INFLATION EXPECTATIONS AND FIRMS' DECISIONS IN HIGH INFLATION: EVIDENCE FROM A RANDOMIZED CONTROL TRIAL

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Outline

1 Introduction and Research Questions

2 Methodology and Empirical Setting

3 Causal Impact on Firms' Decisions and Expectations

- Firms' Wage, Price and Economic Outlook Expectations
- Borrowing Behavior
- Real Outcome (employment, sales, inventory)



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4 Conclusion

Why Do Central Banks Need Firms' Inflation Expectations?

• Firms' are price and wage-setters

Ben Bernanke (2007): "... Information on the price expectations of businesses-who are, after all, the price setters in the first instance-... is particularly scarce.""

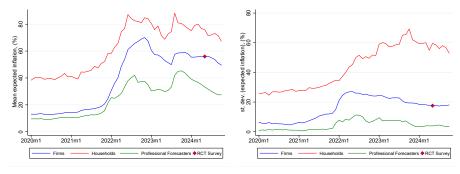
Anchored expectations reflect the credibility of CBs

Jerome Powell (2025): "Our obligation is to keep longer-term inflation expectations well-anchored and to make certain that a one-time increase in the price level does not become an ongoing inflation problem."

Inflation expectations and (in)attention?

- Expectations: part of decision-making process of firms
 - Phillips Curve, Euler Equation, Tobin's Q, Asset Pricing, Taylor rule
 - Empirically challenging to identify the causal impact
- Firms deviate from full-information rational expectations
- Yet, evidence from high-inflation environments is scarce
- 1st randomized information experiment (RCT) in high-inflation
 - Annual inflation was around 75%
- Information treatments conducted immediately after the May 2024 wave of the CBRT's regular monthly firm expectations survey
- Examine causal impacts of expectations on firm decisions
 - Post-treatment behavior is tracked using administrative data

Expectations in Turkey



(a) Mean Expected Inflation

(b) Disagreement in Expected Inflation

Figure: One-Year-Ahead Inflation Expectations of HHs, Firms, and Professionals

Research Questions

- Are information treatments effective in high-inflation?
- How do inflation expectations shape firms' price and wage expectations? **Pass-through rates?**
- Is there a **causal relationship** between inflation expectations and pessimism?
- What are the effects on borrowing behavior, credit costs, liability composition, and FX market transactions?
- Do heightened inflation expectations affect real outcomes such as employment, sales, and purchasing activity?

Shocks to Inflation Expectations

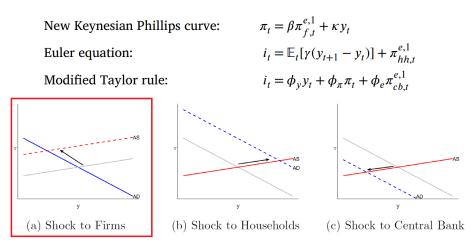


Figure: Response to Expectation Shocks, Adams and Barrett (2024)

• Reactions differ depending on whose expectations are being shocked

Literature Review

- **Pass-through**: Coibion et al. (2018), Hajdini et al. (2023), Buchheim et al. (2024), Baumann et al. (2024), Abberger et al. (2024)
 - \blacktriangleright From inflation expectation to firms' own prices: $0\%\sim 30\%$
 - \blacktriangleright From inflation expectation to wage expectations: $0\%\sim 25\%$

• Impact on Firms' Decisions:

- Coibion et al. (2020)
- Ropele et al. (2022)
- Kumar et al. (2023)
- Delgado et al. (2024)
- First RCT in a high-inflation setting to causally identify the impact of inflation expectations on firm decisions
- Post-treatment behavior tracked using a rich set of administrative data

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- **I** Fact 1: Higher wage, cost, and price expectations
 - Pass-through rates to wage and price expectations are 60%.

- **5** Fact 1: Higher wage, cost, and price expectations
- **②** Fact 2: Increased pessimism about aggregate and firm outlook
 - Supply-sided view of the economy
 - Higher inflation \Rightarrow lower output expectation

- **G** Fact 1: Higher wage, cost, and price expectations
- **§** Fact 2: Increased pessimism about aggregate and firm outlook
- Sect 3: Increased credit usage (with compositional shift)
 - More long-term credit (10 pp \uparrow in expect \Rightarrow 3 percent more use)
 - Less short-term credit (10 pp \uparrow in expect \Rightarrow 1 percent less use)

- **G** Fact 1: Higher wage, cost, and price expectations
- **§** Fact 2: Increased pessimism about aggregate and firm outlook
- **§** Fact 3: Increased credit usage (with compositional shift)
- Fact 4: More borrowing in TL, less in foreign currency
 Liability-side dedollarisation

- **I** Fact 1: Higher wage, cost, and price expectations
- **2** Fact 2: Increased pessimism about aggregate and firm outlook
- **§** Fact 3: Increased credit usage (with compositional shift)
- **G** Fact 4: More borrowing in TL, less in foreign currency
- Sect 5: Increased foreign currency holdings (asset dollarization)
 - Inflation hedging against depreciation, with more FC holding

Higher firm inflation expectations lead to:

- **5** Fact 1: Higher wage, cost, and price expectations
- **§** Fact 2: Increased pessimism about aggregate and firm outlook
- **§** Fact 3: Increased credit usage (with compositional shift)
- **G** Fact 4: More borrowing in TL, less in foreign currency
- Sect 5: Increased foreign currency holdings (asset dollarization)

• Fact 6: Lower growth in sales and employment, higher purchases

- ▶ 10 pp \uparrow in expectation \Rightarrow 0.5 percent decline in employment
- ▶ 10 pp \uparrow in expectation \Rightarrow 0.2 percent decline in sales
- ▶ 10 pp \uparrow in expectation \Rightarrow 0.2 percent increase in purchases

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Methodology: Randomized Controlled Trial

- Sample: Over 1,200 firms surveyed in May 2024
- High inflation context:
 - Annual inflation rate was pprox 75%
 - Policy rate was 50%
 - Mean inflation expectation was 58%
- Firms divided into 5 groups: Descriptive Stats
 - 4 treatment groups
 - 1 control group

• Info treatments: Professional forecasts, CBRT projections-target

• Matched firm-level administrative data sources

- Balance Sheet and Income Statement
- Credit registry (stock and flow)
- Firm-level Employment and wage
- B2B Sales
- Foreign Currency Transactions

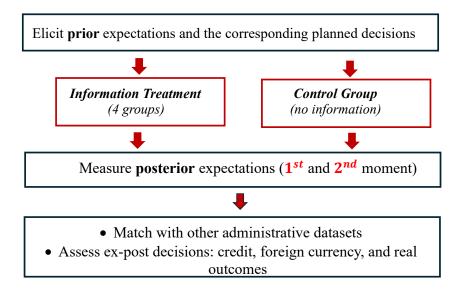
RCT Procedure

- Stage 1: Regular May BTS conducted (priors collected)
- Stage 2: RCT conducted two days later (information provided)
- Stage 3: Following 4 months, post-treatment behavior monitored

Inflation Expectations of Firms

- Mean inflation expectation is 58%.
 - 10th percentile expects 30%
 - 90th percentile expects 89%
- Real sale growth expectation 4.4%.
 - 10th percentile expects -16%
 - 90th percentile expects 36%

RCT Procedure



- T-1 (SPF): According to the results of the Market Participants Survey for May 2024: The participants' expectation for the Consumer Price Index (CPI) 12 months from now is 33.21%. In other words, professionals expect general prices to increase by 33.21% over the next 12 months.
- T-2 (CBRT): "According to the Central Bank of the Republic of Turkey's Inflation Report for May 2024: The Central Bank predicts that annual inflation will be 38% by the end of 2024. In other words, the Central Bank expects general prices to increase by 38% in 2024."
- T-3 (CBRT): "According to the Central Bank of the Republic of Turkey's Inflation Report for May 2024: The Central Bank predicts that annual inflation will be 14% by the end of 2025. In other words, the Central Bank expects general prices to increase by 14% in 2025."
- T-4 (Target): "Within the framework of the inflation targeting regime, the Central Bank's inflation target is 5%. In other words, the Central Bank aims for the general price level to rise by approximately 5% annually in the medium term."

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Assess the impact of the information treatments on expectations

$$\begin{split} \mathsf{Posterior}_i &= \alpha_0 + \beta_0 \mathsf{Prior}_i \\ &+ \sum_{j=1}^4 \beta_j \times I\{i \in \mathsf{Treat}\ j\} \times \mathsf{Prior}_i \\ &+ \sum_{j=1}^4 \alpha_j \times I\{i \in \mathsf{Treat}\ j\} + \gamma X_i + \varepsilon_i \end{split}$$

- Key components:
 - i: Respondent in the firm.
 - Prior_i: Firm's prior (pre-treatment) inflation expectation.
 - Posterior: Firm's posterior (post-treatment) inflation expectation.
- Interpretation of coefficients:
 - β_0 : Strength of prior beliefs in shaping posterior expectations (1 under FIRE).
 - β_j : Effectiveness of treatments in influencing expectations (0 under FIRE).
- Create exogenous variation in expectations, enabling causal analysis.

	CPI		PPI	
	(1) mean	(2) variance	(3) mean	(4) variance
Revisions in beliefs immediately after treatment				
Prior mean	0.81***	0.05***	0.80***	0.04***
	(0.05)	(0.01)	(0.04)	(0.01)
Prior mean \times T1	-0.27***	-0.01	-0.37***	-0.02***
	(0.07)	(0.01)	(0.07)	(0.01)
Prior mean \times T2	-0.23***	-0.01	-0.29***	-0.01***
	(0.07)	(0.01)	(0.06)	(0.01)
Prior mean \times T3	-0.12**	-0.02	-0.22***	-0.01
	(0.06)	(0.01)	(0.07)	(0.01)
Prior mean \times T4	-0.13***	-0.03***	-0.18***	-0.02***
	(0.0654)	(0.0122)	(0.0680)	(0.0102)
T1 (SPF expectations)	10.13***	0.18	18.92***	1.23***
	(3.75)	(0.77)	(3.94)	(0.61)
T2 (CBRT 1-y ahead forecast)	10.52***	0.42	16.14***	0.21
	(4.01)	(0.74)	(3.71)	(0.62)
T3 (CBRT 2-y ahead forecast)	1.73	1.02***	9.96***	1.03***
	(3.95)	(0.61)	(3.76)	(0.58)
T4 (Inflation Target)	7.51***	2.05***	11.13***	1.29***
	(3.94)	(0.72)	(3.78)	(0.62)
Firm Controls	\checkmark	\checkmark	\checkmark	\checkmark
Sector FE	\checkmark	\checkmark	\checkmark	\checkmark
Province FE	\checkmark	\checkmark	\checkmark	\checkmark
R-squared	0.72	0.41	0.74	0.40
Observations	1,181	1,181	1,181	1,181

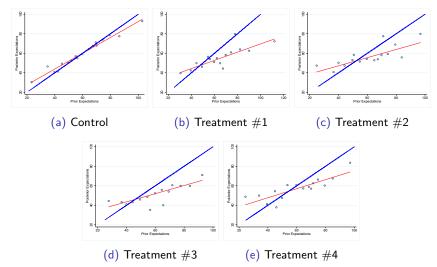


Figure: Prior and Posterior CPI Beliefs for Control/Treatment Groups

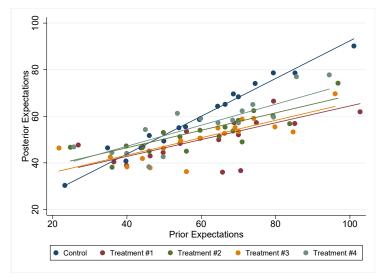


Figure: Response of Inflation Expectations by Treatment Type

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Causal Impact on Expectations

 Analyze the causal impact of exogenous variation in inflation expectations on firms' decisions (Coibion et al., 2022):

 $Y_{i,t+h} = \beta_1 \mathbf{Post}_{i,t}^{mean} + \beta_2 \mathsf{Prior}_{i,t}^{mean} + \gamma X_{i,t-1} + \delta_s + \phi_p + \varepsilon_{i,t+h}$

- Y_{*i*,*t*+*h*} includes:
 - Quantitative expectations: wages, unit costs, prices (12 months ahead)
 - Realized outcomes: credit amount, cost, employment, wages, sales, purchases
- **Post**^{*mean*}: Posterior mean inflation expectation
- Posterior expectation is instrumented with:

$$\mathsf{Post}_{i,t}^{\mathit{mean}} = \alpha_0 + \sum_{j=1}^4 \beta_j \times I\{i \in \mathsf{Treat}\ j\} \times \mathsf{Prior}_{i,t}^{\mathit{mean}} + \sum_{j=1}^4 \alpha_j \times I\{i \in \mathsf{Treat}\ j\} + \varepsilon_{i,t}$$

Fact #1: Strong Impact on Expectations

	Panel A: Effect on Wage Expectations			
	(1) (2) (3)			
	All Sample	Large Firms	SMEs	
Posterior Mean	0.58**	0.48**	0.92***	
	(0.25)	(0.24)	(0.27)	
Prior Wage Growth Perception	0.25***	0.25***	0.21***	
	(0.05)	(0.06)	(0.04)	
First Stage F-stat (KP Wald)	50.17	24.21	24.91	
R-squared	0.25	0.31	0.24	
Observations	1,189	588	601	
	Panel B: Effect on Unit Cost Expectations			
Posterior Mean	0.53***	0.50***	0.97***	
	(0.18)	(0.20)	(0.30)	
Prior Wage Growth Perception	0.10***	0.09**	0.13***	
	(0.03)	(0.04)	(0.04)	
First Stage F-stat (KP Wald)	49.91	24.65	24.27	
R-squared	0.32	0.37	0.31	
Observations	1,187	587	600	
	Panel C: Effect on Price Expectations			
Posterior Mean	0.55***	0.47***	1.01***	
	(0.18)	(0.16)	(0.26)	
Prior Price Growth Perception	0.30***	0.31***	0.28***	
	(0.03)	(0.05)	(0.06)	
First Stage F-stat (KP Wald)	48.96	22.27	26.04	
R-squared	0.30	0.39	0.24	
Observations	1,183	585	598	
Firm Controls, Sector FE, Province FE	\checkmark	\checkmark	\checkmark	

Fact #1: Strong Pass-through to Price-Wage Expectations

• Pass-through rates from next 12-month inflation expectations:

- ► To wage expectations: 58%
- ► To unit cost expectations: 53%
- ► To own price expectations: 55%

- $\bullet\,$ Pass-through rates in low inflation environments are low: $\approx 25\%$
 - ▶ Hajdini et al. (2023), Abberger et al. (2024), Baumann et al. (2024)
- Contrast with Savignac et al. (2024):
 - No significant link between wage and price expectations in their findings

Fact #2: Higher expectation \Rightarrow increased pessimism

Panel A: Effect on Firm's Own Business Expectations				
	(1) All Sample	(2) Large Firms	(3) SMEs	
Posterior Mean	0.014***	0.011***	0.019***	
	(0.003)	(0.004)	(0.004)	
Prior Economic Perception	0.23***	0.31***	0.19***	
	(0.032)	(0.054)	(0.058)	
First Stage F-stat (KP Wald)	49.91	24.46	24.43	
R-squared	0.12	0.14	0.13	
Observations	1,173	587	583	
Panel B: Effect on Economic Expectations				

0.024*** Posterior Mean 0.021*** 0.029*** (0.002)(0.003)(0.004)0.263*** Prior Economic Perception 0.334*** 0.201*** (0.030)(0.052)(0.055)First Stage F-stat (KP Wald) 50.25 24.20 24.71 R-squared 0.17 0.22 0.19 Observations 1,187 587 600

Panel C: Effect on Credit Conditions Expectations

Posterior Mean	0.012***	0.009***	0.014***
Prior Borrowing Cost Expectation	(0.002) 0.166***	(0.004) 0.119***	(0.003) 0.185***
The Derowing Cost Expectation	(0.039)	(0.055)	(0.058)
First Stage F-stat (KP Wald)	50.53	24.73	24.93
R-squared	0.10	0.12	0.16
Observations	1,169	582	587
Firm Controls, Sector FE, Province FE	√	√	\checkmark

Fact #2: Higher expectation \Rightarrow increased pessimism

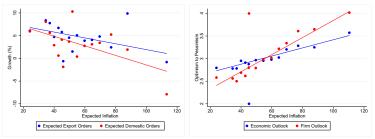
• A 1 SD (20pp) rise in inflation expectations increases pessimism:

- ▶ By 0.48 points for aggregate economic outlook next 3 months
- By 0.28 points for firms' own business expectations
- Higher expectations \Rightarrow tighter credit conditions
 - More so for small firms (financially more vulnerable)

• Supply-sided mindset of firms:

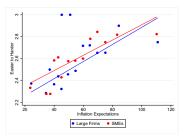
- \uparrow inflation expectation \Rightarrow weaker growth and costlier financing
- \blacktriangleright \downarrow inflation expectation \Rightarrow stronger growth and cheaper financing

Fact #2: Descriptive Evidence



(a) Export and Domestic Order

(b) Aggregate and Firm Outlook



(c) Financial Conditions

Borrowing: Impact on Credit and Financing Cost

	(1) $y_{i,t+1}$	(2) $y_{i,t+2}$	(3) _{<i>y</i>_{<i>i</i>,<i>t</i>+3}}	(4) _{Yi,t+4}	
Panel A: Effect on Credit					
Posterior Mean	0.30**	0.37**	0.38***	0.17	
	(0.14)	(0.16)	(0.13)	(0.11)	
First Stage F-stat (KP Wald)	59.77	59.77	59.77	59.78	
Observations	1,181	1,181	1,181	1,181	
Panel B: Effect on Borrowing Cost					
Posterior Mean	-0.28***	-0.28***	-0.33**	-0.31*	
	(0.08)	(0.10)	(0.15)	(0.17)	
First Stage F-stat (KP Wald)	20.63	20.62	20.63	20.63	
Observations	595	567	534	582	
Firm Controls Sector FE Province FE	\checkmark	\checkmark	\checkmark \checkmark	\checkmark \checkmark	

• More credit with lower cost (compositional shift)

Fact #3: Higher expectation \Rightarrow increased credit usage

• Higher Credit Demand:

- ▶ 10 pp rise in expectations \Rightarrow 3 percent rise in new credit usage
- Shift borrowing from short-term to long-term credit
- Cost decline due to shift in maturity
- Refinancing Channel as Key Driver:
 - Lock-in current interest rates to mitigate future cost increases
 - Real value of debt will erode over time
 - Other Possible Channels
- Yet, why do price and quantity move in different directions?

Borrowing: Impact on Short vs Long Term Credit

(1)	(2)	(3)	(4)								
			$y_{i,t+4}$								
Panel A: Effect on Long-term Credit											
0.33**	0.36**	0.40**	0.03								
(0.14)	(0.16)	(0.13)	(0.10)								
59.77	59.77	59.77	59.78								
1,181	1,181	1,181	1,181								
Panel B: Effect on Short-term Credit											
-0.07*	-0.02	-0.04***	-0.04								
(0.04)	(0.02)	(0.02)	(0.03)								
59.77	59.77	59.77	59.78								
1,181	1,181	1,181	1,181								
Panel C: Effect on Long-term Borrowing Cost											
0.16***	0.18***	0.14**	0.10*								
(0.03)	(0.04)	(0.07)	(0.06)								
20.56	17.38	18.89	21.31								
271	254	251	261								
Short-ter	m Borrowi	ng Cost									
-0.05**	-0.07***	-0.06**	-0.05								
(0.02)	(0.02)	(0.03)	(0.03)								
10.92	11.47	10.85	13.12								
324	313	283	321								
~	~	~	~								
\checkmark	\checkmark	\checkmark	\checkmark								
~	√	\checkmark	\checkmark								
	$y_{i,t+1}$ ct on Lon 0.33** (0.14) 59.77 1.181 ct on Short -0.07* (0.04) 59.77 1.181 ct on Short -0.07* (0.03) 20.56 271 -0.05** (0.02) 10.92 324 \checkmark \checkmark	$y_{i,t+1}$ $y_{i,t+2}$ ct on Long-term Cree 0.33** 0.36** (0.14) (0.16) 9.77 59.77 59.77 1.181 1.181 1.181 1.181 ct on Short-term Cree 0.00* (0.02) 59.77 59.77 1.181 1.181 1.181 1.181 ct ong-term Borrowin 0.06** 0.18*** 0.03 (0.04) 20.56 17.38 271 254 254 Short-term Borrowin -0.05** -0.07*** (0.02) 10.92 10.92 11.47 324 313 \checkmark \checkmark \checkmark \checkmark	$y_{i,t+1}$ $y_{i,t+2}$ $y_{i,t+3}$ ct on Long-term Credit 0.33** 0.36** 0.40** (0.14) (0.16) (0.13) 59.77 59.77 59.77 59.77 59.77 59.77 59.77 1.181 1.181 ct on Short-term Credit -0.02 -0.04^{***} (0.04) (0.22) (0.22) 59.77 59.77 59.77 59.77 1.181 1.181 ct on Short-term Borrowing Cost 0.16^{***} 0.18^{***} 0.14^{**} 0.06-term Borrowing Cost 0.07^{*} 25.4 251 Short-term Borrowing Cost -0.05^{**} -0.05^{**} 0.00^{**} 0.02 (0.02) (0.02) (0.03) 0.09^{**} 0.192 11.47 10.85 324 313 283 $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$								

• The changes are demand-driven (price and quantity movements)

Fact #3: Higher expectation \Rightarrow long-term credit usage

- Long-Term financing dominates:
 - Higher demand for long-term credit drives down average costs
 - Long-term financing cost: 48%
 - Short-term cost: 52%
- Channels in Play:
 - Refinancing Channel: Major driver; firms extend debt maturities
 - Working Capital Channel: Contributes minimally; reduced short-term credit demand (reduced need for working capital)
- Key Finding:
 - Higher inflation expectations reshape firms' borrowing behavior, favoring long-term credit at a reduced average cost.

Outstanding Credit and Liability Composition

	(1)	(2)	(3)	(4)					
	$y_{i,t+1}$	$y_{i,t+2}$	yi,t+3	Yi,t+4					
Panel A: Effect on Total Outstanding Credit									
Posterior Mean	0.15***	0.14***	0.16***	0.14***					
	(0.01)	(0.01)	(0.01)	(0.01)					
Panel B: Effect on Long-term Outstanding Credit									
Posterior Mean	0.16***	0.15***	0.17***	0.15***					
	(0.01)	(0.02)	(0.01)	(0.01)					
Panel C: Effect on Short-term Outstanding Credit									
Posterior Mean	-0.02**	-0.01	-0.01	-0.01					
	(0.01)	(0.01)	(0.02)	(0.02)					
Panel D: Effect on TL D)enominat	ed Outst	anding Cı	edit					
Posterior Mean	0.15***	0.14***	0.16***	0.14***					
	(0.02)	(0.01)	(0.02)	(0.02)					
Panel E: Effect on FX D	enominat	ed Outsta	anding Cr	edit					
Posterior Mean	-0.02**	-0.02	-0.02	-0.01					
	(0.01)	(0.02)	(0.02)	(0.01)					
Firm Controls	\checkmark	\checkmark	~	\checkmark					
Sector FE	\checkmark	\checkmark	\checkmark	\checkmark					
Province FE	\checkmark	\checkmark	\checkmark	\checkmark					
First Stage F-stat (KP Wald)	69.54	69.54	69.54	69.54					
Observations	1,181	1,181	1,181	1,181					

Fact #4: Higher Expectation \Rightarrow shift towards Lira credits

Firms with heightened inflation expectations:

- Rise in Lira-denominated credit
 - ▶ 10 pp \uparrow in expectations \Rightarrow 1.5 percent rise in TL credit
 - ★ Debt erosion impact of inflation
- Decline in FX-denominated credit
 - ▶ 10 pp \uparrow in expectations \Rightarrow 0.2 percent decline in FX credit

 $\star\,$ Higher perceived costs from currency depreciation.

- Key Finding: Liability-side dedollarisation
 - Shift in the composition of liabilities toward Lira-denom credit
 - Firms perceive borrowing in TL as cheaper than FX

Asset Side: Foreign Currency Purchases and Sales

	(1)	(2)	(3)	(4)
	$y_{i,t+1}$	$y_{i,t+2}$	yi,t+3	Yi,t+4
Panel A: Effect	on Foreign	Currenc	y Buying	
Posterior Mean	0.06***	0.03*	0.05*	0.02
	(0.02)	(0.02)	(0.03)	(0.02)
First Stage F-stat (KP Wald)	58.45	58.46	58.45	58.45
Observations	1,181	1,181	1,181	1,181
Panel B: Effect	on Foreign	Currenc	y Selling	
Posterior Mean	-0.16***	-0.05	-0.14***	-0.15***
	(0.05)	(0.05)	(0.06)	(0.06)
First Stage F-stat (KP Wald)	54.04	54.04	54.04	54.04
Observations	1,181	1,181	1,181	1,181
Firm Controls	\checkmark	\checkmark	\checkmark	\checkmark
Sector FE	\checkmark	\checkmark	\checkmark	\checkmark
Province FE	\checkmark	\checkmark	\checkmark	\checkmark

Fact #5: Higher Expectation \Rightarrow more FX holdings

Firms with heightened inflation expectations:

- Rise in Foreign Currency Purchases:
 - \blacktriangleright 10 pp \uparrow in expectations \Rightarrow 0.6 pp increase in FX purchases
- Decline in Foreign Currency Sales:
 - ▶ 10 pp \uparrow in inflation expectations \Rightarrow 1.6 pp decrease in FX sales
- Key Insight: Asset-side dollarisation
 - Reflects hedging behavior against domestic inflation
 - ★ a common behavior in emerging markets

Real Outcome: Impact on employment, sales, inventory

	(1)	(2)	(3)	(4)				
	(1) Yi.t+1	(2) Yi.t+2	(3) Yi.t+3	(4) Yi.t+4				
		- /		y1,t+4				
Panel A: E	ffect on E	mploymen						
Posterior Mean	-0.05***	-0.04**	-0.05***	-0.03*				
	(0.02)	(0.02)	(0.02)	(0.02)				
First Stage F-stat (KP Wald)	69.54	69.54	69.54	69.54				
R-Squared	0.12	0.13	0.12	0.10				
Panel B:	Effect on T	Total <mark>Sales</mark>						
Posterior Mean	-0.01^{***}	-0.02**	-0.01	-0.03				
	(0.006)	(0.01)	(0.14)	(0.10)				
First Stage F-stat (KP Wald)	68.19	68.19	68.19	68.19				
R-Squared	0.14	0.15	0.13	0.12				
Panel C: Effect on Total Purchases								
Posterior Mean	0.01***	0.02***	0.01***	0.01***				
	(0.002)	(0.003)	(0.004)	(0.005)				
First Stage F-stat (KP Wald)	69.24	69.24	69.24	69.24				
R-Squared	0.10	0.11	0.09	0.13				
Panel D	: Effect or	Wages						
Posterior Mean	0.04	0.07**	0.05*	0.02				
	(0.02)	(0.03)	(0.03)	(0.02)				
First Stage F-stat (KP Wald)	69.75	69.75	69.75	69.75				
R-Squared	0.13	0.12	0.09	0.13				
Firm Controls	\checkmark	~	\checkmark	~				
Sector FE	\checkmark	\checkmark	\checkmark	\checkmark				
Province FE	√	√	√	√				
Observations	1,181	1,181	1,181	1,181				

Fact #6: Higher Expectation \Rightarrow depressed real activity

Impact on Real Firm-Level Outcomes:

- Sales and Employment:
 - 10 pp rise in inf. expectations leads to:
 - ★ 0.5 percent decline in employment growth
 - ★ 0.2 percent decline in sales growth
 - "Supply-sided" view of the economy
- Wages:
 - ▶ 10 pp rise in expectations \Rightarrow 0.7% increase in wage
 - Sticky wages lead to a slower adjustment in the short run

• Key Insight:

Reduce employment and sales consistent with their expectations

Fact #6: Higher Expectation \Rightarrow more purchasing

• Purchases:

▶ 10 pp increase in inf. expectations \Rightarrow 0.2% rise in purchasing

Key Channels:

- Inflation Hedge: Firms purchase in advance to avoid future price increases
 - * Better to hold goods than lose value holding money
 - * Mirrors consumer hoarding behavior
- Just-in-Case Inventory: Firms secure materials early to lock in current prices and stabilize costs
 - Price volatility and delivery delays are more common in high-inflation environments

Overall Effect:

► Despite reduction in employment and sales, firms increase purchases ⇒ cost-cutting measures

Outline

Introduction and Research Questions

2 Methodology and Empirical Setting

Causal Impact on Firms' Decisions and Expectations
 Firms' Wage, Price and Economic Outlook Expectations

- Borrowing Behavior
- Real Outcome (employment, sales, inventory)



Conclusion

- Inflation expectations have significant causal impacts on firm decisions.
 - ▶ Wage and price expectations: 60% pass-through
 - More credit usage, lower cost, shift from short-term to long-term
 - Lower employment and sales, higher purchases
- Evidence supports the "supply-sided" view of the economy.
- Future research: Role of inflation uncertainty and its second-moment effects.

State-Dependence of Results

- Real outcomes are consistent with firms' expectations.
- However, what about external validity?
- To test the robustness of our findings, we utilize the unexpected interest rate cut in 2021 as a quasi-experiment in a separate paper.

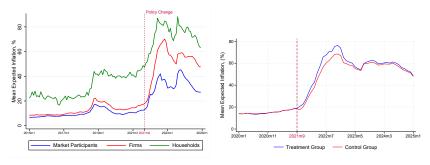
External Validity of Results - Akarsu et al. (2025)

Akarsu et al. (2025)

Quasi-Experiment in Monetary Policy:

The Impact of 2021 Rate Cut on Inflation Expectations and Firm Behavior

- Unexpected policy rate cut in September 2021
- New evidence obtained from the period between Sep-Dec 2021



(a) Quasi-experimental Setting

(b) Firms (Control vs Treatment)

	(1)	(2)	(3)	(4)	(5)	(6)			
	$y_{i,t+1}$	$y_{i,t+2}$	$y_{i,t+3}$	$y_{i,t+4}$	$y_{i,t+5}$	Yi,t+6			
Panel A: Effect on Perception of Economic Outlook									
Posterior CPI Expectation	0.014***	0.021***	0.020***	0.021***	0.019***	0.023***			
	(0.003)	(0.004)	(0.003)	(0.004)	(0.005)	(0.006)			
Prior Economic Outlook	0.412***	0.356***	0.425***	0.334***	0.344***	0.352***			
	(0.036)	(0.036)	(0.031)	(0.036)	(0.035)	(0.033)			
First Stage F-stat (KP Wald)	65.55	56.39	55.51	53.33	54.61	58.53			
Observations	1,184	1,198	1,183	1,179	1,172	1,164			
R-Squared	0.225	0.169	0.233	0.172	0.173	0.197			
Panel B: Effect on Expected Orders									
Posterior CPI Expectation	-0.007**	-0.011***	-0.006*	-0.007*	-0.011**	-0.007			
	(0.003)	(0.004)	(0.004)	(0.004)	(0.004)	(0.005)			
Prior Order Expectation	0.442***	0.277***	0.292***	0.241***	0.175***	0.193***			
	(0.032)	(0.036)	(0.035)	(0.034)	(0.035)	(0.034)			
First Stage F-stat (KP Wald)	67.04	67.99	64.91	59.85	65.74	58.69			
Observations	1,175	1,170	1,164	1,150	1,156	1,145			
R-Squared	0.197	0.079	0.089	0.063	0.036	0.046			
Pan	el C: Effect	on Expecte	d Employme	nt					
Posterior CPI Expectation	-0.005**	-0.009***	-0.009***	-0.004	-0.010***	-0.006**			
	(0.003)	(0.003)	(0.003)	(0.003)	(0.004)	(0.003)			
Prior Sales Expectation	0.413***	0.328***	0.254***	0.275***	0.301***	0.200***			
	(0.036)	(0.039)	(0.039)	(0.036)	(0.036)	(0.037)			
First Stage F-stat (KP Wald)	66.85	69.13	65.16	61.81	64.92	62.76			
Observations	1,190	1,176	1,151	1,148	1,159	1,133			
R-Squared	0.18	0.12	0.08	0.09	0.11	0.05			
Firm Controls, Sector FE, Province FE	✓	√	√	√	√	√			

Akarsu et al. (2025) - Impact on Expectations

Akarsu et al. (2025) - Impact on Expectations

Takeaways #1

- Higher inflation expectations worsen firms' economic outlook.
 - 10-pp rise in inflation expectations reduces economic sentiment by 0.21 points
- Firms cut back on expected orders and employment
- Results align with uncertainty and real-options theory.

	(1)	(2)	(3)	(4)	(5)	(6)			
	$y_{i,t+1}$	$y_{i,t+2}$	$y_{i,t+3}$	$y_{i,t+4}$	$y_{i,t+5}$	$y_{i,t+6}$			
Panel A: Effect on Domestic Sales Price Expectation									
Posterior CPI Expectation	0.015*	0.012**	0.012**	0.009***	0.013**	0.007*			
	(0.008)	(0.006)	(0.006)	(0.004)	(0.007)	(0.004)			
Prior Domestic Price Expectation	0.392***	0.358***	0.365***	0.390***	0.365***	0.351***			
	(0.033)	(0.030)	(0.030)	(0.030)	(0.032)	(0.031)			
First Stage F-stat (KP Wald)	66.31	58.51	53.77	57.01	56.24	52.68			
Observations	1,184	1,202	1,182	1,170	1,178	1,168			
R-Squared	0.172	0.154	0.154	0.172	0.162	0.144			
Panel B: Effect on Unit Cost Expectation									
Posterior CPI Expectation	0.010	0.018**	0.019**	0.016**	0.016	0.018**			
	(0.008)	(0.009)	(0.009)	(0.008)	(0.010)	(0.009)			
Prior Unit Cost Expectation	0.376***	0.298***	0.316***	0.326***	0.324***	0.315***			
	(0.028)	(0.026)	(0.028)	(0.028)	(0.027)	(0.028)			
First Stage F-stat (KP Wald)	50.93	48.71	46.26	47.12	57.05	46.75			
Observations	1,196	1,209	1,192	1,177	1,194	1,179			
R-Squared	0.231	0.171	0.170	0.184	0.175	0.178			
Panel	C: Effect of	on Capacity	Utilization I	Ratio					
Posterior CPI Expectation	-0.171**	-0.172*	-0.308***	-0.330**	-0.293***	-0.298**			
	(0.085)	(0.093)	(0.110)	(0.150)	(0.126)	(0.138)			
Prior Capacity Utilization	0.792***	0.754***	0.735***	0.731***	0.748***	0.702***			
	(0.027)	(0.028)	(0.032)	(0.030)	(0.027)	(0.030)			
First Stage F-stat (KP Wald)	67.95	67.45	65.91	63.61	65.49	63.65			
Observations	1,251	1,265	1,249	1,235	1,249	1,230			
R-Squared	0.71	0.65	0.59	0.60	0.61	0.57			
Firm Controls, Sector FE, Province FE	1	1	1	1	1	~			

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Akarsu et al. (2025) - Impact on Capacity Utilization

Takeaways #2

- Inflation expectations significantly reduce firms' capacity utilization.
 - A 10-pp increase in inflation expectations leads to a 3.3 percentage point drop
- Reflects expectations of weaker future demand and uncertainty
- Firms respond by scaling back production (and maybe investment?)

Akarsu et al. (2025) - Impact on Price Expectations

Takeaways #3

- Firms revise up both price and cost expectations when inflation expectations rise.
- A 10-pp increase in CPI expectations raises:
 - Domestic sales price expectations by 0.15 points.
 - Unit cost expectations by 0.19 points.
- Indicates strong inflation pass-through to firm pricing strategies.
- Firms internalize macroeconomic signals quickly in setting expectations.
- Consistent with evidence from firm-level surveys and RCTs
 - Coibion and Gorodnichenko (2015); Kumar et al. (2023); Akarsu et al. (2024)

	(1)	(2)	(3)	(4)	(5)	(6)
	$y_{i,t+1}$	$y_{i,t+2}$	yi,t+3	yi,t+4	$y_{i,t+5}$	yi,t+6
	Panel A	: Effect on C	redit			
Posterior CPI Expectation	0.248**	0.260**	0.248**	0.268*	0.230*	0.202
	(0.124)	(0.125)	(0.127)	(0.129)	(0.130)	(0.133)
First Stage F-stat (KP Wald)	55.53	55.53	55.53	55.53	55.53	55.53
Observations	1,287	1,287	1,287	1,287	1,287	1,287
R-Squared	0.39	0.41	0.41	0.40	0.39	0.44
I	Panel B: Effe	ect on Borrow	wing Cost			
Posterior CPI Expectation	0.132***	0.141***	0.141**	0.145***	0.138***	0.149**
	(0.053)	(0.052)	(0.064)	(0.048)	(0.045)	(0.070)
First Stage F-stat (KP Wald)	31.41	29.49	32.93	35.01	38.12	30.71
Observations	630	616	633	644	729	625
R-Squared	0.57	0.53	0.58	0.60	0.61	0.64
Pane	C: Effect o	n Foreign Cu	irrency Sellir	g		
Posterior CPI Expectation	-0.336***	-0.295***	-0.252***	-0.182*	-0.277***	-0.192
	(0.095)	(0.102)	(0.073)	(0.105)	(0.096)	(0.125)
First Stage F-stat (KP Wald)	55.76	55.76	55.76	55.76	55.76	55.76
Observations	1,268	1,268	1,268	1,268	1,268	1,268
R-Squared	0.35	0.39	0.35	0.38	0.31	0.35
Pane	I D: Effect o	n Foreign Cu	irrency Buyir	ıg		
Posterior CPI Expectation	0.148*	0.146*	0.197**	0.206**	0.192***	0.188*
	(0.090)	(0.085)	(0.082)	(0.102)	(0.072)	(0.095)
Observations	1,268	1,268	1,268	1,268	1,268	1,268
R-Squared	0.29	0.27	0.28	0.28	0.30	0.30
Firm Controls, Sector FE, Province FE	1	1	1	1	1	1

Akarsu et al. (2025) - Impact on Borrowing Behavior

Akarsu et al. (2025) - Impact on Borrowing Behavior

Takeaways #4 – Credit, Borrowing Cost, and FX Behavior

- 10-pp increase in inflation expectations:
 - raises credit by 2.5%
 - and borrowing costs by 1.5 pp.
- Firms borrow more despite weaker sales and employment outlook
 - motivated by locking in lower rates
 - or expecting debt erosion via inflation
- Asset-side dollarization
 - **FX purchases rise by 2%** sales fall by 2.5%
- Firms hedge against inflation and currency risk
 - through borrowing and FX positioning
 - driven by financial, operational, and precautionary motives

Akarsu et al. (2025) - Impact on Real Activity

	(1)	(2)	(3)	(4)	(5)	(6)				
	$y_{i,t+1}$	$y_{i,t+2}$	$y_{i,t+3}$	$y_{i,t+4}$	$y_{i,t+5}$	$y_{i,t+6}$				
Panel A: Effect on Sales										
Posterior CPI Expectation	-0.022***	-0.021***	-0.017**	-0.014*	-0.016**	-0.013				
	(0.008)	(0.008)	(0.008)	(0.008)	(0.008)	(0.009)				
First Stage F-stat (KP Wald)	55.84	55.84	55.78	55.78	55.79	55.79				
Observations	1,263	1,263	1,258	1,257	1,261	1,259				
R-Squared	0.23	0.25	0.27	0.25	0.26	0.23				
Panel B: Effect on Exports										
Posterior CPI Expectation	0.005	0.003	0.004	0.014*	0.019**	0.019***				
	(0.007)	(0.012)	(0.007)	(0.008)	(0.008)	(0.007)				
First Stage F-stat (KP Wald)	55.07	55.07	55.07	55.07	55.07	55.07				
Observations	1,145	1,145	1,145	1,145	1,145	1,145				
R-Squared	0.12	0.13	0.12	0.11	0.13	0.12				
	Panel C: E	ffect on Purc	hases							
Posterior CPI Expectation	0.009	0.017	0.032***	0.017*	0.022**	0.020*				
	(0.015)	(0.012)	(0.010)	(0.009)	(0.011)	(0.012)				
First Stage F-stat (KP Wald)	55.66	55.66	55.66	55.66	55.66	55.66				
Observations	1,261	1,265	1,265	1,264	1,265	1,263				
R-Squared	0.16	0.18	0.20	0.15	0.16	0.12				
Firm Controls, Sector FE, Province FE	\checkmark	√	√	\checkmark	√	~				

Akarsu et al. (2025) - Impact on Real Activity

	(1)	(2)	(3)	(4)	(5)	(6)
	$y_{i,t+1}$	yi,t+2	Yi,t+3	Yi,t+4	$y_{i,t+5}$	Yi,t+6
	Panel	D: Effect or	n Employmer	it		
Posterior CPI Expectation	-0.011	-0.014	-0.024***	-0.023***	-0.022**	-0.018
	(0.010)	(0.010)	(0.008)	(800.0)	(0.010)	(0.013)
R-Squared	0.09	0.11	0.11	0.10	0.09	0.08
First Stage F-stat (KP Wald)	55.79	55.79	55.79	55.79	55.79	55.79
Observations	1,263	1,262	1,260	1,260	1,260	1,260
	Pa	nel E: Effec	t on Wage			
Posterior CPI Expectation	0.003	0.005***	0.013***	0.010***	0.019***	0.018*
	(0.002)	(0.002)	(0.004)	(0.004)	(0.006)	(0.010)
R-Squared	0.05	0.07	0.09	0.09	0.11	0.09
First Stage F-stat (KP Wald)	55.79	55.79	55.79	55.79	55.79	55.79
Observations	1,263	1,262	1,260	1,260	1,260	1,260
Firm Controls	~	√	√	√	√	~
Sector FE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Province FE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Akarsu et al. (2025) - Impact on Real Activity

Takeaways #5 – Real Firm Outcomes

- A 10-pp rise in inflation expectations:
 - reduces domestic sales by 0.21%
 reduces employment by 0.24% within 3 months
- Firms shift toward **exports (0.14%)**
 - aiming to generate FX revenue amid currency depreciation fears
- Firms increase purchases (0.32%)
 - firms front-load input buying to hedge against future cost increases
- Nominal wages rise (0.13%), reflecting partial cost pass-through

Inflation Expectations of Firms

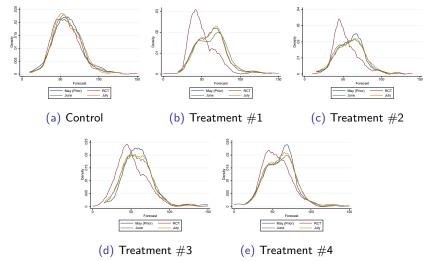


Figure: Distributions of CPI Forecasts (for each group)

Descriptive Statistics

Table: Descriptive statistics by treatment status

	Cor	ntrol	Trea	t #1	Trea	t #2	Trea	t #3	Trea	t #4	Full s	ample	Manufact	turing firms
Variable	mean	sd	mean	sd										
Net Sales (billion TL)	1.31	3.41	1.34	3.91	1.57	4.24	1.47	3.92	1.32	3.85	1.41	4.18	1.67	5.15
Assets (billion TL)	1.21	2.88	1.36	4.31	1.31	4.27	1.32	3.44	1.31	3.62	1.30	3.95	1.82	4.99
Capital (K) (billion TL)	0.25	0.72	0.34	0.42	0.27	0.91	0.23	0.71	0.21	0.62	0.26	0.76	0.32	0.89
Exports (billion TL)	0.41	0.19	0.45	0.24	0.46	0.31	0.52	0.27	0.48	0.29	0.47	0.21	1.17	4.09
Net Profit (billion TL)	0.81	0.17	0.87	0.34	0.88	0.29	0.88	0.27	0.89	0.30	0.87	0.29	0.89	1.81
Age	22.85	12.42	22.55	11.36	22.90	12.71	23.44	12.09	22.71	12.86	22.89	12.97	23.14	16.51
Number of Employees	615.17	910.86	637.65	842.25	624.49	886.26	662.75	851.02	621.67	798.04	632.18	874.21	649.83	1330.41
Prior Expectations														
CPI (implied mean)	58.63	18.23	62.48	18.73	59.14	16.65	58.61	17.82	59.31	17.56	59.55	17.56	-	-
PPI (implied mean)	58.45	20.09	60.28	20.05	57.91	18.81	58.99	20.18	57.25	18.82	58.19	19.29	-	-
Production Capacity Utilization	68.62	19.75	69.81	19.27	69.38	19.47	69.29	20.65	69.47	21.51	69.29	21.51	-	-
Posterior Expectations (RCT)														
CPI (posterior mean)	58.79	21.24	51.73	20.65	53.66	19.41	51.27	19.99	55.77	20.01	54.52	20.44	-	-
PPI (posterior mean)	55.66	28.18	50.52	22.12	51.84	18.09	49.18	19.69	52.15	19.79	51.93	19.79	-	-
Wage Expectations	41.82	19.22	38.22	19.31	37.62	21.09	38.25	18.84	39.94	18.99	39.19	19.04	-	-
Unit Cost Expectations	40.93	25.85	37.68	19.92	39.26	21.67	37.71	22.02	38.67	20.83	38.95	22.26	-	-
Price Expectations	33.86	21.12	30.88	20.56	30.81	20.96	30.12	22.36	32.19	21.12	31.75	21.41	-	-
No of obs	303		257		274		291		271		1,396		129,041	



Descriptive Statistics

	De	ependent Va	riable: Trea	tment dum	my
	(1)	(2)	(3)	(4)	(5)
Number of Employees	0.006	0.005	0.005	0.006	0.002
	(800.0)	(800.0)	(0.009)	(0.009)	(0.009)
Age		0.009	0.009	0.010	0.013
		(0.019)	(0.018)	(0.019)	(0.021)
Export Share			-0.001	-0.002	-0.002
			(0.002)	(0.002)	(0.002)
Profit Margin			0.009	0.014	0.015
			(0.038)	(0.039)	(0.036)
Leverage			0.002	0.001	0.001
			(0.004)	(0.005)	(0.006)
Constant	0.771***	0.784***	0.793***	0.791***	0.792***
	(0.046)	(0.071)	(0.069)	(0.062)	(0.059)
Sector FE				\checkmark	\checkmark
Province FE					\checkmark
R-squared	0.0004	0.0006	0.0006	0.0007	0.0009
Observations	1,390	1,390	1,390	1,390	1,390
p-value (F-stat)	1.000	0.782	0.924	1.0000	0.964

Table: Assignment into Treatment



Treatment Effect

	One Month	after Treatment	Two Month	s after Treatment
	CPI	PPI	CPI	PPI
Prior mean	0.59***	0.62***	0.65***	0.68***
	(0.05)	(0.04)	(0.02)	(0.02)
Prior mean \times T1	-0.08***	-0.12***	-0.02	0.03
	(0.04)	(0.05)	(0.03)	(0.02)
Prior mean \times T2	-0.11***	-0.13***	-0.01	0.03
	(0.05)	(0.05)	(0.03)	(0.03)
Prior mean \times T3	-0.13***	-0.14***	0.01	-0.04
	(0.07)	(0.05)	(0.02)	(0.03)
Prior mean \times T4	-0.06	-0.05	0.01	-0.03
	(0.07)	(0.06)	(0.02)	(0.03)
T1 (SPF expectations)	-7.14* ^{**}	-6.10***	1.23	-1.21
	(3.41)	(3.06)	(1.58)	(1.71)
T2 (CBRT 1-y ahead forecast)	-6.31***	-6.92***	0.69	-1.01
	(3.11)	(3.06)	(1.67)	(1.66)
T3 (CBRT 2-y ahead forecast)	-8.96***	-5.99***	-0.59	1.29
,	(3.54)	(2.97)	(1.48)	(1.73)
T4 (Inflation Target)	-3.42	-2.51	0.69	1.65
	(4.06)	(3.17)	(1.64)	(1.82)
Firm Controls	√	\checkmark	√	√
Sector FE	\checkmark	\checkmark	\checkmark	\checkmark
Province FE	\checkmark	\checkmark	\checkmark	\checkmark
R-squared	0.71	0.68	0.66	0.67
Observations	1,160	1,160	1,151	1,151

Borrowing and Real Outcomes

Inflation expectations influence borrowing decisions through 4 channels:

- Investment demand channel: Firms may lower investment, reducing the need for long-term credit.
- Precautionary reallocation channel: Firms shift to short-term debt to better manage cash flow shocks in uncertain environments.
- Working capital channel: Higher inflation expectations reduce short-term credit demand, as they expect to cut employment costs often funded by short-term credit lines.
- Refinancing channel: Firms secure long-term loans to lock in current rates before inflation raises future costs.

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