















































































































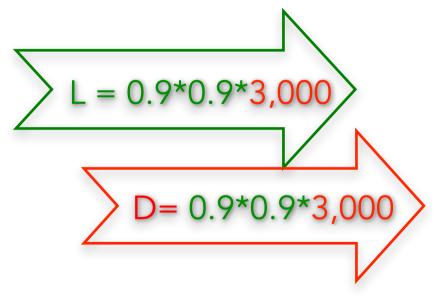








3,000b











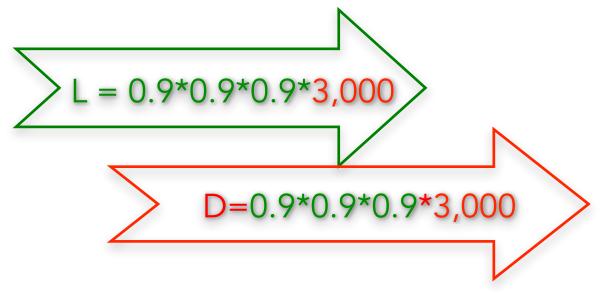
























-









































D= 0.9*0.9*0.9*0.9*3,000







Loans become Deposits





+ 0.9*0.9*0.9*0.9*3,000

+ 0.9*0.9*0.9*0.9*0.9*3,000













































































Total new Deposits in all

checking accounts













Factor out 3,000

3,000 (1

+

+ 0.9*0.9

+ 0.9*0.9*0.9

+ 0.9*0.9*0.9*0.9

+ 0.9*0.9*0.9*0.9

• • • • 1

,000 (1

+

+0.9

0.9

_

 $+0.9^{4}$

+0.9

 $+0.9^6$

 $\Lambda D =$ 3.000 $\Delta D = 3,000 (10)$

 $\Delta D = 30,000$ billion

A 3,000 injection of new money into the banking system, has the potential

to increase total balances in deposit

accounts by 30,000 billion



Banks are allowed to lend 90% of Deposits

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This large sum of terms equals

∆ is the symbol we will use for "change in"

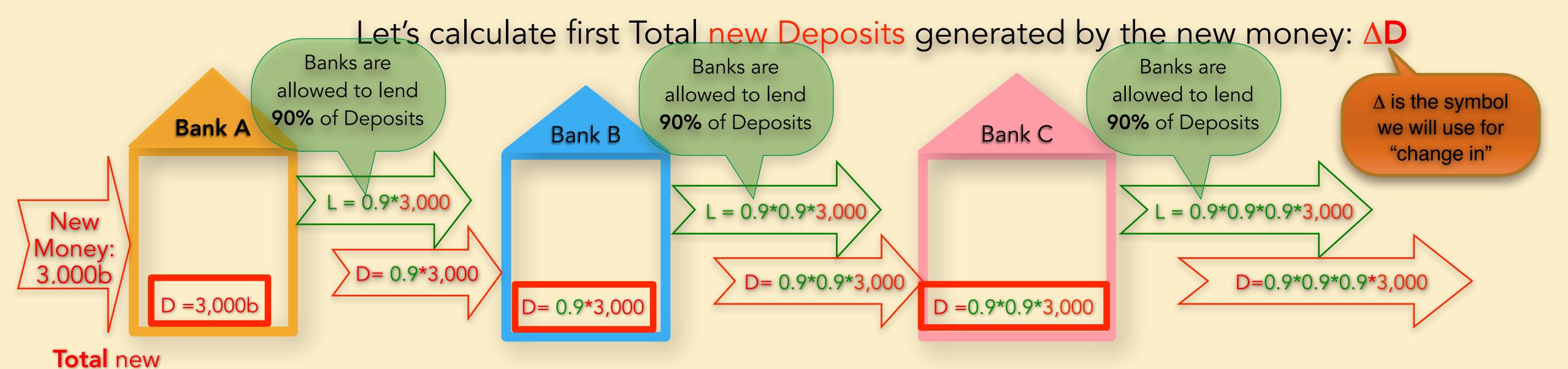
Let's calculate first Total new Deposits generated by the new money: ΔD

D = 0.9*3,000

D = 0.9*0.9*3,000

D=0.9*0.9*0.9*3,000

+... this process continues for several rounds

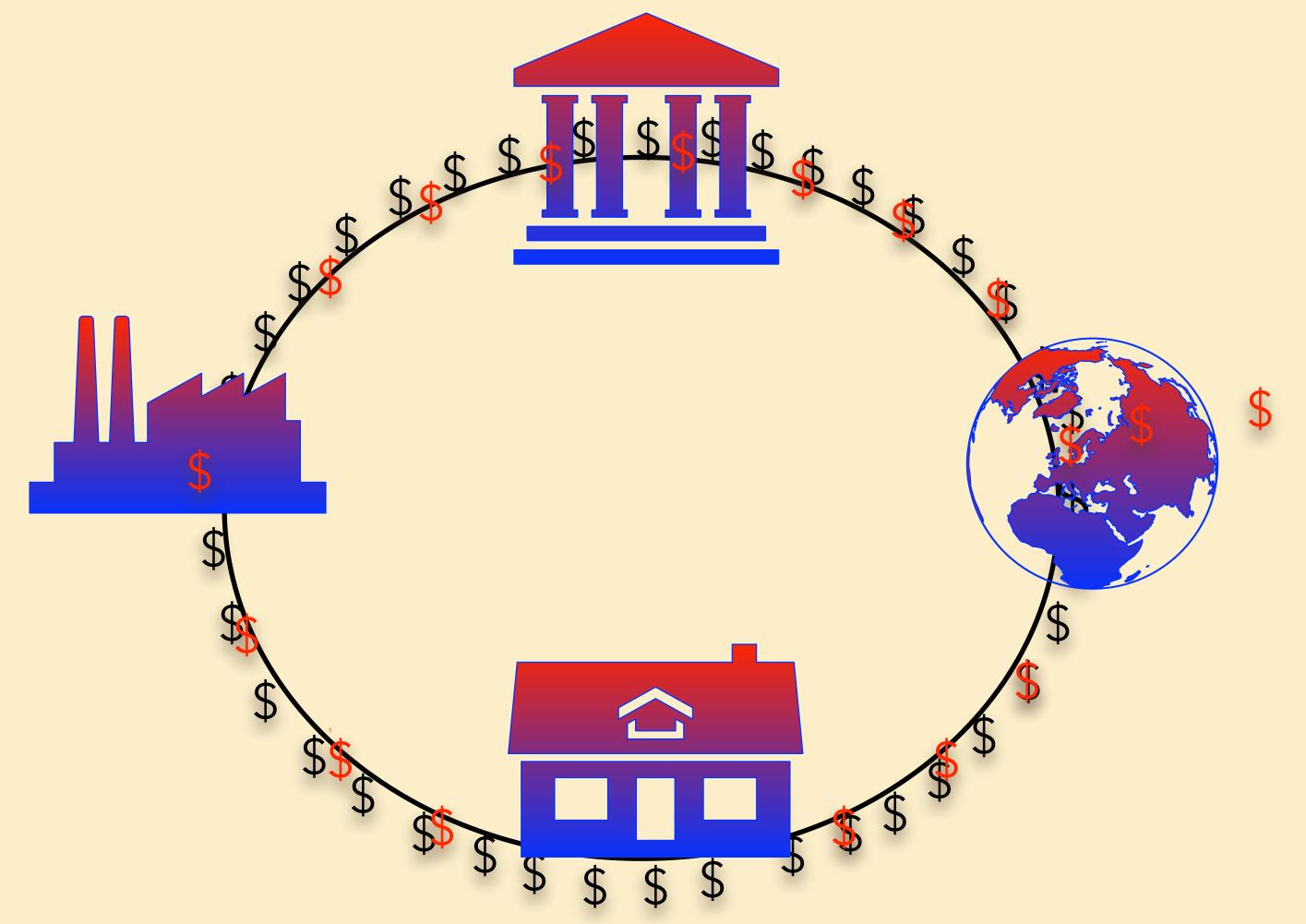


+... this process continues for several rounds

 $\Delta D = 3,000 (10)$

 $\Delta D = 30,000$ billion

A 3,000 injection of new money into the banking system, has the potential to increase total balances in deposit accounts by 30,000 billion







The Federal Reserve Bank creates new money