

QUANTITATIVE GOALS FOR MONETARY

POLICY - BY FATAS/M.HOV/ROSE (1)

PANEL RESULT, 1960-2000, 42 COUNTRIES, ANNUAL:
DELIVERY & SETTING OF TARGETS REDUCES INFLA

THIS ROBUST RESULT INTERPRETED AS:

TRANSPARENCY MATTERS
(BUT NOT FOR OUTPUT VOLATILITY)

IMPRESSIVE RESULT BUT IS THIS
CORRECT INTERPRETATION?

PROBLEM WELL-KNOWN OF [IDENTIFICATION
SELECTION BIAS]
WHEREBY SOME OTHER FACTOR (UNOBSERVED)
IS DRIVING BOTH TARGETING AND
INFLATION REDUCTION. CAN ONLY BE
RESOLVED BY MODEL/IDENTIFYING RESTRICTIONS.

STYLISTED PROBLEM HERE

①a

$$\textcircled{1} \quad \pi_t = \alpha x_t + \epsilon_t$$

$x_t = \text{TARGETS}$

$\epsilon_t = \text{MONETARY}$
 ETC ACTIONS

$$\textcircled{2} \quad x_t = \gamma \epsilon_t + \eta_t$$

$\therefore \text{ALSO}$

$$\textcircled{3} \quad \bar{\pi}_t = \alpha \gamma \epsilon_t + \epsilon_t + \alpha \eta_t = (1 + \alpha \gamma) \epsilon_t + \alpha \eta_t$$

LINEAR COMBINATION OF $\textcircled{1}$ & $\textcircled{3}$

$$\bar{\pi}_t = \lambda \pi_t + (1 - \lambda) \bar{\pi}_t = \alpha \lambda x_t + \underbrace{[(1 + \alpha \gamma)(1 - \lambda) + \lambda] \epsilon_t + (1 - \lambda) \alpha \eta_t}_{\text{ERROR}}$$

(A) WE DON'T KNOW λ : ANY λ COULD BE OPERATING — LACK OF IDENTIFICATION

(B) SELECTION (SIMULTANEOUS) BIAS AS ϵ_t CORRELATED WITH x_t

[NB. REVERSE CAUSATION $\bar{\pi}_t \rightarrow x_t$ UNLIKELY]

WHAT DO MODELS SAY?

②

= DISINFLATION DIFFERENT FROM SETTLED LOW-INFLATION SITUATIONS

= UNDER DISINFLATION

TARGET WITHOUT CREDIBLE

PROGRAMME¹ OF DELIVERY USELESS

HITTING TARGETS IN (NARROW)²
(COSMETIC)

SENSE POINTLESS, MISSING TARGETS

MEANINGFULLY MAY BE EFFECTIVE^{3,4}

PART OF CREDIBLE PROGRAMME

IS FISCAL STRINGENCY⁵

¹ UK 1976/9 (INCOMES POLICY) ² M3 'CORSET'
UK 76/9

³ UK 1979/81 OVERSHOOTING OF £M3
ACCOMPANIED BY SHARP M SQUEEZE

⁴ US VOLCKER NON-BORROWED RESERVES TARGET⁶
OF M

⁵ ARGENTINA'S 1990s CURRENCY BOARD

VITAL IS POLITICAL SUSTAINABILITY⁶

LINK IN EUROPE LINK IN EU TO DM

= WHEN INFLATION HAS BEEN BROKEN

③

TARGETING REGIME INFLUENTIAL ON
OPERATION OF MONETARY RULE

↳ AFFECTS VOLATILITY/PERSISTENCE OF

INFLATION¹ & VOLATILITY OF OUTPUT²

¹ UK, NZ, US 1990s

² UK, NZ, US FROM 1992

BUT NOTICE EXPLICIT TARGETING NO
(UK, NZ)

BETTER THAN IMPLICIT TARGETING (US)

= ROLE OF EXPLICIT TARGETS & OTHER
TRANSPARENCY DEVICES (MINUTES/HEARINGS..)

IS TO REINFORCE ACTUAL POLICY REGIME

BY FOCUSING PUBLIC OPINION ETC. (RIKSBANK,
BANK OF ENGLAND) - LEARNING EFFECT?

POSSIBLE MODELS :

(A) DISINFLATION : TARGETING (BY COMMUNICATING BETTER) SPEEDS UP LEARNING & SO REDUCES OUTPUT COSTS OF π -REDUCTION, ALSO SHORTENS LAG BETWEEN POLICY (M, F) AND π , BUT DOES NOT CHANGE LONG-RUN EFFECT OF POLICY ON π

(B) LOW INFLATION : DIFFERENT 'TARGETING' = DIFFERENT MONETARY RULE/REGIME \Rightarrow NO EFFECT ON MEANS EFFECT ON VARIANCES (OF π, y) & PERSISTENCE OF π .

APPLICATION TO THIS STUDY =

4

~ TARGETS HAVE MUCH SMALLER EFFECT
IN DISINFLATION: PROXYING (CORRELATED)
WITH) UNOBSERVED POLITICAL COMMITMENT
& PROGRAMME. MAY VIA CREDIBILITY REDUCE
OUTPUT COST OF DISINFLATION

~ TYPE OF TARGETING REGIME IMPORTANT
FOR $\text{Var } \pi$, ρ_{π} , $\text{Var } y$. IF OPTIMAL, CAN
LOWER ALL 3 & BRING IN VAR FRONTIER

POSSIBLE WAYS FORWARD =

SPLIT SAMPLE INTO $\left(\begin{array}{l} \text{DISINFLATION} \\ \text{INFLATION} > 5\% \end{array} \right)$

AND LOW INFLATION

INVESTIGATE VAR ISSUES ONLY ON (B)

$$\text{Var } \pi = -\phi \text{Var } y + \psi(\text{REGIME})$$

ON (A) INVESTIGATE WHETHER
(RECESSIONARY COST/DISINFLATION) REDUCED BY
TARGETS

ANYTHING ELSE?

5

TO GET INSIGHT INTO ROLE OF
REGIME CHANGE BOOTSTRAP MODEL
UNDER EACH REGIME ; CHECK WHETHER
MEANS/VARIANCES OF π_t , y VARY
SIGNIFICANTLY ACROSS REGIMES

(COULD) GENERALISE TO MULTI-COUNTRY
PANEL BOOTSTRAP)

E.G. RESULTS FOR UK INFLATION PERSISTENCE

PARAMETER OF SUCH AN EXERCISE	ESTIMATED*	LOWER-UPPER 95% [§]	
BRETTON WOODS* (\rightarrow 71)	0.25	-0.01	0.49
INCOMES POLICY (70s) [†]	0.73	0.70	0.96
MONEY TARGETING [†] (EARLY 80s)	0.52	0.04	0.59
SHADOW/ACTUAL ER [†] (86-92)	0.63	0.83	0.99
INFLATION-TARGETING [†] (93-2002)	-0.15	-0.56	-0.20

SOURCE: MINFOR D WEBPAGE

* MINI-MODEL † LIVERPOOL MODEL * AR(1) PARAMETER § BOOTSTRAP