Reflections on Secular Stagnation

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Outline

- I. Dismal post-crisis economic performance in the industrial world
- II. The secular stagnation hypothesis
- III. Why have real interest rates fallen?
- IV. Issues raised by secular stagnation hypothesis?
- V. What is to be done?

Downward Revision in Potential GDP, USA



Downward Revision in Potential GDP, Eurozone



Europe Mirrors Japan's Experience



Sources: OECD 1992 "Long Term Prospects For The World Economy", IMF 2007, 2007 & 2014 WEO Database

Falling Potential A Global Phenomenon

Change in 2013 Potential Output Estimate Since 2007



Recent U.S. Business Cycles Financially Unsustainable

U.S. Household Debt To Disposable Income



Sources: Federal Reserve, Bureau of Economic Analysis

European Credit Boom

Euro Area Private Credit To GDP



Sources: World Bank, Bloomberg

"Secular Stagnation" Dates To The 1930s



"This is the essence of secular stagnation - sick recoveries which die in their infancy and depressions which feed on themselves and leave a hard and seemingly immovable core of unemployment."

- Alvin Hansen, 1939

Liquidity Trap Framework



Possible Savings/Investment Curves



Nominal Interest Rate

Full Employment

Saving and Investment

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Private Investment Shortfall



Sources: IMF 2014 WEO Database

World Rates Have Fallen Steadily



As Have U.S. TIPS

U.S. Ten Year TIPS Real Yield



Large Rate Cuts Are Common

Fed Easings Since 1954

<u>Size of Easing</u>	<u>Occurrences</u>	<u>Frequency</u>			
2 Pct +	13	4.6 Yrs			
4 Pct +	8	7.5 Yrs			
5 Pct+	5	12 Yrs			

Demographics Challenging



Capital Investment Has Gotten Cheaper



Corporations Need To Invest Less

Fastest Growing* Fortune 50 Company						
			Cash	Сарех		
Year	Company	Fortune Rank	(Millions)		Cash/Capex Months	
1956	Republic Steel	21	80	107	9	
1963	ITT	41	78	123	8	
1973	Beatrice Foods	42	59	90	8	
1983	General Dynamics	46	159	215	9	
1993	Motorola	32	1,244	2,187	7	
2003	Walgreen	45	1,017	795	15	
2013	Apple	6	40,546	9,572	51	

* Fortune 50 nonfinancial company with the largest one year increase in Fortune ranking without a merger or major acquisition

Rising Reserve Accumulation

World Foreign Exchange Reserves



Increased Demand For Safe Assets

Incremental drivers of demand for high quality collateral include the following:

Incremental HQC Demand ¹	=	1. Prudential Regulation		2. Market Regulation (Derivative Clearing)		3. Market Regulation (Bilateral Margin)		4. Economic Environment / Uncertainty
		Increased prudential liquidity requirements	+	Increased IM requirements for cleared derivatives	+	Increased IM requirements for non-cleared derivatives	+	Cyclical HQC investment demand (FTQ flows)
		\$1.0-2.5tt ²		 \$0.8-2.0tt (normal)³ \$1.8-4.6tt (stressed)³ 		 \$0.8-1.2tt (normal)⁴ \$1.8-4.1tt (stressed)⁴ 		Varies (multi-\$trillions)
		Total "phased-in" potential incremental HQC demand (<i>normal market conditions</i>): Total "phased-in" potential incremental HQC demand (<i>stressed market conditions</i>): Flows					:	\$2.6-5.7tt \$4.6-11.2tt + FTQ

Rising Inequality



Lower Inflation and Tax Effects

- Consider investor in 40% tax bracket
- Pre-Tax Real Rate = $i \pi$
- Post-Tax Real Rate = (i) $(1-\tau)$ π

	Case 1 (inflation = 3%)	Case 2 (inflation = 1%)
Nominal Rate	5%	1.67%
Pre-Tax Real Rate	2%	0.67%
Post-Tax Real Rate	0%	0%

Rising Financial Intermediation Cost



Sources IMF October 2014 Global Financial Stability Report

Issues Raised By The Secular Stagnation Hypothesis

- Can equilibrium real interest rates really be subzero?
- Is the issue on the supply or demand side?
- Past fears of secular stagnation proved unfounded
- Isn't the United States approaching full employment?

Inflation Expectations



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Alternative Strategies

• Structural Reform

• Raise Spending

• Reduce Real Rates

Focus On Structural Reform

- Has been tried for years
- Risk of destabilizing deflation
- Inverse Say's Law Lack of demand reduces potential supply
- Political economy issues
- Increased competitiveness is a zero sum game

Focus On Increases In Spending

- Operates to raise equilibrium real interest rates
- Rational response to low real borrowing costs
- Major public investment gaps
- Investments likely to reduce debt burdens
- Remove barriers to private investment
- Measures to promote consumption and housing investment
- Measures to promote external adjustment in surplus countries

Infrastructure Investment Can Boost GDP 3 For 1



Sources: IMF October 2014 World Economic Outlook Ch.3 "The Macroeconomic Effects of Public Investment"

While Making Debt More Sustainable

Effect of 1%/GDP Debt-Financed Infrastructure Investment



But Has Been Hit By Austerity



Sources: US Bureau of Economic Analysis, Eurozone AMECO database

Monetary Policy

- How much scope at liquidity trap?
- More effective in conjunction with other measures
- Risks of bubbles and financial instability
- Backward bending supply of saving?
- Need for international coordination

Other Possible Responses

- Public equity investments
- Work sharing
- Population and immigration policies