# APPENDIX

## A Variables of the model

## ${\bf Table \ A1} \quad {\rm Description \ of \ variables}$

Variable	Description
A go	Describes the age range in which microentrepreneurs is (18 - 30), (31 - 42),
Age	(43 - 58) and (more than 58)
Education	Describes the range of the education level of the microentrepreneurs: primary
Education	and others, high school or secondary and university
Female	One if the microentrepreneurs is a woman and zero otherwise
Number of Workers	Besides you, how many people on average have worked at this establishment
Number of workers	in the last 12 months or in the months of operation?
Internet use	One if firm uses internet or zero if not to carry out your economic activities
Internet use	related to your business
Financial inclusion index	Where zero corresponds to complete exclusion and one complete inclusion
Separate Account	One if there is an exclusive savings account for this business, zero otherwise
Use electronic wallet	One if the firm has ever used an electronic wallet, zero otherwise
Penk Loon	One if a bank loan or credit was requested and accepted with traditional
Dalik Loan	banks (eg BBVA, Bancolombia, etc.), zero otherwise
Family Incurance	One if the firm currently has any type of insurance for your family, for you
Family insurance	or for your business, zero otherwise
	Where zero corresponds to complete informality and one corresponds to com-
Formality index	plete formality
Operating Permit	One if the firm has an operating permit, zero otherwise
A committing accords	One if the firm has accounting records, through formal accounting or main-
Accounting records	taining personal records, zero otherwise
Commercial Registry	One if it has a commercial register or zero otherwise
Tox registry	One if the firm is either register with the tax authority as a firm or as a
Tax registry	natural person, zero otherwise
Insured Workers	Proportion of workers with social security benefits

<b>Business Practices</b>	One corresponds if the microbusiness adopts all business practices and zero if it does not adopt any of them			
marketing				
Business practice 1	One if firm visited a competitor's business to learn their prices, zero otherwise			
Business practice 2	One if firm visited a competitor's business to see the products offered, zero otherwise			
	One if firm asked his current customers if there was any product or service that they would like to			
Business practice 3 buy or have in his business, zero otherwise				
Business practice 4	One if the business asked a vendor about what products are selling well in the industry or sector, zero otherwise			
Business practice 5	One if firm attract customers with special offers, zero otherwise			
Business practice 6	One if firm did some kind of marketing, zero otherwise			
Business practice 7	One if firm suggested new products or services to his customers, zero otherwise			
Business practice 8	One if firm has weekly sales goals or objectives or monthly, zero otherwise			
Business practice 9	One if it uses the internet, books, magazines or newspapers about new trends in the sector, zero otherwise			
Inventory				
Business practice 10	One if it tried to negotiate with a provider for lower prices for your raw materials, zero other			
Business practice 11	One if it compared prices and / or quality offered with alternative suppliers or raw material sources, zero otherwise			
Business practice 12	One if firm keeps inventories, zero otherwise			
Business practice 13	One if firm keeps inventory records of final products and raw materials, zero otherwise			
Sales and Purchases				
Business practice 14	One if firm records all sales and purchases, zero otherwise			
Business practice 15	One if the firm, using his records, knows how much cash it has on hand?, zero otherwise			
Business practice 16	One if it uses product sales information to know if it is growing or decreasing, zero otherwise			
Business practice 17	One if it knows the cost of each product it sells, zero otherwise			
Business practice 18	One if it knows what products or services the greater utility or benefit, zero otherwise			
Business practice 19	One if it keeps a written budget that informs it how much does it owe monthly, zero			
	One if the firm has accounting records that document that the business generates sufficient profits			
Business practice 20	to pay a hypothetical bank loan, zero otherwise			
Business practice 21	One if the firm saves payment receipts and/or invoices for his suppliers, zero otherwise			
Business practice 22	One if it gives payment receipts and or invoices to his customers, zero otherwise			
Financial planning				
Business practice 23	One if firm reviews his achievements or financial performance of his business, zero			
Business practice 24	One if firm analyzes the areas or activities of the business that can be improved in their performance, zero			
Business practice 25	One if firm keeps balance sheet of your business, zero			
Business practice 26	One if firm keeps cash flow statements (record of cash available) zero			
Communications				
Business practice 27	One if firm discuss business ideas with other people, zero otherwise			
Business practice 28	One if it discuss new production techniques with other entrepreneurs, zero otherwise			
business practice 20	One if firm meets with a least one networking communities zero otherwise			
Business practice 30	One if firm belongs to an association of entrepreneurs, zero otherwise			
F 00				

 ${\bf Table \ A2} \ \ {\rm Variables \ of \ Business \ Practices \ index}$ 

## Table A3 Cognitive Variables

Variable	Description			
Reflective, Intuitive				
Reflective-Intuitive 1	A hamburger and a soda cost 11,000 (COP). The hamburger costs 10,000 (COP) more than the soda. How much does the soda cost? If the answer is 500 it is reflective if it is 1000 it is intuitive			
Reflective-Intuitive 2	If it takes 5 machines 5 minutes to make 5 screws, how long does it take 100 machines to make 100 screws? If the answer is 100 min it is reflective if it is 10 min intuitive			
Reflective-Intuitive 3	In a lake there is an area covered with floating flowers. Every day the area covered by the flower's doubles in size. If it takes 64 days for the flowers to cover the entire lake, how long does it take them to cover half the lake? If the answer is 63 days it is reflective if it is 32 it is intuitive			
Financial mathematical skills				
Mathematical skill 1	In a sales rebate, a store or business sells all of its products at half its price. Before the sale, one of their products cost 4,000,000. At how much will you sell it in the sales rebate?			
Mathematical skill 2	If you sold two products for 8,000 each and your customer gave you a 20,000 bill, how much money should you give back?			
Mathematical skill 3	Now, assume you have 1,000,000 invested in a business that gives you a 2% profit rate. After 5 years, how much would you have:			
Mathematical skill 4	With an annual interest rate of 1% and annual inflation of 2%, how much could you buy the following year?			
Perseverance				
Perseverance 1	Many times, I persisted with work when others gave up			
Perseverance 2	I keep working on difficult projects even when others object			
Personal initiative				
Personal initiative 1	I actively face the problems that come my way			
Personal initiative 2	When something goes wrong, I look for a solution immediately			
Personal initiative 3	When an opportunity to get involved in something appears, I take it			
Personal initiative 4	I take the initiative immediately even when others don't			
Personal initiative 5	I take advantages of opportunities quickly to achieve my goals			
Personal initiative 6	I usually do more than I am asked			
Personal initiative 7	I am particularly good at noticing opportunities			

# **B** Summary statistics

 ${\bf Table \ B1} \ {\rm Descriptive \ statistics}$ 

	mean	$\operatorname{sd}$
Panel A. Socio-demographic		
Female	0.51	0.50
Age 18-30	0.20	0.40
Age 31-42	0.31	0.46
Age 43-58	0.35	0.48
Age more than 58	0.13	0.33
Primary	0.24	0.43
High School	0.35	0.48
College	0.41	0.49
Number of workers	1.41	2.06
Panel B. Economic activity		
Store	0.19	0.39
Prepared food, bars	0.20	0.40
Service (hairdressing, health, etc)	0.23	0.42
Other businesses	0.38	0.49
Panel C. Cities		
Bello	0.09	0.29
Barranquilla	0.12	0.33
Bogota	0.12	0.33
Girardot	0.09	0.29
Soacha	0.13	0.33
Zipaquira	0.08	0.27
Neiva	0.11	0.31
Pereira	0.05	0.22
Bucaramanga	0.13	0.34
Ibague	0.06	0.25
Panel D. Cognitive indicators		
CRT: Reflective	0.21	0.19
CRT: Intuitive	0.61	0.21
Financial mathematical skills	0.58	0.24
Perseverance	0.82	0.20
Panel E. Formality beliefs		
Difference beliefs	0.27	0.35
Observations	1542	

	(ENET S	Survey 2019)	(DANE S	Survey 2016)	(ANIF S	Survey 2020)
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	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$	mean	$\operatorname{sd}$
Tax registry	0.84	0.35	0.78	0.41	0.88	n.a.
Commercial Registry	0.76	0.43	0.73	0.45	0.74	n.a.
Bank Loan	0.17	0.38	0.21	0.41	0.27	n.a.
Use electronic wallet	0.13	0.34	0.08	0.28		n.a.
Number of workers	1.42	2.05	2.20	1.53		n.a.
Number of Workers 1					0.32	n.a.
Workers between 2 and 5					0.57	n.a.
Workers between 2 and 5					0.08	n.a.
Observations	1572		33013		1500	

## Table B2 Comparative Summary Statistics

Source: ENET study, DANE and ANIF, data of ANIF survey was extracted from the official report

## C Model estimates

## C.1 Detailed result tables

Table C1: SEM regressions coefficient estimates (model with controls)

Dependent / Regressor	Estimate	Std.Err	P-val
Business Practices (BP)			
Personal Initiative (PI)	0.06	0.01	< 0.001
Female	-0.012	0.007	0.076
High School	0.026	0.01	0.007
College	0.063	0.011	< 0.001
Age 31-42	0.005	0.01	0.612
Age 43-58	-0.018	0.01	0.056
Age more than 58	-0.049	0.014	< 0.001
Number of workers	0.011	0.002	< 0.001
Owner before	0.002	0.011	0.835
Risk aversion	0.008	0.003	0.007
CRT: Reflective	0.083	0.022	< 0.001
CRT: Intuitive	0.064	0.018	< 0.001
Financial mathematical skills	0.061	0.017	< 0.001
Perseverance	0.007	0.019	0.698
Economic activity			
Store (ommitted)			
Prepared food, bars	0.041	0.012	0.001
Service, hairdressing	0.032	0.012	0.005
Other business	0.046	0.011	< 0.001
Cities			
Bello (ommitted)			
Barranquilla	0.088	0.018	< 0.001
Bogota	-0.006	0.016	0.735
Girardot	-0.109	0.019	< 0.001
Soacha	0.003	0.015	0.837
Zipaquira	-0.005	0.018	0.788
Neiva	-0.011	0.017	0.489
Pereira	-0.085	0.02	< 0.001
Bucaramanga	-0.045	0.016	0.006
Ibague	-0.019	0.018	0.274
Formality (FO)			
Difference on formality beliefs (DFP)	0.155	0.017	< 0.001
Business Practices (BP)	0.071	0.179	0.69
Female	-0.008	0.009	0.337
High School	0.042	0.013	0.001
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Dependent / Regressor	Estimate	Std.Err	P-val
College	0.063	0.018	0.001
$\Delta = 31-42$	0.003	0.010	0.001
Age 43-58	0.02	0.012	0.109
Age more than 58	0.006	0.018	0.745
Number of workers	0.009	0.013	0.002
Owner before	0.017	0.014	0.206
Bisk aversion	0.008	0.004	0.03
CBT: Reflective	-0.044	0.03	0.14
CBT: Intuitive	-0.016	0.025	0.533
Financial mathematical skills	0.017	0.024	0.489
Perseverance	-0.024	0.024	0.323
Economic activity	0.0	0.000	0.020
Store (ommitted)			
Prepared food, bars	-0.015	0.017	0.363
Service, hairdressing	0.062	0.017	< 0.001
Other business	0.011	0.015	0.471
Cities			
Bello (ommitted)			
Barranquilla	0.053	0.027	0.046
Bogota	0.058	0.021	0.007
Girardot	0.126	0.03	< 0.001
Soacha	0.087	0.021	< 0.001
Zipaquira	0.115	0.025	< 0.001
Neiva	0.115	0.023	< 0.001
Pereira	0.02	0.028	0.476
Bucaramanga	0.057	0.023	0.013
Ibague	-0.136	0.025	< 0.001
Financial Inclusion (FI)			
Business practices (BP)	1.053	0.346	0.002
Formality (FO)	0.229	0.166	0.167
Female	-0.013	0.016	0.422
High School	0.033	0.025	0.191
College	0.055	0.034	0.11
Age 31-42	0.008	0.022	0.729
Age 43-58	0.005	0.023	0.824
Age more than 58	0.062	0.034	0.071
Number of workers	0.011	0.006	0.053
Owner before	-0.01	0.026	0.705
Risk aversion	-0.002	0.007	0.734
CRT: Reflective	-0.097	0.055	0.08
CRT: Intuitive	-0.017	0.047	0.71
Financial mathematical skills	-0.038	0.045	0.401
Perseverance	0.008	0.046	0.87
Economic activity			
Store (ommitted)			
Prepared food, bars	-0.07	0.031	0.025
Service, hairdressing 3	-0.026	0.029	0.376
Other business	-0.044	0.029	0.127
Cities			
Bello (ommitted)			
Barranquilla	0.189	0.05	< 0.001
Bogota	0.05	0.041	0.219
Girardot	0.092	0.059	0.121
Soacha	0.045	0.041	0.267
Zipaquira	-0.026	0.048	0.585
Neiva	0.007	0.046	0.881
Pereira	0.145	0.052	0.006
Bucaramanga	0.072	0.044	0.104
Ibague	0.128	0.049	0.01
Variances			
Financial Inclusion	0.118	0.005	< 0.001
Formality	0.088	0.004	< 0.001
Business Practices	0.157	0.006	< 0.001
Personal Initiative	0.065	0.004	< 0.001

Table C1: SEM regressions coefficient estimates (model with controls)

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Table C1: SEM regressions coefficient estimates (model with controls)

Dependent / Regressor	Estimate	Std.Err	P-val
Covariances			
Formality $\sim$ Business Practices	0.004	0.003	0.157
Financial Inclusion $\sim$ Formality	-0.003	0.004	0.413
Financial Inclusion $\sim$ Business Practices	-0.01	0.005	0.062

Notes: Coefficients of the regressions of the structural model which was jointly estimated via maximum likelihood. It was implemented using lavaan for R. The description of each measure is available in appendix. A.

#### C.2 Ordinary least squares and Two-stage least squares

Our empirical strategy is based on the estimation of a SEM. Yet, an alternative is to estimate the parameters of BP and FO in the FI Equation (1) via twostage least squares (2SLS). The advantage of this alternative is that it requires weaker assumptions on the distribution of the unobservables. It also allows for a simple comparison with the ordinary least squares (OLS) version that imposes exogeneity of BP, FI, and FO.

In this strategy, the equation for  $BP \ 2$  and a simplified version of the equation for  $FO \ 3$  became the first stage and the equation for  $FI \ 1$  the second stage regression. Equation 3 is simplified by removing BP as a regressor, given that our results section has already ruled out this channel. For these regressions, we use the predicted factors after estimating the CFA measurement model.

Table C2 shows the coefficients of the ordinary least squares (OLS) regression (column 1), the first stage regressions for BP (column 2) and FO (column 3), and the 2SLS regression (column 3). All regressions include the same controls as the main exercises, fixed location (city or municipality), and the economic sector fixed effects. Robust standard errors are shown in parentheses.

In the BP first stage (column 2), the PI index has a positive and statistically significant effect on BP. Similarly for the FO equation, DFB is also significant. If we explore the Cragg-Donald F-statistics for both equations (notoriously large based on the rule of thumb in Staiger and Stock (1997)), as well as the weak identification test, we can assert the relevance of both instruments.

Once we address the endogeneity issue (present in the OLS regression in column 1), we find that the estimated effect of BP is much larger than in the OLS method. Therefore, the OLS model underestimates the effect of BP on FI due to the reverse causality issue described above. Furthermore, the coefficient of formality is smaller.

	(1) (OLS)	(2) (IV 1st stage)	(3) (IV 1st stage)	(4) (IV 2nd stage)
	Financial inclusion	Business practices	Formal	Financial inclusion
Business practices	0.423***			1.014***
	(0.0248)			(0.121)
Formal	$0.224^{***}$			0.0684
- or man	(0.0215)			(0.0766)
Personal initiative	0.0421***	0.0728***	0.00629	
	(0.00713)	(0.00809)	(0.00749)	
Difference formal beliefs	-0.000463	0.0440***	0.170***	
	(0.0109)	(0.0113)	(0.0116)	
Female	-0.0209***	-0.0109*	-0.00891	-0.0158**
	(0.00588)	(0.00599)	(0.00588)	(0.00681)
High School	0.0491***	0.0236***	0.0432***	0.0418***
-	(0.00662)	(0.00875)	(0.00863)	(0.00921)
Callera	0.0049***	0.0500***	0.0000***	0.0000***
College	0.0948***	0.0596***	0.0660***	0.0698***
	(0.00795)	(0.00921)	(0.00925)	(0.0121)
Age 31-42	0.0110	0.00457	0.0190**	0.0112
	(0.00880)	(0.00799)	(0.00852)	(0.00986)
A 49 F0	0.00011	0.0106**	0.010.4**	0.00005
Age 43-58	-0.00641 (0.00880)	-0.0196	$(0.0184^{\circ\circ})$	0.00805
	(0.00000)	(0.00001)	(0.00000)	(0.0101)
Age more than 58	0.0310***	-0.0498***	0.00229	0.0608***
	(0.0110)	(0.0116)	(0.0117)	(0.0139)
Number of workers	0.0183***	0.0103***	0.01000***	0.0138***
	(0.00186)	(0.00175)	(0.00145)	(0.00228)
	( )	· · · ·	( )	· · · ·
Owner before	-0.00857	0.00104	0.0173*	-0.00650
	(0.00925)	(0.00946)	(0.00953)	(0.0101)
Risk aversion	0.00257	0.00748***	0.00837***	-0.000554
	(0.00238)	(0.00251)	(0.00251)	(0.00279)
	· /	. /	. ,	
CRT: Reflective	-0.0443**	0.0776***	-0.0400**	-0.0964***
	(0.0176)	(0.0171)	(0.0189)	(0.0222)
CRT: Intuitive	0.0225	0.0578***	-0.0130	-0.0137
	(0.0153)	(0.0153)	(0.0162)	(0.0186)
Financial mathematical skills	0.0000995	0.0524***	0.0185	-0.0280
	(0.0100)	(0.0140)	(0.0146)	(0.0176)
Perseverance	0.00843	0.00235	-0.0234	0.00339
	(0.0151)	(0.0169)	(0.0165)	(0.0189)
	0.00220	0.00048	0.00140	0.00000
Constant	0.00330	0.00948	0.00142	-0.00208 (0.0253)
Observations	1542	1542	1542	1542
Adjusted $R^2$	0.666	0.405	0.497	0.564
F	83.33	50.04	61.28	58.40
F test of excluded instruments		52.23	108.45	
Underidentification test		91.24	190.87	
Weak identification test		89.58	187.40	

Table C2	Econometric	results	under	OLS	and	2SLS

Notes: Standard errors in parentheses, OLS and IV regressions which includes fixed effects of municipality. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

#### D Measurement model

In our study, we aim to explain the impact of BP on FI. and explore the potential channel of FO. However, these concepts are subject to multiple definitions and indicators. For this reason, we construct factors that summarize multiple measures. There are several alternatives to attain this objective. We explore three methods: (i) simple averages, (ii) principal component analysis, and (iii) confirmatory factor analysis.

The first strategy is to add them up and normalize the sum. This provides equal weights to all the measures and has no underlying assumption on what the resulting index means.

The second strategy, PCA, aims to reduce the dimensionality of a dataset by extracting the common variance between the measures. The principal components are variables that group a set of measures according to their correlation and aim to maintain the total variation of the dataset. As a result, the PCA has no 'theory' behind the meaning of the resulting factors and the researcher chooses an interpretation. The reduction of the dimensionality depends on the degree of correlation of the measures. As discussed in the main text, Tables D1 to D3 present the correlation between measures. These correlations are positive and significant in most cases but are not high. As a result, the PCA exercise suggests retaining more than one factor per area of interest.

The third strategy, CFA, needs stronger assumptions in terms of the meaning of the constructs. A set of dedicated measures reflects the behavior of a latent variable plus measurement error. Typically this set of measures is chosen after a PCA exercise (exploratory factor analysis) which guarantees the high correlation (or internal validity) of the measures. As the PCA suggested the usage of more than one factor per dimension, our resulting factors have low reliability. For our exercise, this is not crucial as we are not aiming to assess the quality of a specific instrument that measures an abstract concept (apart from the case of PI, which we build based on the psychology literature). Nevertheless, in section E we try an alternative formulation of the set of measures, to show that our results are valid under alternative definitions of the concepts.

For our main estimates, we prefer the CFA as it is estimated via maximum likelihood as the SEM equations. Therefore, we can avoid the predicting error resulting from estimating a measurement system and then deriving the factors. Moreover, the resulting factor loadings are not very different among the three alternatives, so just presenting one of them is enough.

 ${\bf Table \ D1} \ \ {\rm Correlation \ matrix \ financial \ inclusion \ (FI) \ measures}$ 

	Separate Account	Bank Loan	Family Insurance	Use electronic wallet
Separate Account	1.00			
Bank Loan	-0.01	1.00		
Family Insurance	$0.26^{***}$	$0.07^{***}$	1.00	
Use electronic wallet	$0.30^{***}$	-0.01	$0.19^{***}$	1.00
N	1		11. 1 1	

Note: Correlation of each components of formality index. \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01

 ${\bf Table \ D2} \ {\rm Correlation \ matrix \ formality \ (FO) \ measures}$ 

	Accounting	Commercial	Insured	Tax	Operating
	Records	Registry	Workers	registry	Permit
Accounting records	1.00				
Commercial registry	$0.30^{***}$	1.00			
Insured workers	$0.20^{***}$	$0.11^{***}$	1.00		
Tax registry	$0.24^{***}$	$0.63^{***}$	$0.13^{***}$	1.00	
Operating permit	$0.08^{***}$	$0.34^{***}$	0.05	$0.27^{***}$	1.00

Note: Correlation of each components of formality index. \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01

Table D3	Correlation	matrix	business	practices	(BP)	measures
1000000	0011010101011	1110001111	0.01110000	practico		111000000100

	BP1	BP2	BP3	BP4	BP5	BP6	BP7	BP8
BP1	1							
P2	0.7901 ***	1						
P3	0.3335 ***	0.3614 ***	1					
P4	0.2902 ***	0.3321 ***	0.4175 ***	1				
P5	0.2144 ***	0.2316 ***	0.2873 ***	0.2472 ***	1			
P6	0.2089 ***	0.2154 ***	0.2276 ***	0.2017 ***	0.4603 ***	1		
P7	0.1942	0.1979	0.3360 ***	0.3204 ***	0.3286	0.3441 ***	1	
P8 Do	0.1852 ***	0.2337 ***	0.2150 ***	0.2174 ***	0.2581 ***	0.2993 ***	0.2417 ***	1
P9 D10	0.1926	0.1914	0.1989	0.1734	0.2640	0.2861	0.2108	0.2319
P10 D11	0.1804	0.1847	0.2224	0.3232	0.2149	0.1331	0.2439	0.1262
P11 D19	0.1903	0.2252	0.2072	0.3544	0.1920	0.1032	0.2180	0.2109
D12	0.1003	0.1606 ***	0.2043	0.1787 ***	0.2743	0.2818	0.2204	0.3773
P14	0.1330 ***	0.1455 ***	0.1762 ***	0.1352 ***	0.2397 ***	0.2808 ***	0.1731 ***	0.3446 *
P15	0.1555 ***	0.1744 ***	0.1896 ***	0.1703 ***	0.1944 ***	0.2555 ***	0.1470 ***	0.3717 *
P16	0.1311 ***	0.1699 ***	0.2174 ***	0.2096 ***	0.2497 ***	0.2420 ***	0.1965 ***	0.3911 *
P17	-0.0015	0.0353	0.0867 ***	0.1092 ***	0.048	0.0971 ***	0.1347 ***	0.1175 *
P18	0.0409	0.0507 ***	0.1458 ***	0.0933 ***	0.0593 ***	0.1311 ***	0.1806 ***	0.2075 *
P19	0.1504 ***	0.2030 ***	0.2130 ***	0.1717 ***	0.2013 ***	0.2676 ***	0.2004 ***	0.3370 *
P20	0.1569 ***	0.1718 ***	0.1931 ***	0.1474 ***	0.2345 ***	0.2354 ***	0.1763 ***	0.2085 **
P21	0.0692 ***	0.1004 ***	0.1221 ***	0.1740 ***	0.1475 ***	0.1561 ***	0.1195 ***	0.2294 *
P22	0.1467 ***	0.1534 ***	0.1168 ***	0.0800 ***	0.1939 ***	0.2308 ***	0.1557 ***	0.1835 *
P23	0.1657 ***	0.1863 ***	0.1891 ***	0.1359 ***	0.2377 ***	0.2623 ***	0.1947 ***	0.4302 *
P24	0.1340 ***	0.1887 ***	0.1869 ***	0.1839 ***	0.1989 ***	0.2521 ***	0.2444 ***	0.3946 *
P25 Doc	0.1286	0.1406 ***	0.1674 ***	0.1025 ***	0.2623 ***	0.2670 ***	0.1995 ***	0.3412 *
P26 D27	0.1502	0.1650 ***	0.1876 ***	0.1164 ***	0.2630 ***	0.2852 ***	0.1925 ***	0.3009 *
F21 D29	0.2702 ***	0.2770	0.2808	0.2409	0.2448	0.2098	0.2180	0.2430
P28 P20	0.2393	0.2017	0.2584	0.2100	0.2544	0.2990	0.2253	0.2256
P30	0.1504 ***	0.1311 ***	0.0555 ***	0.0634 ***	0.1130	0.1370	0.0974 ***	0.0500
1 30	0.1304	0.1311	0.0075	0.0034	0.1035	0.0003	0.0374	0.0455
DO	BP9	BP10	BP11	BP12	BP13	BP14	BP15	BP16
F9 D10	1 2200 ***	1						
P11	0.2051 ***	0 4893 ***	1					
P12	0 2545 ***	0 2384 ***	0 2572 ***	1				
P13	0.2235 ***	0.1694 ***	0.2448 ***	0.6797 ***	1			
P14	0.2416 ***	0.1134 ***	0.1575 ***	0.4937 ***	0.5175 ***	1		
P15	0.1988 ***	0.1215 ***	0.1901 ***	0.4884 ***	0.5007 ***	0.5493 ***	1	
P16	0.2484 ***	0.1466 ***	0.2531 ***	0.4714 ***	0.4582 ***	0.4943 ***	0.5384 ***	1
P17	0.0197	0.0728 ***	0.1840 ***	0.1316 ***	0.1509 ***	0.1262 ***	0.1988 ***	0.2089 *
P18	0.0621 ***	0.0756 ***	0.1544 ***	0.2117 ***	0.2037 ***	0.1764 ***	0.2649 ***	0.3165 *
P19	0.2763	0.1305	0.1868	0.4084 ***	0.4328	0.4318	0.4295	0.4505 *
P20	0.2724	0.1988	0.1871	0.3759	0.4068	0.3606	0.3143	0.3130
P21 D22	0.1721	0.1617	0.2289	0.2975	0.2846	0.3099	0.3196	0.2968
F 22 D92	0.2610	0.1029	0.1295	0.2398	0.2000	0.3107	0.2004	0.5008
F 23 P 24	0.2027	0.1391	0.2107	0.4515	0.4505	0.4399	0.4709	0.3101
D 24	0.2234	0.1102 ***	0.1647 ***	0.3533	0.5957 ***	0.3475	0.3380	0.4561 *
P26	0.2689 ***	0.1102	0.1130 ***	0.4016 ***	0.3237	0.4117 ***	0.3911 ***	0.3871 *
P27	0.3124 ***	0.2089 ***	0.2751 ***	0.2576 ***	0.2563 ***	0.2225 ***	0.1985 ***	0.2639 *
P28	0.3422 ***	0.1626 ***	0.2150 ***	0.2674 ***	0.3001 ***	0.2619 ***	0.2054 ***	0.2658 *
P29	0.2166 ***	0.0668 ***	0.0444	0.1062 ***	0.1167 ***	0.1041 ***	0.0787 ***	0.0792 *
P30	0.1880 ***	0.1119 ***	0.0376	0.1184 ***	0.1197 ***	0.0913 ***	0.0913 ***	0.0767 *
	BP17	BP18	BP19	BP20	BP21	BP22	BP23	BP24
P17	1	1						
1°18 P10	0.4249	1 0 2080 ***	1					
1 19 P20	0.1010	0.2009	0.4402 ***	1				
P21	0.2595 ***	0.1650 ***	0.2359 ***	0.1771 ***	1			
P22	0.0481	0.0576 ***	0.3099 ***	0.3460 ***	0.1626 ***	1		
P23	0.1215 ***	0.2060 ***	0.3802 ***	0.3654 ***	0.2626 ***	0.3371 ***	1	
P24	0.1836 ***	0.2950 ***	0.3500 ***	0.3086 ***	0.2425 ***	0.2526 ***	0.5535 ***	1
P25	0.1513 ***	0.1655 ***	0.4401 ***	0.4432 ***	0.2359 ***	0.3598 ***	0.4996 ***	0.4087 *
P26	0.0967 ***	0.1473 ***	0.4492 ***	0.5340 ***	0.2082 ***	0.3841 ***	0.4189 ***	0.3562 *
P27	0.0820 ***	0.1244 ***	0.2445 ***	0.3005 ***	0.1269 ***	0.2338 ***	0.2689 ***	0.3055 *
P28	0.0501 ***	0.1041 ***	0.2964 ***	0.3484 ***	0.1218 ***	0.2777 ***	0.2847 ***	0.2667 *
P29 P30	-0.0227 -0.0302	-0.0185 0.0073	0.1397 *** 0.1379 ***	0.1682 *** 0.1584 ***	0.0322 0.0272	0.1799 *** 0.1515 ***	0.1344 *** 0.1369 ***	0.0853 **
	BP25	BP26	BP27	BP28	BP29	BP30		
P25	1					~~		
P26	0.5919 ***	1						
P27	0.2615 ***	0.2987 ***	1					
P28	0.2903 ***	0.3629 ***	0.6136 ***	1				
P29	0.1303 ***	0.1731 ***	0.2560 ***	0.3267 ***	1			
and the second	and the second sec	and the second sec	and the set of the set of the	and the second sec	and the set of the set			

p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01

#### D.1 Simple averages

Under this alternative, the indices are simple averages of their inputs:

$$Index_i = \frac{1}{J} \sum_{j=1}^{J} variable_{ij} \tag{4}$$

Where,  $variable_{ij}$  corresponds to the value of variable j of the J variables that are part of the particular index, for a given business i. The value of each index ranges from 0 to 1.

Table D4 presents the main SEM model estimates using the resulting indices. While coefficients are different (as the domain of the indices differs), qualitative results are the same as those presented in Table 2.

Table D4: Main Results using simple averages

	(1) No controls	(2) Controls
Panel A. Main estimated coefficients		
$\beta_3$ : Personal Initiative $\rightarrow$ Business practices	0.322***	$0.294^{***}$
, - · · ·	(0.042)	(0.039)
$\beta_5$ : Business practices $\rightarrow$ Formal	0.195	0.171
	(0.136)	(0.148)
$\beta_4$ : Difference formal beliefs $\rightarrow$ Formal	$0.213^{***}$	$0.173^{***}$
	(0.017)	(0.018)
$\beta_2$ : Formal $\rightarrow$ Financial Inclusion	0.079	0.049
	(0.071)	(0.101)
Panel B. Paths from $BP$ to $FI$		
$\beta_1 + \beta_2 \cdot \beta_5$ : Business practices $\overrightarrow{Total}$ Financial Inclusion	$0.516^{***}$	$0.459^{***}$
	(0.125)	(0.146)
	[100%]	[100%]
$\beta_1$ : Business practices $\overrightarrow{Direct}$ Financial Inclusion	$0.501^{***}$	$0.451^{***}$
, - · ·	(0.125)	(0.148)
	[97.1%]	[98.2%]
$\beta_2 \cdot \beta_5$ : Business practices $\rightarrow$ Formal $\rightarrow$ Financial Inclusion	0.015	0.008
	(0.017)	(0.019)
	[2.9%]	[1.8%]
Observations	1542	1542
RMSEA	0.143	0.111
SRMR	0.036	0.004
P-value (Chi-square)	0.000	0.000
Comparative Fit Index (CFI)	0.952	0.988
Tucker-Lewis Index (TLI)	0.571	-0.006

Notes: The model, is a estimation of the structural equation model via maximum likelihood using Lavaan package for R. The factors were constructed as simple averages of all the relevant measures. Standard errors in parentheses. Percentage of the total effect in brackets, in Panel B. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

#### D.2 Principal component analysis

Principal components analysis (PCA), is a multivariate technique introduced by Pearson (1901) used to describe the relationship between several response variables and to explain the total variation in the data. PCA uses a few equations constructed from the original variables, which are called components. PCA is very useful when the variables under study are highly correlated (positively or negatively) or when the number of independent variables is large.

The first step in this methodology consists in analyzing the correlation matrix for all variables, which shows those correlations are not particularly high (Tables D1 to D3). This indicates that several principal components will be required to account for the variation in the data.

The second step is to execute the PCA and decide the number of factors to retain per concept. Tables D5 to D8 present four eigenvectors (principal components) and the associated eigenvalues and cumulative variance. For FI, these are all the eigenvectors, for FO these four represent 92% of the total variance. However, for BP only 45,8%; we would need 22 factors out of 30 to get 90%, and for PI is 79.4% (6 factors out of 7 to get 90%). If we consider eigenvectors greater than 1 instead (Kaiser's rule), for FI, FO, and PI two would be retained, and more than four for BP.

Rather than generating several factors based on the PCA, in Appendix E we consider each individual measure of FI and FO directly (not aggregating them in an index), and BP in its specific sections.

Finally, as a comparison with the other exercises where only one factor is constructed per concept, Table D9 presents the main results using the first component for each measure. Once again, the magnitude of coefficients is not directly comparable with those in Table 2, but the qualitative results are the same.

Table D5 Financial Inclusion PCA

	Comp1	Comp2	Comp3	Comp4
Separate Account	.6180278	0952988	.0113874	7802757
Bank Loan	.0573795	.9480146	.3060013	0658715
Family Insurance	.548789	.2208285	7014878	.3974673
Use electronic wallet	.559982	2083774	.6435436	.4783833
Eigenvalue	1.5011	1.0213	.7922	.6853
Cumulative	0.3753	0.6306	0.8287	1.0000

#### Table D6 Formality PCA

	Comp1	Comp2	Comp3	Comp4
Accounting records	.3729988	.47705	4831589	.6262796
Commercial Registry	.5908192	1663817	1508395	2387093
Insured Workers	.2190069	.7399104	.5905858	2332912
Tax registry	.5678718	1484322	1564932	4382625
Operating Permit	.3759816	4186178	.6087062	.5516276
Eigenvalue	2.0526	1.0500	.8236	.7150
Cumulative	0.4105	0.6205	0.7853	0.9283

 ${\bf Table \ D7} \ {\rm Business \ Practices \ PCA}$ 

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					
BP1         .1323776         .3628865         .0102176        4869251           BP2         .1453354         .3572742         .044645        4799822           BP3         .1520983         .2784342         .1500778        0709173           BP4         .1392047         .297759         .222587         .0456015           BP5         .1651439         .167413        0027428         .0275488           BP6         .1757686         .106371        009732         .0244929           BP7         .1495485         .1942835         .1393311         .1551535           BP8         .199424        0414327         .1162962        1282857           BP9         .1664052         .1289929        1500544         .1681628           BP10         .1241117         .2251013         .1747657         .2919771           BP11         .517755         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733         .0196934        1165329		Comp1	Comp2	Comp3	Comp4
BP2         .1453354         .3572742         .044645        4799822           BP3         .1520983         .2784342         .1500778        0709173           BP4         .1392047         .297759         .222587         .0456015           BP5         .1651439         .167413        0027428         .0275488           BP6         .1757686         .106371        009732         .0244929           BP7         .1495485         .1942835         .1393311         .1551535           BP8         .1999424        0414327         .1162962        1282857           BP9         .1664052         .1289929        1500544         .1681628           BP10         .1241117         .2251013         .1747657         .2919771           BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .238716        0990799         .3458688         .222741	BP1	.1323776	.3628865	.0102176	4869251
BP3         .1520983         .2784342         .1500778        0709173           BP4         .1392047         .297759         .222587         .0456015           BP5         .1651439         .167413        0027428         .0275488           BP6         .1757686         .106371        009732         .0244929           BP7         .1495485         .1942835         .1393311         .1551535           BP8         .1999424        0414327         .1162962        1282857           BP9         .1664052         .1289929        1500544         .1681628           BP10         .1241117         .2251013         .1747657         .2919771           BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938         .0028302        0600831           BP14         .2264371        1922733         .0196934        1165329           BP15         .238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397	BP2	.1453354	.3572742	.044645	4799822
BP4         .1392047         .297759         .222587         .0456015           BP5         .1651439         .167413        0027428         .0275488           BP6         .1757686         .106371        009732         .0244929           BP7         .1495485         .1942835         .1393311         .1551535           BP8         .1999424        0414327         .1162962        1282857           BP9         .1664052         .1289929        1500544         .1681628           BP10         .1241117         .2251013         .1747657         .291971           BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0034501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP17         .0887436        0990799         .3458688         .222741	BP3	.1520983	.2784342	.1500778	0709173
$\begin{array}{llllllllllllllllllllllllllllllllllll$	BP4	.1392047	.297759	.222587	.0456015
BP6         .1757686         .106371        009732         .0244929           BP7         .1495485         .1942835         .1393311         .1551535           BP8         .1999424        0414327         .1162962        1282857           BP9         .1664052         .1289929        1500544         .1681628           BP10         .1241117         .2251013         .1747657         .2919771           BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .238714        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP17         .0887436        0990799         .3458688         .222741           BP18         .1175112        1136569         .3090727         .1778896           BP20         .2078919        0599351        1923322         .0334844	BP5	.1651439	.167413	0027428	.0275488
BP7         .1495485         .1942835         .1393311         .1551535           BP8         .1999424        0414327         .1162962        1282857           BP9         .1664052         .1289929        1500544         .1681628           BP10         .1241117         .2251013         .1747657         .2919771           BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .2238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP17         .0887436        0990799         .3458688         .222741           BP18         .1175112        1136569         .3090727         .1778896           BP20         .2078919        059351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725	BP6	.1757686	.106371	009732	.0244929
BP8         .1999424        0414327         .1162962        1282857           BP9         .1664052         .1289929        1500544         .1681628           BP10         .1241117         .2251013         .1747657         .2919771           BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .2238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528 </td <td>BP7</td> <td>.1495485</td> <td>.1942835</td> <td>.1393311</td> <td>.1551535</td>	BP7	.1495485	.1942835	.1393311	.1551535
BP9         .1664052         .1289929        1500544         .1681628           BP10         .1241117         .2251013         .1747657         .2919771           BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .2238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838	BP8	.1999424	0414327	.1162962	1282857
BP10         .1241117         .2251013         .1747657         .2919771           BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        165329           BP15         .2238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP17         .0887436        0990799         .3458688         .222741           BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        059351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838 </td <td>BP9</td> <td>.1664052</td> <td>.1289929</td> <td>1500544</td> <td>.1681628</td>	BP9	.1664052	.1289929	1500544	.1681628
BP11         .1517745         .1809174         .2636844         .2594972           BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .2238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        037937           BP17         .0887436        0990799         .3458688         .222741           BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607     <	BP10	.1241117	.2251013	.1747657	.2919771
BP12         .2387304        1438434         .0394501        0466023           BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .2238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP17         .0887436        0990799         .3458688         .222741           BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        098168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0868488           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        06684488	BP11	.1517745	.1809174	.2636844	.2594972
BP13         .2414022        1843938        0028302        0600831           BP14         .2264371        1922733        0196934        1165329           BP15         .2238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP17         .0887436        0990799         .3458688         .222741           BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199	BP12	.2387304	1438434	.0394501	0466023
$\begin{array}{llllllllllllllllllllllllllllllllllll$	BP13	.2414022	1843938	0028302	0600831
BP15         .2238214        2012311         .0853191        1445619           BP16         .2357759        1671212         .102682        0397397           BP17         .0887436        0990799         .3458688         .222741           BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193         .1536709         .1955486           BP28         .1923925         .1692348         .2514025         .1972178 <td>BP14</td> <td>.2264371</td> <td>1922733</td> <td>0196934</td> <td>1165329</td>	BP14	.2264371	1922733	0196934	1165329
$\begin{array}{llllllllllllllllllllllllllllllllllll$	BP15	.2238214	2012311	.0853191	1445619
BP17         .0887436        0990799         .3458688         .222741           BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        043199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214 <td>BP16</td> <td>.2357759</td> <td>1671212</td> <td>.102682</td> <td>0397397</td>	BP16	.2357759	1671212	.102682	0397397
BP18         .1175112        1136569         .3090727         .1778896           BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244	BP17	.0887436	0990799	.3458688	.222741
BP19         .222573        1170903        0452966        04466           BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP18	.1175112	1136569	.3090727	.1778896
BP20         .2078919        0599351        1923322         .0334844           BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP19	.222573	1170903	0452966	04466
BP21         .1460039        0988168         .1976035         .0774725           BP22         .1681325        0464082        2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP20	.2078919	0599351	1923322	.0334844
BP22         .1681325         .0464082         .2235231         .0082528           BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP21	.1460039	0988168	.1976035	.0774725
BP23         .2344761        1469014        0142535        0818838           BP24         .2171722        0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP22	.1681325	0464082	2235231	.0082528
BP24         .2171722         .0926273         .0970005         .036607           BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP23	.2344761	1469014	0142535	0818838
BP25         .234351        1917674        1147752        0668448           BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP24	.2171722	0926273	.0970005	.036607
BP26         .2280044        1315284        2069802        0433199           BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP25	.234351	1917674	1147752	0668448
BP27         .1852962         .2014193        1536709         .1955486           BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP26	.2280044	1315284	2069802	0433199
BP28         .1923925         .1692348        2514025         .1972178           BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP27	.1852962	.2014193	1536709	.1955486
BP29         .0898277         .1327797        3747694         .2295528           BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP28	.1923925	.1692348	2514025	.1972178
BP30         .086489         .1119015        3381261         .1617214           Eigenvalue         8.1682         2.4221         1.8416         1.3244           Cumulative         0.2723         0.3530         0.4144         0.4586	BP29	.0898277	.1327797	3747694	.2295528
Eigenvalue8.16822.42211.84161.3244Cumulative0.27230.35300.41440.4586	BP30	.086489	.1119015	3381261	.1617214
Cumulative 0.2723 0.3530 0.4144 0.4586	Eigenvalue	8.1682	2.4221	1.8416	1.3244
	Cumulative	0.2723	0.3530	0.4144	0.4586

 ${\bf Table \ D8} \ {\rm Personal \ Initiative \ PCA}$ 

	Comp1	Comp2	Comp3	Comp4
PI1	.3457649	.5778131	.2560615	.2808361
PI2	.3658673	.5644485	.1032182	0615997
PI3	.3989678	.0146333	43586	4826584
PI4	.4219895	2140715	0770025	042738
PI5	.4256914	1884027	2166217	1967557
PI6	.2976476	3939014	.805242	2273013
PI7	.3735372	3329194	1803763	.7695273
Eigenvalue	3.1404	1.0625	.7647	.5951
Cumulative	0.4486	0.6004	0.7097	0.7947

Table	D9:	$\operatorname{Main}$	Results	using	PCA

	(1) No controls	(2) Controls
Panel A. Main estimated coefficients		
$\beta_3$ : Personal Initiative $\rightarrow$ Business practices	$0.295^{***}$	$0.268^{***}$
	(0.040)	(0.037)
$\beta_5$ : Business practices $\rightarrow$ Formal	0.056	0.050
, - <b>*</b>	(0.063)	(0.068)
$\beta_4$ : Difference formal beliefs $\rightarrow$ Formal	1.233***	$1.029^{***}$
	(0.092)	(0.098)
$\beta_2$ : Formal $\rightarrow$ Financial Inclusion	0.098	0.089
	(0.067)	(0.092)
Panel B. Paths from BP to FI		
$\beta_1 + \beta_2 \cdot \beta_5$ : Business practices $\overrightarrow{Total}$ Financial Inclusion	0.226***	0.218***
F1 + F2 + 5 F	(0.057)	(0.067)
	[100%]	[100%]
$\beta_1$ : Business practices $\overrightarrow{Direct}$ Financial Inclusion	0.221***	0.213***
p1. Dusiness practices Direct I manetal metasion	(0.057)	(0.068)
	[97.8%]	[97.7%]
$\beta_2 \cdot \beta_5$ : Business practices $\rightarrow$ Formal $\rightarrow$ Financial Inclusion	0.005	0.004
F2 F0	(0.007)	(0.008)
	[2.2%]	[2.3%]
Observations	1542	1549
BMSEA	0 1/9	0.113
SBMB	0.039	0.004
P-value (Chi-square)	0.000	0.000
Comparative Fit Index (CFI)	0.951	0.989
Tucker-Lewis Index (TLI)	0.560	0.048

Notes: The model, is a estimation of the structural equation model via maximum likelihood using Lavaan package for R. The factors correspond to the first principal component of each set of measures. Standard errors in parentheses. Percentage of the total effect in brackets, in Panel B. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

#### D.3 Confirmatory Factor Analysis

The standardized version of each of these measures is denoted as  $M_i^{m(j)}$ , and is assumed to be part of a set  $\mathcal{M}^j$  that noisily captures information from a factor  $F_i^j$  where  $j \in \{FO, FI, BP, PI\}$  for microbusiness *i*. It is also assumed that the noise  $\phi_i^{m(j)}$ , a classical measurement  $\operatorname{error}^{17}$ , is additively separated from the factor that is loaded into the measure by the parameter  $\varphi^{m(j)}$ . This is presented in Equation 5, where  $v^{m(j)}$  is a measure-specific intercept. Given that the factors are latent variables, identification requires normalization of the location and scale (Anderson and Rubin, 1956; Heckman et al., 2013). One of the factor loadings  $\varphi^{m(j)}$  is set to 1 for each set  $\mathcal{M}^j$  (scale), and the mean of all factors to 0 (location).

$$M_{i}^{m(j)} = v^{m(j)} + \varphi^{m(j)} F_{i}^{j} + \phi_{i}^{m(j)}, \quad m(j) \in \mathcal{M}^{j}, \quad j \in \{FO, FI, BP, PI\}$$
(5)

The estimates of these parameters are presented in Table D10 below. On top of the factor loadings, intercept, and variance of each measure (see equation 5 above, the table also presents two reliability measures: (i) the Cronbach's alpha, and (ii) the average variance extracted (AVE). For the case of FI and FO, both the alpha and the AVE are low. As discussed above, the correlation among measures is not extremely high, so the internal consistency of the resulting factor is not the highest. For the case of BP and PI, the alpha coefficient is above 0.70, which indicates internal validity. Yet, the AVE for both of them is below 0.50, indicating that less than 50% of the variance of the factors is explained with the observed measures. These findings motivate alternative exercises with fewer measures per factor, just as the PCA approach. This is presented in appendix E.

In the results section of the main text, we predict the factors from the measurement system. Here, Figure D1 presents the densities of the predicted factors. Moreover, Figure D2 shows that BP and FI correlation is across the entire domain, and follows a linear pattern over most of it.

 $<sup>^{17}\,</sup>$  Each of them is assumed to be *iid*, normally distributed with mean 0 and sample variance  $\sigma^{m(j)}.$ 



Fig. D2 Non-linear regression BP and FI  $\,$ 



kernel = epanechnikov, degree = 0, bandwidth = .03, pwidth = .05

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 ${\bf Table \ D10} \ {\rm CFA} \ {\rm items} \ {\rm and} \ {\rm estimated} \ {\rm coefficients}$ 

Factor / Measure M	ean	Factor	coefficien	tφ	Other p	arameters
,		Estimate	Std.Err	<b>P-val</b>	Intercept	Error. Var
Financial Inclusion (FI), Alpha=0.378, AVE=0.2	203					
Separate Account		1			-0.077	0.089
Use electronic wallet		-0.035	0.05	0.487	0.183	0.144
Bank Loan		0.602	0.056	< 0.001	0.013	0.118
Family Insurance		0.685	0.058	< 0.001	-0.043	0.088
Formality (FO), Alpha=0.588, AVE=0.285						
Operating Permit		1			0.563	0.157
Accounting records		1.931	0.143	< 0.001	0.401	0.065
Commercial Registry		0.515	0.076	< 0.001	0.175	0.181
Tax registry		1.513	0.113	< 0.001	0.566	0.057
Insured Workers		1.11	0.108	< 0.001	0.336	0.21
Business Practices (BP), Alpha=0.904, AVE=0.2	266					
BP1: Marketing 1		1			0.21	0.213
BP2: Marketing 2		1.116	0.116	< 0.001	0.191	0.207
BP3: Marketing 3		1.192	0.124	< 0.001	0.318	0.216
BP4: Marketing 4		1.04	0.115	< 0.001	0.427	0.213
BP5: Marketing 5		1.39	0.136	< 0.001	0.314	0.202
BP6: Marketing 6		1.505	0.142	< 0.001	0.326	0.19
BP7: Marketing 7		1.116	0.116	< 0.001	0.493	0.186
BP8: Marketing 8		1.709	0.154	< 0.001	0.357	0.158
BP9: Marketing 9		1.407	0.136	< 0.001	0.159	0.194
BP10: Inventory 1		0.94	0.111	< 0.001	0.417	0.223
BP11: Inventory 2		1.136	0.118	< 0.001	0.475	0.19
BP12: Inventory 3		2.106	0.181	< 0.001	0.294	0.121
BP13: Inventory 4		2.233	0.191	< 0.001	0.204	0.125
BP14: Sales and Purchases 1		1.949	0.169	< 0.001	0.368	0.119
BP15: Sales and Purchases 2		1.844	0.16	< 0.001	0.42	0.113
BP16: Sales and Purchases 3		1.995	0.172	< 0.001	0.359	0.115
BP17: Sales and Purchases 4		0.376	0.053	< 0.001	0.864	0.062
BP18: Sales and Purchases 5		0.576	0.066	< 0.001	0.813	0.072
BP19: Sales and Purchases 6		1.997	0.174	< 0.001	0.246	0.148
BP20: Sales and Purchases 7		1.868	0.166	< 0.001	0.116	0.165
BP21: Sales and Purchases 8		0.896	0.091	< 0.001	0.705	0.102
BP22: Sales and Purchases 9		1.528	0.145	< 0.001	0.199	0.194
BP23: Financial planning 1		2.091	0.18	< 0.001	0.289	0.125
BP24: Financial planning 2		1.761	0.155	< 0.001	0.423	0.126
BP25: Financial planning 3		2.143	0.184	< 0.001	0.245	0.129
BP26: Financial planning 4		2.111	0.183	< 0.001	0.095	0.144
BP27: Communications 1		1.549	0.144	< 0.001	0.145	0.186
BP28: Communications 2		1.512	0.139	< 0.001	0.033	0.154
BP29: Communications 3		0.417	0.058	< 0.001	0.015	0.075
BP30: Communications 4		0.401	0.058	< 0.001	0.019	0.077
Personal Initiative (PI), Alpha=0.786, AVE=0.3	58					
Personal initiative 1		1			4.332	0.697
Personal initiative 2		0.949	0.061	< 0.001	4.482	0.521
Personal initiative 3		1.463	0.09	< 0.001	3.988	0.696
Personal initiative 4		1.549	0.093	< 0.001	4.06	0.562
Personal initiative 5		1.497	0.09	< 0.001	4.166	0.487
Personal initiative 6		1.123	0.087	< 0.001	3.846	1.161
Personal initiative 7		1.336	0.087	< 0.001	3.977	0.731

Notes: Coefficients of the measurement system (a confirmatory factor analysis) of the structural model which was jointly estimated via maximum likelihood. It was implemented using lavaan for R. Alpha corresponds to the 'Cronbach's alpha', ad AVE to the 'average variance extracted', which are reliability measures obtained by estimating alone the CFA component. The description of each measure is available in appendix A.

	(1) Bank Account	(2) Bank loan	(3) Family insurance	(4) Electr wallet
Panel A. Main estimated coefficients				
$\beta_3 {:}$ Personal Initiative $\rightarrow$ Business practices	$0.060^{***}$ (0.010)	$0.060^{***}$ (0.010)	$0.060^{***}$ (0.010)	$0.060^{***}$ (0.010)
$\beta_5$ : Business practices $\rightarrow$ Formal	$\begin{array}{c} 0.072\\ (0.179) \end{array}$	$\begin{array}{c} 0.071 \\ (0.179) \end{array}$	$0.071 \\ 0.179$	$0.071 \\ 0.178$
$\beta_4 {:}$ Difference formal beliefs $\rightarrow$ Formal	0.155 *** (0.017)	$\begin{array}{c} 0.155 & *** \\ (0.017) \end{array}$	0.155 *** (0.017)	$\begin{array}{c} 0.155 & *** \\ (0.017) \end{array}$
$\beta_2$ : Formal $\rightarrow$ Financial Inclusion	0.317 (0.199)	-0.122 (0.213)	-0.191 (0.206)	$\begin{array}{c} 0.243\\ (0.181) \end{array}$
Panel B. Paths from $BP$ to $FI$				
$\beta_1+\beta_2\cdot\beta_5 {:}$ Business practices $\overrightarrow{Total}$ Financial Inclusion	$1.256^{***}$ (0.407) [100%]	$\begin{array}{c} 0.477 \\ (0.416) \\ [100\%] \end{array}$	$0.737^{*}$ (0.401) [100%]	$\begin{array}{c} 0.419 \\ (0.348) \\ [100\%] \end{array}$
$\beta_1 {:}$ Business practices $\overrightarrow{Direct}$ Financial Inclusion	$\begin{array}{c} 1.233^{***} \\ (0.411) \\ [98.1\%] \end{array}$	$\begin{array}{c} 0.486 \\ (0.418) \\ [101.8\%] \end{array}$	$0.750^{*}$ (0.406) [101.7%]	0.402 (0.352) [96%]
$\beta_2\cdot\beta_5 {:}$ Business practices $\rightarrow$ Formal $\rightarrow$ Financial Inclusion	$\begin{array}{c} 0.023 \\ (0.058) \\ [1.9\%] \end{array}$	-0.009 (0.026) [-1.8%]	-0.014 (0.037) [-1.7%]	$\begin{array}{c} 0.017 \\ (0.045) \\ [4\%] \end{array}$
Observations RMSEA SRMR P-value (Chi-square) Comparative Fit Index (CFI) Tucker-Lewis Index (TLI)	$1542 \\ 0.059 \\ 0.062 \\ 0.000 \\ 0.596 \\ 0.570$	$ \begin{array}{r} 1542 \\ 0.059 \\ 0.062 \\ 0.000 \\ 0.593 \\ 0.567 \\ \end{array} $	$1542 \\ 0.059 \\ 0.061 \\ 0.000 \\ 0.595 \\ 0.568$	$ \begin{array}{r} 1542 \\ 0.059 \\ 0.061 \\ 0.000 \\ 0.596 \\ 0.569 \\ \end{array} $

Table E11 Econometric results SEM Model with different measures of FI

Notes: The model is a estimation of the structural equation model jointly with the measurement system via maximum likelihood using Lavaan package for R. Standard errors in parentheses. Percentage of the total effect in brackets, in Panel B. \* (p<0.10), \*\* (p<0.05), \*\*\* (p<0.01)

#### E Alternative definition of the items

In this section, we conduct several exercises to determine that our results are maintained when considering different measures of FI, BP, and FO. This follows the results from the measurement system suggesting that more than one factor would be necessary to summarize the total variances of the system.

We ran several additional exercises looking at how results using first, each of the four components of the FI construct and testing how BP affects each component of FI, and second, using four out of the five groups of business practices and testing how each of the BP group affects FI. Results are presented in Table E11) and Table E12). Table E13) presents the effects of BP through the specific formality items.

	(1) Marketing	(2) Inv-Sales	(3) Fin plan - Communi	(4) Sales-purch
Panel A. Main estimated coefficients				
$\beta_3 {:}$ Personal Initiative $\rightarrow$ Business practices	$0.107^{***}$ (0.017)	$\begin{array}{c} 0.097^{***} \\ (0.015) \end{array}$	$0.072^{***}$ (0.015)	$0.083^{***}$ (0.015)
$\beta_5$ : Business practices $\rightarrow$ Formal	$\begin{array}{c} 0.027 \\ (0.093) \end{array}$	$\begin{array}{c} 0.044 \\ (0.110) \end{array}$	$0.049 \\ (0.143)$	0.048 (0.127)
$\beta_4 \text{:}$ Difference formal beliefs $\rightarrow$ Formal	$0.153^{***}$ (0.017)	$0.155^{***}$ (0.017)	$0.154^{***}$ (0.017)	$0.156^{***}$ (0.017)
$\beta_2$ : Formal $\rightarrow$ Financial Inclusion	$0.308^{*}$ (0.168)	$\begin{array}{c} 0.259 \\ (0.165) \end{array}$	$ \begin{array}{c} 0.251 \\ (0.165) \end{array} $	$\begin{array}{c} 0.256\\ (0.165) \end{array}$
Panel B. Paths from $BP$ to $FI$				
$\beta_1 + \beta_2 \cdot \beta_5 \text{:}$ Business practices $\overrightarrow{Total}$ Financial Inclusion	$0.589^{***}$ (0.193) [100%]	$0.649^{***}$ (0.208) [100%]	$0.890^{***}$ (0.297) [100%]	$0.763^{***}$ (0.248) [100%]
$\beta_1 {:}$ Business practices $\overrightarrow{Direct}$ Financial Inclusion	$\begin{array}{c} 0.580^{***} \\ (0.193) \\ [98.5\%] \end{array}$	0.638*** (0.210) [98.3%]	$0.878^{***}$ (0.299) [98.6%]	$\begin{array}{c} 0.751^{***} \\ (0.250) \\ [98.4\%] \end{array}$
$\beta_2\cdot\beta_5 {:}$ Business practices $\rightarrow$ Formal $\rightarrow$ Financial Inclusion	$\begin{array}{c} 0.008 \\ (0.029) \\ [1.5\%] \end{array}$	0.011 (0.029) [1.7%]	$\begin{array}{c} 0.012 \\ (0.037) \\ [1.4\%] \end{array}$	$\begin{array}{c} 0.012 \\ (0.033) \\ [1.6\%] \end{array}$
Observations RMSEA SRMR P-value (Chi-square) Comparative Fit Index (CFI) Tucker-Lewis Index (TLI)	$     1542 \\     0.054 \\     0.045 \\     0.000 \\     0.704 \\     0.643 $	$1542 \\ 0.057 \\ 0.046 \\ 0.000 \\ 0.688 \\ 0.624$	$\begin{array}{c} 1542 \\ 0.056 \\ 0.046 \\ 0.000 \\ 0.699 \\ 0.636 \end{array}$	$1542 \\ 0.057 \\ 0.046 \\ 0.000 \\ 0.688 \\ 0.624$

Table E12 Econometric results SEM Model with different measures of BP

Notes: The model, is a estimation of the structural equation model jointly with the measurement system via maximum likelihood using Lavaan package for R. Standard errors in parentheses. Percentage of the total effect in brackets, in Panel B. \* (p<0.10), \*\* (p<0.05), \*\*\* (p<0.01)

#### **F** Further heterogeneous effects

Here we explore two alternative sets of heterogeneous effects. We consider the age of the entrepreneur as well as economic activity. Results here are suggestive, as the reduction on sample size

With respect to age, we find that our results hold in almost all cases except in the case of older (age 58+) owners (Table F14, columns 1 to 4). In particular, PI is not statistically significant for BP, and MP does not affect BP. This could be explained by young managers paying more attention to personal discovery, emphasizing self-motivation and self-discipline (Birkinshaw et al., 2019). In contrast, older managers are more reflective thinkers and place greater weight on learning from setbacks and knowing their strengths. However, the smaller sample size for the 58+ group might be also behind this finding.

Finally, on dividing the sample by economic activity (Table F14, columns 5 to 8), most relationships are qualitatively the same. For food, bars, and services the BP to FI paths is still positive but insignificant.

	(1)	(2)	(3)	(4)
	Accounting records	Comm registry	Tax registry	Insured workers
Panel A. Main estimated coefficients				
$\beta_3 \text{:}$ Personal Initiative $\rightarrow$ Business practices	$0.060^{***}$	$0.060^{***}$	$0.060^{***}$	$0.060^{***}$
	(0.010)	(0.010)	(0.010)	(0.010)
$\beta_5 \text{:}$ Business practices $\rightarrow$ Formal	-0.146 (0.403)	(0.508) (0.439)	$\begin{array}{c} 0.069\\ (0.335) \end{array}$	$\begin{array}{c} 0.215\\ (0.478) \end{array}$
$\beta_4 {:}\ \mathrm{Difference}\ \mathrm{formal}\ \mathrm{beliefs} \to \mathrm{Formal}$	0.329***	0.062***	0.231***	0.216***
	(0.032)	(0.035)	(0.027)	(0.039)
$\beta_2 {:}$ Formal $\rightarrow$ Financial Inclusion	0.108	0.591	0.155	0.166
	(0.078)	(0.500)	(0.112)	(0.117)
Panel B. Paths from BP to FI				
$\beta_1 + \beta_2 \cdot \beta_5 \text{:}$ Business practices $\overrightarrow{Total}$ Financial Inclusion	$1.066^{***}$	$1.092^{***}$	1.064***	$1.058^{***}$
	(0.343)	(0.349)	(0.343)	(0.342)
	[100%]	[100%]	[100%]	[100%]

**Table E13** Econometric results SEM Model with different measures of FO

$\beta_2$ : Formal $\rightarrow$ Financial Inclusion	0.108	0.591	0.155	0.166
	(0.078)	(0.500)	(0.112)	(0.117)
Panel B. Paths from BP to FI				
$\beta_1+\beta_2\cdot\beta_5;$ Business practices $\overrightarrow{Total}$ Financial Inclusion	$1.066^{***}$ (0.343) [100%]	$1.092^{***}$ (0.349) [100%]	$1.064^{***}$ (0.343) [100%]	$\begin{array}{c} 1.058^{***} \\ (0.342) \\ [100\%] \end{array}$
$\beta_1 :$ Business practices $\overrightarrow{Direct}$ Financial Inclusion	$1.082^{***}$	0.791***	1.053***	1.023***
	(0.347)	(0.484)	(0.348)	(0.341)
	[101.5%]	[72.4%]	[98.9%]	[96.7%]
$\beta_2\cdot\beta_5 {\rm :} \mbox{ Business practices} \to {\rm Formal} \to {\rm Financial Inclusion}$	-0.016 (0.045) [-1.5%]	0.300 (0.369) [27.6%]	$\begin{array}{c} 0.011 \\ (0.052) \\ [1.1\%] \end{array}$	$\begin{array}{c} 0.036 \\ (0.084) \\ [3.3\%] \end{array}$
Observations	$1542 \\ 0.057 \\ 0.054 \\ 0.000$	1542	1542	1542
RMSEA		0.057	0.057	0.057
SRMR		0.055	0.054	0.055
P-value (Chi-square)		0.000	0.000	0.000
Comparative Fit Index (CFI)	0.611	0.607	0.610	0.610
Tucker-Lewis Index (TLI)	0.585	0.580	0.584	0.583

Notes: The model, is a estimation of the structural equation model jointly with the measurement system via maximum likelihood using Lavaan package for R. Standard errors in parentheses. Percentage of the total effect in brackets, in Panel B. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

## ${\bf Table \ F14} \ {\rm Heterogeneous \ effects}$

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(18-30)	(31-42)	(43-58)	(more than 58)	(Store)	(Food, bars)	(Service)	(Other business)
Panel A. Main estimated coefficients								
$\beta_3 {:}$ Personal Initiative $\rightarrow$ Business practices	$\begin{array}{c} 0.060^{***} \\ (0.022) \end{array}$	$\begin{array}{c} 0.050^{***} \\ (0.019) \end{array}$	$\begin{array}{c} 0.081^{***} \\ (0.021) \end{array}$	0.015 (0.014)	$\begin{array}{c} 0.049^{***} \\ (0.017) \end{array}$	0.119*** (0.038)	0.022* (0.012)	0.075*** (0.021)
$\beta_5 \text{:}$ Business practices $\rightarrow$ Formal	$\begin{array}{c} 0.046 \\ (0.401) \end{array}$	-0.018 (0.137)	$\begin{array}{c} 0.074 \\ (0.379) \end{array}$	1.939 (3.915)	-0.084 (0.441)	-0.023 (0.146)	-1.485 (1.331)	(0.319) (0.255)
$\beta_4 \text{:}$ Difference formal beliefs $\rightarrow$ Formal	$\begin{array}{c} 0.055\\ (0.037) \end{array}$	$\begin{array}{c} 0.061^{***} \\ (0.017) \end{array}$	0.279*** (0.039)	0.283*** (0.063)	$\begin{array}{c} 0.200^{***} \\ (0.047) \end{array}$	0.095*** (0.031)	0.139*** (0.036)	0.147*** (0.026)
$\beta_2 \text{: Formal} \to \text{Financial Inclusion}$	$1.896 \\ (1.616)$	$\begin{array}{c} 0.461 \\ (0.915) \end{array}$	-0.015 (0.142)	0.198 (0.140)	-0.305 (0.226)	0.003 (0.605)	0.728 (0.429)	(0.433) (0.310)
Panel B. Paths from BP to FI								
$\beta_1+\beta_2\cdot\beta_5;$ Business practices $\overrightarrow{Total}$ Financial Inclusion	0.987 (0.680) [100%]	1.974** (0.917) [100%]	0.626 (0.447) [100%]	-3.517 (4.420) [100%]	1.481** (0.721) [100%]	0.620 (0.387) [100%]	0.687 (1.541) [100%]	1.092** (0.531) [100%]
$\beta_1:$ Business practices $\overrightarrow{Direct}$ Financial Inclusion	0.899 (1.009) [104.3%]	1.982** (0.921) [94.1%]	0.628 (0.448) [94.1%]	-3.900 (4.572) [94.1%]	1.455** (0.716) [94.1%]	0.620 ( 0.387) [94.1%]	1.767 (1.914) [94.1%]	0.954* (0.541) [94.1%]
$\beta_2\cdot\beta_5 {:}$ Business practices $\rightarrow$ Formal $\rightarrow$ Financial Inclusion	0.088 (0.766) [-4.3%]	-0.008 (0.065) [5.8%]	-0.001 (0.012) [5.8%]	0.383 (0.818) [5.8%]	0.026 (0.135) [5.8%]	-0.000 (0.014) [5.8%]	-1.080 (1.150) [5.8%]	0.138 (0.147) [5.8%]
Observations	317	482	547	196	296	302	356	588
RMSEA	0.058	0.061	0.060	0.070	0.066	0.063	0.061	0.061
SRMR	0.070	0.069	0.066	0.081	0.079	0.076	0.072	0.066
P-value (Chi-square)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Comparative Fit Index (CFI)	0.565	0.553	0.603	0.553	0.538	0.516	0.571	0.576
Tucker-Lewis Index (TLI)	0.538	0.526	0.579	0.526	0.510	0.487	0.544	0.550

Notes: The model, is a estimation of the structural equation model jointly with the measurement system via maximum likelihood using Lavaan package for R. Standard errors in parentheses. Percentage of the total effect in brackets, in Panel B. \* p < 0.00, \*\*\* p < 0.05, \*\*\* p < 0.01