

Escaping from deflation and a liquidity trap

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1

- Avoiding deflation
- Escaping from deflation and liquidity trap
- The foolproof way of escaping from a liquidity trap
- Comparison with other proposals

2

Avoiding deflation

- Positive credible inflation target
 - Margin for deflation
- Inflation-forecast targeting
 - Looking ahead, responding in time, preemption
- Price-level targeting vs. inflation targeting
 - Unanticipated fall in price level below target: Automatic increase in inflation expectations, fall in real interest rate

3

Escaping from deflation and liquidity trap

- Deflation and recession: Expansionary stabilization policy
- Expansionary fiscal policy
 - Increase aggregate demand: Fiscal expansion (money financed, Ricardian equivalence)
 - Lower “effective” real interest rate: Time-varying VAT/investment credits (Stiglitz, Feldstein)

4

- Expansionary monetary policy (exchange-rate policy)
 - Create inflation expectations, lower real interest rate (short and long)
 - Currency depreciation (net export, UIP: lower real interest rate)
 - Increase other asset prices (long bonds, equity, property)

Means

- Positive inflation target (Krugman, Posen)
- Monetary base expansion (Meltzer)
- Tax on money (Goodfriend, Buiter)
- Currency peg (McKinnon)

5

- Currency depreciation
 - * Monetary-base expansion, FX interventions, portfolio-balance (PB) effect (Meltzer, Bernanke, Orphanides-Wieland)
 - * Exchange-rate rule (McCallum)
 - * The foolproof way (FPW): Price-level target, temporary depreciation/peg, exit strategy (Svensson)

6

The foolproof way of escaping from a liquidity trap

- Academic article, *Monetary and Economic Studies* 19(S-1), February 2001, 277-312: “The Zero Bound in an Open-Economy: A Foolproof Way of Escaping from a Liquidity Trap”
- Non-technical summary of Graham Lecture, Princeton University, April 5, 2001: “The Foolproof Way of Escaping from a Liquidity Trap: Is It Really, and Can It Help Japan?”
- FT Personal View, Sep 25, 2001: “How Japan Can Recover”
- FT editorial, Oct 1, 2001: “Let the Yen Fall”
- www.princeton.edu/~svensson/japan/japan.htm

7

1. Announce price-level target path, upward slope = inflation target
 - Best nominal anchor: Avoid run-away inflation
 - Undo “price-level gap”
 - Provides exit strategy from exchange-rate peg
2. Announce depreciation and temporary exchange rate peg
 - Jump-start economy, increase output and price level
 - Sizeable initial real depreciation
 - Feasible (initial excess demand for currency)
 - Expected real appreciation
 - Inflation expectations
 - Lower real interest rate
3. Announce exit strategy: When price-level target path reached, shift to float and inflation/price-level targeting

8

Comparison with other proposals

- Krugman: Announce inflation target, future monetary expansion
 - Why credible?
 - Price-level target path better anchor than inflation target
 - * Accumulated inflation: Avoid run-away inflation
 - * Long-run inflation expectations independent of timing
 - * Price gap to undo
 - Devaluation and exchange-rate peg demonstrates commitment
 - * Do, not just say
 - * Induces expectations of real appreciation and inflation

9

- Meltzer, McCallum, Bernanke: FX interventions/open-market operations to depreciate currency
 - Temporary peg more structure, benchmark
 - Portfolio-balance effects (endogenous risk premia) not needed
 - McCallum reaction function

$$\tilde{s}_t = s_{t-1} + \nu_0 - \nu_1(\pi_{t,t-1} - \pi^*) - \nu_2(x_{t,t-1})$$

- * Time-varying exchange-rate target/instrument \tilde{s}_t :
Commitment to buy/sell unlimited amounts of FX at time-varying rate \tilde{s}_t
- * More complex commitment and benchmark, less verifiable
- * Parameter values?
- * Interest-rate setting?
- * Exit strategy?

10

- McKinnon: Permanent bilateral peg
 - Would escape liquidity trap by $i_t = i_t^*$
 - No real depreciation to jump-start economy
 - No price gap to undo
 - Sustainable?
 - Optimal?
 - Temporary peg, exit strategy
 - Unilateral

11

- Quantitative easing (Meltzer, Nakahara, current BOJ, Orphanides-Wieland)
 - Money and T-bills (close to) perfect substitutes
 - Volumes, targets?
 - Exit strategy?

12

- Coenen-Wieland C-R 2002: 3-region model, deflation/liquidity trap in Japan, comparison of 3 proposals,
 - Orphanides-Wieland: Monetary base expansion
 - McCallum: Exchange-rate rule
 - Svensson: The foolproof way
 - All work
 - FPW works even if it starts 11 qtrs into deflation/recession
 - * Especially if crawling peg
 - Relatively small international effects on inflation and output gaps
- FPW not just direct stimulus of net export and direct effect on CPI

13

Political problems (Japan, region, US)

- Beggar thy neighbor? Regional and US reactions?
 - Lower long-run real interest rate requires real depreciation
 - Current-account effects of real depreciation ambiguous
 - Region, U.S. and world gain in long run
- Other policy changes/reforms needed for Japan
 - Financial-sector clean-up (Swedish way)

14

Summary

- Avoiding deflation/liquidity trap feasible
- Escaping deflation/liquidity trap feasible: There is a foolproof way
- It can help Japan (but is not enough alone)
- Any political problems can be solved

15