How do government deficits help stabilize a "poker economy"?

An Introduction to the Sectoral Balances Model

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What's a poker economy?

 It is an economy in which the decisions to produce and to invest are driven by the desire to accumulate financial wealth which cannot be produced, but, rather, may only be acquired through balance-sheet offsetting transactions - i.e. financial wealth must be won from others.

Key features of a poker economy

- Financial gains are at the same time financial losses looked at from different points of view.*
- Production of use values is a byproduct of zero-sum financial games.
- Participants are not equally able to sustain losing financial balances over time.
- No self-correcting tendencies drive the economy to full employment.
- Self-reinforcing dynamics in which participants respond to frustrating financial results by reducing expenditures (which are losses to them but gains to others) produce instability.



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- There are players who play against each other trying to accumulate chips.
- Chips represent a claim on the casino and, therefore, only the casino can issue new chips.
- A casino is sovereign if chips are denominated in terms of chip-values only.
- Players' wealth (financial stocks) may be composed of chips previously won from the casino (or from another player who won them from the casino...) or chipdenominated IOUs issued by other players.*
- Players win chips by causing other players to lose chips in games or by receiving interest on chipdenominated IOUs.

- At the end of each game (and after many games), aggregate winnings must be exactly offset by aggregate losses.
- Though the financial gain for society (casino and players) as a whole is zero, there is a real gain in the form of the poker games that are played (the economy's real output).
- The value of the games produced and "sold" in the economy (GDP) is given by aggregate winnings/aggregate losses during the year.

- As frequent losers run out of chips, they are forced to **borrow** in order to keep playing.
- With lending and borrowing, victors may expand their chip-denominated wealth beyond the limit imposed by the casino's total outstanding debt (chips held by players).
- Frequent losers may find it increasingly hard to borrow, be forced to leave the world of poker and default on their outstanding debt. Lenders' wealth is (at least partially) destroyed and willingness to lend may fall sharply.

- When players are denied access to poker games due to insufficient chips/chip-denominated credit, the economy underperforms.
- A sovereign casino can always expand real production (number of games) by injecting more chips into the economy (by increasing its losses to players or by sponsoring chip-deprived players).

Capitalism as a poker economy $Y \equiv C + I_r + G + (X-M) \equiv C + S + T$

"losses" = C + I_r + G + X "winnings" = C + S + T + M The sectoral balances are given by:

The Sectoral Balances as a percent of GDP



It really works: (S-I) = (G-T)+(X-M) !



The Domestic Private Sector











Complications of an Open Economy

The Trade Balance and Net Savings by the Foreign Sector

3 examples of CAB lines: (1) appreciated fixed ER, (2) neutral and (3) depreciated fixed ER.



Appendix: Math Underneath the CAB lines for Brazil







The Stabilizing Role of Government Deficits and the FIH

Net Financial **Balances** NGFB_{åbust} NGFB_{ébaam} NGFB_{deust} = GE Y_{FE} 0 Y Y_{bbBOOM} YBOOM YBUST bbpuge NGFB_{dBOOM} = GDØÐ

The Government Deficit



Stabilizing an Unstable Economy through Functional Finance



Stabilizing an Unstable Economy with JG/ELR Policies



In order for slope to be independent of W_{av} , we may chose to set $W_{min} = \varphi W_{av}$

What Happened in 2008?



What Happened in 2008?



A less income elastic GD causes income fluctuations to be more violent following a financial crisis. In 1929, the GD line was not nearly as steep as in 2008.



 $\mathsf{Y}_{\mathsf{US}} \downarrow \to \mathsf{X} \downarrow, \, \mathsf{LP}_{\mathsf{US}} \uparrow \to \mathsf{Ip} \downarrow, \, \mathsf{Fin.} \, \, \mathsf{Volat.} \uparrow \to \mathsf{LP} \uparrow \to \mathsf{Ip} \, \, \mathsf{ea} \downarrow$

Thank You Very Much!

Post Keynesian Economics vs. IS-LM Keynesianism

- The economy cannot self-correct via price adjustments and there is no inherent tendency towards full employment.
- Economic fluctuations often create selfreinforcing dynamics.
- Stocks and flows must be analyzed sequentially.
- Recognize that every money flow adds to a party's money balances and reduces another's.
- The structure of **debt matters.**



Some Behavioral Assumptions

The Domestic Private Sector: $C = a + b.Y_{(1)}$ and S = -a + (1 - b).Y $I_p = f(LP, MEK), a = f(LP)$

The Foreign Sector (Current Account): $M = m + \mu$. Y , X = f(Π , Y_{foreign}) (2) and m = f(Π ,LP)

The Government: G = g – Ω .Y and T = t + λ .Y