

Federal Funds



S<sub>0</sub> (from banks with excess reserves)

## Federal Funds Rate

### The effect of a decrease in GDP on the Federal Funds Rate



The public deposits a smaller portion of their income in checking accounts





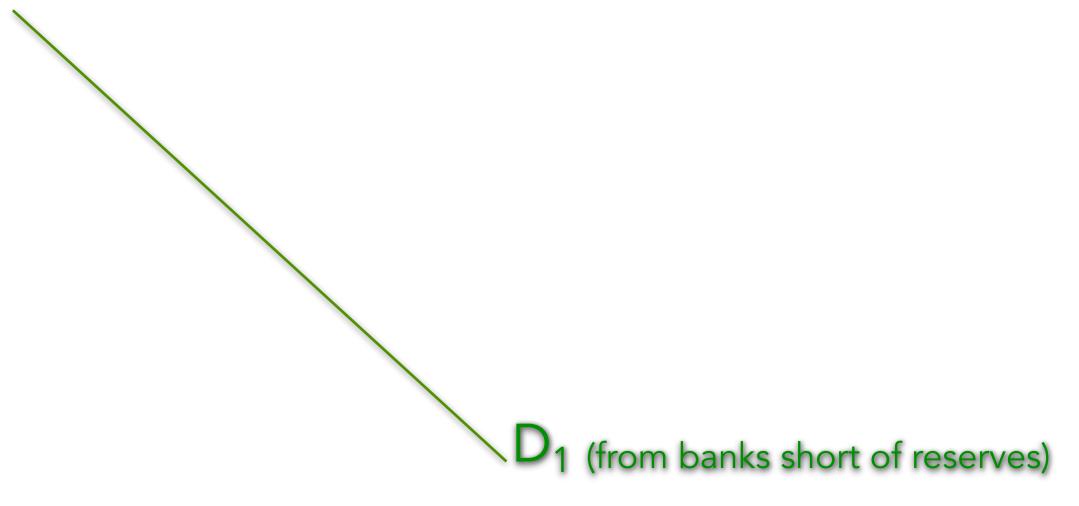
 $ffr_e = 3\% - -$ 

 $Q^s = Q^d$ 

#### Assume the

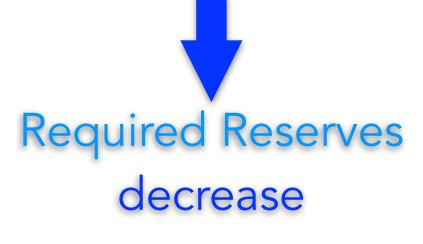
market starts at

equilibrium



#### The Fed Funds Rate decrease

#### When GDP decrease, consumers buy less: The public need less liquid balances for fewer transactions



### Demand for funds

decrease

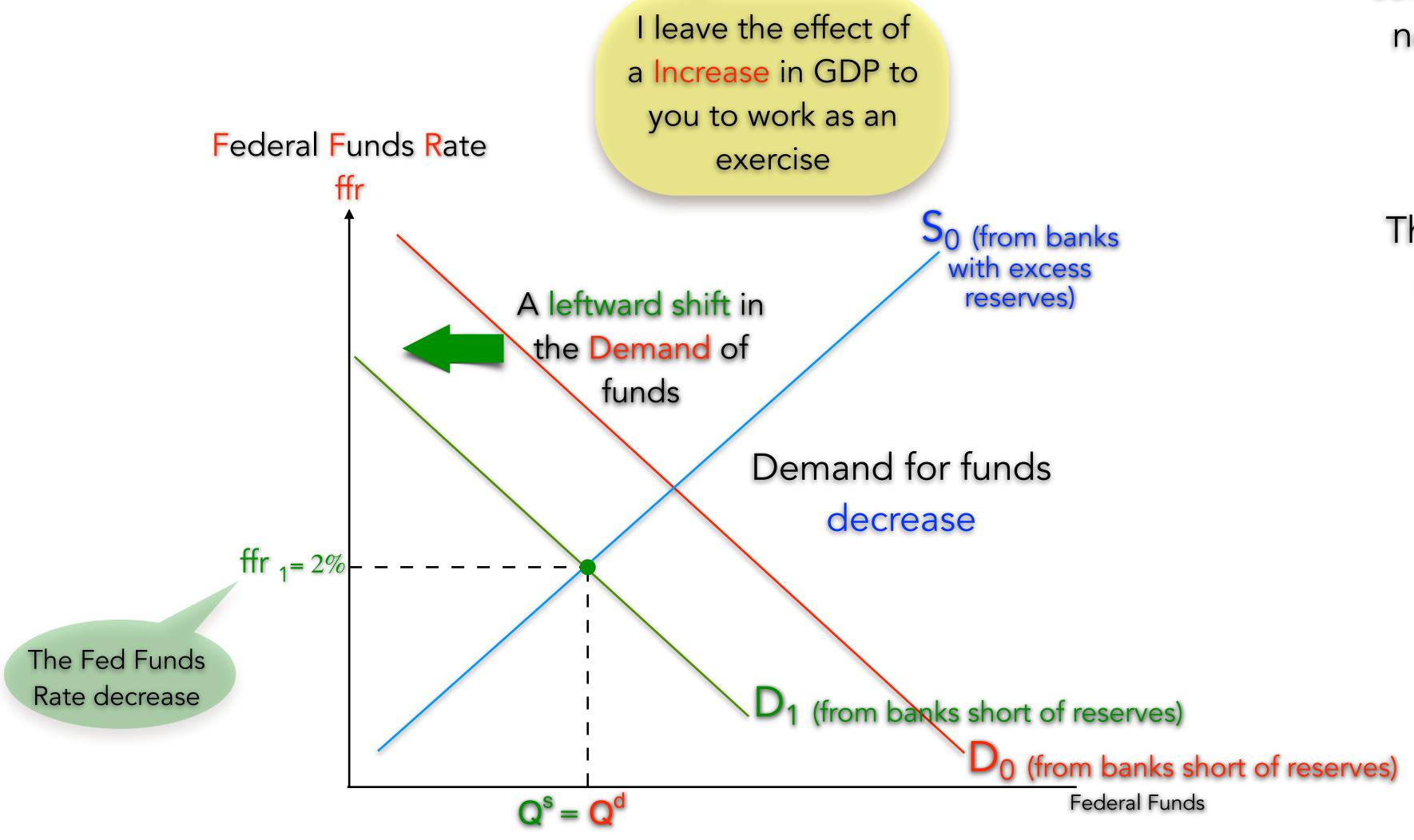


day short of reserves

# Fewer banks will end the

I leave the effect of a Increase in GDP to you to work as an exercise

#### The effect of a decrease in GDP on the Federal Funds Rate



When GDP decrease, consumers buy less: The public need less liquid balances for fewer transactions

The public deposits a smaller portion of their income in checking accounts

Deposits decrease

Required Reserves decrease

Fewer banks will end the day short of reserves

OF 2002-2007
Deted February 15, 1977
Pue February 15, 2007

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Redominate on call on and after February 16, 2802 CRCSLAS Re. 4-72



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THE ENHED STATES OF AMERICA

FOR VALUE RECEIVED PROMISES TO PAY TO THE BEARER THE SUM OF

ONE THOUSAND DOLLARS

ON THE DUE DATE, AND TO PAY INTEREST ON THE PRINCIPAL SUM FROM THE DATE HEREOF, AT THE RATE SPECIFIED HEREON, THIS BOND AND INTEREST COUPONS ARE PAYABLE AT THE DEPARTMENT OF THE TREABURY, WASHINGTON, D.C., OR AT ANY PEDERAL RESERVE BANK OR BRANCH, THIS BOND IS ONE OF A SERIES OF BONDS, AUTHORIZED BY THE SECOND LIBERTY BOND ACT, AS AMENDED, ISSUED PURBUANT TO THE DEPARTMENT OF THE TREASURY CIRCULAR REFERRED TO HERSON, ALL OR ANY OF THE BONDS OF THIS SERIES MAY BE REDEEMED, AT THE OPTION OF THE UNITED STATES, OF AND AFTER PERRUARY 15, 2002, AT PAR AND ACCRUED INTEREST, ON ANY INTEREST DAY OR DATE: THE CONTRACT MENTHS' NOTICE OF REDEMPTION GIVEN IN SUCH MANNER AS THE SECRETARY OF THE TREASURE PRACTICAL SECRETARY OF THE METHOD AS MAY BE PRESCRIBED BY THE SECRETARY OF THE TREASURY, FROM THE DATE OF SECRETION DESIGNATED IN ANY SUCH NOTICE, INTEREST ON THE SONDS CALLED FOR REDEMPERS WILLIAM DEADS. THE INCOME DERIVED FROM THIS BOND IS SUBJECT TO ALL TAXES IMPOSED UNDER THE INTERNAL REVENUE CODE OF 1984. THIS BOND IS SUBJECT TO ESTATE, INHERITANCE, GIFT OR OTHER ESCIES TAXES, WHETHER FEDERAL OR STATE, BUT IS EXEMPT FROM ALL TAXATION NOW OR HEREAFTER IMPOSED ON THE PRINCIPAL OR INTEREST HEREOF BY ANY STATE, OR ANY OF THE POSSESSIONS OF THE UNITED STATES, OR BY ANY LOCAL TAXING AUTHORITY, THIS SOND IS ACCEPTABLE TO SECURE DEPOSITS OF PUBLIC MONEYS, IT IS NOT ACCEPTABLE IN PAYMENT OF TAXES.

WASHINGTON, D. C., FEBRUARY 15, 1977.

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