From Debt to Public Money System

- Modeling A Transition Process Simplified -

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Money

and



Shock)



Classical Theory

Neutral Money

Market Liberals



American Monetary Act

Neoclassical Theory

1999

Market & Financial Liberals

Globalization

Stagflation 1970s Disequilibrium Analysis **Macroeconomic Dynamics** Kaoru Yamaguchi

Sept. 15, 2008 (Lehma

Depression,

Great 1

2nd

2008

2013

Debt Crisis

1935

Oct. 29, 1929 (Black Tuesday)

Banking Act of 1933 (Glass-Steagall Act)

JOHN MAYNARD KEYNES GENERAL

1935

1929

Great Depression,

Debt

Money

System

Money and **Macroeconomic Dynamics** Edition 2.0 System Dynamics Accounting **Approach** Kaoru Yamaguchi

506 pages

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Center, Japan

E-mail: director@muratopia.net

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 - Chap. 16 A Transition to the Public Money System
 AMI Conf. 2014

Fisher Link: Economic Accounting

This book is an attempt to put on a rational foundation, concepts and fundamental theorems of capital and income. It therefore forms a sort of philosophy of economic accounting, and, it is hoped, may supply a link long missing between the ideas and usages underlying practical business transactions and the theories of abstract economics.

Irving Fisher (the author of 100% Money, 1935)
The Nature of Capital and Income, Preface,
New Haven, Conn., June 1906

Accounting System Dynamics provides the Link

Public Money vs Debt Money System Structures

	Public Money System	Debt Money System
Money Issuer Its Owner	Public Money Administration Government	Central Bank Private Banks and Financiers
Bank Reserves	100% Reserve	Fractional Reserves
Money Supply	Public Money directly put into Circulation as Economy Grows Private Banking unaffected	Base Money: by Central Bank Deposits: by Bank Loans Money in Circulation: by Public
Interest	Interest-free	Interest-bearing Debt
Economic Policies	Public Money Policy (Public Money Financing)	Monetary Policy: Central Bank Fiscal Policy: Government

Chapter 15: Table 15.1 (available at www.muratopia.org)

Public Money vs Debt Money System Behaviors

	Public Money System	Debt Money System
Monetary Stability	Stable Money Supply Stable Price Level	Bubbles and Credit Crunches Inflation & Deflation
Financial Stability	No Bank-runs	Business Cycles (Booms and Busts)
Employment	Full Employment is Possible	Involuntary Unemployment
Government Debt	No Government Debt	Built-in Debt Accumulation → Recession & Unemployment
Inequality	Income Inequality between Workers and Capitalists	Income Inequality between Financiers and Non-financiers
Sustainability	Sustainability is Possible	Accumulated Debt →Forced Growth →Environmental Destruction

Chapter 15: Table 15.2 (available at www.muratopia.org)

What's wrong with the current Debt Money System?



Ask the "Chicago Plan" Economists

A PROGRAM FOR MONETARY REFORM

(A mimeograph circulated in July 1939 by Paul H. Douglas, Irving Fisher, Frank D. Graham Earl J. Hamilton, Willford I. King, and Charles R. Whittlesey)

(9) Fractional reserves give our thousands of commercial banks the power to increase or decrease the volume of our circulating medium by increasing or decreasing bank loans and investments.

This situation is a most important factor in <u>booms and</u> <u>depressions</u>.

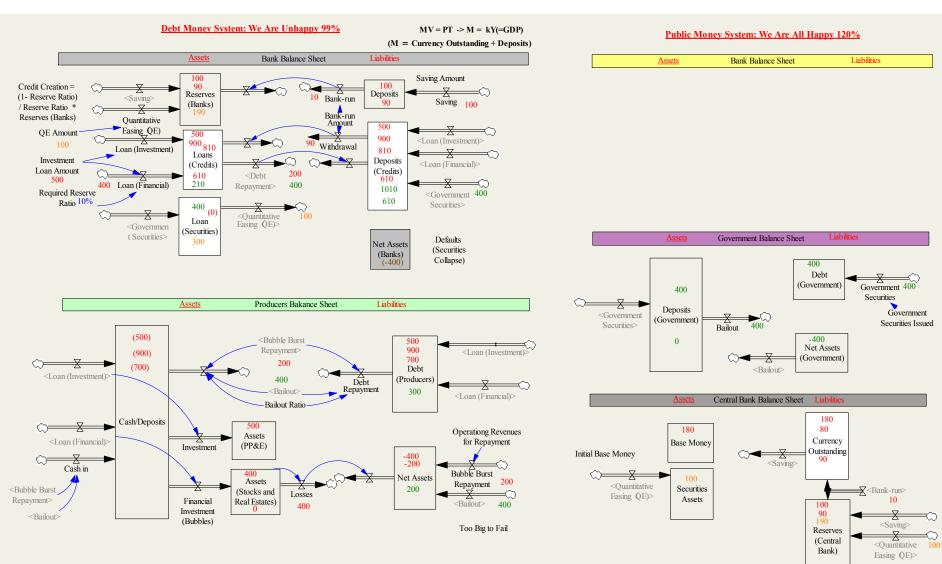
(17a) <u>Under the present fractional reserve system</u>, the only way to provide the nation with circulating medium for its growing needs is to add continually to <u>our Government's huge bonded debt</u>

Debt Money System Simulations 1 ~8 (booms and depressions, and debt)

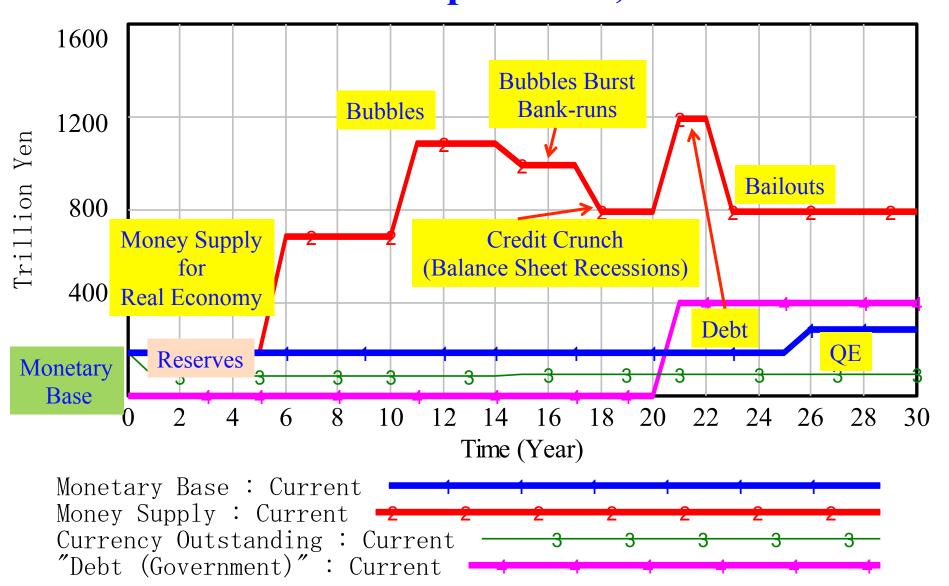
Debt Money System: We are unhappy 99%

- (0) Circulation of Initial Base Money
- (1) Fractional Reserve Banking System (t=5)
- (2) Making Bubbles (t=10)
- (3) Bubbles burst and Bank-runs (t=14)
- (4) Credit Crunch -> GDP Plummet (Depressions) (t=17)
- (5) Issuing Securities -> Money Supply Restored (t=20)
- (6) Bailout -> Accumulated Government Debt (New type Depression) (t=22)
- (7) Collapse of Securities -> Bank Insolvency -> Defaults
- (8) Financial Quantitative Easing (QE) -> Balance Sheet Recession M Constant)(t=25)

A Transition Process Model (using Accounting System Dynamics)



Simulations (1 ~8) booms and depressions, and debt



Monetary and Financial Stability- Systemic Failures of QE -

バブル崩壊で崩れたマネー関連指標の関係(2):EU

EU

消費者物価

(除く食料・エネルギー・酒類・タバコ)

 $M0_{144}$

M3

+1.0%

(2008年8月=100、季節調整値)

--ベースマネー

──マネーサプライ(M3)

----ユーロ圏向け民間信用

190

180

170

160

150

140

130

120

110

100

90

2.2

2.0

1.8

1.6

1.4

1.2

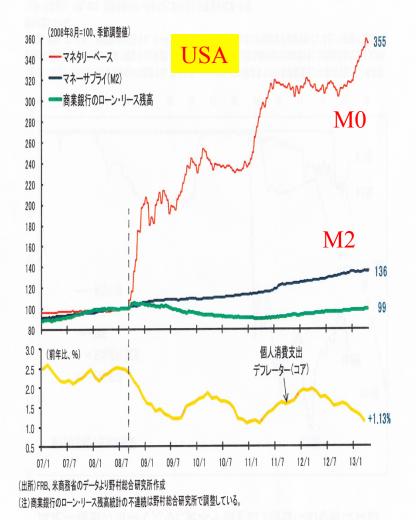
1.0

0.8

(出所) ECB, Eurostat

(注)ベースマネーの値は野村総合研究所が季節調整を行った。

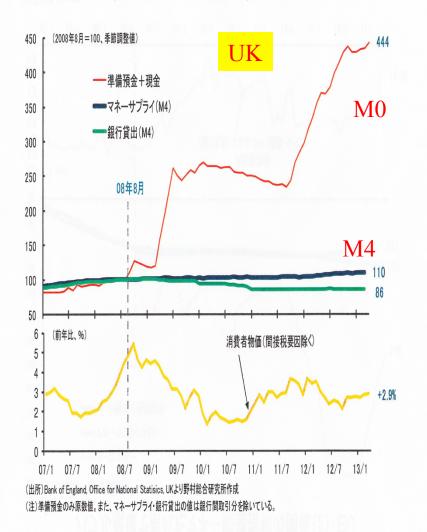
バブル崩壊で崩れたマネー関連指標の関係(1):米国



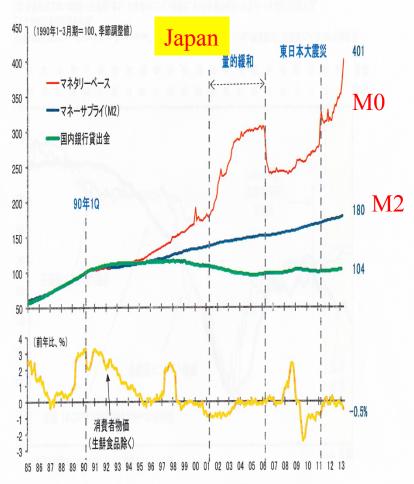
Figures by Richard Koo at the Nomura Securities Co. Ltd. Seminar, Tokyo, May 24, 2013

Monetary and Financial Stability - Systemic Failures of QE -

バブル崩壊で崩れたマネー関連指標の関係(3):イギリス



バブル崩壊で崩れたマネー関連指標の関係(4):日本



(注)国内銀行貸出金の季節調整と、2003年以前のマネーサプライ統計との接続は野村総合研究所が行った。 (出所)日本銀行「マネーストック」「マネタリーベース」「国内銀行の資産・負債等(銀行勘定)」

A Transition Process to the Public Money System



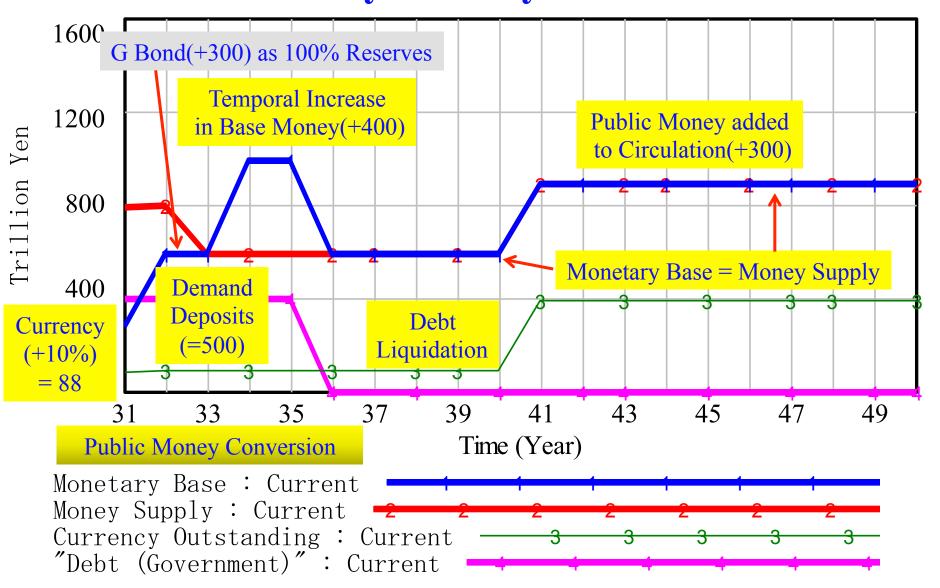
- 1. Governmental Control over the Issue of Money
- 2. Accomplishment of Full (100%) Reserve Ratio
- 3. Constant Flow of Money into Circulation (to sustain economic growth and welfare)

Simulations T1 ~T6 (monetary stability and no debt)

Public Money System: We are all happy 120%

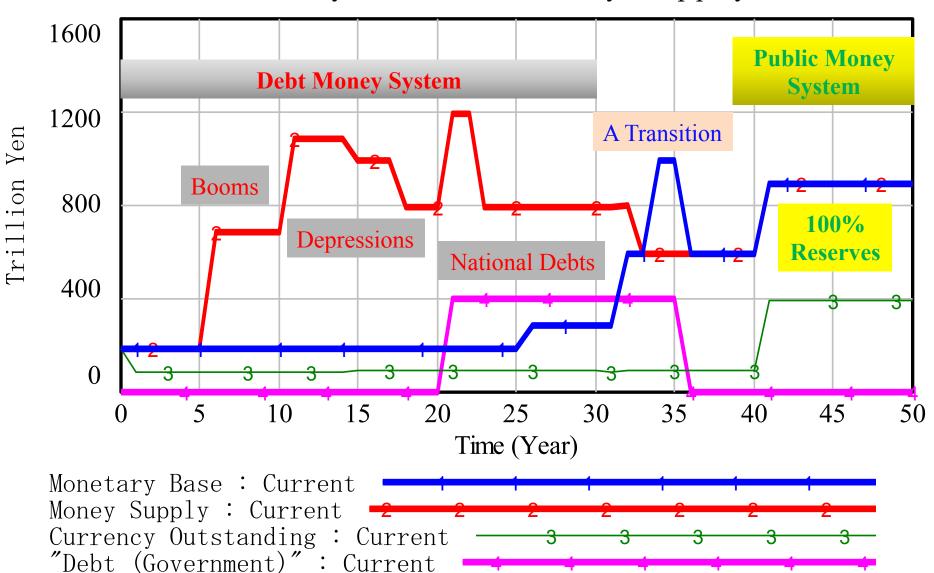
- (T1) Public Money Conversion (t=31)
- (T2) Government Securities as Reserves Collateral (t=31)
- (T3) Temporal Increase in Base Money Issued (t=33)
- (T4) Debt Liquidation, Money Supply Unchanged (No Inflation)(t=35)
- (T5) Public Money Converted to Time Deposits (t=37)
 - (T6) Public Money Added to Circulation for Welfare and Growth (t=40)

Simulations (T1 ~T6) monetary stability and no debt



Transitional Simulations 1 ~8 and T1~T6

Monetary Base and Money Supply



Conclusion

Irving Fisher Transition process can be carried out peacefully

without causing inflation and systemic chaos!

100% Money

Designed to keep checking banks 100% liquid: to prevent inflation and deflation:

1935

Banking Act of 1933 1999 (Glass-Steagall Act)

Market & Financial Liberals

Neoclassical

Theory

Sept. 15, 2008 (Leh ession,

Money and **Macroeconomic Dynamics** Kaoru Yamaguchi

Debt

Crisis

JOHN MAYNARD KEYNES GENERAL

Stagflation 1970s Disequilibrium Analysis

Thank You for Your Attention!

2008

Edition 2.0 is Coming Soon!

2nd

1929

Great Depression,

Oct. 29, 1929 (Black Tuesday)

Classical

Theory

Neutral

Money

Market

Liberals

Debt Money

System

1936

