References

Equity Premium Puzzle, Expectations and Covid-19: Evidence from Germany

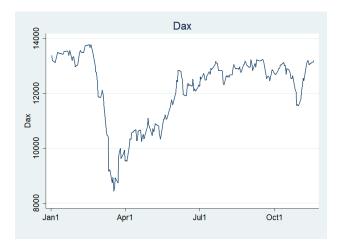
work in progress –

Adrian Monninger¹

¹Johns Hopkins University

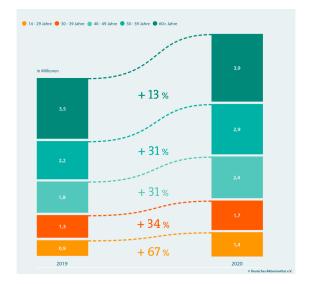
November 14, 2021

Motivation: Stock market turbulence due to Covid-19





Motivation: Change of Equity Holders



This paper

Research Question

- What prevents households from investing?
- What make them invest?
- 4 How are expectations and financial investments connected?

This paper

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Inserting questions in the Bundesbank Online Pilot (BOP) I find that...

This paper

Research Question

- What prevents households from investing?
- What make them invest?
- 4 How are expectations and financial investments connected?

Inserting questions in the Bundesbank Online Pilot (BOP) I find that...

- Participation costs: lack of information and interest
- **Adjustment costs**: risk and time constraint
- **Buyers** invested either because of opportunity or savingsplan.
- Higher house price and inflation expectations reduce the likelihood to invest

Gap in the Literature

- Equity Premium Puzzle: Comparing mechanisms In spirit of ??
- Adjustment Costs and how to overcome them
- ??

- Bundesbank Online Pilot Survey on Consumer Expectations (BOP)
- Online survey of German citizens aged 16 years or older

Data

- Monthly survey with 2,000 households
- Representative sample
- Individuals' expectations and socio-demographic characteristics

Bundesbank Online Panel

- Bundesbank Online Pilot Survey on Consumer Expectations (BOP)
- Online survey of German citizens aged 16 years or older

Data

- Monthly survey with 2,000 households
- Representative sample
- Individuals' expectations and socio-demographic characteristics
- Additional questions on financial asset investments

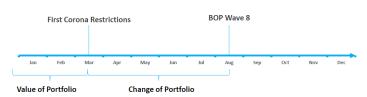
Bundesbank Online Panel

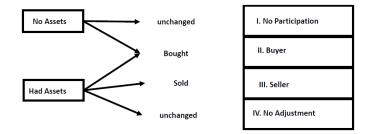
Time Line



Bundesbank Online Panel

Time Line





Bundesbank Online Panel

No Participation	No Adjustment	Bought	Sold
ВОР	BOP	ВОР	ВОР
prices fall	prices fall	prices rise	prices fall
too risky shock distrust	too risky		too risky shock
no savings costs	no savings costs	costs less consumption more income	no savings need for consumption need debt obligations
peer-effect	peer-effect	peer-effect	peer-effect
no time	no time	time	no time
information no interest moral		information savings plan	re-balancing

General Results

		no participation (I)	no adjustment (II)	bought (III)	sold (IV)
Total	%	55.1	23.0	20.0	5.8
	€			5,100	-3,100
Funds	%			69.5	57.3
	€			2,100	-1,900
Bonds	%			51.5	68.4
	€			2,300	0
Stocks	%			8.3	13.2
	€			0	-200
Other	%			17.8	29.3
	€			600	-1,100
n		1,013	513	454	133

General Results

	(1)	(2)	(3)	(4)
	No	No	Has	Has
	Participation	Adjustment	Bought	Sold
college	-0.318***	0.089	0.292***	0.219*
	(0.086)	(0.096)	(0.094)	(0.124)
female	0.287***	0.069	-0.467***	-0.370***
	(0.082)	(0.096)	(0.087)	(0.123)
< 30	-0.052	-0.216	0.360***	0.183
	(0.129)	(0.176)	(0.128)	(0.176)
owner	-0.381***	0.307***	0.240***	-0.116
	(0.086)	(0.101)	(0.092)	(0.134)
fin illiterate	0.457***	-0.218	-0.596***	-0.047
	(0.153)	(0.190)	(0.157)	(0.190)
Observations	2022	2022	2022	2022
Controls	Yes	Yes	Yes	Yes

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General Results

(1) No	(2) No	(3) Has	(4) Has Sold
Participation	Aujustment	Dougnt	3010
-0.236	-0.034	0.402**	0.375*
(0.145)	(0.173)	(0.162)	(0.218)
-0.120	0.014	0.254	0.401
(0.185)	(0.237)	(0.204)	(0.273)
,	,	,	(/
-0.102	0.019	0.132	0.405*
(0.159)	(0.185)	(0.177)	(0.244)
-0.075	-0.086	0.190	0.626**
(0.226)	(0.245)	(0.228)	(0.289)
,	,	,	,
0.420***	-0.279*	-0.568***	0.033
(0.141)	(0.148)	(0.183)	(0.209)
2022	2022	2022	2022
Yes	Yes	Yes	Yes
	Nó Participation -0.236 (0.145) -0.120 (0.185) -0.102 (0.159) -0.075 (0.226) 0.420*** (0.141) 2022	Nó Participation Nó Adjustment -0.236 (0.145) -0.034 (0.173) -0.120 (0.185) 0.014 (0.237) -0.102 (0.159) 0.019 (0.185) -0.075 (0.226) -0.086 (0.245) 0.420*** (0.141) -0.279* (0.141) 2022 2022	Nó Participation Nó Adjustment Has Bought -0.236 (0.145) -0.034 (0.162) 0.402** (0.162) -0.120 (0.145) (0.237) (0.254 (0.204) -0.102 (0.185) (0.237) (0.204) -0.102 (0.159) (0.185) (0.177) -0.075 (0.226) -0.086 (0.245) (0.228) 0.420*** (0.245) -0.279* (0.183) -0.568*** (0.141) (0.141) (0.148) (0.183) 2022 2022

No Participation





No Participation

	Fully agree (I)	At least rather agree (II)	Mean (III)	Standardized (III)
information no interest	50.52% 47.49%	72.80% 69.88%	3.25 3.17	0.58 0.47
distrust	37.99%	63.03%	3.00	0.27
too risky	34.77%	59.35%	2.88	0.17
no time	33.37%	57.89%	2.83	0.09
peer-effect	30.22%	51.31%	2.70	-0.08
no savings	30.32%	53.92%	2.73	-0.12
prices fall	17.52%	51.77%	2.61	-0.15
shock	23.91%	46.28%	2.53	-0.22
costs	19.95%	42.88%	2.44	-0.34
moral	16.27%	32.39%	2.17	-0.70



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Comp 1

Comp 2

Comp 3

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Comp risk aver		Comp 2	Comp 3
too risky	0.42		
	0.42		
shock	0.37		
prices fall	0.35		

Comp 1 risk aversion	Comp 2 lack of resources	Comp 3
too risky 0.42 distrust 0.42 shock 0.37 prices fall 0.35	no interest 0.47 information 0.40 no time 0.40 no savings 0.34 shock -0.33)

Comp risk aver		Comp : lack of reso		Comp lack of sa	
too risky distrust shock prices fall	0.42 0.42 0.37 0.35	no interest information no time no savings shock	0.47 0.40 0.40 0.34 -0.33	no savings moral	0.64

	(1) Risk Aversion	(2) Lack of Resources	(3) Lack of Savings
age	0.006***	-0.009***	-0.002
J	(0.002)	(0.002)	(0.003)
< 1500	-0.073 (0.058)	0.029 (0.064)	0.261*** (0.096)
Observations	811	823	827
Adjusted R^2	0.073	0.103	0.059
Controls	Yes	Yes	Yes





No Participation

Takeaway #1: No Participation

- Lack of information and interest are dominant factors
- Importance of risk increases with age, lack of resources decrease in age, and lack of savings decreases with income

No Adjustment



No Adjustment

	Fully agree (I)	At least rather agree (II)	Mean (III)	Standardized (III)
too risky	20.47%	55.52%	2.53	0.31
no time	17.05%	49.39%	2.38	0.11
prices fall	9.47%	48.62%	2.39	0.09
no savings	18.25%	42.20%	2.30	-0.06
peer-effect	17.24%	36.07%	2.12	-0.19
costs	10.67%	32.40%	2.09	-0.28





No Adjustment: PCA

Comp 1		Comp 2		
bad timing		time constraint		
too risky prices fall costs	0.63 0.58 0.49	no savings peer effect no time	-0.70 0.55 0.45	

No Adjustment

Takeaway #2: No Adjustment

- Risk, time, and prices fall are dominant factors
- 2 Either bad timing or time constraint
- Needs more research

Results 00000000000000000

Buyer



Buyer

	Fully agree (I)	At least rather agree (II)	Mean (III)	Standardized (III)
plan	43.54%	62.07%	2.76	0.92
prices rise	38.74%	64.08%	2.79	0.90
time	8.09%	26.59%	1.77	-0.07
information	7.60%	24.22%	1.70	-0.15
less consumption	3.88%	18.73%	1.58	-0.29
more income	4.33%	19.88%	1.57	-0.31
peer-effect	4.15%	13.87%	1.49	-0.36
bank fees	0.38%	3.52%	1.21	-0.65



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	(1)	(2)
	active	passive
owner	0.565 *** (0.196)	-0.401** (0.192)
< 30	0.624 ** (0.254)	-0.347 (0.261)
first time	0.627 * (0.351)	-0.744** (0.353)
bought & sold	0.669 *** (0.206)	-0.818*** (0.206)

Observations	454	454
Controls	Yes	Yes

Results

00000000000000000

	(1)	(2)
	active	passive
owner	0.565 *** (0.196)	-0.401** (0.192)
< 30	0.624 ** (0.254)	-0.347 (0.261)
first time	0.627 * (0.351)	-0.744** (0.353)
bought & sold	0.669 *** (0.206)	-0.818*** (0.206)
Observations	454	454
Controls	Yes	Yes

	(1)	(2)
	active	passive
time	0.703***	-1.152***
	(0.126)	(0.136)
information	0.206 * (0.121)	-0.899*** (0.128)
less consumption	0.224 (0.170)	-0.820*** (0.167)
more income	0.415 ** (0.172)	-1.120*** (0.157)
costs	0.871 *** (0.270)	-2.069*** (0.301)
peer effect	0.742 *** (0.166)	-1.534*** (0.170)
Observations	431	431
Controls	Yes	Yes

Buyer: By asset type

	(1) Funds	(2) Bonds	(3) Stocks	(4) Other
has Funds				
has Bonds				
has Stocks				
has Other				
first time				
bought & sold				
Observations	454	454	430	454
Controls	Yes	Yes	Yes	Yes

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Buyer: By asset type

	(1) Funds	(2) Bonds	(3) Stocks	(4) Other
has Funds	2.527 *** (0.317)	-0.699** (0.327)	1.219** (0.553)	-0.771* (0.408)
has Bonds	0.063 (0.341)	1.432 *** (0.263)	0.538 (0.399)	0.036 (0.382)
has Stocks	-0.241 (0.380)	0.203 (0.389)	2.192 *** (0.395)	-0.057 (0.490)
has Other	-0.321 (0.329)	0.901*** (0.325)	0.150 (0.427)	2.027 *** (0.349)
first time	0.570 (0.414)	1.098*** (0.379)	0.000	0.900* (0.461)
bought & sold	-0.419* (0.222)	0.452 (0.276)	-0.598* (0.326)	-0.139 (0.316)
Observations Controls	454 Yes	454 Yes	430 Yes	454 Yes

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Buyer: By asset type

	Funds	Bonds	Stocks	Other
value funds	0.108 ** (0.047)	-0.085* (0.051)	-0.127* (0.070)	-0.021 (0.059)
value bonds	-0.143** (0.061)	0.206 *** (0.051)	-0.040 (0.075)	-0.191*** (0.067)
value stocks	0.010 (0.079)	-0.032 (0.079)	0.045 (0.067)	-0.035 (0.104)
value other	-0.088 (0.062)	-0.142** (0.062)	-0.170 (0.112)	0.193 *** (0.071)
Observations	454	454	430	454
Controls	Yes	Yes	Yes	Yes

Buyer

Takeaway #3: Buyer

- Active vs Passive buyers
- Active buyers are younger, richer and respond to additional information, time, income, costs, and peer effects.
- Respondents bought the asset type they already held

House Price Expectations and Buyer

(1)	(2)	(3)	(4)	(5)	(6)
All	Owner	Renter	ΑÍ	Owner	Renter

housing quali

prop quali

rent quali

house price PE

Observations	2019	1263	759	1880	1176	704
Controls	Yes	Yes	Yes	Yes	Yes	Yes

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House Price Expectations and Buyer

(:	1) (2)	(3)	(4)	(5)	(6)
Д	All Own	er Rente	er All	Owner	Renter

housing quali -0.195*** (0.050)

prop quali

rent quali

house price PE

Observations	2019	1263	759	1880	1176	704
Controls	Yes	Yes	Yes	Yes	Yes	Yes



House Price Expectations and Buyer

	(1)	(2)	(3)	(4)	(5)	(6)
	All	Owner	Renter	All	Owner	Renter
housing quali	-0.195*** (0.050)					
prop quali		-0.146*** (0.055)				
rent quali			-0.150* (0.079)			
house price PE						
Observations	2019	1263	759	1880	1176	704
Controls	Yes	Yes	Yes	Yes	Yes	Yes

House Price Expectations and Buyer

	(1)	(2)	(3)	(4)	(5)	(6)
	All	Owner	Renter	All	Owner	Renter
housing quali	-0.195*** (0.050)					
prop quali		-0.146*** (0.055)				
rent quali			-0.150* (0.079)			
house price PE				-0.026*** (0.008)	-0.011 (0.010)	-0.049*** (0.014)
Observations	2019	1263	759	1880	1176	704
Controls	Yes	Yes	Yes	Yes	Yes	Yes

Inflation Expectations and Buyer

(1) (2) (3) (4) (5) (6) (7) (8)

inflation quali

inflation PE

fin illiterate: inflation > |30|

fin illiterate: inflation > |10|

 $0 < \mathsf{inflation} < 10$

0 < inflation < 5

inflation prob exp

inflation prob std

Observations	2018	1883	1883	1883	1827	1663	1720	1720
Controls	Yes							

Conditional on Stockholdings interest rate vs inverted PC

Inflation Expectations and Buyer

(1) (2) (3) (4) (5) (6) (7) (8)

inflation quali -0.235*** (0.073)

inflation PE

fin illiterate: inflation > |30|

fin illiterate: inflation > |10|

 $0 < \mathsf{inflation} < 10$

0 < inflation < 5

inflation prob exp

inflation prob std

Observations 1883 1883 1883 1827 1663 1720 1720 Controls Yes Yes Yes Yes Yes Yes Yes Yes

Conditional on Stockholdings Tinterest rate vs inverted PC

Results

Inflation Expectations and Buyer

(4) (6) (8)

-0.235*** inflation quali (0.073)

inflation PE -0.098***

(0.019)

fin illiterate: inflation > |30|

fin illiterate: inflation > |10|

0 < inflation < 10

0 < inflation < 5

inflation prob exp

inflation prob std

Observations	2018	1883	1883	1883	1827	1663	1720	1720
Controls	Yes							

Conditional on Stockholdings interest rate vs inverted PC

Results

Inflation Expectations and Buyer

(4) (6) (8)

-0.235*** inflation quali (0.073)

inflation PE -0.098*** -0.097*** -0.093*** (0.019)(0.018)(0.020)

fin illiterate: -0.366inflation > |30| (0.227)

fin illiterate: -0.183inflation > |10|(0.214)

0 < inflation < 10

0 < inflation < 5

inflation prob exp

inflation prob std

Observations 2018 1883 1883 1883 1827 1663 1720 1720 Yes Yes Yes Yes Yes Yes Yes Yes Controls

Inflation Expectations and Buyer

(4) (6) (8) inflation quali -0.235*** (0.073)inflation PE -0.098*** -0.097*** -0.093*** (0.019)(0.018)(0.020)fin illiterate: -0.366inflation > |30| (0.227)fin illiterate: -0.183inflation > |10|(0.214)0 < inflation < 10-0.116*** (0.025)0 < inflation < 5-0.141*** (0.034)inflation prob exp inflation prob std Observations 2018 1883 1883 1883 1827 1663 1720 1720 Yes Yes Yes Yes Yes Yes Yes Yes Controls

Conditional on Stockholdings igwedge interest rate vs inverted PC igwedge

Inflation Expectations and Buyer

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
inflation quali	-0.235*** (0.073)							
inflation PE		-0.098*** (0.019)	-0.097*** (0.018)	-0.093*** (0.020)				
$\begin{array}{l} \text{fin illiterate:} \\ \text{inflation} > 30 \end{array}$			-0.366 (0.227)					
$\begin{array}{l} \text{fin illiterate:} \\ \text{inflation} > 10 \end{array}$				-0.183 (0.214)				
0 < inflation < 10					-0.116*** (0.025)			
0 < inflation < 5						-0.141*** (0.034)		
inflation prob exp							-0.049*** (0.017)	-0.088*** (0.019)
inflation prob std								-0.564*** (0.191)
Observations Controls	2018 Yes	1883 Yes	1883 Yes	1883 Yes	1827 Yes	1663 Yes	1720 Yes	1720 Yes

Conditional on Stockholdings interest rate vs inverted PC

Expectations and Buyer

Takeaway #4: Expectations

- Higher houseprice expectations crowds out financial asset investments
- 2 Higher inflation expectations reduces probability to buy

Conclusion

This paper asks households about their financial investment behavior during the covid-19 pandemic and finds:

- Participation costs: lack of information and interest
- Adjustment costs: risk and time constraint
- Buyers invested either because of opportunity or savingsplan.
- Higher house price and inflation expectations reduce the likelihood to invest

THANKS for your attention

I am grateful for comments and suggestions amonnin1@jhu.edu

Seller

	Fully agree (I)	At least rather agree (II)	Mean (III)	Standardized (III)
prices fall	12.46%	40.94%	2.29	0.84
re-balancing	23.93%	44.36%	2.25	0.71
shock	6.83%	26.54%	1.79	0.15
too risky	6.96%	23.06%	1.72	0.06
need consumption	6.84%	17.60%	1.55	-0.17
need debt obligations	5.94%	13.38%	1.43	-0.31
no time	4.02%	11.68%	1.38	-0.35
peer-effect	0.25%	10.79%	1.34	-0.39
need support friends/family	1.60%	6.79%	1.23	-0.54



Seller

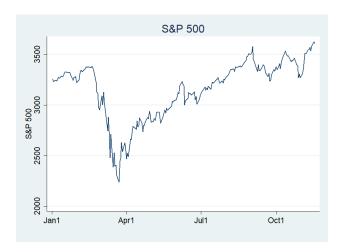
Comp Crisis		Comp 2 Lack of Resource	Comp 2 Lack of Resources		Comp 3 Social Component		1 ing
too risky	0.59	need debt obligations	0.66	peer effect need support	0.75	rebalancing	0.94
shock	0.56	need consumption	0.65	friends and	0.56		
		·		family			
no time	0.44						
prices fall	0.34						

Seller

Takeaway #5: Seller

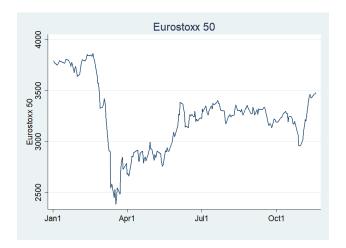
- prices fall and re-balancing seem to be most important
- Shock and riskiness drives some households out

Motivation (2): Stock market turbulence due to Covid-19





Motivation (2): Stock market turbulence due to Covid-19





BOP Questions (1)

816A	PRO A1	Stock market 1	has_portfolio_[a-d]

Info box with the following text:

- A) A fund is a "basket" of many, sometimes very different, securities. A fund share denotes a share in this basket and its income. In some cases, the fund finances only individual projects, such as real estate, ship building or films. Examples of common types of funds are share-based funds, bond-based funds, money market funds, funds of funds, hedge funds, exchange-traded funds (ETFs), shipping funds and media funds.
- B) Fixed income securities are assets which entitle the bearer to a predetermined rate of interest. Depending on who issued these securities, they could be government bonds (such as Federal bonds, Federal savings notes, Federal Treasury financing paper, Federal Treasury notes, municipal bonds, Pfandbriefe issued by central, state or local government), corporate bonds or other debt securities (e.g. bank bonds).
- C) A listed share is a security that is traded on the stock exchange which shows the shareholder (comer of the security) as being a co-cowner of a public limited company. This type of security therefore usually entitles the bearer to a share of the company's income. The share constitutes a certificate which securities a share in the capital of a public limited company.

QUESTION: Prior to the coronavirus pandemic, did you hold the following financial assets directly

in your safe custody account?

- 1 = Yes
- 2 = No
- a) Fund shares
- b) Fixed income securities (such as government bonds, corporate bonds and bank bonds)
 - c) Listed shares
- d) Other financial products (such as foreign exchange, gold, cryptocurrency)



BOP Questions (2)

			value_portfolio_[a-d]
Input fil	ter: if has_p	ortfolio_a == 1 OR has_portfolio_	b = 1 OR has_portfolio_c
1 OD N		a 1	

1 OR has portfolio d == 1 Info box with the following text:

A) A fund is a "basket" of many, sometimes very different, securities. A fund share denotes a share in this basket and its income. In some cases, the fund finances only individual projects, such as real estate, ship building or films. Examples of common types of funds are share-based funds, bond-based funds, money market funds, funds of funds, hedge funds, exchange-traded funds (ETFs), shipping funds and media funds.

B) Fixed income securities are assets which entitle the hearer to a predetermined rate of interest. Depending on who issued these securities, they could be government bonds (such as Federal bonds, Federal savings notes, Federal Treasury financing paper, Federal Treasury notes, municipal bonds, Pfandbriefe issued by central, state or local government), corporate bonds or other debt securities (e.g. bank bonds).

C) A listed share is a security that is traded on the stock exchange which shows the shareholder (owner of the security) as being a co-owner of a public limited company. This type of security therefore usually entitles the bearer to a share of the company's income. The share constitutes a certificate which securitises a share in the capital of a public limited company.

QUESTION: What is your rough estimate of the market value of your financial assets prior to the coronavirus pandemic?

- a Fundshares (only show item if portfolio a =1)
- b Fixed income securities (such as government bonds, corporate bonds and bank bonds) [only show item
- c Listed shares [only show item if portfolio c =1]
- d Other financial products (such as foreign exchange, gold, cryptocurrency) [only show item if portfolio_d =1]

Show brackets:

- 1 = £1 to less than £500
- 2 = 6500 to less than 61 000
- 3 = €1.000 to less than €3.000
- 4 = €3.000 to less than €5.000
- 5 = €5.000 to less than €10.000
- 6 = €10.000 to less than €20.000
- 7 = €20,000 to less than €30,000
- 8 = €30,000 to less than €50,000
- 9 = €50,000 or more



BOP Questions (3)

817A	PRO A1	Stock market 2 – chang	ge	portfolio_bought_[a-d]				
				portfoli	o_sold_[a-d]			
				portfoli	o_unchanged_[a-d]			
QUESTI	QUESTION: Have you bought or sold the following financial assets since the start of the							
corona	virus pandemic?							
		1 - Bought	2 – Sold		3 – Neither bought			
					norsold			
a)	Fund shares							
b)	Fixed income							
	securities							
c)	Listed shares							
d)	Other financial							
	products (such as							
	foreign exchange,							
	gold,							
	cryptocurrency)							



BOP Questions (4)

817B	PRO A1	Stock market 2 – value	portfolio_value_bought_[a-d]
			portfolio_value_sold_[a-d]

Input filter: if portfolio_unchanged_a == 2 OR portfolio_unchanged_b == 2 OR
portfolio_unchanged_c == 2 OR portfolio_unchanged_d == 2

QUESTION: Please indicate the amount for which you have bought or sold financial assets $\underline{\text{since}}$

the start of the coronavirus pandemic.

	start of the coronavirus partienic.							
		1 - Bought	2 – Sold					
a)	Fundshares [only show item if portfolio_bought_a =1 OR	_euro	_euro					
	<pre>portfolio_sold_a = 1)</pre>							
b)	Fixed income securities (only show item if portfolio_bought_b =1 OR	_euro	_euro					
	portfolio_sold_b = 1)							
c)	Listed shares [only show item if	_euro	_euro					
	portfolio_bought_c =1 OR							
	portfolio_sold_c = 1)							
d)	Other financial products (such as foreign exchange,	_euro	_euro					
	<pre>gold, cryptocurrency) [only show item if</pre>							
	portfolio_bought_d =1 OR							
	<pre>portfolio_sold_d = 1)</pre>							



BOP Questions (5)

818A	PRO A1	Stock market 3a	portfolio_reason_bought[a-h]
Input fil	ter: if portfo	olio bought a == 1 OR portfolio b	ought b == 1 OR

portfolio bought c == 1 OR portfolio bought d == 1

Order of the categories a to h is generated randomly for each respondent.

QUESTION: Why did you decide to buy the asset(s) after the coronavirus pandemic began?

- 1 = Strongly agree
- 2 = Mostly agree
- 3 = Mostly disagree
- 4 = Strongly disagree

- a The prices are/were low at the time.
- b I (finally) found time for it.
- I received additional information (e.g. from your bank, social media, television).
- d Since my consumption expenditure has fallen, I have money to invest.
- Since my income has risen, I have money to invest.
- f My bank has (temporarily) lowered its safe custody account costs.
- g People in my circle of (close) family and friends have also bought assets.
- h I have a fixed savings plan.



BOP Questions (6)

818B	PRO A1 Stock market 3b		portfolio_reason_sold[a-i]
-	-	olio_sold_a == 1 OR portfolio_sol OR portfolio_sold_d == 1	d_b == 1 OR
Order of	the categorie	s a to i is generated randomly fo	r each respondent.

QUESTION: Why did you decide to sell the asset(s) after the coronavirus pandemic began?

- 1 = Strongly agree
- 2 = Mostly agree
- 3 = Mostly disagree
- 4 = Strongly disagree

- a Prices will fall again or fall lower.
- b I have no time for it (anymore).
- The recent collapse in financial market prices put me off.
- d Financial assets are too risky for me at the moment.
- e I needed the money to pay my bills.
- f I needed the money to support friends and relatives.
- g I needed the money for other consumption expenditure.
- h People in my circle of (close) family and friends have also sold assets.



BOP Questions (7)

818C	PRO A1	Stock market 3c	portfolio_reason_nostocks[a-
			k]

Input filter: if has portfolio_a==2 AND has portfolio_b==2 AND has portfolio_c==2
AND has portfolio d==2 AND portfolio unchanged d == 1 AND portfolio uncha

QUESTION: Why did you decide not to buy any asset(s) during the coronavirus pandemic?

- 1 = Strongly agree
- 2 = Mostly agree
- 3 = Mostly disagree
- 4 = Strongly disagree

- Prices will fall again or fall lower.
- b I have no time for it (anymore).
- c I do not know enough about the financial market or how to buy assets.
- The recent collapse in financial market prices puts me off.
- e Financial assets are too risky for me at the moment.
- f I have no money to save.
- g The costs of safe custody accounts and transactions are too high for me.
- No one in my circle of (close) family and friends holds assets.
- I do not trust the stock market
- I have moral concerns.
- I have no interest in it.



BOP Questions (8)

back

818D	8D PRO A1 Stock market 3d		portfolio_reason_unchange[a-		
			fJ		
Input filter: if (has_portfolio_a=1 OR has_portfolio_b==1 OR has_portfolio_c=1					
OR has_po	rtfolio_d==1)	AND (portfolio_unchanged_a == 1	AND portfolio_unchanged_b		
== 1 AND	portfolio uno	hanged c == 1 AND portfolio uncha	inged d == 1)		

QUESTION: Why did you decide not to buy any more assets during the coronavirus pandemic?

- 1 = Strongly agree
- 2 = Mostly agree
- 3 = Mostly disagree
- 4 = Strongly disagree

- Prices will fall again or fall lower.
- b I have no time for it (anymore).
- c Financial assets are too risky for me at the moment.
- d I have no money to save.
- e The transaction costs are too high for me.
- f People in my circle of (close) family and friends have not bought assets either.

	(1) Risk	(2) Lack of	(3) No
	Aversion	Resources	Savings
< 1500	-0.073	0.029	0.261***
	(0.058)	(0.064)	(0.096)
Age	0.006***	-0.009***	-0.002
	(0.002)	(0.002)	(0.003)
Observations	811	823	827
Adjusted R^2	0.073	0.103	0.059
Controls	Yes	Yes	Yes

	(1)	(2)	(3)
	Risk	Lack of	Lack of
	Aversion	Resources	Savings
college	-0.034	0.060	-0.053
	(0.049)	(0.048)	(0.070)
female	-0.034	0.089*	-0.049
	(0.044)	(0.046)	(0.063)
children	-0.046	0.086	0.090
	(0.058)	(0.056)	(0.078)
owner	0.057	-0.033	-0.103
	(0.046)	(0.047)	(0.063)
fin illiterate	-0.025	0.007	-0.080
	(0.078)	(0.060)	(0.088)
part-time	-0.052	0.034	-0.201
	(0.078)	(0.086)	(0.126)
retired	-0.025	0.071	-0.223
	(0.092)	(0.104)	(0.138)
self-employed	0.076	-0.052	-0.296
	(0.110)	(0.138)	(0.201)
kurzarbeit	0.081	-0.021	-0.049
	(0.109)	(0.110)	(0.154)
age	0.006***	-0.009***	-0.002
	(0.002)	(0.002)	(0.003)
< 1500	-0.073 (0.058)	0.029 (0.064)	0.261*** (0.096)
Observations	811	823	827
Adjusted R ²	0.073	0.103	0.059

	(1)	(2)	(3)	(4)	(5)	(6)
	too risky	no time	prices fall	no savings	peer effect	costs
college	-0.061	0.334**	-0.151	0.037	-0.182	0.025
	(0.116)	(0.148)	(0.114)	(0.149)	(0.123)	(0.101)
part-time	0.128	0.033	-0.535*	0.194	0.123	0.040
	(0.222)	(0.257)	(0.273)	(0.389)	(0.281)	(0.181)
retired	0.107	-0.142	-0.415*	-0.365	0.673**	0.125
	(0.240)	(0.274)	(0.217)	(0.322)	(0.264)	(0.184)
self-employed	-0.242	0.076	-0.652***	0.438	0.139	0.230
	(0.250)	(0.338)	(0.226)	(0.344)	(0.266)	(0.349)
female	-0.001	0.084	-0.116	-0.148	0.038	0.142
	(0.104)	(0.138)	(0.137)	(0.145)	(0.139)	(0.097)
kurzarbeit	-0.106	-0.148	-0.542***	0.051	0.468	0.262
	(0.255)	(0.265)	(0.165)	(0.242)	(0.323)	(0.334)
children	0.119	0.179	-0.244*	0.196	-0.175	-0.073
	(0.150)	(0.184)	(0.129)	(0.206)	(0.173)	(0.129)
1500-3000	-0.240	0.161	0.259	-0.714***	0.175	0.379*
	(0.189)	(0.274)	(0.202)	(0.270)	(0.245)	(0.199)
3000-5000	0.026	0.021	0.183	-0.862***	0.353	0.304
	(0.186)	(0.272)	(0.237)	(0.285)	(0.244)	(0.198)
5000-8000	-0.355	0.220	0.274	-0.728**	0.508*	0.098
	(0.225)	(0.318)	(0.261)	(0.319)	(0.260)	(0.207)
+0008	0.358	0.598*	0.031	-1.364***	0.169	0.213
	(0.264)	(0.323)	(0.269)	(0.385)	(0.319)	(0.285)
owner	-0.029	-0.088	0.324*	-0.211	-0.166	0.167*
	(0.117)	(0.136)	(0.170)	(0.158)	(0.136)	(0.100)
age	0.006	-0.009*	0.004	0.015**	-0.019***	0.004
	(0.005)	(0.006)	(0.005)	(0.007)	(0.007)	(0.004)
fin illiterate	0.292*	0.303*	0.209	-0.944***	0.406*	-0.255**
	(0.164)	(0.167)	(0.205)	(0.324)	(0.241)	(0.117)
Observations	440	441	436	439	432	437
Adjusted R ²	0.038	0.124	0.097	0.112	0.073	0.046

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	low valuation	plan	time	information	less consumption	more income	peer effec
college	-0.067	0.100	-0.164	-0.060	0.042	-0.052	0.196**
	(0.121)	(0.150)	(0.102)	(0.110)	(0.084)	(0.086)	(0.089)
1500-3000	-0.801**	0.695*	0.092	-0.073	0.503***	0.174	-0.590*
	(0.316)	(0.376)	(0.267)	(0.377)	(0.161)	(0.283)	(0.346)
3000-5000	-0.594*	0.903**	0.142	-0.126	0.357**	-0.094	-0.534
	(0.329)	(0.403)	(0.272)	(0.376)	(0.149)	(0.270)	(0.345)
5000-8000	-0.264	0.531	0.127	-0.245	0.335*	0.093	-0.480
	(0.327)	(0.402)	(0.286)	(0.374)	(0.171)	(0.276)	(0.347)
+0008	-0.214	0.276	-0.139	-0.323	0.392*	0.110	0.093
	(0.359)	(0.431)	(0.286)	(0.419)	(0.208)	(0.305)	(0.374)
< 30	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	(.)	(.)	(.)	(.)	(.)	(.)	(.)
31-40	-0.191	0.323	-0.493***	0.146	0.028	0.258	-0.340**
	(0.213)	(0.249)	(0.168)	(0.231)	(0.162)	(0.171)	(0.145)
41-50	-0.236	0.650***	-0.355*	-0.135	0.021	0.111	-0.475**
	(0.164)	(0.244)	(0.190)	(0.175)	(0.134)	(0.142)	(0.138)
51-60	-0.523***	0.463*	-0.282	0.140	-0.035	0.161	-0.379**
	(0.194)	(0.275)	(0.206)	(0.207)	(0.138)	(0.156)	(0.140)
60+	-0.499*	0.544*	-0.264	0.440*	-0.223	-0.039	-0.434**
	(0.270)	(0.288)	(0.243)	(0.230)	(0.186)	(0.152)	(0.175)
first time	0.195	-0.868***	0.688***	0.045	-0.266***	0.382*	-0.070
	(0.202)	(0.271)	(0.185)	(0.236)	(0.102)	(0.223)	(0.251)
bought & sold	0.518***	-0.957***	0.217	0.461***	-0.165*	-0.017	0.013
	(0.131)	(0.175)	(0.132)	(0.172)	(0.092)	(0.094)	(0.100)
Observations	435	438	438	437	438	438	434
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes

	(1)	(2)	(3)	(4)
		Lack of	Sòcial	
	Crisis	Resources	Component	Rebalancing
college	0.108	-0.459**	0.183*	0.121
	(0.097)	(0.179)	(0.092)	(0.267)
kurzarbeit	-0.339*	0.184	0.637***	-0.285
	(0.185)	(0.683)	(0.223)	(0.978)
bought & sold	-0.258**	-0.253	0.122	1.295***
	(0.104)	(0.200)	(0.101)	(0.299)
Observations	120	120	120	120
Adjusted R ²	0.167	0.088	0.138	0.184
Controls	Yes	Yes	Yes	Yes

House Price Expectations and Buyer

	(1)	(2)	(3)	(4)	(5)	(6)
			. ,	` '	. ,	
	All	Owner	Renter	All	Owner	Renter
housing quali	-0.196*** (0.068)					
prop quali		-0.132*				
prop quan		(0.068)				
		(0.000)				
rent quali			-0.119			
, q			(0.112)			
			(0.112)			
house price wins				-0.029***	0.000	-0.083***
				(0.011)	(0.013)	(0.020)
Observations	1010	716	294	952	677	275
Controls	Yes	Yes	Yes	Yes	Yes	Yes



Inflation Expectations and Buyer

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(1)	(2)	(3)	(+)	(3)	(0)	(1)	(0)
inflation quali	-0.260*** (0.100)							
inflation PE wins		-0.092*** (0.022)	-0.092*** (0.022)	-0.084*** (0.026)				
$\begin{array}{l} \text{fin illiterate:} \\ \text{inflation} > 30 \end{array}$			-0.050 (0.335)					
$\begin{array}{l} \text{fin illiterate:} \\ \text{inflation} > 10 \end{array}$				-0.274 (0.388)				
0 < inflation < 10					-0.119*** (0.030)			
0 < inflation < 5						-0.145*** (0.047)		
inflation prob exp							-0.081*** (0.021)	-0.104*** (0.027)
inflation prob sd								-0.376 (0.257)
Observations Controls	1008 Yes	968 Yes	968 Yes	968 Yes	952 Yes	885 Yes	896 Yes	896 Yes



Inflation Expectations and Buyer

	(1)	(2)	(3)	(4)
	inflation	inflation	inflation	Bought
pess economy	0.280***		0.279***	-0.003
	(0.070)		(0.071)	(0.022)
inc interest rates		0.452**	0.451**	-0.103*
		(0.221)	(0.216)	(0.060)
inflation PE wins				-0.098***
				(0.019)
Observations	1883	1881	1881	1881
Controls	Yes	Yes	Yes	Yes

