

Guns vs. Butter in the Major Schools of Economic Thought

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Economics, History and Political Science

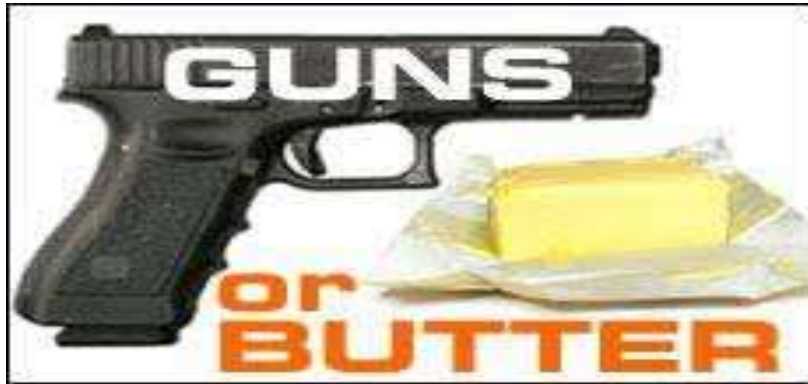
Development Day



May 18, 2021

Motivation

- Before Paul Samuelson popularized **the guns and butter** analogy in 1947, it was used by J.P. Wernette before the 1940s



- Butter in Guns ?
- or Oil in Guns ? Guns for Oil ?
- Or



Neoclassical, Keynesian, and Marxist Schools

Neoclassical Economics

State is a rational agent, maximizing benefit
+ Appealing for researchers
- Unrealistic assumptions

Military Keynesianism

Milex increases aggregate demand
+ Straightforward explanation
- Treats milex just like another gov. exp.

Military Industrial Complex

+ Pays attention to interest groups
- Ignores the vital role of milex in capitalism

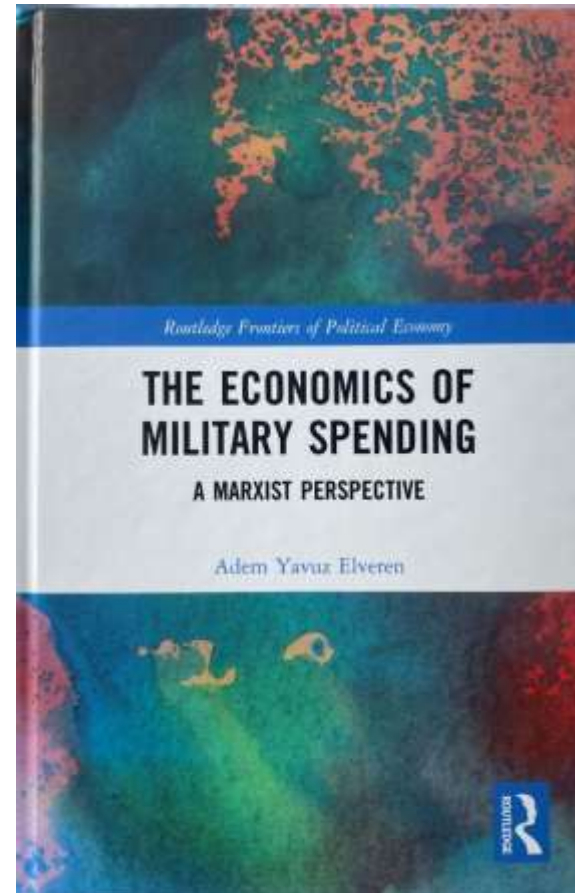
Marxist Economics

Milex has two vital roles:
1) creates hegemony
2) absorbs surplus

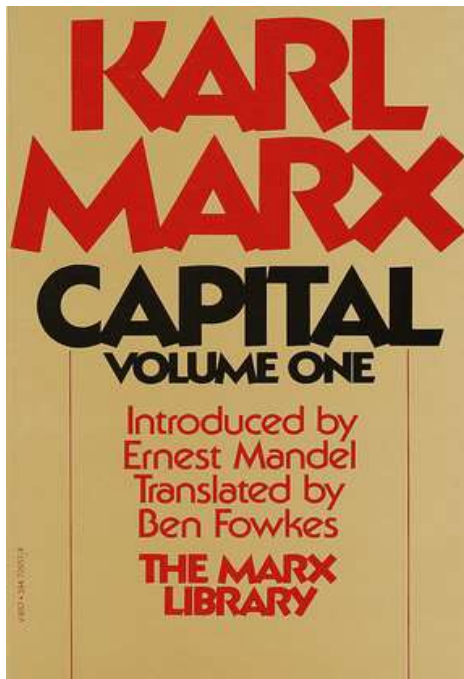
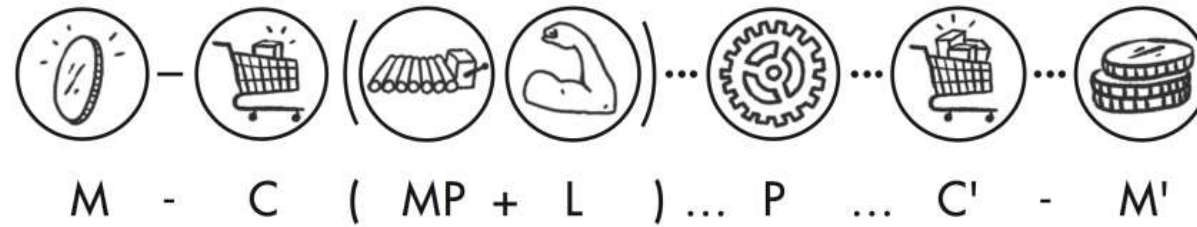
Neoclassical, Keynesian, and Marxist Schools

- Over 200 empirical works on the milex-growth nexus

- How about the rate of profit?
- Whole period vs neoliberal era
- US vs Turkey



Theoretical Model



$$\frac{dT^R}{dt} = 1 - \left[\begin{aligned} &(1-k)C_t + \left(1 - \frac{dT^W}{dt}\right)(1-\tau)kC_{t-T^W} \\ &+ \left(1 - \frac{dT^S}{dt}\right)(1-\tau)(1-p)S''_{t-T^S} \\ &+ \left(1 - \frac{dT^V}{dt}\right)\phi \mathbb{T}_{t-T^V} \\ &+ \left(1 - \frac{dT^Z}{dt}\right)(1-\phi)\mathbb{T}_{t-T^Z} \end{aligned} \right] / P_{t-T^R} \quad (27)$$

Empirical Analysis (Elveren 2020)

Table 8. Results of ARDL Bounds Test (Profit3).

Long Run Coefficients	full sample ARDL (1, 0, 3, 1, 2)	milex > milexmean ARDL (4,1, 0, 2, 1)	milex < milexmean ARDL (3, 0, 0, 2, 3)
Spending delay	-0.002*** (0.001)	0.001 (0.001)	-0.002*** (0.001)
Milex	0.005*** (0.001)	0.003** (0.001)	0.009 (0.006)
GDP	7.730*** (2.38)	0.388** (0.172)	0.105 (0.680)
Unemployment	0.001 (0.001)	0.003 (0.002)	0.001 (0.008)
R-squared	0.901	0.926	0.919
SER	0.003	0.002	0.003
Serial correlation	1.062 [0.367]	1.568 [0.194]	1.105 [0.353]
Normality	1.161 [0.559]	0.396 [0.820]	0.006 [0.996]
Heteroscedasticity	1.150 [0.325]	1.106 [0.369]	1.613 [0.105]
Bounds Test F-Statistic	8.721***	6.874***	8.876***

Note: Standard errors in parentheses, probabilities in brackets. ***, **, and * refer to $p < 0.01$, $p < 0.05$, $p < 0.1$ respectively.

Conclusion

- What matters?
- The effect of growth?
 - Short run vs long run?
 - Growth for whom?
- The effect on profit rate?
- The effect on economic development?

