#### Youth Subjective Life Expectancy and Early Labor Market Choices

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#### Disclaimer

"This research uses information from the Chilean Social Protection Survey (Encuesta de Protección Social). I thank the Undersecretary of Social Protection, the intellectual owner of the survey, for the authorization to use the de-identified dataset. All the results from this research are the responsibility of the author and do not implicate the Chilean Undersecretary of Social Protection."

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▶ Impactful decisions are taken much earlier on (Altonji et al. 2016, Arellano-Bover 2020)

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- Q. Does beliefs on life spam play a role more broadly over the life cycle?
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- 1. Combine longitudinal survey and administrative pension data (Chile)
- 2. Document good properties of SLE, even when measured at young ages
- 3. Explore SLE and future labor market outcomes (pension + employment type)
  - Exploring cross-section variation in SLE
  - Using IV strategy to correct for measurement error
  - Explore panel dimension (within-individual variation + revisions)

#### Main Results

▶ SLE predicts future mortality and displays substantial variation (80% unexplained variation)

▶ 10-years higher SLE (0.8std) is associated with 10.7% higher pension wealth (15 years later)

▶ Employment type — working formally, explains the pension wealth gap

Evidence that individuals revise their actions with revisions of SLE.

#### Literature

#### 1. SLE and economic decisions

Hurd, Smith and Zissimopoulos (2004), Bloom, Canning, Moore and Song (2006), O'Donnell, Teppa, Van Doorslaer et al. (2008), Van der Klaauw and Wolpin (2008), Salm (2010), Gan, Gong, Hurd and McFadden (2015), Wu, Stevens and Thorp (2015), Bissonnette, Hurd and Michaud (2017), Heimer, Myrseth and Schoenle (2019), Bresser (2021), O'Dea and Sturrock (2023)

- Early beliefs are strongly associated with labor market choices/pension contributions
- SLE and employment type
- Not relying solely on self-reported outcomes

- 2. Informal labor markets
  - SLE and formal/informal choice

## Institutional Setting and Data

#### Data - Chile

#### Encuesta de Protección Social (EPS)

- ► Panel survey at the individual level
- ▶ 7 waves (2002-2020)
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- Administrative data on the pension system

#### Sample:

- ► All surveyed individuals aged 18–26 in 2004
- ➤ Surveyed at least once after 2009 (81%)
- ⇒ 1,417 individuals

#### Institutional Setting - Pension System

► Individual capitalization accounts — illiquid until retirement

► Normal retirement age is 65 (men) and 60 (women)

► Employees are required to contribute at 10% of their wages monthly

► Non-employees can contribute voluntarily (e.g. self-employed)

#### **Descriptive Statistics**

		Men			Women		
		N Obs	Prop	SLE (mean)	N Obs	Prop	SLE (mean)
Total	-	710	-	75.983	707	-	73.663
Educational level	Primary	68	0.096	72.603	74	0.105	74.149
	High School	382	0.538	76.031	361	0.511	73.022
	Vocational	100	0.141	76.100	109	0.154	73.339
	College	160	0.225	77.231	163	0.231	75.080
Region	MR Santiago	276	0.389	75.967	280	0.396	74.289
	Other	434	0.611	75.993	427	0.604	73.253
Mother education	Less than HS	337	0.491	74.644	354	0.516	72.452
	High School	290	0.423	77.234	269	0.392	74.431
	More than HS	59	0.086	77.458	63	0.092	77.810
Father Education	Less than HS	305	0.457	75.148	321	0.488	72.327
	High School	292	0.437	76.712	272	0.413	74.893
	More than HS	71	0.106	77.620	65	0.099	77.369

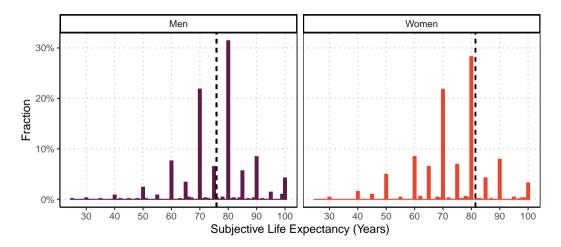
## Life Expectancy

#### Life Expectancy

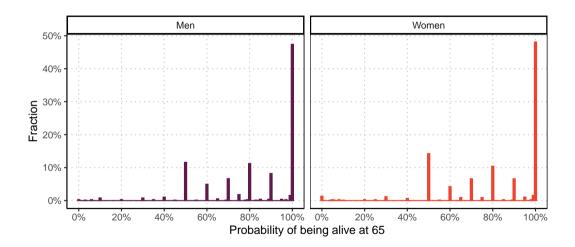
Two questions were asked on life-expectancy

- 1. How long do you think you will live? (Hasta qué edad cree usted que va a vivir?)
- 2. What are the chances you will live until 65? (Cualés son sus posibilidades de vivir hasta los 65 años?)

#### SLE distribution — 1st Question com



#### SLE distribution — 2nd Question on



- ► SLE correlates with: more
  - smoking (-)
  - physical activities (+)
  - self-reported good health (+)
  - diagnosed diseases (-)
  - BMI (-)
  - deceased parents (-)
  - education (+) and parental education (+)

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- Uncorrelated with risk-aversion and numeracy more
- ► For older samples, it predicts mortality more

# **Empirical Strategy**

#### **Empirical Strategy**

$$Y_{it} = \beta SLE_i + \eta_{d(i)} + \nu_{r(i)} + \varphi_{p(i)} + \theta_t + \varepsilon_{it}$$

- $ightharpoonup \eta_{d(i)}$  is the demographic FE, Age-Gender-Educ
- $\triangleright \nu_{r(i)}$  are the fixed effects for region
- $\triangleright \varphi_{p(i)}$  are the fixed effects for parental education

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IV strategy to deal with measurement error

(First Stage) 
$$SLE_i = \alpha P_i^{65} + \eta_{d(i)} + \nu_{r(i)} + \varphi_{p(i)} + \epsilon_{it}$$
  
(Second Stage)  $Y_{it} = \beta_{IV}SLE_i + \eta_{d(i)} + \nu_{r(i)} + \varphi_{p(i)} + \theta_t + \zeta_{it}$ 

#### Interpretation

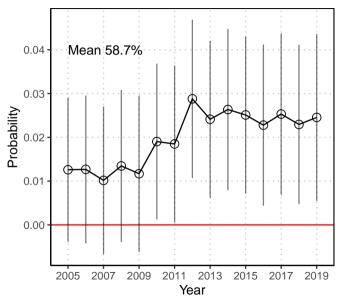
I report the coefficient of 10 years of SLE:

- lacktriangle Moving from 10th to 90th percentile, increase SLE by  $\sim$  **30** years
- ightharpoonup Moving from 25th to 75th percentile, increase SLE by  $\sim$  **10** years
- ightharpoonup One standard deviation is  $\sim$  12 years

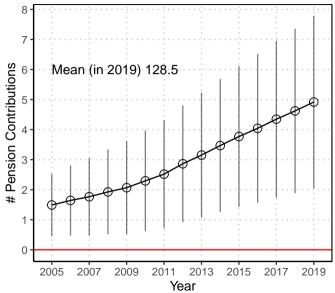
### Life Expectancy and Future Labor Market

Outcomes

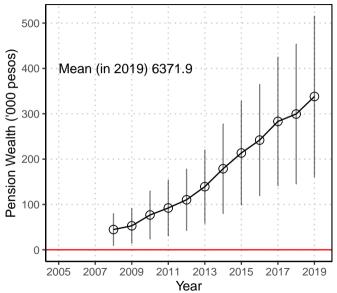
#### Probability of Making Pension Contributions



#### # of Pension Contributions



#### Pension Wealth





All			Men	Women
Mean	OLS	IV		
(1)	(2)	(3)		

#### Panel A. # Pension Contributions (stock) in Dec2019

SLE	128.478	4.917 (1.461)	7.860 (3.136
# Obs		1417	1408
# Individuals		1417	1408

#### Panel B. Pension Wealth ('000 pesos) in Dec2019

SLE	6371.9	362.5 (101.2)	685.5 (224.1)
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# SLE and Pension (V 1st stage)

		All			Men			Women	
	Mean	OLS	IV	Mean	OLS	IV	Mean	OLS	IV
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Panel A. # Pe	nsion Con	tributions	(stock) in	Dec2019					
SLE	128.478	4.917 (1.461)	7.860 (3.136)	144.239	7.306 (2.060)	9.581 (4.920)	112.778	2.649 (2.011)	6.583 (4.036)
# Obs # Individuals		1417 1417	1408 1408		710 710	706 706		707 707	702 702
Panel B. Pens	ion Wealtl	า ('000 pe	sos) in De	c2019					
SLE	6371.9	362.5 (101.2)	685.5 (224.1)	7500.8	511.4 (157.8)	927.0 (389.7)	5247.4	202.7 (128.1)	488.7 (266.1)
# Obs # Individuals		1417 1417	1408 1408		710 710	706 706		707 707	702 702

# SLE and Labor Market (V 1st stage)

		All			Men			Women	
	Mean	OLS	IV	Mean	OLS	IV	Mean	OLS	IV
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Panel C. Labo	r Force	Participati	on						
SLE	0.834	0.006 (0.006)	0.016 (0.014)	0.935	0.009 (0.006)	0.026 (0.018)	0.744	0.002 (0.010)	0.008 (0.019)
# Obs # Individuals		41,004 1417	40,765 1408		19,498 710	19,384 706		21,506 707	21,381 702
Panel D. Form	al Secto	r							
SLE	0.566	0.015 (0.008)	0.042 (0.019)	0.650	0.024 (0.012)	0.074 (0.032)	0.491	0.006 (0.011)	0.022 (0.022)
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	All				Men			Women		
	Mean	OLS	IV	Mean	OLS	IV	Mean	OLS	IV	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
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# Revisions of Subjective Life Expectancy

# Diagnostic of diseases and ex-post Life Expectancy

Outcome: Subj Life Expectancy t+1

Model:	(1)	(2)	(3)
SLE	0.331*** (0.026)	0.330*** (0.026)	0.330*** (0.026)
New Diag G1	-0.909 (1.710)	(0.020)	(0.020)
New Diag G2	, ,	-5.226*** (1.768)	
New Diag G3		( 23)	-2.908** (1.372)
Observations R <sup>2</sup>	2,007 0.178	2,010 0.184	2,010 0.180

- Group 1: Asthma, Diabetes, and Arthritis
- ► Group 2: Hypertension, Heart, Cancer, Kidney, Stroke, and AIDS
- ► Group 3: Depression and Mental Disorders

## Revision

		# Pension Contributions (stock) in Dec2019						
		0	LS			IV		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
SLE in 2004	4.917 (1.461)	3.212 (1.858)	3.463 (1.854)	4.450 (1.871)	7.860 (3.136)	3.476 (4.853)	2.251 (4.415)	
SLE in 2006		2.762 (1.805)				4.594 (5.606)		
SLE in 2009			2.152 (2.089)				12.868 (6.143)	
SLE in 2012				4.011 (2.191)				
Observations	1,417	1,088	1,008	828	1,408	1,080	1,001	

#### Robustness

- ► Within-individual variation
- Sequential Controls
- ► More Controls
- Age range
- ▶ Prob 65 measure
- Non-linear

# Theoretical Framework

# Simple theoretical framework

- ► Two-period model
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  - Bad state, live only that period
  - Good state (living longer) happens with probability  $\pi$ , has a higher weight H > 1

$$\max_{\mathbf{a} \in [0, Y/\tau]} \left\{ u(\mathbf{Y} - \tau \mathbf{a}) + \beta(\pi \mathbf{H} u(\mathbf{a}) + (1 - \pi)u(\mathbf{a})) \right\}$$

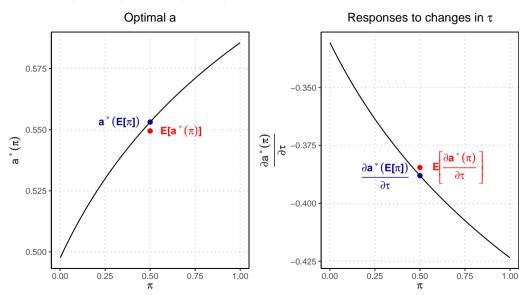
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 $\blacktriangleright$  Living two periods in the good state would be equivalent to setting  $H=1+\beta$ 

# Biases from ignoring heterogeneity on $\pi$



#### Conclusion

- Survival probabilities are an essential ingredient in dynamic problems
- Exploring survey-admin linked data, I show:
  - SLE measured at young ages have good properties
  - SLE is correlated with early labor market decisions
    - Employment type
    - Pension contributions

# Thank you

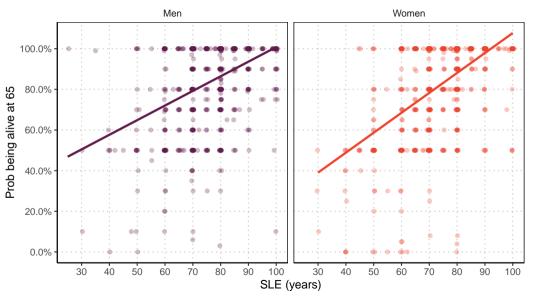
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# Appendix

#### Presentation

- ► Introduction
- Data
- ► SLE measure
- Empirical Stretegy
- ► Main Results
- Panel Results
- ► Theoretical Framework
- Appendix
- ► SLE and risk-aversion
- ► SLE and mortality
- Robustness

# SLE correlation Back



				0	utcome:	SLE			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Smoking		-1.646 (0.669)							-1.350 (0.723)
Regular Physical Activities			1.484 (0.855)						1.844 (0.889)
Good Health				2.776 (1.008)					2.090 (1.061)
Any Diagnosis (Diseases)					-1.560 (1.150)				-0.988 (1.254)
BMI						-0.224 (0.089)			-0.264 (0.095)
Deceased Mother							-1.545 (2.595)		0.258 (2.612)
Deceased Father								-2.169 (1.367)	-1.959 (1.397)
Controls	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓	$\checkmark$	✓
Observations R <sup>2</sup>	1,417 0.163	1,417 0.167	1,416 0.165	1,417 0.168	1,414 0.164	1,416 0.168	1,412 0.163	1,239 0.179	1,231 0.196

# SLE, risk-aversion, and numeracy (Back)

		Outcon	ne: SLE	
	(1)	(2)	(3)	(4)
Risk aversion 25	0.004 (0.008)			
Risk aversion 50		0.006 (0.007)		
Risk aversion 75			0.011 (0.007)	
Numeracy				0.001 (0.003)
Observations R <sup>2</sup>	1,411 0.164	1,410 0.165	1,410 0.166	1,397 0.164

# SLE and mortality Back

		Men		Women		
Outcome:	Registered (1)	Deceased in 2019 (2)	Registered (3)	Deceased in 2019 (4)		
Panel A - Age	d 35-45					
SLE	0.005 (0.003)	-0.013 (0.006)	0.009 (0.005)	0.000 (0.003)		
Observations	1,876	1,823	1,931	1,749		
Mean	0.970	0.043	0.903	0.028		
Panel B - Age	d 45-55					
SLE	0.015 (0.006)	-0.031 (0.009)	0.013 (0.011)	-0.009 (0.005)		
Observations	1,531	1,383	1,574	1,198		
Mean	0.894	0.101	0.757	0.061		

# Missing SLE

Table: Proportion of missing values for SLE

	(1)	(2)
Constant	0.090	0.114
	(0.007)	(0.027)
Women		0.007
Lliede Oele eel		(0.014)
High School		-0.022 (0.027)
Vocational		(0.027) -0.007
vocational		(0.033)
College		-0.071
		(0.028)
	4 557	4 5 5 7
Observations	1,557	1,557

# Missing SLE

Table: Missing SLE and main outcomes

Outcomes	# Pension Contrib (1)	Pension Wealth (2)	LFP (3)	Formal (4)
Panel A. Men				
Missing SLE	-3.496 (9.017)	-593.673 (611.025)	0.006 (0.023)	-0.079 (0.059)
Observations	777	777	21,149	21,149
Panel B. Wom	en			
Missing SLE	3.665 (8.188)	327.677 (494.260)	0.007 (0.042)	0.026 (0.046)
Observations	780	780	23,598	23,598

# IV — first stage Back

	Outcome: SLE						
	All	Men	Women				
	(1)	(2)	(3)				
Prob Living 65	0.245 (0.016)	0.220 (0.023)	0.266 (0.021)				
Observations F-stat	1,408 341.4	706 116.6	702 225.5				

## SLE and risk-aversion

	Outcome: # Pension Contributions (stock) in Dec2019							
		OLS			IV			
	Risk25	Risk50	Risk75	Risk25	Risk50	Risk75		
	(1)	(2)	(3)	(4)	(5)	(6)		
SLE	2.081	2.612	3.184	2.332	1.663	5.836		
	(2.930)	(2.455)	(2.155)	(6.637)	(5.499)	(4.642)		
SLE x Risk Aversion	3.417	3.218	2.590	6.807	8.603	2.849		
	(3.298)	(2.953)	(2.789)	(7.421)	(6.513)	(6.091)		
Observations	1411	1410	1410	1402	1401	1401		

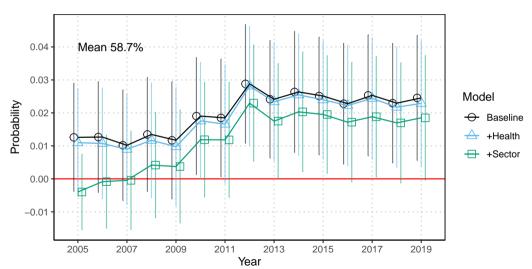
## Within-individual variation

Outcome: # Pension Contributions							
	OLS						
	(1)	(2)					
SLE	0.224	2.121					
	(0.387)	(1.317)					
Observations	2271	2270					

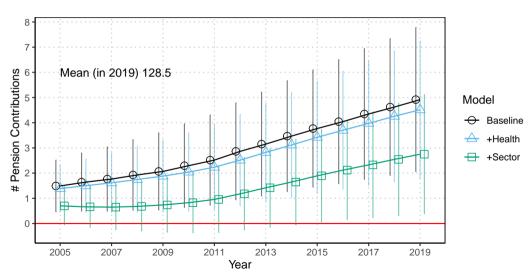
# **Sequential Controls**

	Outcome: # Pension Contributions in December 2019 (stock)								
	(1)	(2)	(3)	(4)	(5)	(6)			
Panel A. Men									
SLE	6.241 (2.201)	7.275 (2.117)	7.293 (2.064)	7.346 (2.060)	7.412 (2.064)	7.306 (2.060)			
Observations R <sup>2</sup>	710 0.012	710 0.111	710 0.179	710 0.199	710 0.213	710 0.216			
Controls	None	+Age	+Age-Educ	+Region	+ Mother Educ	+Father Educ			
Panel B. Wom	en								
SLE	2.621 (2.123)	2.486 (2.136)	2.268 (2.080)	2.324 (2.032)	2.842 (2.026)	2.649 (2.011)			
Observations R <sup>2</sup>	707 0.002	707 0.028	707 0.178	707 0.199	707 0.203	707 0.205			
Controls	None	+Age	+Age-Educ	+Region	+ Mother Educ	+Father Educ			

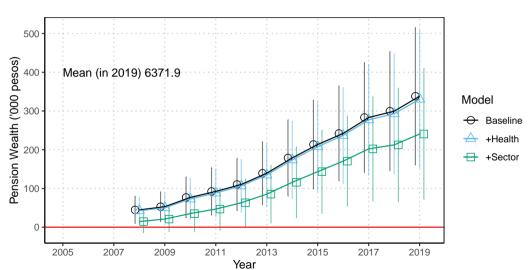
#### Prop of making pension contribution



#### # Pension contributions



#### Pension Wealth ('000 pesos)



All			Men			Men Women				
	Mean	OLS	IV	Mean	OLS	IV	Mean	OLS	IV	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Panel A. # Pension Contributions (stock) in Dec2019										
SLE	128.478	2.857 (1.281)	4.570 (2.775)	144.239	4.390 (1.868)	4.230 (4.656)	112.778	1.590 (1.770)	5.037 (3.411)	
Obs		1415	1406		708	704		707	702	
Pane	l B. Pensio	on Wealth	('000 pes	sos) in Dec	2019					
SLE	6371.9	257.3 (96.9)	539.6 (216.7)	7500.8	335.8 (153.7)	691.8 (392.8)	5247.4	156.6 (124.2)	414.4 (249.0)	
Obs		1415	1406		708	704		707	702	

	All			Men			Women			
	Mean	OLS	IV	Mean	OLS	IV	Mean	OLS	IV	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Panel	Panel C. Labor Force Participation									
SLE	0.834	0.003 (0.006)	0.011 (0.013)	0.935	0.006 (0.006)	0.014 (0.018)	0.744	0.001 (0.010)	0.008 (0.018)	
Obs		40,954	40,715		19,448	19,334		21,506	21,381	
Panel	D. Form	nal Sector								
SLE	0.566	0.008 (0.008)	0.033 (0.018)	0.650	0.016 (0.012)	0.058 (0.033)	0.491	0.001 (0.011)	0.018 (0.021)	
Obs		40,954	40,715		19,448	19,334		21,506	21,381	

# Age Range

	Outco	me: # Per	nsion Cont	ributions	in Decemb	oer 2019 (s	stock)		
Age range	18-26	18-24	18-22	18-28	18-30	20-26	22-26		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)		
Panel A. Men									
SLE	7.306 (2.060)	7.520 (2.405)	7.056 (3.424)	6.512 (1.877)	5.246 (1.802)	7.818 (2.158)	6.250 (2.431)		
Observations	710	517	268	947	1,207	653	543		
Panel B. Wom	en								
SLE	2.649 (2.011)	2.903 (2.285)	2.857 (3.108)	1.820 (1.935)	0.340 (1.841)	2.825 (2.073)	4.221 (2.352)		
Observations	707	486	266	926	1,191	664	533		

## Prob65 measure

		SLE			Prob Age 65						
	All (1)	Men (2)	Women (3)	All (4)	Men (5)	Women (6)					
Pane	Panel A. # Pension Contributions (stock) in Dec2019										
SLE	4.917 (1.461)	7.306 (2.060)	2.649 (2.011)	4.965 (2.188)	5.594 (3.097)	4.279 (3.054)					
Obs	1417	710	707	1527	768	759					
Pane	Panel B. Pension Wealth ('000 pesos) in Dec2019										
SLE	362.508 (101.156)	511.362 (157.831)	202.683 (128.131)	493.554 (154.542)	606.195 (238.283)	376.252 (201.593)					
Obs	1417	710	707	1527	768	759					

## Prob65 measure

		SLE		Prob Age 65							
	All (1)	Men (2)	Women (3)	All (4)	Men (5)	Women (6)					
Pane	Panel C. Labor Force Participation										
SLE	0.006 (0.006)	0.009 (0.006)	0.002 (0.010)	0.010 (0.009)	0.015 (0.010)	0.007 (0.015)					
Obs	41,004	19,498	21,506	43,906	20,861	23,045					
Pane	Panel D. Formal Sector										
SLE	0.015 (0.008)	0.024 (0.012)	0.006 (0.011)	0.029 (0.013)	0.039 (0.019)	0.021 (0.017)					
Obs	41,004	19,498	21,506	43,906	20,861	23,045					

## Non-linear

