

Inflation Expectations: Do we have **all** the story?

Jaime Jaramillo-Vallejo

Executive Director

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EXPECTATIONS:

Rational? Adaptive? Regressive? Whatever?

Stuborn post-Covid inflation >>> think outside of the box

 Look at other things that may be happening and that the traditional models do not capture properly.

THREE SPECIAL FEATURES OF COLOMBIA:

Indexation, especially in controlled prices

Anchoring of nominal contracts

Impact of supply shocks on expectations

INDEXATION

COLOMBIA: INDEXATION OF CPI ITEMS			
COLOMBIA: Indexed CPI Items	Weight in CPI (%)	Indexed to	
Group 1: Controlled prices indexed to CPI or Minimum Wage (MW)			
Tolls	0.15	CPI	
Auto and truck official inspections	0.12	MW	
Contribution to health insurance	0.07	MW	
Notary public services	0.06	CPI	
Subtotal	0.40		
Group 2: Controlled prices partially indexed to CPI, Producer Price Index (PPI) or Minimum Wage (MW)			
Utilities (Energy, Water, Trash removal, Sewage)	5.67	CPI, PPI, Other	
Publicly owned parking	0.32	CPI, Other	
Urban transport	4.62	CPI & MW	
Preschool and elementary schooling	1.46	CPI & MW	
Secondary schooling	0.92	CPI & MW	
Subtotal	12.99		
TOTAL 1	13.39		
Group 3: Partially controlled prices indexed to CPI, Producer Price Index (PPI) or Minimum Wage (MW)			
Housing rents *	10.60	CPI	
TOTAL 2	23.99		
* There is a legal cap on rent increases equivalent to inflation in the previous calendar year. The cap does not cover new rentals.			

NOMINAL CONTRACTS

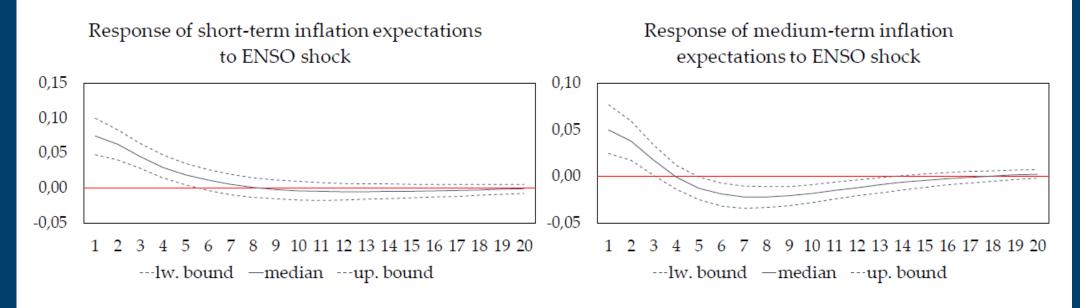
- Nominal signals: very strong impact on price and wage negotiations – beyond expectations
- Tradition in Colombia: government adjsuts
 minimum wage every end-year by previous year's
 inflation plus increase in productivity
- 2019 Minimum wage increase: 6.0% (2018 inflation: 3.18% Productivity incease: 0.52%
- 2022 Minimum wage increase: 10.07% (2018 inflation: 5.62% Productivity incease: 0.64%
- Median wage inceases across the economy end up the same as the minimum wage incease

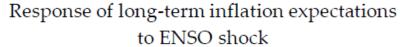
COLOMBIA: Wage Increases			
Percentile	2022	2019	
1%	0.00%	-4.18%	
5%	0.00%	0.00%	
10%	0.00%	0.00%	
25%	6.67%	3.18%	
50%	10.07%	6.00%	
75%	10.07%	6.00%	
90%	12.60%	7.64%	
95%	23.44%	15.49%	
99%	60.89%	52.54%	
Mean	9.93%	5.92%	
Std. Dev.	11.14%	10.15%	
Variance	1.24%	1.03%	
ource Banco de la Republica Estimates			

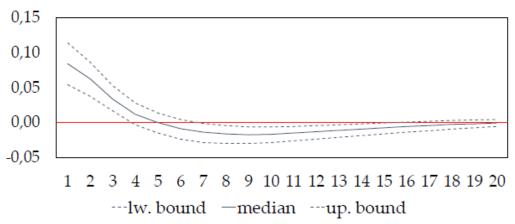
IMPACT OF SUPPLY SHOCKS ON EXPECTATIONS

- Fascinating research paper (Thanks Seco!):
 - Naranjo & Romero: Weather Shocks and Inflation Expectations in Semi-Structural Models (BR, Aug 22)
- Main finding: Supply shocks have an impact on expectations that:
 - Is independent of monetary policy stance
 - Lasts for two quarters after each shock
- Analysis based on El Niño Phenomenon, but perhaps may be extended to other supply shocks

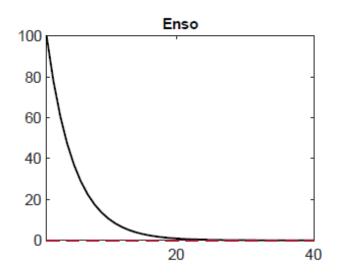
SUPPLY SHOCKS ON EXPECTATIONS

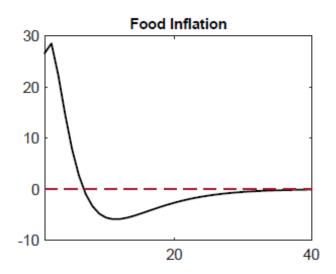


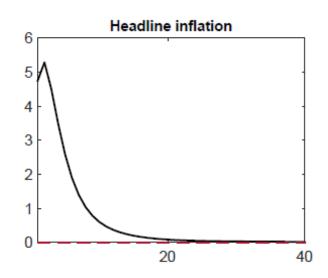


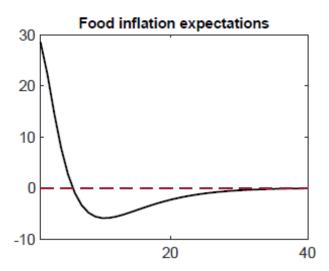


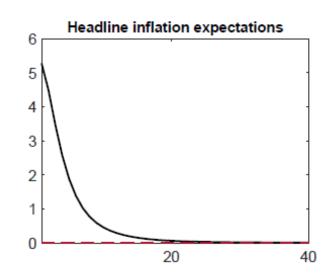
SUPPLY SHOCKS -- IMPULSES











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LET'S WORK ON IMPROVING OUR MODELS!

THANK YOU!