



## An SEC-registered Investment Advisor



# **Eurodollar University**



# How Dollar becomes 'Dollar'





**66** The downside of a "dollar" as a opposed to a dollar is that so much is now unobservable in the form of bank activities that never see the light of day (again, the bank at the center). Since we cannot even define a wholesale "dollar" we cannot think to even attempt its measure as it amounts to **chasing a phantom.** 

AIP Research January 21, 2015 What Is A Dollar?

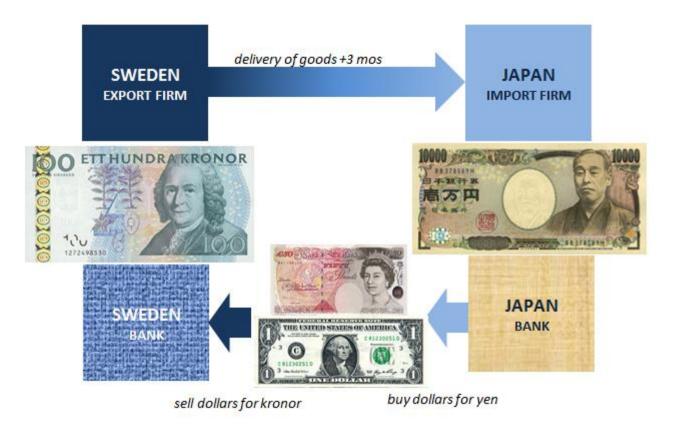
The market for bankers' acceptances was one of the first tasks of the Federal Reserve. There was a flourishing financial trade in acceptances in sterling which was purely a matter of the British pound being something like the global reserve currency, at least for a vast portion of global geography. With the United States becoming an industrial and trading power, American interests in financing trade from the point of view of the dollar were relatively uncontroversial. The Fed's role in acceptances was to provide liquidity as "needed", as the Fed was authorized to buy them with some discretion.

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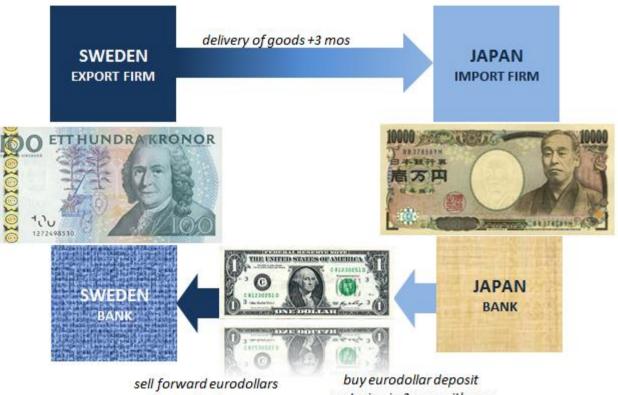
AIP Research January 5, 2016 Forward China











3 mos for kronor

maturing in 3 mos with yen



# Where Do Eurodollars Come From?



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Selected Papers . No. 34

Recently, I heard a high official of an international financial organization discuss the Euro-dollar market before a collection of high-powered international bankers. He estimated that Euro-dollar deposits totaled some \$30 billion. He was then asked: "What is the source of these deposits?" His answer was: partly, U.S. balance-of-payments deficits; partly, dollar reserves of non-U.S. central banks; partly, the proceeds from the sale of Euro-dollar bonds.

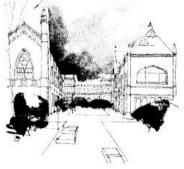
The Euro-Dollar Market: Some First Principles

By MILTON FRIEDMAN

This answer is almost complete nonsense.

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Milton Friedman Re-Published July 1971



GRADUATE SCHOOL OF BUSINESS UNIVERSITY OF CHICAGO 9



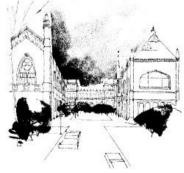
Selected Papers . No. 34

**66** The correct answer for both Euro-dollars and liabilities of U.S. banks is that **their major source is a bookkeeper's** 

pen.

The Euro-Dollar Market: Some First Principles

By MILTON FRIEDMAN

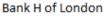


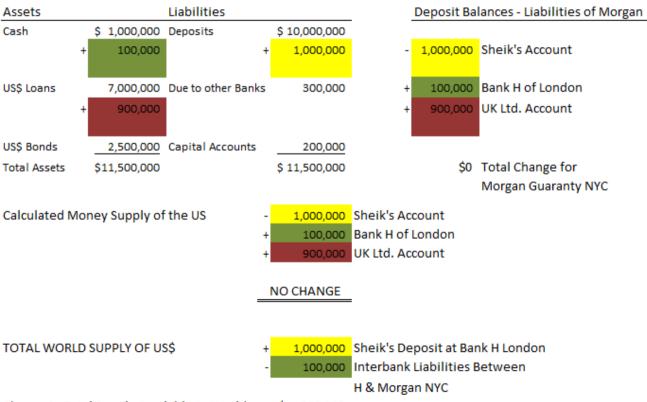
Milton Friedman **Friedman Re-Published July 1971** GRADUA

graduate school of business university of chicago 10



#### EURODOLLAR



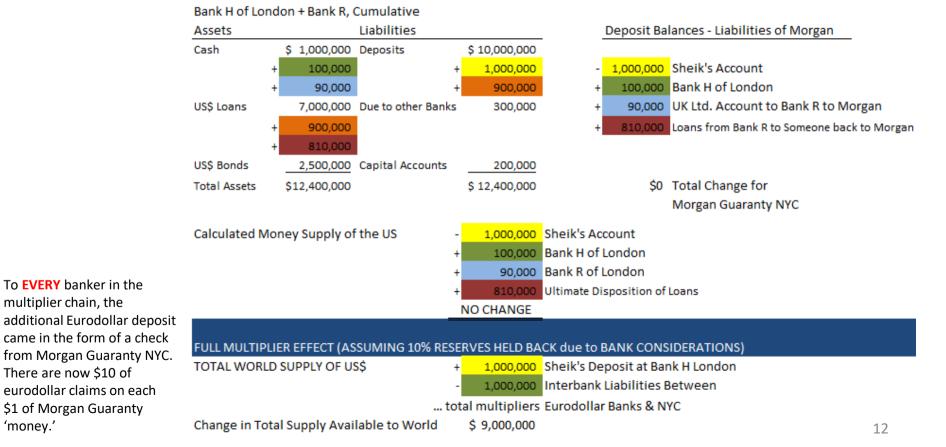


Change in Total Supply Available to World \$ 900,000 NOTE: \$100,000 is transferred from NYC to London, Interbank double counted

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#### Morgan Guaranty NYC

#### Morgan Guaranty NYC



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'money.'

FURODOLLAR

#### London Subsidiary Branch - Eurodollar Operation

Assets			Liabilities		
Deposits at FRBNY	\$	6,000,000	Time Deposits	\$ 100,000,000	
Other Cash Assets		4,000,000	(CD's)		
Loans		76,000,000			
Bonds	_	14,000,000		-	
Total Assets	\$:	100,000,000	Total Liaibilities	\$ 100,000,000	
Required Reserves (in 1969 before change in Regulation M) \$6mm					

Assets	L	iabilities	
	\$ -	\$	-

SHEIK CD matures of \$10mm, wants higher rates but NYC office unable to pay due to Regulation Q.

To save the relationship, NYC notes that its London sub is not prohibited and can pay competitive rates.

#### NYC issues a check to London sub for \$10mm

#### NEW YORK PARENT OFFICE

Assets		Liabilities			
Deposits at FRBNY	\$ 6,000,000	Time Deposits	\$ 100,000,000		
Other Cash Assets	4,000,000	(CD's) -	10,000,000		
Loans	76,000,000				
Bonds	14,000,000	Due to London sub +	10,000,000		
Total Assets	\$100,000,000	Total Liabilities	\$ 100,000,000		
Required Reserves (in 1969 before change in Regulation M) \$5.4mm					

Not required to reserve against liabilities to foreign branches

London Subsidiary Branch - Eurodollar Operation

Assets		Liabilities					
Due from NYC parent	\$ 10,000,000	Time Deposits	+	Ş	10,000,000		
(CD's)							
On a consolidated ba	sis, NYC bank bo	ooks are wholly u	inch	ang	ed.		

However, NYC Parent was able to pay competitive deposit rate and reduce its reserve requirement at the same time. 13



#### NEW YORK PARENT OFFICE



Not a single **Federal Reserve Note moves** anywhere everything remains interbank liabilities





# THE WORD EURODOLLAR IS NOT **A TECHNICALLY PRECISE** TERM

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In reply, Mr. Coombs said an effort could be made to develop such a measure, but he doubted that it would be successful. The volume of funds which might be shifted back and forth between the of the monetary statistics arose in connection with Eurodollars; he suspected that at least some part of the Euro-dollar-based money supply should be included in the U.S. money supply. More generally, he thought M1 was becoming increasingly obsolete as a monetary indicator. The Committee should be focusing more on M2, and it should be moving toward some new version of M3--especially because of the participation of nonbank thrift institutions in money transfer activities. Some of those institutions were offering 5-1/4 per cent on time accounts from which funds could be transferred into a demand deposit by making a telephone call.

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## FOMC September 1974 Memorandum of Discussion

**66** For example, in the mid-1970s, just when the FOMC began to specify money growth targets, econometric estimates of M1 money demand relationships began to break down, predicting faster money growth than was actually observed. This breakdown--dubbed "the case of the missing money" by Princeton economist Stephen Goldfeld (1976)--significantly complicated the selection of appropriate targets for money growth. Similar problems arose in the early 1980s--the period of the Volcker experiment--when the introduction of new types of bank accounts again made M1 money demand difficult to predict.

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Chairman Ben Bernanke Nov. 10, 2006 Speaking at 4<sup>th</sup> ECB Conf. STEPHEN M. GOLDFELD Princeton University

#### The Case of the Missing Money

THE RELATION between the demand for money balances and its determinants is a fundamental building block in most theories of macroeconomic behavior. Since it is also a critical component in the formulation of monetary policy, it is not surprising that the money-demand function has been subjected to extensive empirical scrutiny. The evidence that emerged, at least prior to 1974, suggested that only a few factors (essentially income and interest rates, with due allowance for lags) were needed to explain adequately the quarterly movements in money demand. There were episodes that, during their course, gave the impression that the moneydemand function was shifting. On the whole, however, in the time allowed for final data revisions by a "wait and see" attitude, the apparent puzzles tended to clear up.<sup>1</sup>

As has been widely documented,<sup>2</sup> the U.S. economy is once again experiencing an apparent shift in the money-demand function. In particular, when money-demand functions that have been successfully fitted to pre-1974 data are extrapolated into the post-sample period, they consistently and significantly overpredict actual money demand. Furthermore, as the economy has moved into the upturn phase of the business cycle, the forecasting errors have mushroomed. While one might hope that subsequent data ravisions could "scolar the present puzzle this canning attitude





The results of this paper are difficult to characterize. Insofar as the objective was an improved specification of the demand function for M1, capable of explaining the current shortfall in money demand, the paper is rather a failure. Specifications that seem most reasonable on the basis of earlier data are not the ones that make a substantial dent in explaining the recent data.

## Stephen Goldfeld The Case of the Missing Money



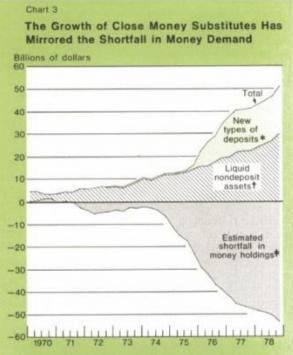


**EURODOLLAR** IS NOT STRICTLY OFFSHORE DEPOSITS OF OTHERWISE DOLLARS. IT INCLUDES THE TRANSFORMATION OF BANKING INTO A **WHOLESALE** MODEL OFTEN FREE OF DEPOSITS ALTOGETHER. 19

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Large corporations are able to minimize their demand deposit balances by placing excess funds each day in the short-term money market. One way to do this is by arranging an RP - asecured placement of immediately available funds in which the borrower sells securities to the lender and agrees to repurchase them at a predetermined price at a future date (often the next day). Such a transaction between a corporation and a commercial bank would convert a corporation's demand deposit asset into an interestbearing asset that would not be counted in any of the current or proposed aggregates. Yet, since the funds can be committed for periods of time as brief as just overnight, they are still readily available for transaction purposes.

## FRBNY Spring 1979 Quarterly Review



\* Sum of corporate and state and local government savings deposits, NOW accounts, savings subject to automatic transfers, credit union share drafts, and demand deposits at thrift institutions.

- \* Sum of repurchase agreements (RPs) at nonbank Government securities dealers with nonfinancial corporations, RPs at forty-six large commercial banks, and assets of money market mutual funds.
- Post 1969 errors from Goldfeld's money demand equation using the current definition of M1.

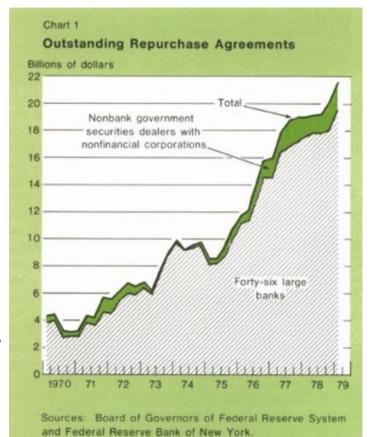


## **MISSING MONEY** = WHOLESALE

ANY NON-TRADITIONAL ACCOUNT TRANSACTION THAT SATISFIES MONETARY NEEDS OUTSIDE THE CLASSIFICATION OF TRADITIONAL MONEY AND THE FRAMEWORK OF TRADITIONAL MONEY MECHANICS.

# TRADED BANK LIABILITIES

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# EURODOLLAR IS TWO PARTS: WHOLESALE + OFFSHORE



# EURODOLLAR IF IT'S OFF IN THE SHADOW'S, HOW DO WE RECOGNIZE SCALE?



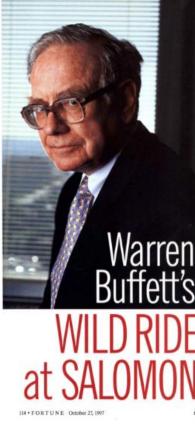
WHOLESALE, OFFSHORE WHAT?

# TRADED BANK LIABILITIES

**66** In April 1991, Salomon bid for \$3 billion of a \$9 billion five-year note auction, being awarded that full allotment plus an overbid on a customer account which was not again authorized (Mozer placed \$2.5 billion in bids for a customer that claimed it only approved \$1.5 billion, which placed \$600 million into Salomon's account and thus more than 35%). But it was the May 22, 1991, auction that went not just too far, causing more than a little consternation and attention. All told, Salomon placed bids for its accounts and those of customers, plus an undisclosed existing long position, for more than 100% of available two-year notes. Further, these bids were highly aggressive, priced a full 2 bps through the whenissued price.

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## Jeffrey P. Snider July 10, 2015 The Crony Pretense Behind Warren Buffet's Banking Buys



A harrowing, bizarre tale of misdeeds and mistakes that pushed Salomon to the brink and produced the "most important day" in Warren Buffett's life. By Carol J. Loomis

A starber I. Weil, 64, the dentmaking CEO of Traveles Group, terps up to his biggest aspinition ever-the purchase of Salornon Exe. for 35 billion-a farmous Wall Street Eggare, Warren E. Buffirt, 63, etps out of Salornon K. Warren E. Buffirt, 63, etps out of Salornon K. Warren E. Buffirt, 63, etps out of Salornon K. Warren E. Buffirt, 63, etps out of Salornon K. Warren E. Buffirt, 64, etps out of Salornon K. Warren E. Buffirt, 64, etps out of Salornon K. Warren E. Buffirt, 64, etps out of Salornon K. Warren Herchkein Fallowing, became Salornon's Market and Salornon, and the start of the salornon functionality, and revely as Salornon for nine months in 1993 and 1992, whon the firm's Market and Salornon, a lot of what you will buffert and Salornon, and the salor wire in subcle guests a share bolyens of thereballer of Buffert's for about en L have been a friand of Suffert's for about end bare during every part on the first with a share bolyen wire market As a fried, 140 scene editing every salor of the first's well-books and reduct reduktorenden revention for the reduction of resons tablead abare reduktore at the share out the model of suffert's well-books and there balance the share the share the reduction of the reduction of the share reduction of the first's well-books and there balance the share the share the reduction of the share reduction of the share the share the reduction of the share reduction of the share the share the reduction of the share the share the share the share the reduction of the share t

PHOTOGRAPH BY DAVID BURNETT--CONTACT

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Investigations are continuing, but findings so far indicate that the crisis escalated far out of proportion to the money involved. Mozer's inept little scam had netted the firm only a pittance, between \$3.3 million and \$4.6 million, and cost taxpayers nothing in interest. Contrasted with the billion-dollar looting of the stock market by convicted felons Ivan F. Boesky and Michael Milken, Mozer's crime was small potatoes--but it was enough to bring his swaggering company to the brink of ruin.

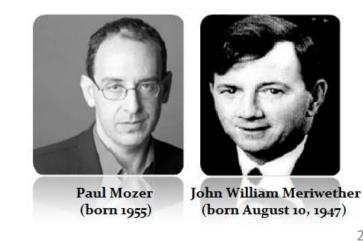
## LA Times February 16, 1992 Taming The Bond Buccaneers at Salomon Brothers

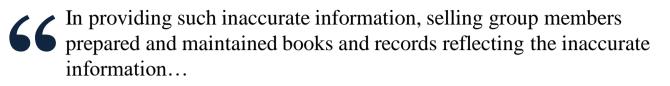


I'd stumbled into a job at Salomon Brothers in 1985, and stumbled out, richer, in 1998, and even though I wrote a book about the experience, the whole thing still strikes me me as totally preposterous-which is one reason the money was so easy to walk away from.

(Michael Lewis)

izquotes.com





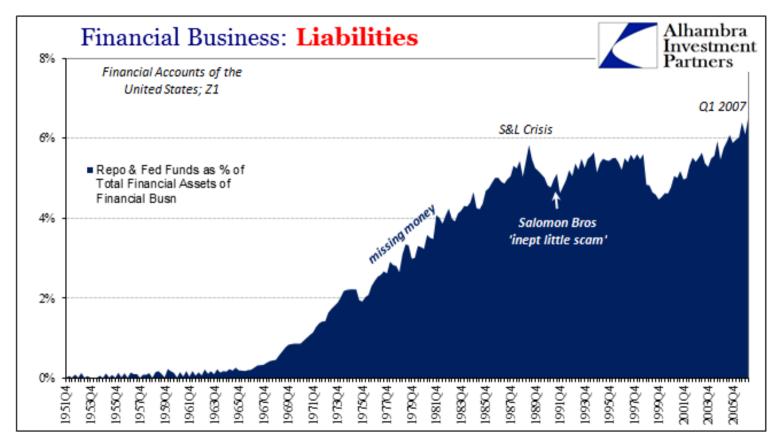
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Some traders added random amounts to their actual customer orders. Others increased the number and amount of customer orders reported to the GSEs to include "anticipated" or "historic" sales, i.e., an amount that the trader believed, based on past experience, the selling group member would be able to sell after the GSE announced the price. Even in those instances where a selling group member had identifiable customers for the number and amount of the customer orders reported to the GSEs, the trader would not indicate to the GSEs that many of the orders were subject to significant conditions.



## US Government January 1992 Joint Report on the Government Securities Market





The world's currency markets, it seems, are no longer governed by central bankers in Washington and Bonn, but by traders and investors in Tokyo, London and New York, as the chaos in the currency markets this past week has shown...

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As of February 1990, the daily worldwide volume of currency trading had reached \$650 billion, more than the market value of the 10 largest American companies, according to the most recent figures from the Bank for International Settlements in Basel, Switzerland. Improved technology, new financial instruments and the growth of international investment have combined to make the currency markets ever more fluid.

> NY Times Sept. 17, 1992 Agility Counts in Currency Chaos

In former times, powerful central banks could usually frustrate speculators. They did so by simply buying massive amounts of the weaker currency and flooding the market with the stronger currency. But times are changing. While the central banks can mobilize tens of billions of dollars, trading in foreign currency markets now runs to a trillion dollars a day.

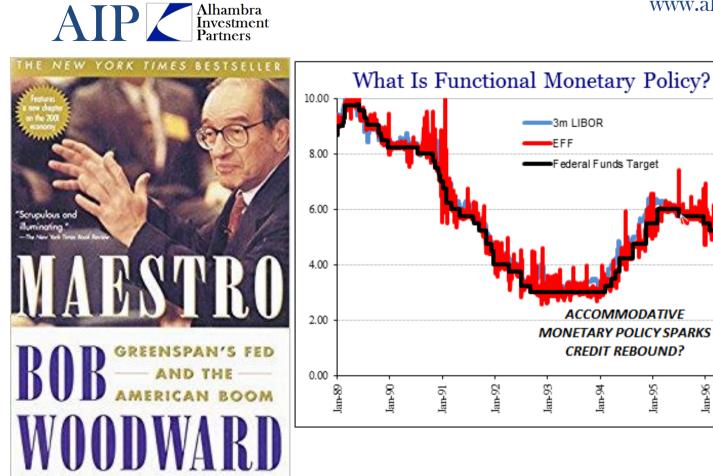
Forbes Nov. 9, 1992 How the Market Overwhelmed The Central Banks







Forget money, money demand, or whatever it might be in the future. Alan Greenspan's Fed would control every single bit of it by targeting one single interest rate. Like something out of a Tolkien novel, it was one rate to control it all. The **federal funds** rate.



AUTHOR OF EIGHT #1 NEW YORK TIMES BESISELLERS

Jan-99

Jan-98

Jan-96

Jan-97

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# That's what we were told, and what today many (most?) people still believe. How Did/Does It Really Work?