

beachmark case

$$N_t^a = 100, N_t^b = 100$$

$$y^a - C_{1,t}^a = y^b - C_{1,t}^b = 10$$

$$M_t^a = 800 \leftarrow \text{au\$}$$

$$m_t^b = 600 \leftarrow \text{£}$$

\therefore each initial
old bonds

$$\frac{800}{200} = 4 \text{ au\$}$$

$$\frac{600}{200} = 3 \text{ £}$$

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avoid money - mkt
clearing cond in

$$\underbrace{e}_{\frac{V_t^a}{2}} \underbrace{V_t^b}_{800} + V_t^b \cdot \underbrace{m_t^b}_{600} = \underbrace{N_t^a}_{100} (y^a - C_{1,t}^a) + \underbrace{N_t^b}_{100} (y^b - C_{1,t}^b)$$

$$\underbrace{V_t^b}_{2} = 2 \quad \underbrace{e}_{\frac{V_t^a}{V_t^b}} = 1 \quad \underbrace{N_t^a}_{1}$$

$C_{2,t}^a$ (old people in country a)

$$= V_t^a \cdot m_t^a + V_t^b \cdot m_t^b$$

$$= 1 \cdot 4 + 2 \cdot 3 = 10 = C_{2,t}^b$$

Cooperative State

spz each initial old turns in \$2 to acquire it!

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$$200 (\text{initial old}) \times \$2 \cdot \frac{1}{2}$$

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$$= 200 \text{ is needed}$$

$$m^a = 800 - 400 = 400 \$$$

$$m^b = 600 + 200 = 800 \text{ z}$$

$$\frac{1}{2} \cdot V_t^b \cdot (m_t^a) + V_t^b (m_t^b) = 2000$$

$$V_t^b = 2 \xrightarrow{e=\frac{1}{2}} V_t^a = 1$$

$$C_{2,t}^a = v_t^a \cdot m_t^a + v_t^b \cdot m_t^b$$

$$= 1 \cdot 2 + 2 \cdot 4 = 10 = C_{2,t}^b$$

Inflationary incentive under
coop state

SPS Au\$ 1000 (MS\$ by 200
Au\$)

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$$\bar{e} v_t^b m_t^a + v_t^b m_t^b = 2000$$

$\uparrow \quad \uparrow \quad \uparrow$
 $\frac{1}{2} \quad 1000 \quad 600$

$$\rightarrow v_t^b = \frac{20}{11} < 2$$

$$v_t^a = \bar{e} \cdot v_t^b = \frac{1}{2} \cdot \frac{20}{11} = \frac{10}{11} < 1$$

$$C_{2,t}^a = v_t^a \cdot m_t^a + v_t^b \cdot m_t^b$$

$$= \frac{10}{11} \cdot 4 + \frac{20}{11} \cdot 3$$

$$C_{2,b}^b = C_{2,b}^a = \frac{100}{11} < 10$$

in a close eq, the fair rate
of seigniorage revenue is

$$1 - \frac{1}{z}$$

$$200 \neq 1000$$

$$z = 1.25$$

$$= 1 - \frac{1}{1.25} = 20\%$$

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open eq, fair rate

$$\frac{\frac{100}{11} - 10}{10} \% \approx 9.1\%$$

Unilateral defense

& 200 is need

\therefore real value of the tax on old

$$V_t^b = \$200$$

\therefore earhold in country a will be required to pay a tax of $\frac{(V_t^b)200}{100} = 2V_t^b$

$$\Leftrightarrow 0. pb_t = \$200$$

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$$\rightarrow ? = \frac{\$200}{pb_t} = V_t^b \cdot 200$$

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$$M_t^a = \$400 \leftarrow 800 - 400$$

$$M_t^b = \$600 \leftarrow 600$$

difference!

$$\begin{array}{c} \uparrow \frac{1}{2} \\ \overline{e} V_t^b M_t^a + V_t^b M_t^b = 2000 \\ \uparrow 400 \quad \uparrow 600 \end{array}$$

$$800 \sqrt{\frac{b}{t}} = 2000$$

$$\rightarrow \sqrt{\frac{b}{t}} = \boxed{2.5} \leftarrow 2$$

$$\underline{\bar{e} = \frac{1}{2}} \rightarrow \sqrt{\frac{a}{t}} = 1.25 \leftarrow 1$$

tax paid by each old in country a $(2\sqrt{\frac{b}{t}}) = 5$

$\rightarrow 100 \times 5 \text{ units} = 500$
 (initial old in country a) units of good

c. B. of country a

Sells 500 goods to initial old in country b

$$\frac{500 \text{ units}}{2.5 \text{ units}/\pounds}$$

$$= \pounds 200$$

c. B. of country a uses this $\pounds 200$ to satisfy all exchange

requests.

$$C_{2,t}^b (\text{old in country b}) = V_t^a \cdot m_t^a + V_t^b \cdot m_t^b$$

$$= 1.25 \cdot 2 + 2.5 \cdot 4 = 12.5 > 10$$

$$C_{2,t}^a (\text{old in country a})$$

$$= 1.25 \cdot 2 + 2.5 \cdot 4 - 5 = 7.5 < 10$$

~~each~~
if old turns in \$4 in exchange
for \$2 \rightarrow tax on old
will be 13.33 units of good X

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