

**INFLATION TARGETING:
LESSONS FROM THE
INTERNATIONAL EXPERIENCE**

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OUTLINE

! The Role of a Nominal Anchor

! Inflation Targeting: Theory

! Inflation Targeting: Experience and Lessons

- Industrialized Countries
- Emerging Market Countries

! Inflation Targeting: Operational Design

! Discussion of IMF Conditionality

THE ROLE OF A NOMINAL ANCHOR

! Ties Down π Expectations

! Helps Avoid Time-Inconsistency Problem

- Time-Inconsistency Resides More in Political Process
- Nominal Anchor Limits Political Pressure for Time-Inconsistency

BASIC MODEL (Svensson, 1997)

$$\Pi_t = \Pi_{t-1} + \alpha_1 y_{t-1} + \varepsilon_t \quad (1)$$

$$y_t = \beta_1 y_{t-1} - \beta_2 (\dot{i}_{t-1} - \Pi_{t-1}) + \eta_t \quad (2)$$

Central Bank Minimizes Loss Function

$$E_t \ni \delta^{\tau-t} L_\tau \quad (3)$$

$$L_\tau = (\Pi_\tau - \Pi^*)/2 + \lambda y/2 \quad (4)$$

Yields "Taylor Rule"

$$\mathbf{i}_t = \Pi_t + \mathbf{b}_1(\Pi_t - \Pi^*) + \mathbf{b}_2 y_t \quad (5)$$

INFLATION TARGETING

! 5 Elements

1. Public Announcement of Medium-Term π -target
2. Institutional Commitment to Price Stability
3. Information Inclusive Strategy
4. Increased Transparency through Public Communication
5. Increased Accountability

! Inflation Targeting is *Much More* than 1.

INFLATION TARGETING ADVANTAGES

! Allows Focus on Domestic Concerns and Mitigate Shocks

**! Uses All Available Information,
Not Dependent on Stable M-PY Relationship**

- If $\lambda=0$ in (4), then i set so that

$$E_t \pi_{t+2} = \pi^* \quad \text{i.e, "Inflation Forecast Targeting"} \quad (7)$$

- If $\lambda > 0$, then i set according to Taylor Rule in (5) and

$$E_t \pi_{t+2} - \pi^* = c(E_t \pi_{t+1} - \pi^*) \quad (8)$$

"Flexible Inflation Forecast Targeting": What is Done

INFLATION TARGETING ADVANTAGES

! Easily Understood and Transparent

- Better than M-target if M-PY Relationship Unstable

INFLATION TARGETING ADVANTAGES

! Increases Accountability

- Focus Debate to Reduce Political Pressures to Inflate
- Reduces Time-Inconsistency Problem
- But Need Institutional Commitment to Price Stability
 1. Insulation of Central Bank from Politicians
 2. Central Bank Instrument Independence
- Requires Regular Communication with Public, e.g., π -Report, Testify to Congress, etc.

**INFLATION TARGETING
DISADVANTAGES:
Non-Serious**

! Rigid Rule

! Too Much Discretion

- No for Both: Is "Constrained Discretion"

**! May Increase Output Fluctuations with Sole Focus
on π**

- Not way it is practiced

! Produces Low Growth

- Opposite after Disinflation

**INFLATION TARGETING
DISADVANTAGES:
Serious**

! Weak Accountability at "High" π : π hard to control

- Phase in Slowly
- Controlled Prices require coordination on timing and magnitude of changes

! Does Not Prevent Fiscal Dominance

- Helps if Govt Helps Set Target

INFLATION TARGETING DISADVANTAGES: Serious

! Partial Dollarization with Flex Rates a Potential Problem

- Depreciation => \$ Debt Burden & => Financial Crisis
- "Benign Neglect" toward Exchange Rate Problematic
- Increased Concern with Prudential Supervision

INFLATION TARGETING DISADVANTAGES: Serious

! See this by modifying model to allow for exchange rate effects

$$\Pi_t = \Pi_{t-1} + \alpha_1 y_{t-1} + \alpha_2 e_{t-1} + \varepsilon \quad (1')$$

$$y_t = \beta_1 y_{t-1} - \beta_2 (\dot{i}_{t-1} - \Pi_{t-1}) + \beta_3 (e_{t-1} - e_{t-2}) + \eta \quad (2')$$

$$e_t = \varphi \dot{i}_t + u_t \quad (9)$$

Optimal Policy sets i with Modified Taylor Rule

$$i_t = \pi_t + b_1(\pi_t - \pi^*) + b_2 y_t + b_3 e_t \quad (5')$$

- If $\lambda > 0$, then i set according to Taylor Rule in (5) and

$$E_t \pi_{t+2} - \pi^* = c(E_t \pi_{t+1} - \pi^*) \quad (8)$$

- Continue to get "Flexible Inflation Forecast Targeting"
- Same Result if Worry About Financial Stability

INFLATION TARGETING: EXPERIENCE AND LESSONS INDUSTRIALIZED COUNTRIES

HAS INFLATION TARGETING BEEN A SUCCESS?

YES

**! Inflation Targeting Has Been Successful in
Controlling Inflation.**

! π Reduced

! Lower than Forecast with Pre-Regime VARs

HAS INFLATION TARGETING BEEN A SUCCESS?

! Inflation Targeting Weakens the Effects of Inflationary Shocks.

! No Ratcheting Up of π

- After GST (VAT) Tax Increase in Canada in 1991
- After Sept. 1992 Devaluation in UK and Sweden

HAS INFLATION TARGETING BEEN A SUCCESS?

! Inflation Targeting Can Promote Growth and Does Not Lead to Increased Output Fluctuations.

! Once Disinflation Achieved, Growth is High

! Output fluctuations no higher

HAS INFLATION TARGETING BEEN A SUCCESS?

! Inflation Targets Do Not Necessarily Reduce the Cost of Reducing Inflation.

! π Expectations Don't Immediately Fall After Adoption

! Sacrifice Ratios No Lower in Industrialized Countries

! Tentative Evidence that Cost of Reducing π is Lowered in Transition from Moderate to Low π in EM Countries

INFLATION TARGETING: EXPERIENCE

TRANSPARENCY AND ACCOUNTABILITY

!The Key to Success of Inflation Targeting is It's Stress on Transparency and Communication with the Public.

! Stress on Transparency and Communication

- Inflation Reports

- 1. Goals and Limitations of Monetary Policy**
- 2. How Targets to Be Achieved**
- 3. Reasons for Deviations from Targets**

- Speeches

- Testimony to National Parliaments
- Glossy Brochures

TRANSPARENCY AND ACCOUNTABILITY

! Inflation Targeting Increases Accountability Which Helps Ameliorate the Time-Inconsistency Problem.

! Focus Public Debate on Appropriate Long-Run Issues

! Lowers Political Pressure for Time-Inconstant M-policy

TRANSPARENCY AND ACCOUNTABILITY

! Increased Transparency and Accountability Under Inflation Targeting Helps Promote Central Bank Independence.

- ! Provides Benchmark to Evaluate Monetary Policy

- ! Led to Independence of Bank of England

- ! 1996 Debate Increased Support for Bank of Canada

TRANSPARENCY AND ACCOUNTABILITY

! Accountability to the General Public Seems to Work as Well as Direct Accountability to the Government.

! Direct Accountability to Government in New Zealand
Doesn't Work Better than Less Formalized
Approaches

TRANSPARENCY AND ACCOUNTABILITY

! Inflation Targeting is Consistent with Democratic Principles.

! Instrument but Not Goal Independent

- Greater Oversight =>
Policies Consistent with Society's Interests

INFLATION TARGETING EMERGING MARKET EXPERIENCE

! Chilean Experience with Gradual Hardening quite Successful

- Inflation from above 20% in 1991 to 3% now
- Growth very High until Target Undershot Recently

M-policy too tight in response to 1998 shocks
Too Much Focus on Exchange Rate,
Eased in 1999 and Decreased Exchange Rate Focus

- Adopt Full π -Targeting Regime Only in May 2000

INFLATION TARGETING EMERGING MARKET EXPERIENCE

! Brazil has all "Bells and Whistles"

- Shows that this can be implemented quickly - 4 months

- Jury is not out:

 - Has worked better than expected

 - Fiscal policy and independence of central bank unclear

! Mexico and Peru moving toward Inflation Targeting

! Colombia: No demonstrated commitment to

Inflation Control

- Inflation Targeting Has to Be Done Right

INFLATION TARGETING LATIN AMERICAN EXPERIENCE

! Sound Financial System Key to Success

- Rigorous Prudential Supervision Key to Success for Chile
- Mexico ? and Peru

! Fiscal Discipline Key to Success

- Problem for Brazil and Colombia
- Multi-year π Targets with Govt help, but not enough

INFLATION TARGETING: OPERATIONAL DESIGN

! Inflation Targeting is Far From a Rigid Rule.

! No Mechanical Instructions

! Flexible, Targets Modified

! "Constrained Discretion"

OPERATIONAL DESIGN

**! Inflation Targets Have Always Been Above Zero
With No Loss of Credibility.**

- ! Midpoints of Target Ranges Between 1 and 3%
- ! No loss of Credibility
- ! Optimal Level of π Still Controversial

OPERATIONAL DESIGN

! Inflation Targeting Does Not Ignore Traditional Stabilization Goals.

! π -Targeters Not "Inflation Nutters"

- Do Express Concerns About Output
- Gradual Convergence to Long-Run π -Goal => Weight on Output Fluctuations (Svensson, 1997)
- Stabilization Goals in Appropriate Long-Run

Context

OPERATIONAL DESIGN

! Undershoots of the Inflation Target are as Important as Overshoots.

! π -Targeters (Canada) emphasize Floor of Target as much as Ceiling

- Avoids Characterization as "Inflation Nutter"

! π -Target Helps Stabilize Economy because it makes it Easier for Central Bank to Respond to Negative Demand Shocks Without π^e Rising

- Helped Australia React Quickly to East Asian Crisis

! ECB Needs Clearer Communication that Floor is 0%

OPERATIONAL DESIGN

! When Inflation is Initially High, Inflation Targeting May Have to be Phased in After Disinflation.

! π -Targeting Phased in After Successful Disinflation

- Both in Industrialized and EM Countries
(see Chile later)

! Reason:

- Credibility at High π Low

- Harder to Control π at High π

OPERATIONAL DESIGN

! Edges of Target Range Can Take on a Life of Their Own.

! New Zealand Focus on Narrow Misses, 1995

! UK Chancellor of Exchequer Resists Tightening in 1995
Because π still below 4% Ceiling

! Focus on Edges, Not Midpoint => Bizarre Objective

! Argues for Point Target (with report to Parliament when Miss is Big)

OPERATIONAL DESIGN

! Too Short a Horizon and a Narrow Range Can Lead to Controllability and Instrument Instability Problems.

! Monetary Policy Has Long Lags (2-3 Years for π)

! Controllability Problem: Too Frequent Misses

1995 RBNZ Overshoot

! Output Fluctuations Higher

New Zealand too Tight at End of 1996

! Instrument Instability Problem:

Much

- Interest Rates, Exchange Rates Fluctuate Too
- Focus on Exchange Rate Because Works Faster
- Both Problems in New Zealand

! Solutions

1. Longer Horizons (2 Years)
2. Wider Range (But Problem of Possible Loss of Credibility)
3. Escape Clauses (but hard to design)
4. Core π Measures
5. Multi-Year Targets or Additional Long-Run

Target

New Zealand Now Uses 1st 3

OPERATIONAL DESIGN

! Targeting Asset Prices Like the Exchange Rate Worsens Performance.

! Exchange Rate Should Be a Concern

- Direct Effects on Π (Pass-Through)
- Affects Competitiveness and National Pride
- Effects Balance Sheets and Financial Stability
(in Emerging Market Countries Only)

! Danger of Too Much Focus on Exchange Rate

- Risks Transforming Exchange Rate to Nominal Anchor (Israel and Chile)

! Effects of Depreciation Different Depending on Shocks

- Portfolio Shock is Inflationary $\Rightarrow i_8$
- Terms of Trade Shock, Exports $\Rightarrow i_9$
- Likely to Get Wrong Response to Real Shocks

E.g.: New Zealand, Chile Versus Australia, 1997-99

! Response to Exchange Rates or Other Asset Prices Can't Be Mechanical

Shocks

- Different Response Depends on Assessment of

- MCI is a Bad Idea

- Asset Prices Hard to Control,
CB Looks Foolish When Miss Targets, Yet

- If CB Targets Asset Prices, Public Fears CB Too Powerful

- Govt Not Better than Market at Knowing
Appropriate
Prices

OPERATIONAL DESIGN

! Who Should Set π Target?

- Common View: Central Bank Should Be Instrument Independent (e.g CB sets i)
CB Should be Goal Dependent
(Govt Sets Long-Run π Goal with CB)
- Problem: Horizon for Medium Term Target Involves Goal and Technical Decisions
 1. Weight on Output Fluctuations Affects Horizon
 2. Length of Policy Lags Affect Horizon
- Less of Dilemma if Near Long-Run Goal
Big Dilemma During Transition from high to low

II

! May Want CB to Set Medium-Term Target

INFLATION TARGETING SPECIAL ISSUES FOR EM COUNTRIES

! EM Countries Need Pay Special Attention to Exchange Rate

- Probably have gone too far
- Run risk of moving to exchange rate anchor
- Passthrough is Regime Dependent
May Improve over Time
- Rigorous Prudential Supervision Helps

INFLATION TARGETING SPECIAL ISSUES FOR EM COUNTRIES

! How to Deal with Exchange Rate

- Smooth as is done with interest rates:

1. Should Have Exchange Rate Affect i as in Modified Taylor Rule in 9'
2. Determined by Market over longer horizon
3. Avoid FX Intervention

INFLATION TARGETING SPECIAL ISSUES FOR EM COUNTRIES

TRANSITION FROM MODERATE TO LOW π

! Basic Problem at Initially High π

1. Low Credibility of Central Bank
2. Hard to Control π

! Gradual Hardening of Targets

! Shorter Horizon (1 Year)

- Multi-Year Targets (but deviations likely)
- Annual Target Only

TRANSITION FROM MODERATE TO LOW π

! Point Target

- Range Can Weaken Credibility

! Asymmetric Inflation Targeting

- Low π : Stress Undershoots as Much as Overshoots:
Symmetric Approach
- High π : Lose Credibility if Overshoot
More Aggressive on Preventing Overshoots
Danger: Output Loss Too Great and Lose Support

CONCLUSIONS FOR EMERGING MARKET COUNTRIES

! Issue:

- *Not* Fix vs Flex
- Whether Have Institutions so Can Constrain Discretion
- Issue is relevant Now because π is low(er)

! No Regime is Panacea

- Must Prevent Fiscal Dominance
- Need Rigorous Prudential Supervision for

Sound Financial System

CONCLUSIONS FOR EMERGING MARKET COUNTRIES

! Be Skeptical of "Original Sin"

- Recent Successes suggest Countries can Grow Up
- Inflation Targeting an Option for Several of Them

UNRESOLVED ISSUE: PRICE LEVEL VS π TARGET

! Price Level Target Better More Forward Looking is Price Setting

- Evidence Unclear

! Problem of More Likely Deflations with Price Target

UNRESOLVED ISSUE: PRICE LEVEL VS π TARGET HYBRID POLICIES

! π Target with Small Amount of Error Correction

- Additional Long-Run Average Target

! π Target with Deflation Escape Clause

- Price Level Target Only if Deflation Sets In

IMF CONDITIONALITY AND INFLATION TARGETING

! Conditionality based on Financial Programming Framework

- Net Domestic Assets
- Net International Reserves

! Do NDA Ceiling and NIR Floor Make Sense Under π Targets?

IMF CONDITIONALITY AND INFLATION TARGETING

! Alternative Approaches to Monitoring

1. Monetary Policy Institutions
 - Central Bank Independence
 - Central Bank Mandate
 - Central Bank Transparency and Accountability
 2. Bands Around π Target
 3. Taylor Rules
 4. Assessment of CB Procedures
 - Forecasting
 - Explanation of Actions
- Similar to issue for Supervision of Risk Management

EXCHANGE RATE TARGET ADVANTAGES

- ! Fixes π for Internationally Traded Goods**
- ! Provide Nominal Anchor and Ties down π expectations**
- ! Transparent: Simple and Clear**
- ! Automatic Adjustment Mechanism (Rule)**
 - Prevents Time-Inconsistency?
M-policy and F-policy

EXCHANGE RATE TARGETING DISADVANTAGES

! Loss of Independent Monetary Policy

- Illustrated by following simple model (Svensson, 1997)

$$\pi_t = \pi_{t-1} + \alpha_1 y_{t-1} + \varepsilon_t \quad (1)$$

$$y_t = \beta_1 y_{t-1} - \beta_2 (i_{t-1} - \pi_{t-1}) + \eta_t \quad (2)$$

Central Bank Minimizes Loss Function

$$E_t \ni \delta^{\tau-t} L_\tau \quad (3)$$

$$L_\tau = (\pi_\tau - \pi^*)/2 + \lambda y/2 \quad (4)$$

Yields "Taylor Rule"

$$i_t = \pi_t + b_1(\pi_t - \pi^*) + b_2y_t \quad (5)$$

! Loss from Exchange Rate Target Small Only If Pegging Country is Highly Integrated with Anchor Country

-Then inflation and output gaps are highly correlated so anchor country Taylor rule OK for domestic country

! Bottom Line:

"Good" M-policy Better than None for larger Countries

SOFT PEG DISADVANTAGES

! Open to Speculative Attacks

- Europe: Sept. 1992; Mexico: 1994; Asia: 1997

! Weakened Accountability: Lose Exchange-Rate Signal

SOFT PEG: DISADVANTAGES EMERGING MARKET COUNTRIES

! Makes Financial Crisis More Likely

Financial Crisis = Nonlinear Disruption to Information =>
Can't Channel Funds to those with most productive
investment opportunities

! Institutional Features in Emerging Market Countries

1. Short duration debt
2. Debt denominated in foreign currencies

HOW A DEVALUATION CAN TRIGGER A FINANCIAL CRISIS

- ! E \downarrow , Debt burden \uparrow , Assets same \Rightarrow Net Worth \downarrow
 \Rightarrow moral hazard \uparrow , adverse selection $\uparrow \Rightarrow$ lending \downarrow
- ! E \downarrow , Banks debt burden \uparrow , Assets \downarrow because firms default
 \Rightarrow Bank capital $\downarrow \Rightarrow$ Bank's restrict lending
- ! i \downarrow , Bank capital $\downarrow \Rightarrow$ central bank reluctant to raise i
 \Rightarrow speculative attack more likely \Rightarrow E \downarrow
- ! E \downarrow , π^e \downarrow , i $\downarrow \Rightarrow$ interest payments \downarrow , cash flow \downarrow
 \Rightarrow balance sheets $\downarrow \Rightarrow$ lending \downarrow

WHY EXCHANGE-RATE TARGETING MAKES FINANCIAL CRISES MORE LIKELY IN EMERGING MARKET COUNTRIES

- ! Devaluation => Nonlinear Balance Sheets**
Banks and Nonfinancial Firms
- ! Devaluation => π Surge => i ↑ => Balance Sheets ↓**
- ! Encourages Capital inflows =>**
Lending Boom, Bad Loans =>
Deterioration in Bank Balance Sheets =>
Currency Crisis
- ! Story in Chile 1982, Mexico 1994-95, East Asia 1997-98**

**SOFT PEG:
DISADVANTAGES
EMERGING MARKET COUNTRIES**

! Loss of Lender of Last Resort?

- Overstated for Emerging Market Countries Currently

Debt Structure Makes LLR Ineffective Anyway

! Bottom Line

Soft Peg Bad Idea in EM Countries, Except for Initial Stabilization When π is Very High

- Issue of Exit Strategy

HARD PEGS CURRENCY BOARDS VS FULL DOLLARIZATION

CURRENCY BOARDS

! Subject to Speculative Attacks

! High Interest Rates From Currency Risk?

FULL DOLLARIZATION

! Reduce Interest Rates to International Levels?

- Country Risk Problem (e.g. Confiscation of \$-Assets)

Fiscal insolvency => confiscation of \$-deposits =>
Banking Crisis

HARD PEGS BOTTOM LINE

! Two Necessary Conditions:

1. Sound Financial System
2. Sound Fiscal Policy

! Hard Peg Does not ensure 2 conditions will be met

EXCHANGE RATE TARGETING: EXPERIENCE AND LESSONS

! Successful in Reducing π

- France:

1987: $\pi = 3\%$, 2% above Germany

1997: $\pi = 2\%$, = Germany

- U.K.:

1990: $\pi = 10\%$

1992: $\pi = 3\%$

- Argentina: Currency Board

1989-90: $\pi > 1000\%$

1994: $\pi = 5\%$

EXCHANGE RATE TARGETING: EXPERIENCE AND LESSONS

! Output Variability 8 Because Lose Independent M-Policy

- Problems after German Reunification
U.K., French Monetary Policy too Tight:
Clarida, Gali and Gertler (1997)
- Argentina: 2 Serious Recessions in 1990s

EXCHANGE RATE TARGETING: EXPERIENCE AND LESSONS

! Still Subject to Speculative Attacks and Bank Runs

- Argentina in Tequila Crisis had Deposits 9 17%
- Bank Panic in Panama in 1988-89

! Hard to Exit

- Feasible if Currency Appreciating, but Political Will Weak
- Worse for Dollarized Economy:
New Money and M-authorities lack credibility

EXCHANGE RATE TARGETING: EXPERIENCE AND LESSONS

! Two Necessary Conditions for Exchange Rate Peg to Work:

1. Sound Financial System
2. Sound Fiscal Policy

! Even Hard Peg Does not ensure 2 conditions will be met

- Weakness of Argentina's Banking System almost brought down Currency Board in 1995
 - Soundness of Panama Banks Result of Foreign Ownership
- Panama's Fiscal Policy No Better
 - Request for 13 IMF Programs - Most in Latin America
 - Argentina Still Has Fiscal Problems

EXCHANGE RATE TARGETING: BOTTOM LINE

! Soft Pegs Highly Dangerous

- May be Useful for Stabilization, but Not for Long Run Strategy

! Hard Pegs only Feasible Strategy in Some EM Countries

If political and economic institutions cannot support independent central bank focused on price stability

MONETARY TARGETING

! 3 Elements

1. Use of M-aggregate to guide conduct of M-policy
2. Announcement of M-target
3. Accountability to Meet Target

MONETARY TARGETING: ADVANTAGES

- ! Able to Cope with Domestic Considerations**
- ! Nominal Anchor that is Fairly Understandable**
- ! Signals are Immediate**
- ! Immediate Accountability of Central Bank**

MONETARY AGGREGATES: DISADVANTAGES

! Advantages Only *IF* Strong Relationship between M and PY

- Illustrate by adding money demand function to model above

$$m_t - p_t = \gamma y_t - \kappa i_t + u_t \quad (6)$$

- Presence of u_t and uncertainty about parameters γ and $\kappa \Rightarrow$
Weak Relationship between M and PY,
M-Targeting Deviates from Optimal Policy in (5),
Higher Volatility of Y , π and i .

MONETARY TARGETING: EXPERIENCE AND LESSONS

! Not Successful in U.S., Canada, U.K.

- Not Pursued Seriously
- Instability of M-PY Relationship

"We Didn't Abandon Monetary Aggregates, They Abandoned Us."

MONETARY TARGETING: EXPERIENCE AND LESSONS

! Has Not Been Practiced in EM Countries like Latin America

- Many central banks have first element, but not others
- Peru is cited as having Monetary Anchor in 1990s, but never *Announced* Target Strategy is discretionary
- Instability of M-PY Relationship When $\pi < 20\%$

Mexico:

1997: $MB > MB^*$ by 4.1%, $\pi = 15.7\% = \pi^*$, 15%
1998: $MB < MB^*$ by 1.5%, $\pi = 18\% > \pi^* = 12\%$

1999: $MB > MB^*$ by 21%, $\Pi = 12.3\% < \Pi^* = 13\%$

MONETARY TARGETING: EXPERIENCE AND LESSONS

! Swiss and Especially German Experience More Successful

- Not Bound by Monetarist Orthodoxy
- Means to Communicate Strategy and Focus on Long-run

Inflation Goal Explicit and Work Backwards to M-target

- Flexible:

Target Ranges Missed 50% of time

Π -Goal Varies and Adjusted Slowly to Long-Run Goal

MONETARY TARGETING: EXPERIENCE AND LESSONS

! Germany: Highly Successful Even with Flexibility

- Produced Low π => Anchor Country for ERM
- Kept π in Check after German Reunification
- Criticism: Asymmetric Response to Target Misses => Not Concerned Enough About Undershoots, Policy Too Tight in mid 1990s?

MONETARY TARGETING: EXPERIENCE AND LESSONS

! Switzerland: Problematic Since 1988

- 1989-92: π 8 to 5%

New Interbank Payment System Distorts M-PY
Relationship

Exchange Rate Shocks

- Result: Move to Much More Flexible Framework

MONETARY TARGETING: EXPERIENCE AND LESSONS

! Bottom Line: Key Elements

- Flexibility
- Transparency
- Accountability

! Same Elements in π -Targeting

! Germany and Switzerland Closer to π -Targeting than to Monetarist M-Targeting

**MONETARY POLICY WITH AN IMPLICIT
BUT NOT AN EXPLICIT NOMINAL ANCHOR:
"JUST DO IT"**

! Greenspan Fed

! Implicit Commitment to Price Stability

**! Forward-Looking and Preemptive to Deal With Long
Lags**

"JUST DO IT" ADVANTAGES

- ! Able to Cope with Domestic Considerations**
- ! Does Not Rely on Stable M-PY Relationship**
- ! Demonstrated Success: Worked Well in the U.S.**
- ! If It Ain't Broke Why Fix It**

"JUST DO IT" DISADVANTAGES

! Not Transparent

! Lack of Accountability

! Exposure to Inflation Scares

! Missed Opportunity to Focus Debate on Long-Run

- Contrast of Response to 1997 M-tightening in UK and US

! Makes CB More Consistent With Democratic Principles

- Promotes CB Independence

JUST DO IT DISADVANTAGES

! Requires Good Monetary Policy and Political Institutions

- U.S. Has Good Institutions

But Even Fed Has Fallen Off Anti- π Wagon in Past

Especially Good Policymakers Recently in U.S.

Greenspan, Rubin, Summers

Unprecedented Cooperation Between Fed and Treasury

- Most Other Countries Don't, Particularly EM Countries