risks (Resilience)	19%	35%
Meet goals	38%	62%

Understanding formal usage in context Usage Cluster Profile 4: Digital Elite

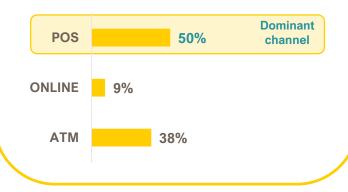


Digital Elite

7% of customers fall into this segment

Transactions per month	33
Average value per transaction	MXN 821
Median monthly spend	MXN 23,427

Transaction types used

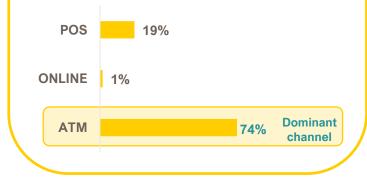


Consumer needs	Formal	Informal
Receive income	88% digital	46% cash
Make payments	92% digital	92% cash
Balance expenses (Liquidity)	73%	53%
Manage risks (Resilience)	45%	45%
Meet goals	60%	50%

Understanding formal usage in context Usage Cluster Profile 5: Professionals



Professio	Professionals		
8% of customers fall in	to this segment		
Transactions per month	12		
Average value per transaction	MXN 1,712		
Median monthly spend	MXN 17,508		
Transaction types used			



Consumer needs	Formal	Informal
Receive income	58% digital	38% cash
Make payments	67% digital	100% cash
Balance expenses (Liquidity)	23%	77%
Manage risks (Resilience)	10%	40%
Meet goals	38%	46%

Source: Merged dataset

Understanding formal usage in context Usage Cluster Profile 6: Yuppies

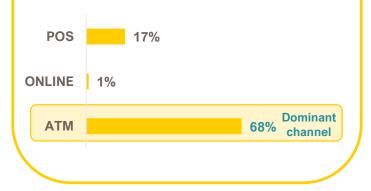


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YU	D	D	ies
		P '	

17% of customers fall into this segment

Transactions per month	19
Average value per transaction	MXN 1,162
Median monthly spend	MXN 19,250

Transaction types used



Consumer needs	Formal	Informal
Receive income	71% digital	49% cash
Make payments	74% digital	91% cash
Balance expenses (Liquidity)	30%	87%
Manage risks (Resilience)	22%	31%
Meet goals	54%	46%

Agenda



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Key findings



Fl is not yet doing enough to build financial health and social equity

Unmet needs highlight large market opportunities...



... and create distinct policy and market imperatives.

Falling short of its policy purpose



- Customer portfolio choice systematically biased against formal sector
 - Across socio-economic classes and finneeds
 - Growth points: pensions, remittances, income receipts
- Formal sector limited contribution to building welfare
 - 37% ran out of money more than one month the past year.
 - 63% who experienced a shock more than three months ago had not yet recovered.
 - A more formal portfolio does not really make a difference.
 - But neither do informal/social devices ensure resilience.
- A mismatch between needs and market offering
 - The social/informal preference is not due to low literacy or awareness.
 - Informal is preferred for relational aspects and cash for convenience.

Substantial market opportunities

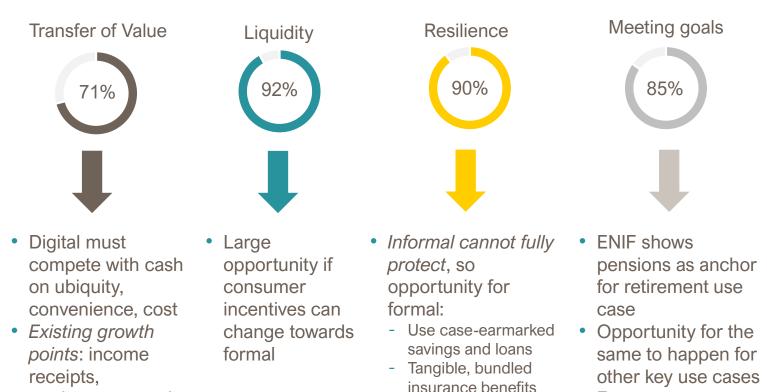


• E.g. use case-

and loans

earmarked savings

% of each "need market" still to be tapped:



- remittances, card
- *Future:* instant payments



Focus financial inclusion on outcomes, rather than reach

by fixing failures and leveraging successes of financial sector from a finneeds perspective

Importance for:



Policy and market imperatives



Formal services must provide the ease of access and flexibility of informal and social alternatives

- Holistic policy perspective on how to help people recover from financial shocks and build resilience: via insurance, but also credit, savings and social security
- Explore scope for savings vehicles earmarked for education savings and land/property ownership

Frame digitisation path taking cash use cases as starting point Instant payments for *ubiquity*, *convenience*, *cost* (*CoDi*)



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