Potential Output, Cyclical Scars and Fiscal Policy

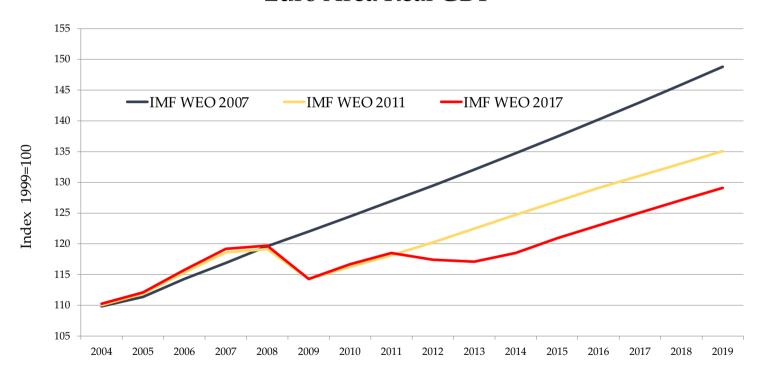
Antonio Fatás INSEAD

Scars

- "This crisis will likely leave **scars** well into the medium term" Gita Gopinath (October 2020)
- "Without further action, we risk a longer, more painful recession now—and **long-term scarring** of the economy later" Janet Yellen (January 2021)
- "Do Business Cycles Cast Long Shadows? Short-run Persistence and Economic Growth" (Fatas (1993 first draft)).

Scars and the GFC

Euro Area Real GDP

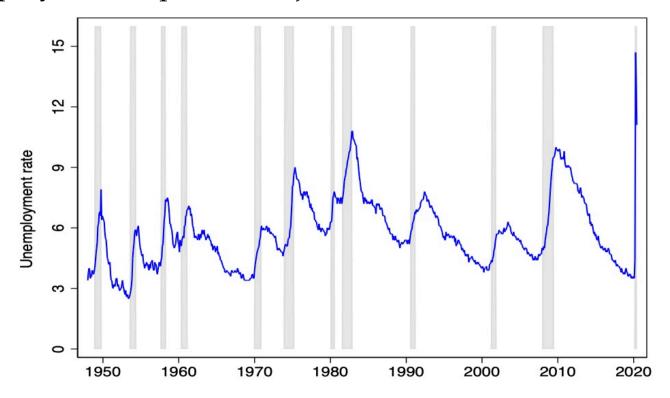


Scars and Academic Research

- Growth is endogenous and potentially can react to the business cycle + dynamics of labor markets can be very persistent
- Default model should be one where cyclical events have persistent or permanent effects (Hysteresis). Cerra, Fatas and Saxena (2020)
- Stabilization policy much more powerful than thought → Errors much more costly
- Should we add asymmetries? (plucking model)

Asymmetries (US)

• Full employment? Speed of adjustment?



Potential Output and Policy

- In the presence of a shock: how much is permanent, how much is cyclical?
- Captures magnitude of cyclical deviation and appropriateness of response
- Informs fiscal policy about need for future consolidation

The Fiscal Policy Framework

	Type of Shock		
	Permanent	Cyclical	
Stabilization	Undo AS (if any)	Let AS work. Add DP if necessary	
Sustainability	Large consolidation	Small consolidation (later?)	

AS = Automatic Stabilizers

DP = Discretionary policy

Mismeasurement of Potential Output

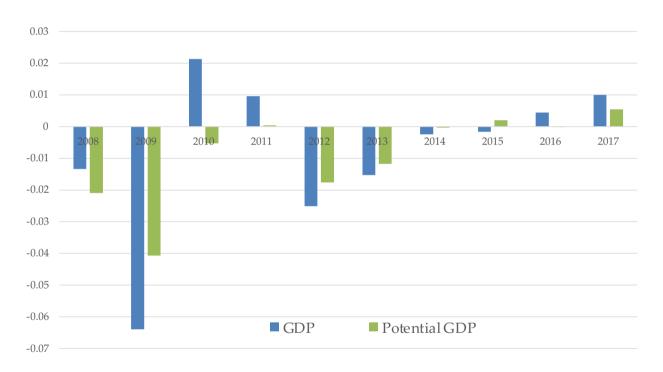
- Affects perception of permanent versus temporary nature of shock
- Affects measure of structural balance. This is both a target and *information* about fiscal stance. It can make reasonable policies look unreasonable.
- Two are related but not identical (e.g. procyclical tax elasticities)

Estimates of Potential Output

• Tend to be too procyclical

The 2008-2013 Shocks

Figure 2. Forecast Errors over 2-year horizon. Euro aggregate.



Estimates of Potential Output

- Tend to be too procyclical
- Errors are always costly but cost much larger in the presence of hysteresis as they leave permanent scars

Cyclical Turns Permanent

Table 5. Correlation forecast errors

6-Year Forecast Error Potential GDP (April 2010 WEO)			
	Europe	Euro	
	(1)	(2)	
2-Year Forecast Error	1.621***	1.848***	
GDP (April 2010 WEO)	(0.418)	(0.413)	
Constant	-0.0585***	-0.0648***	
	(0.0137)	(0.0179)	
Observations	26	18	
R-squared	0.341	0.384	

Robust standard errors in parentheses *** p<0.01, ** p<0.05, * p<0.1

Estimates of Potential Output

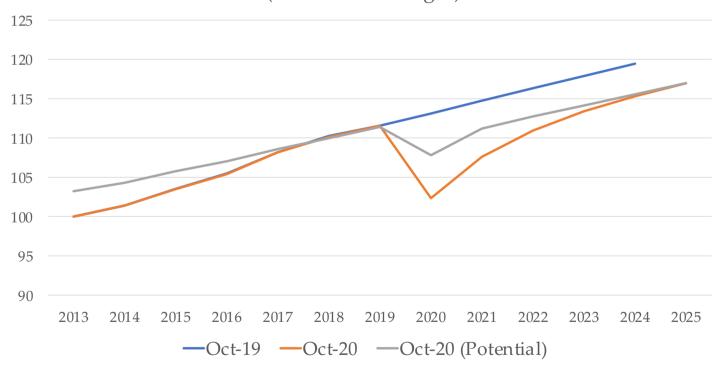
- Tend to be too procyclical
- Errors are always costly but cost much larger in the presence of hysteresis as they leave permanent scars
- Potential doom-loop: (Fatas (2019))
 - Assume no hysteresis
 - Use historical decomposition of permanent versus transitory shocks
 - Apply it to any current shock
 - Hysteresis can be entirely due to timid response of policy makers
 - But we will never find out: permanent effect of errors validates mistaken forecasts

Can we do better?

- Incorporate hysteresis in policy-relevant models
- Remember the possibility of self-defeating consolidation
- Academics need to do more work:
 - What drives growth?
 - The "hysteresis parameter"
- In the presence of uncertainty:
 - Rely on smoother potential output estimates (expenditure rules?)
 - Maximize stimulus (given other constraints such as political or market constraints)

The COVID-19 Recession

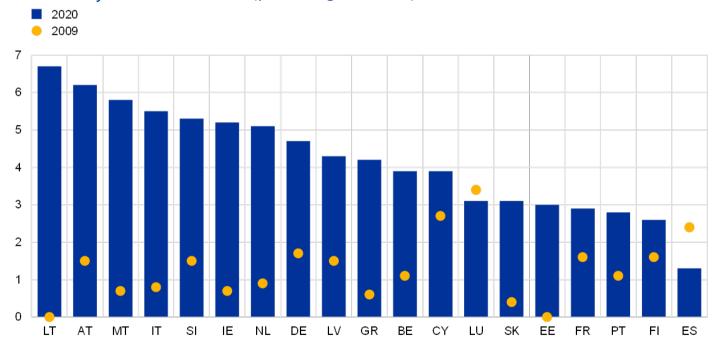
Euro Area Real GDP (IMF WEO Vintages)



The Response to the COVID-19 Recession

Chart 2

Sum of fiscal measures related to COVID-19 with a budgetary impact in 2020 compared with gross discretionary stimulus in 2009 (percentages of GDP)

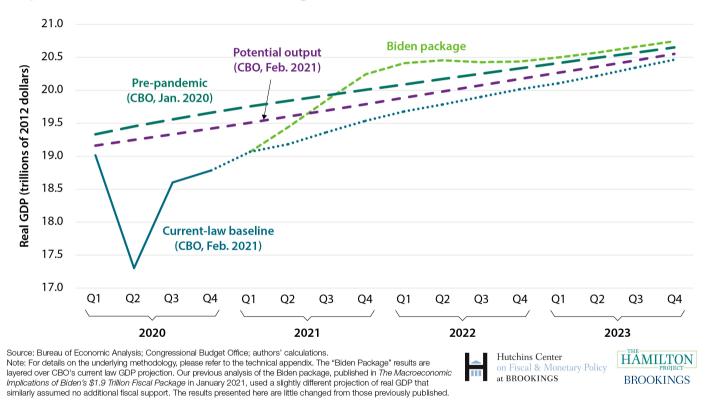


Source: https://www.ecb.europa.eu/pub/economic-bulletin/articles/2021/html/ecb.ebart202101_03~c5595cd291.en.html

An Experiment?

FIGURE 2

Projection of Real GDP under Biden Package and under Various CBO Paths



Source: https://www.brookings.edu/blog/up-front/2021/02/03/a-macroeconomic-analysis-of-a-senate-republican-covid-relief-package/

Concluding Comments

- Good to see scarring at the forefront of policy discussions
- Need for consensus on models incorporating hysteresis
- In the absence of consensus, time to err on the side of overheating?