

LONG-RUN INFLATION EXPECTATIONS

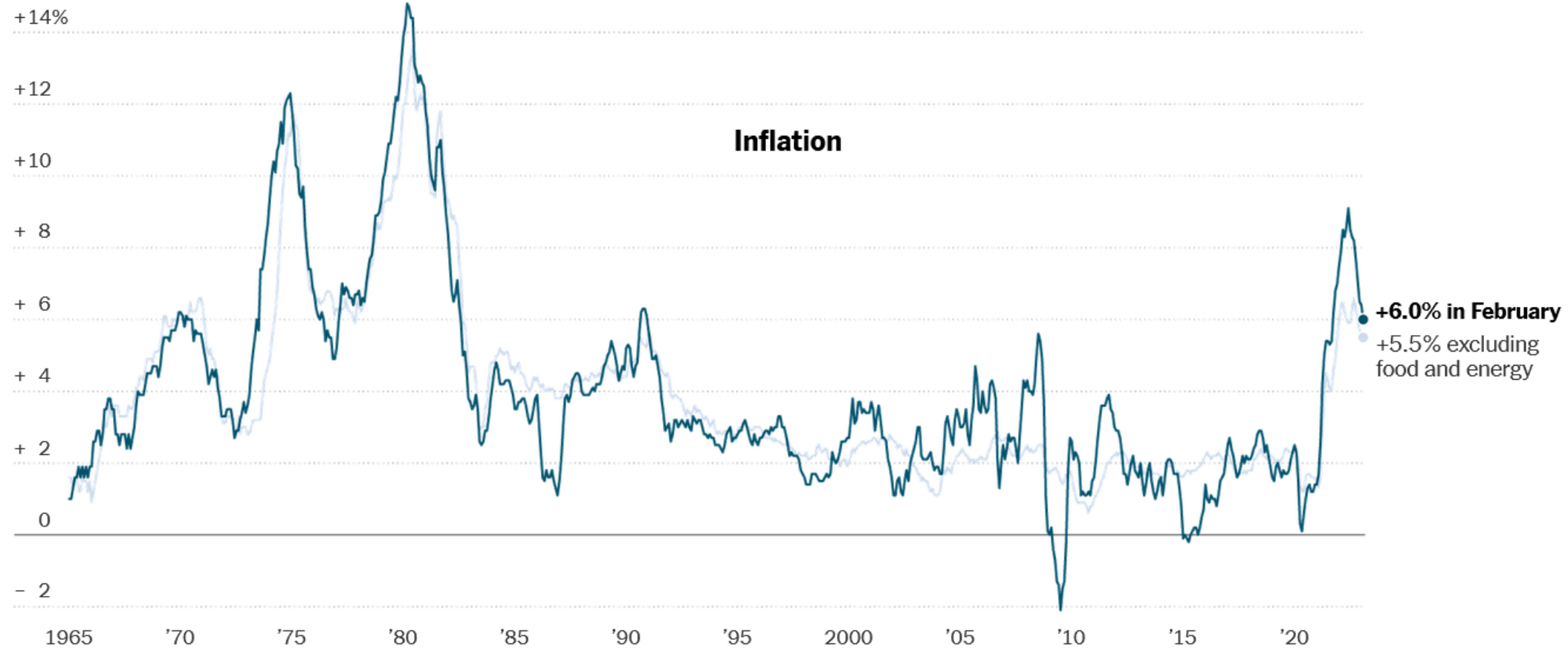
By Jonas Fisher, Leonardo Melosi and Sebastian Rast

Discussion by Yuriy Gorodnichenko
UC Berkeley and 

Inflation in February


March 14, 2023

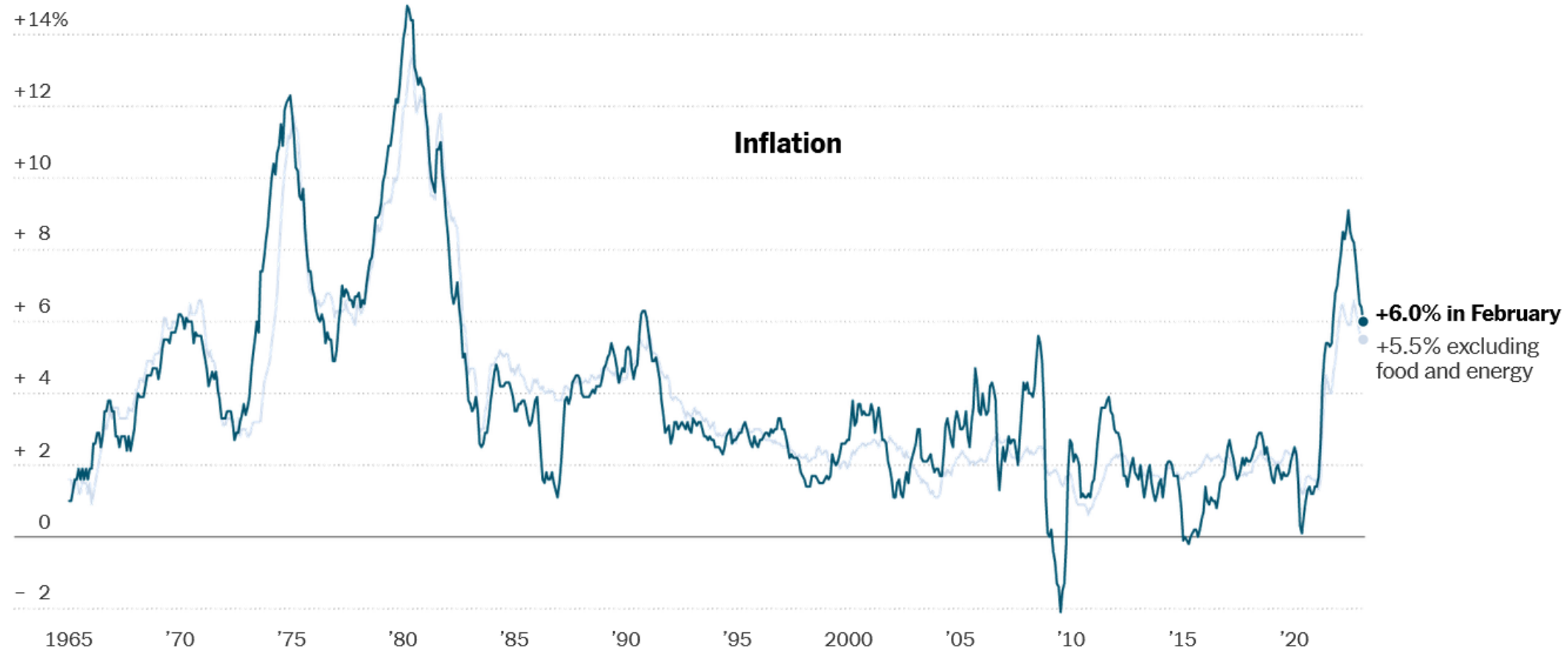
 Give this article  



Inflation in February

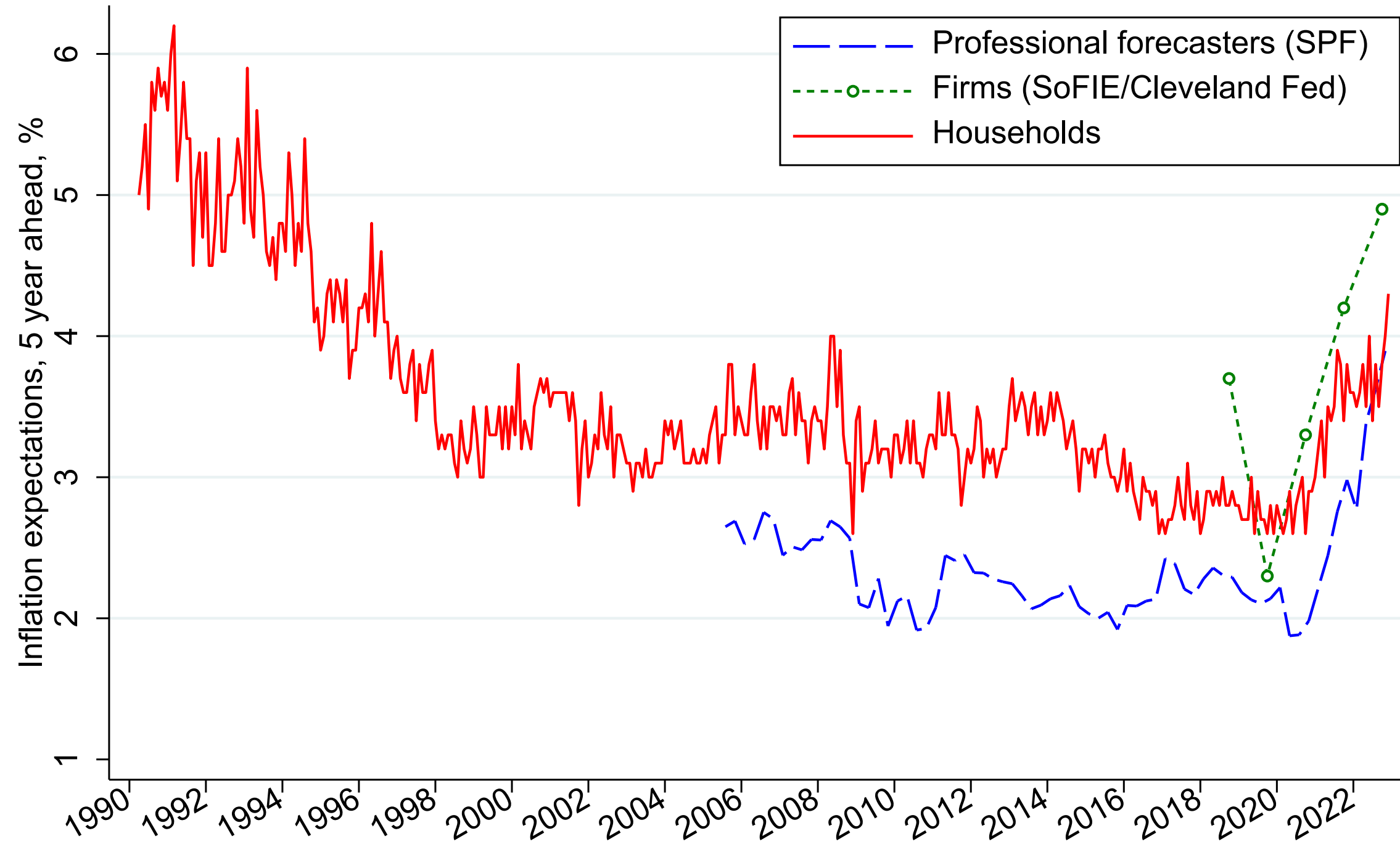
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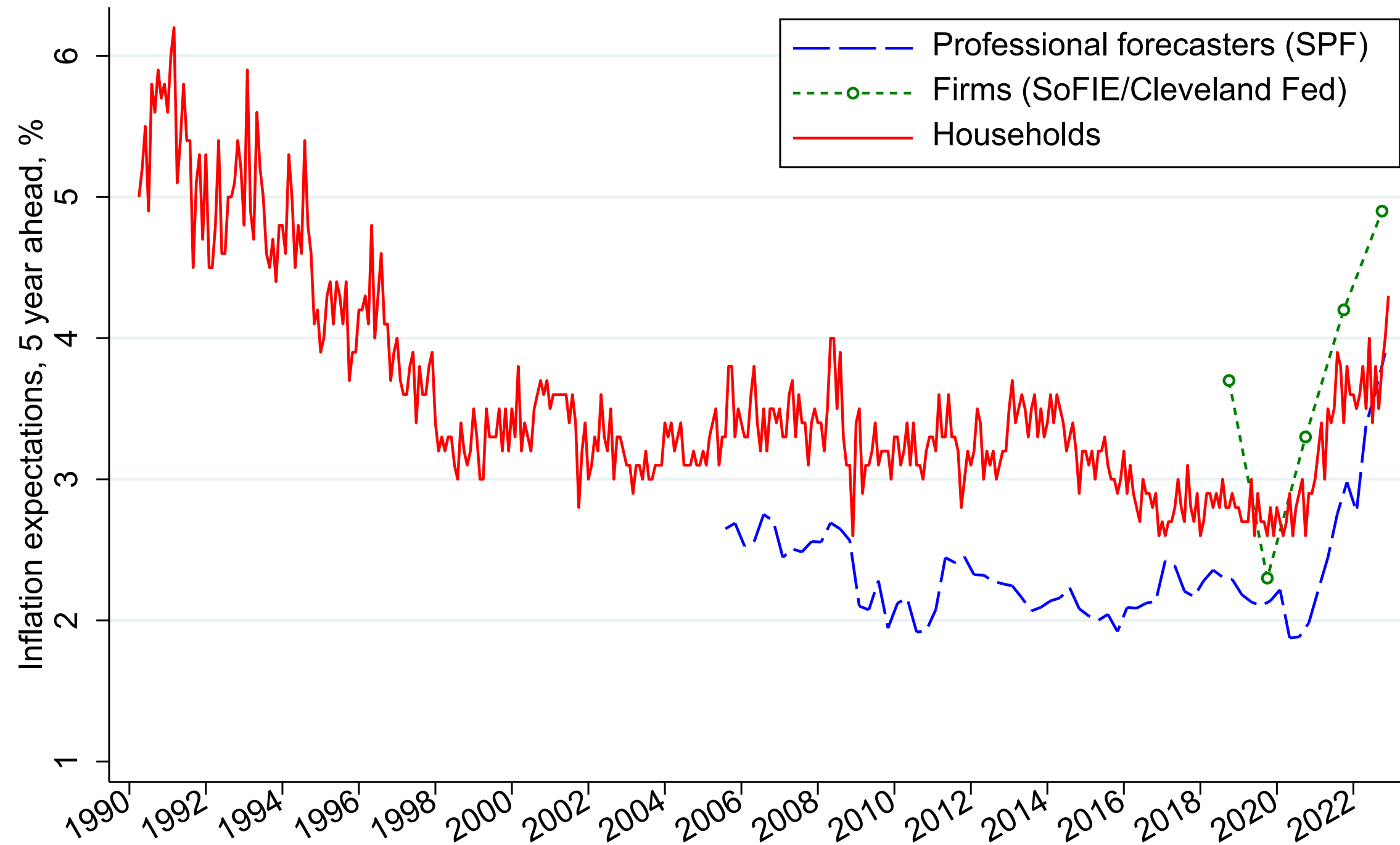


Jerome Powell (March 22, 2023): “Despite elevated inflation, longer-term inflation expectations appear to remain well anchored.”

LONG-TERM INFLATION EXPECTATIONS

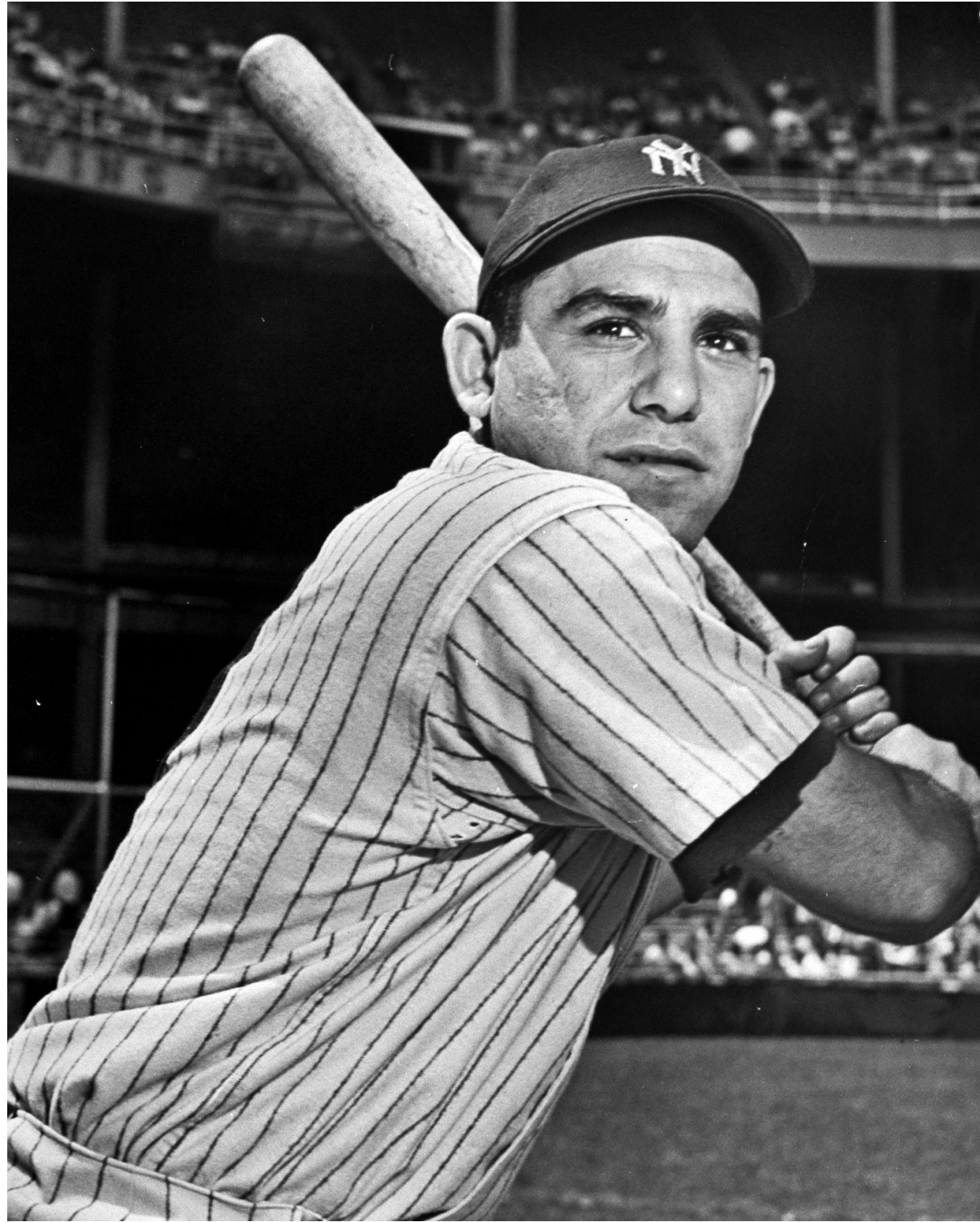


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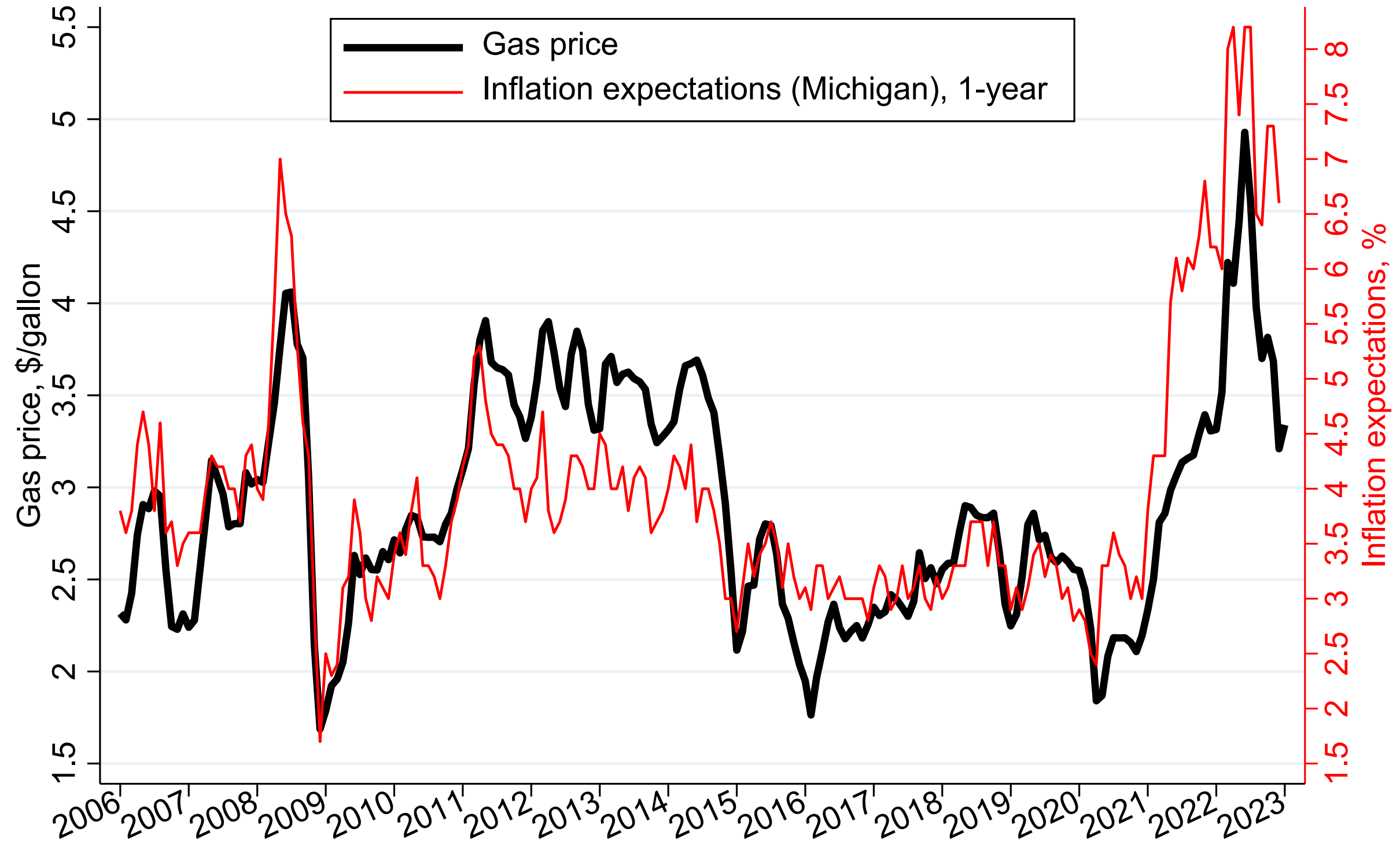
This paper: a statistical model of long-term inflation

CHALLENGES OF FORECASTING

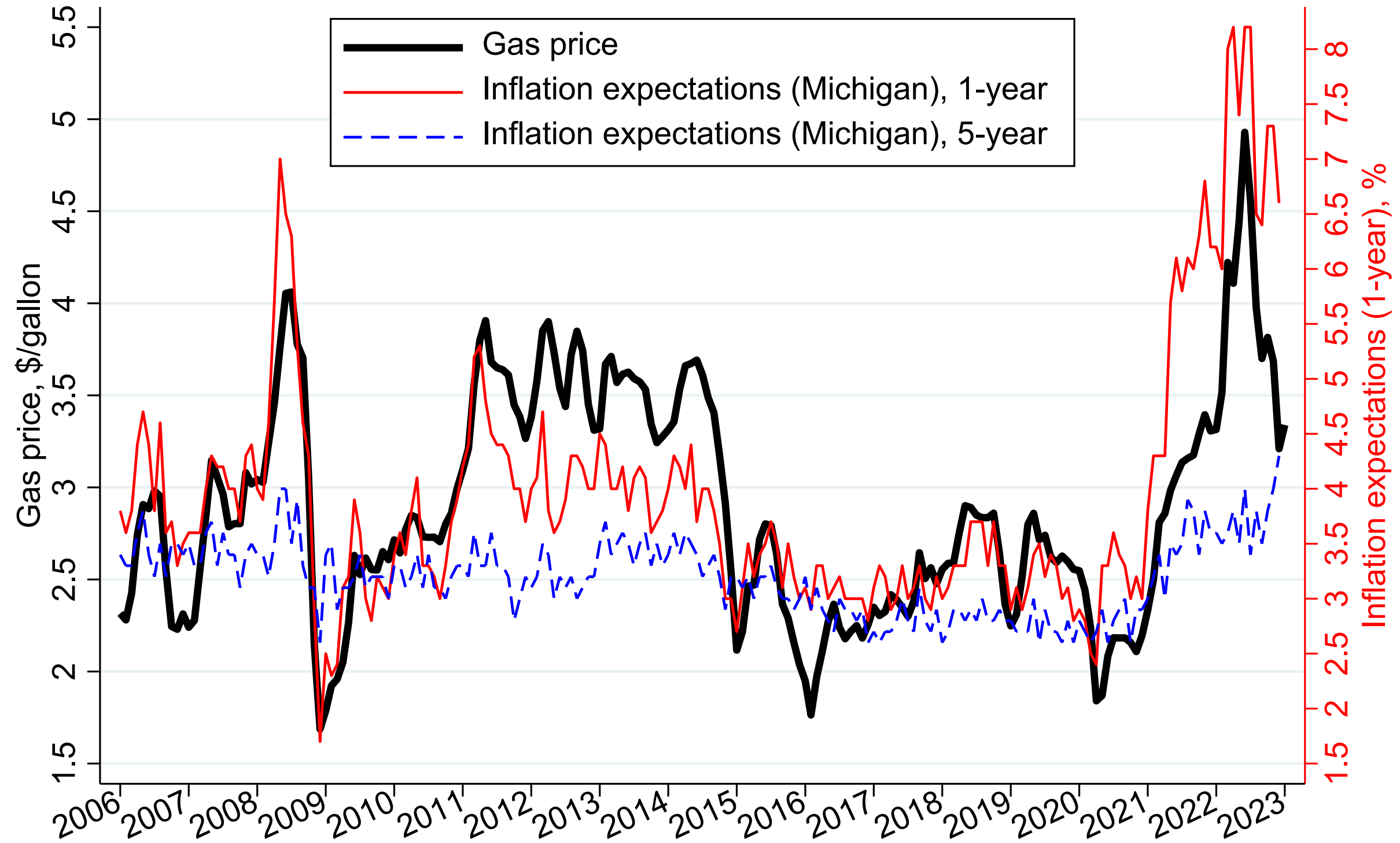


Yogi Berra: “It’s tough to make predictions, especially about the future.”

COMMENT #1: FUNDAMENTALS



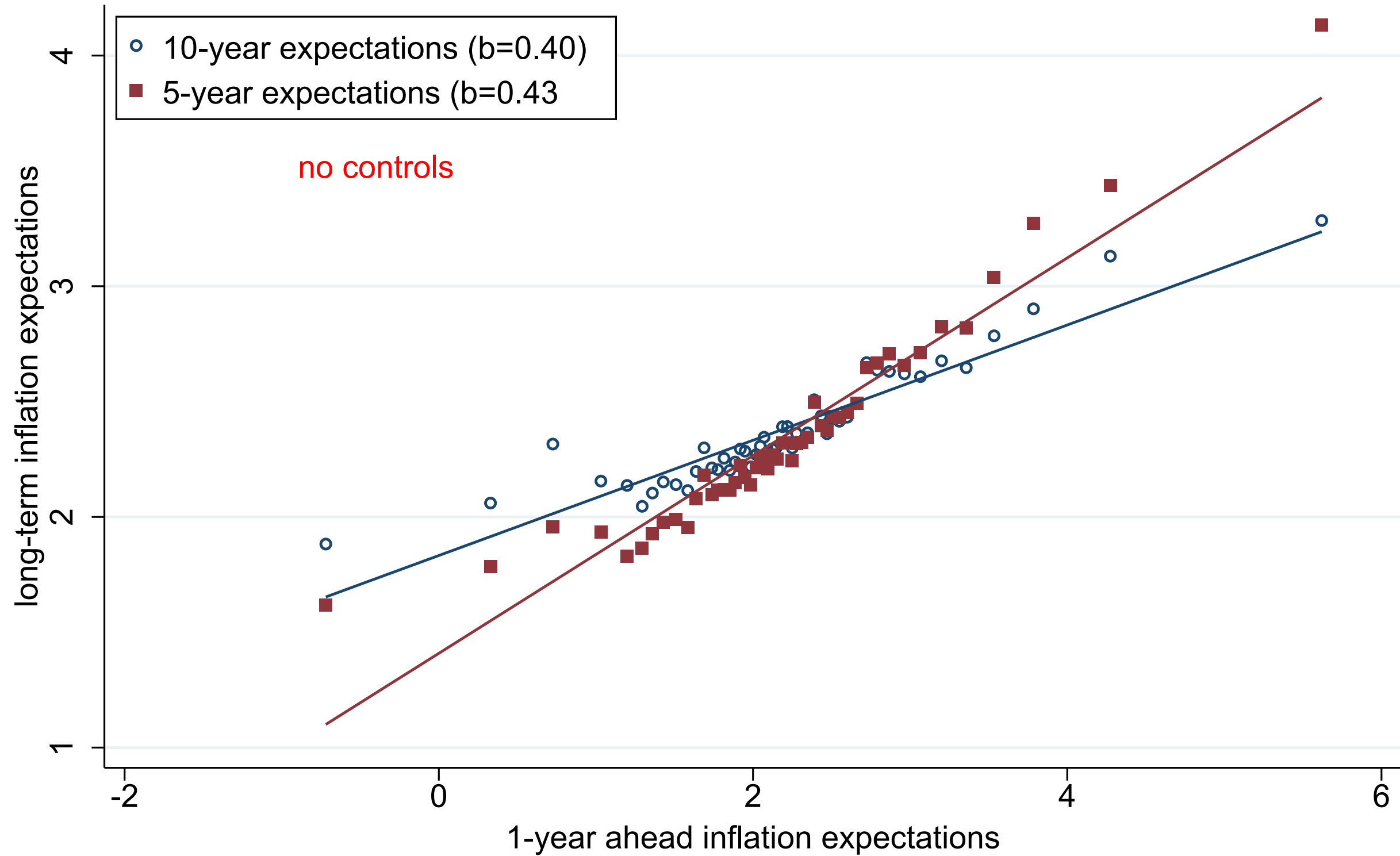
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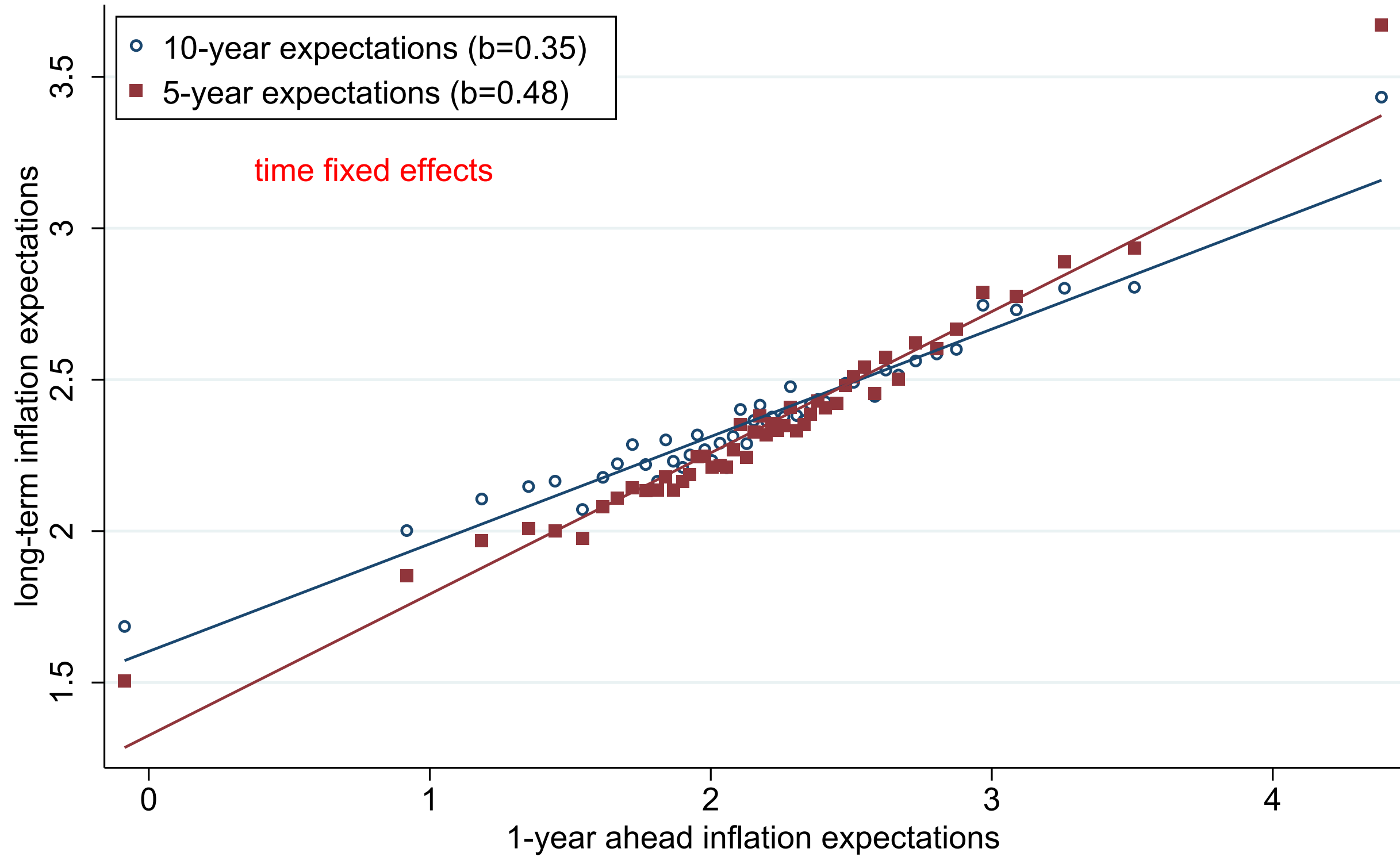
COMMENT #2: WHAT IS ANCHORED EXPECTATIONS?

- Beliefs are close to the inflation target
- Beliefs are not dispersed (little disagreement)
- Confidence in forecasts (small uncertainty)
- Small forecast revisions
- No comovement in long- and short-run expectations

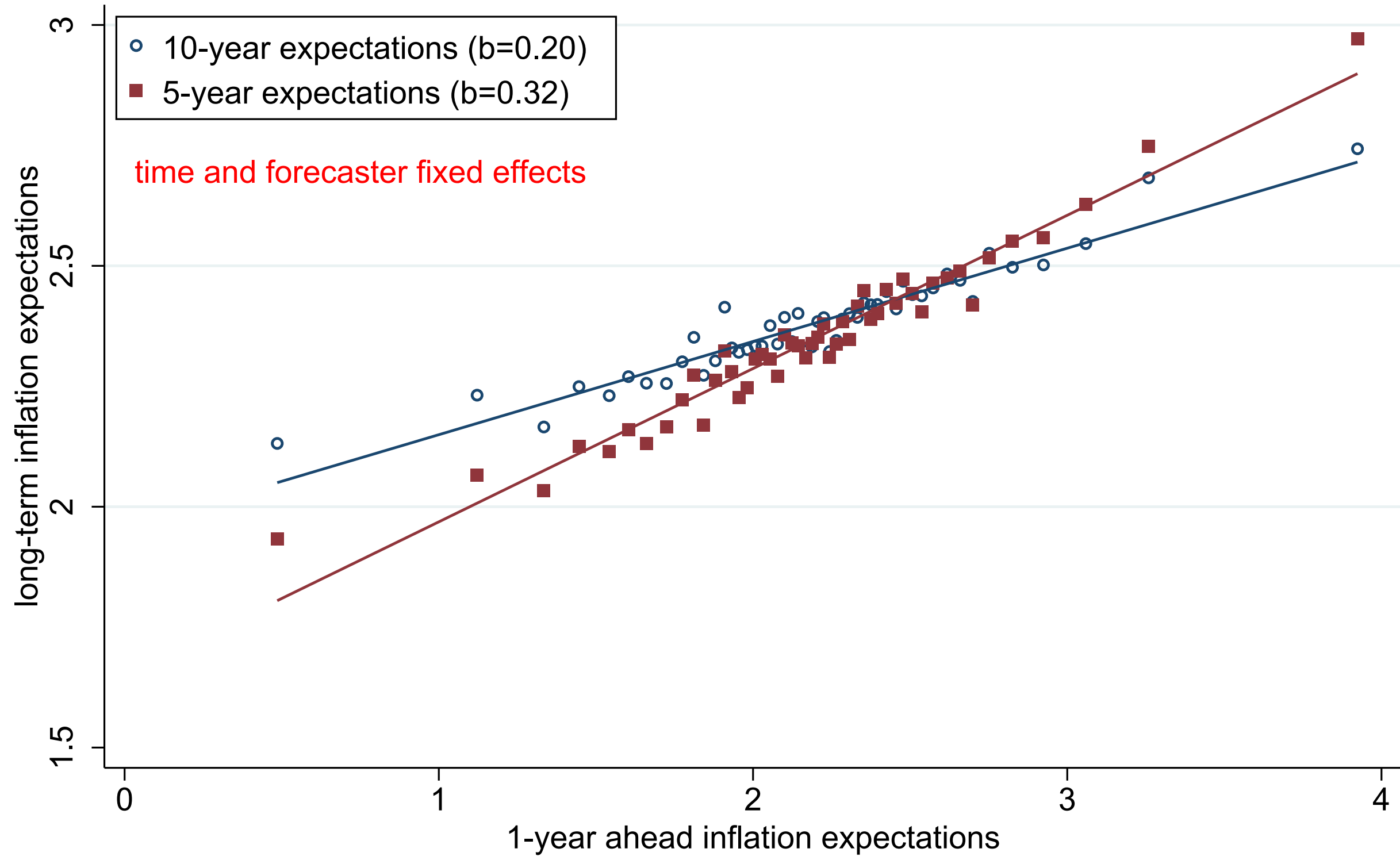
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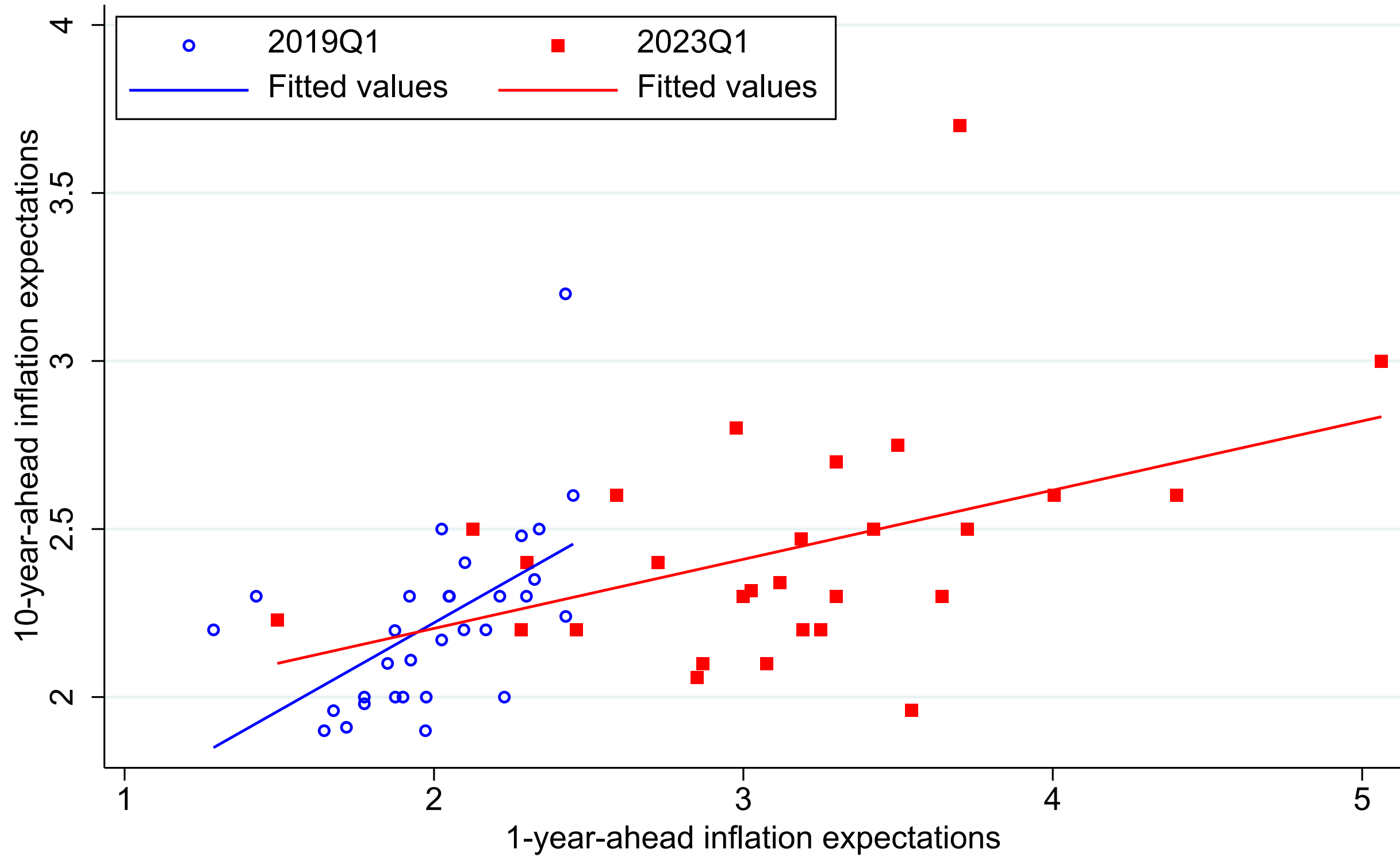
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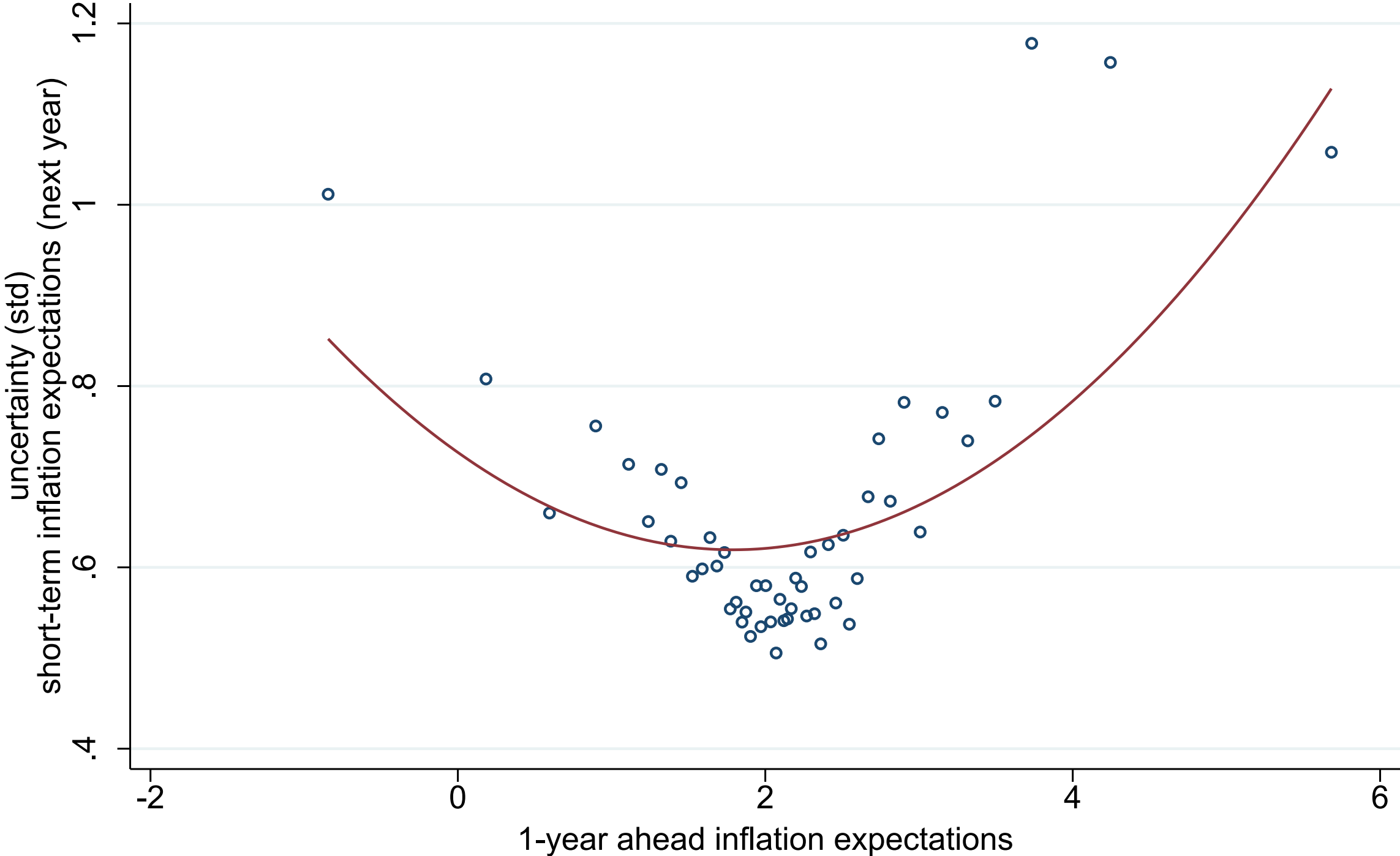
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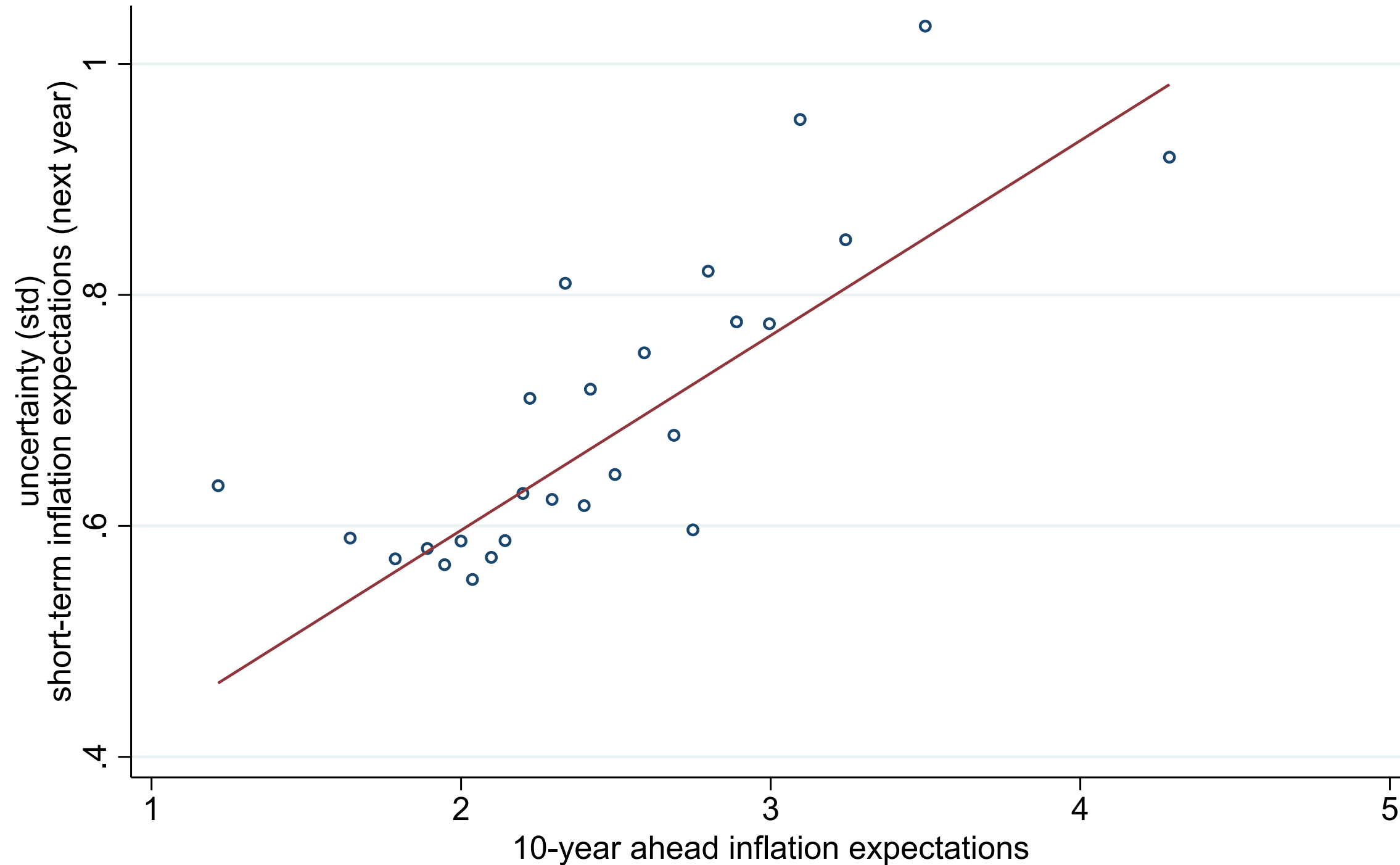


COMMENT #3: UTILIZE MORE INFORMATION FROM SPF



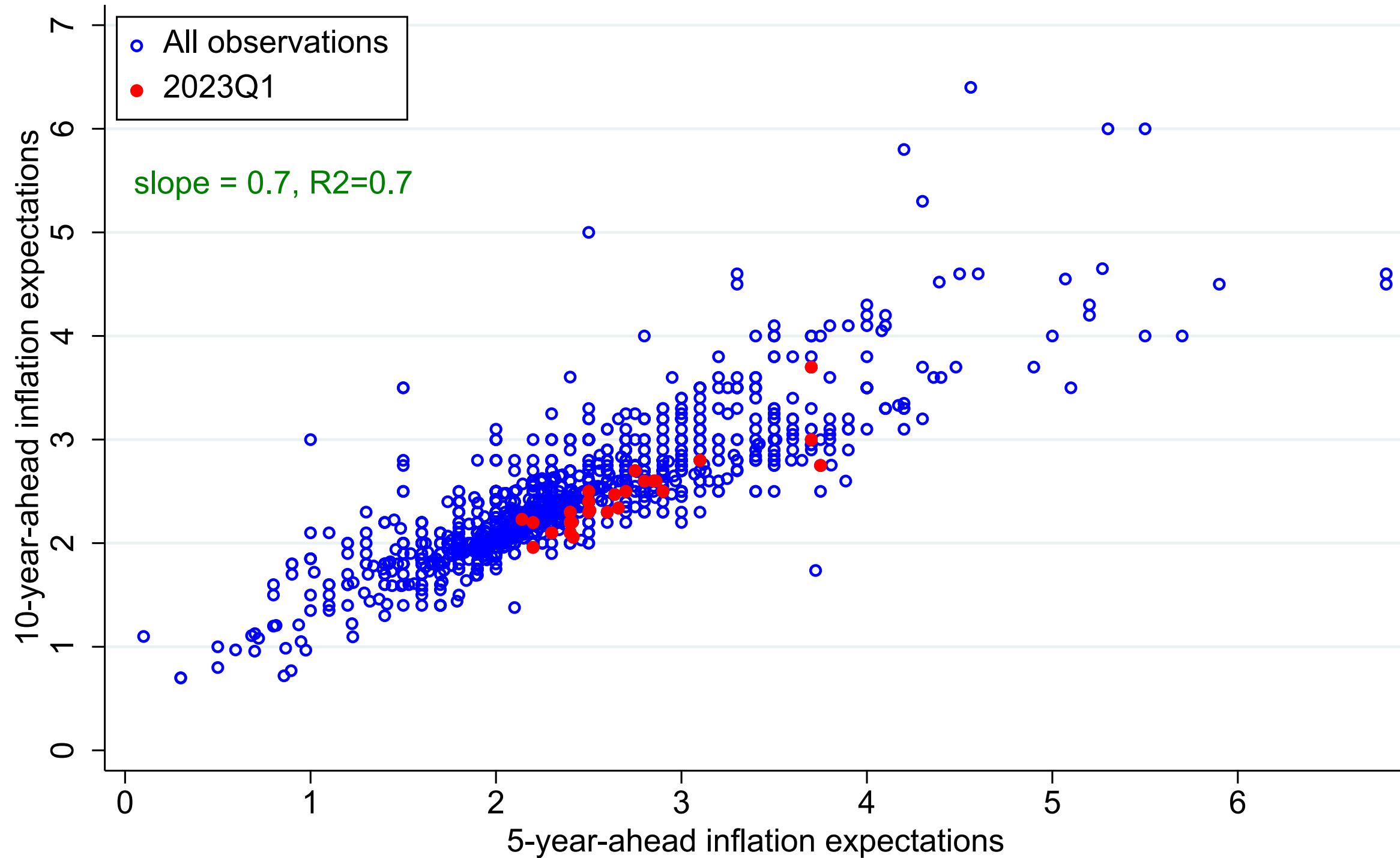
Uncertainty varies with the level of inflation

COMMENT #3: UTILIZE MORE INFORMATION FROM SPF



Short-term uncertainty is correlated with the level of LT inflation expectations

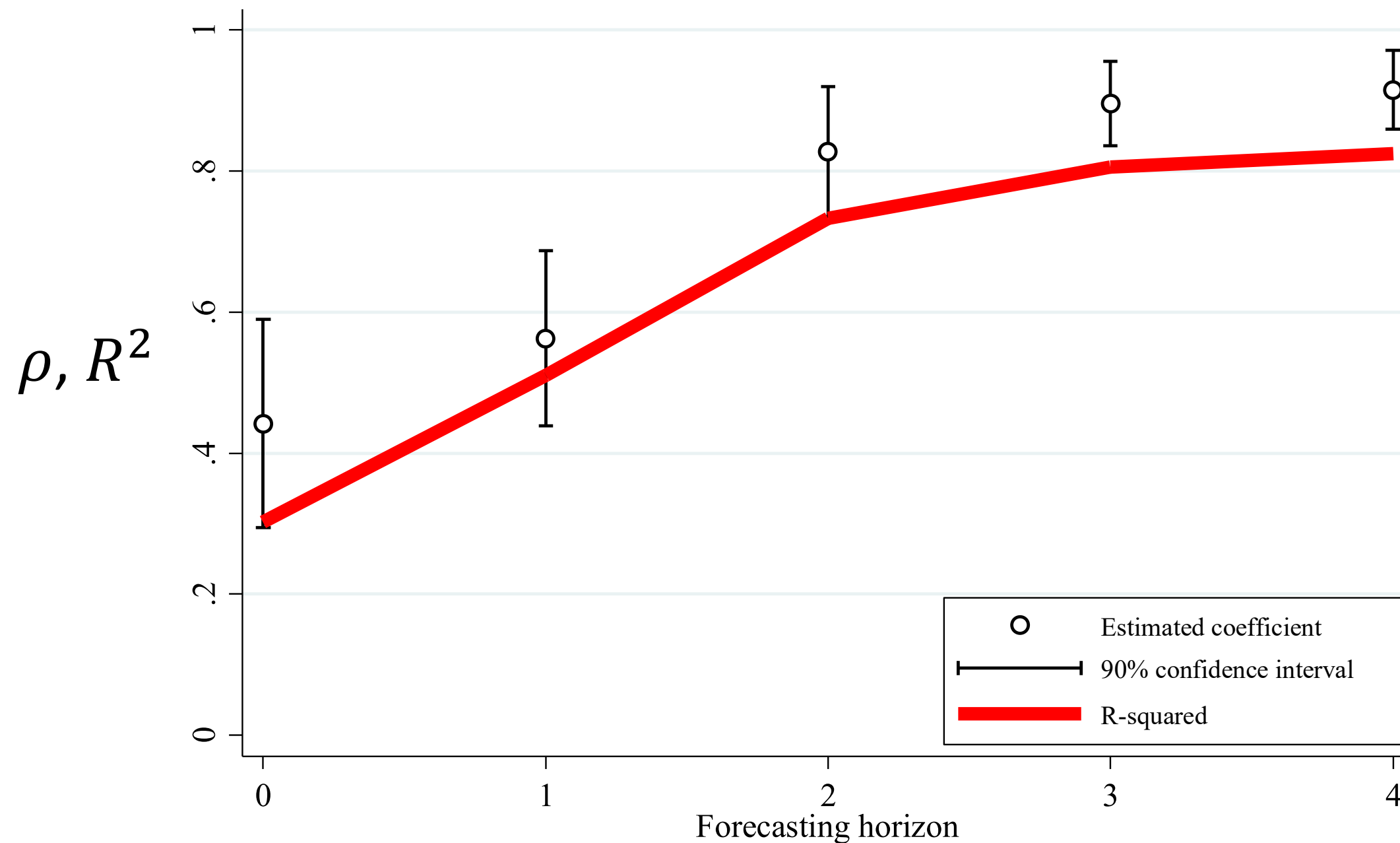
COMMENT #3: UTILIZE MORE INFORMATION FROM SPF



Why do 5- vs. 10-year expectations differ?

COMMENT #3: UTILIZE MORE INFORMATION FROM SPF

Term structure of inflation expectations: $\pi_{t+h|t}^i = \rho \pi_{t+h-1|t}^i + error$



source: Goldstein d
Gorodnichenko
(2021)

Note: p-value (equality of estimated coefficients) <0.01

COMMENT #4: FORWARD INFORMATION

Practice (SPF): (80% of forecasters do this according to a special survey of SPF)

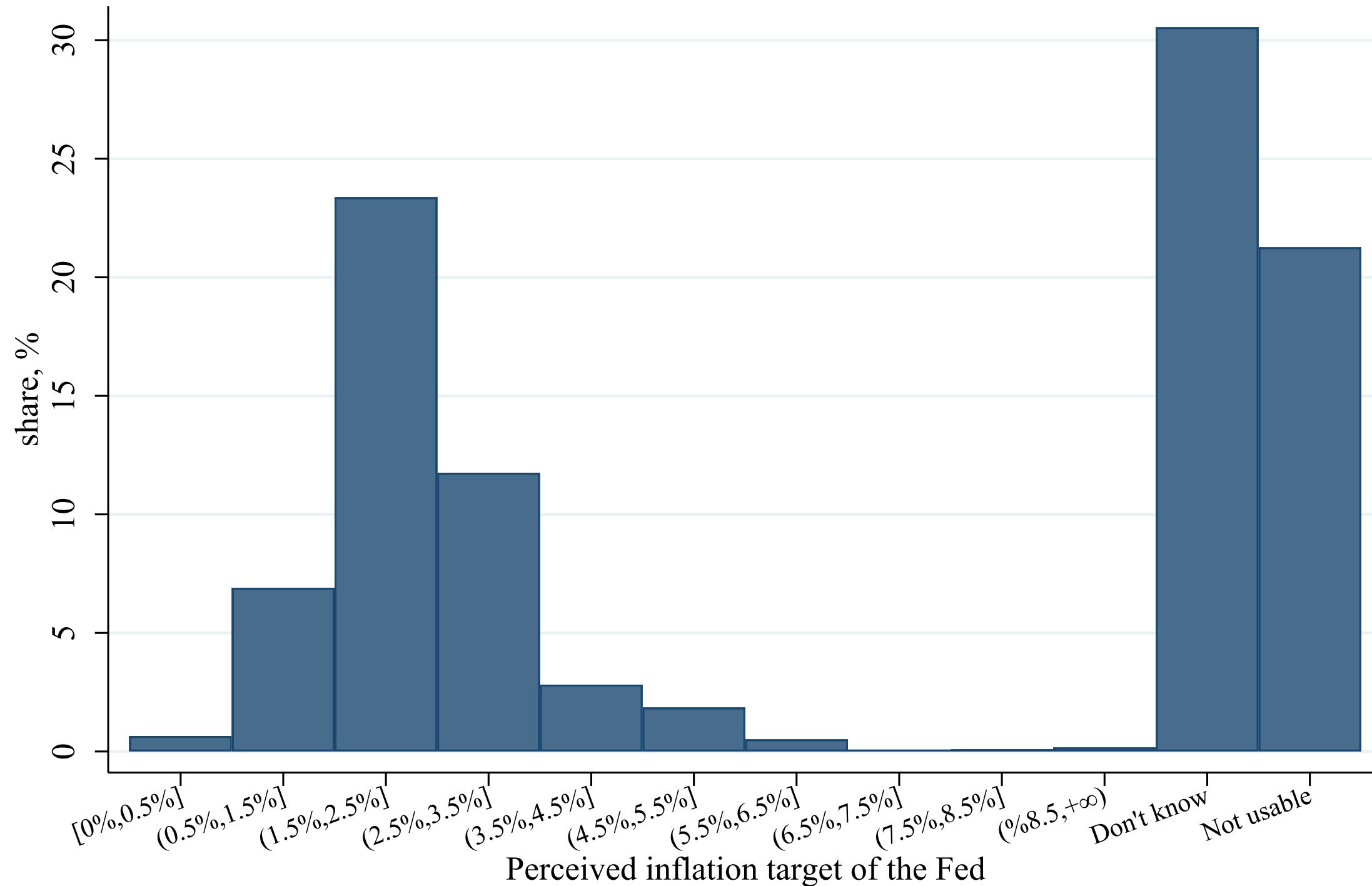
$$x_{t+h|t}^i = \rho^h x_{t|t}^i + \{add\ factor\}_{t,i,h}$$

OECD: An add-factor is the adjustment made to equation-based projection over the forecasting period. For example, if an equation has **under-predicted** a variable in recent periods, then an "add factor" may be added to the equation if it is **judged** that the equation will **under-predict** over the forecast period as well. In short, add factors are equation-**residuals** applied over the forecast period.

Larry Klein: "After the preparation of preliminary predictions from the ... Wharton-EFU Model, there is a discussion of the assumptions and properties of the prediction with business and government specialists. **A priori information** on **impending** labor disputes, hedge purchasing, production bottlenecks, major economic decisions and similar phenomena are then suggested for further modification of parameter or residual values, and a revised forecast is prepared."

Add factor is information about the future ("forward information", "news", etc.)

COMMENT #5: OTHER PLAYERS IN THE ECONOMY



source: Candia,
Coibion, and
Gorodnichenko
(2021)

Households and firms have little knowledge about the inflation target of the Fed.

CONCLUDING REMARKS

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 - Utilize more information
 - Forward information, news, etc.
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- A new sense of urgency \Rightarrow a very timely paper