It is not *la vie en rose*. New insights from Graziani's theory of monetary circuit

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TMC-SFC Modei

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- 5) Is the TMC just a (post) Keynesian theory? (misconception 5)

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- SFCMs = dynamic counterpart of TMC (Graziani 2003; Godley 2004; Lavoie 2004, 2021; Godley/Lavoie 2007; Zezza 2012; Veronese Passarella 2014, 2017; Sawyer/Veronese Passarella 2017)

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 - Simultaneous solutions using 200 iterations

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TABLE 1. BALANCE SHEET

| | Workers | Capitalists | Production firms | Commercial banks | \sum |
|---------------------|---------|-------------|------------------|------------------|--------|
| Deposits | $+M_w$ | $+M_z$ | | $-M_s$ | 0 |
| Loans | | | $-L_d$ | $+L_s$ | 0 |
| Fixed capital | | | +K | | +K |
| Securities | $+B_w$ | $+B_z$ | $-B_s$ | | 0 |
| Balance (net worth) | $-V_w$ | $-V_z$ | 0 | 0 | $-V_h$ |
| \sum | 0 | 0 | 0 | 0 | 0 |

Notes: A '+' before a magnitude denotes an asset, whereas '-' denotes a liability (except for Balance's entries, where signs are reversed); for the sake of simplicity, there is no asset corresponding to capitalists' ownership of firms and banks.

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TABLE 2. TRANSACTIONS-FLOW MATRIX

| | Production firms | | | | | | | |
|-----------------------------|------------------|-----------------|-------------|---------------|------------------|---|--|--|
| | Workers | Capitalists | Current | Capital | Commercial banks | Σ | | |
| Consumption | $-C_w$ | $-C_z$ | +C | | | 0 | | |
| Investment | | | +1 | -1 | | 0 | | |
| Memo: Production | | | [Y] | | | | | |
| Wages | +WB | | -WB | | | 0 | | |
| Depreciation / Amortisation | | | -AF | +AF | | 0 | | |
| Firms' profit | | $+F_{f}$ | $-F_f$ | | | 0 | | |
| Banks' profit | | $+F_{h}$ | | | $-F_{h}$ | 0 | | |
| Interest on loans | | 5 | $-PAYM_{l}$ | | $+PAYM_{I}$ | 0 | | |
| Interest on deposits | $+PAYM_{w}^{m}$ | $+PAYM_{z}^{m}$ | | | $-PAYM_m$ | 0 | | |
| Interest on securities | $+PAYM_{w}^{b}$ | $+PAYM_z^b$ | $-PAYM_b$ | | | 0 | | |
| Change in loans | | | | $+\Delta L_d$ | $-\Delta L_s$ | 0 | | |
| Change in deposits | $-\Delta M_w$ | $-\Delta M_z$ | | | $+\Delta M_s$ | 0 | | |
| Change in securities | $-\Delta B_w$ | $-\Delta B_z$ | | $+\Delta B_s$ | | 0 | | |
| Σ | 0 | 0 | 0 | 0 | 0 | 0 | | |

Notes: A '+' before a magnitude denotes a receipt or a source of funds, whereas '-' denotes a payment or a use of funds.

KEY EQUATIONS: THE INVESTMENT FUNCTION

- Planned real investment is a share of total production:

 $i_{\mathcal{T}} = \beta \cdot y_{-1} \tag{1}$

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- The real stock of capital is:

$$k = k_{-1} + i - \delta \cdot k_{-1} \tag{3}$$

KEY EQUATIONS: THE INITIAL FINANCE

- Firms need initial finance to hire workers (and buy investment goods):

 $FIN_i = WB + I \tag{4}$

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- Therefore, the change in loans (stock) at the end of the period is:

 $L_d = L_{d,-1} + FIN_i - FIN_f \tag{6}$
KEY EQUATIONS: INTEREST PAYMENTS

- Interest payments on loans are:

$$PAYM_{l} = r_{l,-1} \cdot L_{d,-1} + r_{l,-1} \cdot \frac{FIN_{f,-1}}{2}$$

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- Interest payments on other assets (deposits held by capitalists and securities) are calculated in the standard way

- Real supply is defined as:

$$y_s = \sigma \cdot y + (1 - \sigma) \cdot y_n \tag{9}$$

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where:

$$c_{res} = c_z + c_{w,res} = c_z + (y - c_z - i)$$
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FIGURE 1. SANKEY DIAGRAM OF CROSS-SECTOR TRANSACTIONS



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FIGURE 2. MODEL BASELINE AND SHOCK TO CONSUMPTION



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- J. Robinson's inflation barrier: faster growth is funded not by the saving of the capitalists, but by the austerity imposed on workers through a lower real wage. Workers are forced to save.
- Not only can workers buy only a share of y, but their c_w can be downsized at any time because of capitalists' plans. No consumer sovereignty!

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FIGURE 3. HIGHER INVESTMENT WITH QUANTITY ADJUSTMENT



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FIGURE 4. HIGHER INVESTMENT WITH MIXED ADJUSTMENT ($\sigma = 0$)



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FIGURE 5. HIGHER INVESTMENT WITH PRICE ADJ. ($\sigma = 0, \delta_y = 0$)



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- The change in loans (stock) at the end of the period is:

 $L_{d} = L_{d,-1} + WB - [C + \Delta B_{s} - (PAYM_{l} + PAYM_{w}^{b} + PAYM_{z}^{b} + F_{f})]$

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- Using Y = C + I and $F_f = Y - \sum_i PAYM_i - AF - WB$, we obtain:

$$L_d = L_{d,-1} + I - \Delta B_s - AF \tag{6}$$

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which matches the fourth column of Table 2: $FIN_i^{ex ante} \rightarrow \Delta L_d(I)^{ex post}$

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- Consumer credit is final finance (indirect subsidy to private firms)
- $\mathsf{TMC}=\mathsf{abstract}$ representation of the necessary dominant social relations under capitalism

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- The increase in the exploitation rate is only temporary if production eventually adjusts to demand
- No consumer sovereignty \leftarrow exploitation in the production sphere

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FIGURE 7. SURPLUS LABOUR UNDER ALTERNATIVE SCENARIOS



Notes: Scenario 2 = higher autonomous consumption; Scenario 3 = higher investment with quantity adjustment; Scenario 4 = higher investment with mixed adjustment; Scenario 5 = higher investment with price adjustment

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Main findings:

(STOREP Conference 2022)

TMC-SFC Modei

27 May 2022 21/23

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Money (as initial finance = capital) is an instrument of class domination

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Thank you

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