

AGMP

$i$

$y_{i-1}$

=  $\begin{cases} \text{wages as salaries} = v \\ \text{interest bank deposits} \end{cases}$

$\sum y_i = ?$  Natural  
using

$i = \frac{\text{Set of residents}}{200 \text{ days}}$

includes  
crops, milk, stock, MFS etc  
rest of income  
last on rest  
regd. res.  
consumption

your income

$$\sum_i y_i = \sum_k (O_k - I_k) \equiv \sum_k VA_k$$

$k$  - production entity : firm

$$\sum_k O_k = \text{Natural output?}$$

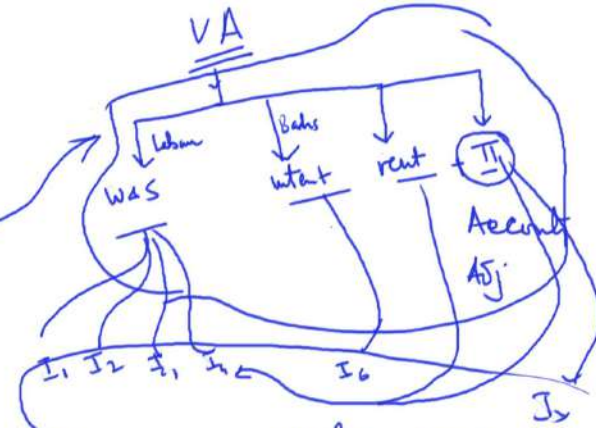
$$\sum_k (O_k - I_k) = \sum_k VA_k$$

crops?  
lamb?

farmer  
HHS  
(Includes)  
 $i$   
Family  
 $\downarrow$   
 $k$

$O - I$

VA



National output

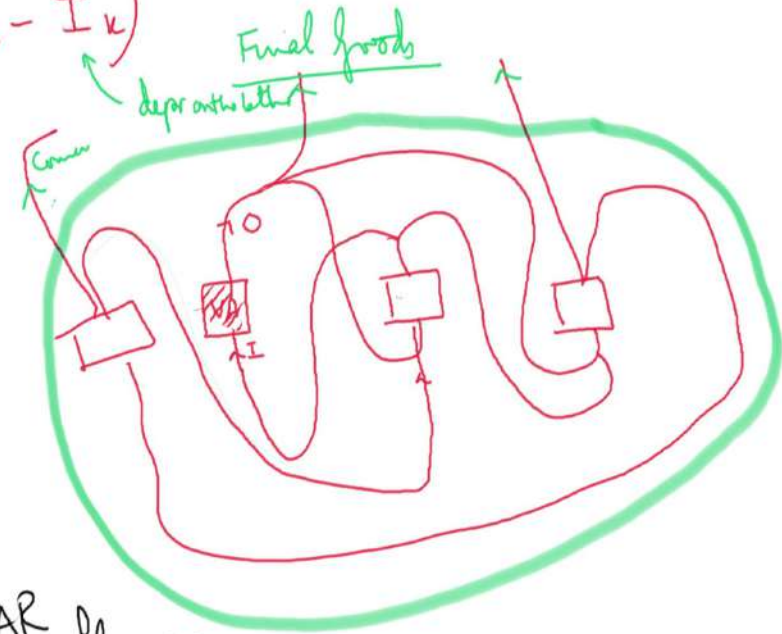
What is  $I_k$ ?

$$\sum_i y_i = \sum_k UA_k$$

$$\equiv \sum_k (O_k - I_k)$$

What is input  
 $I_k$ ?

$$\sum_g FG_g$$

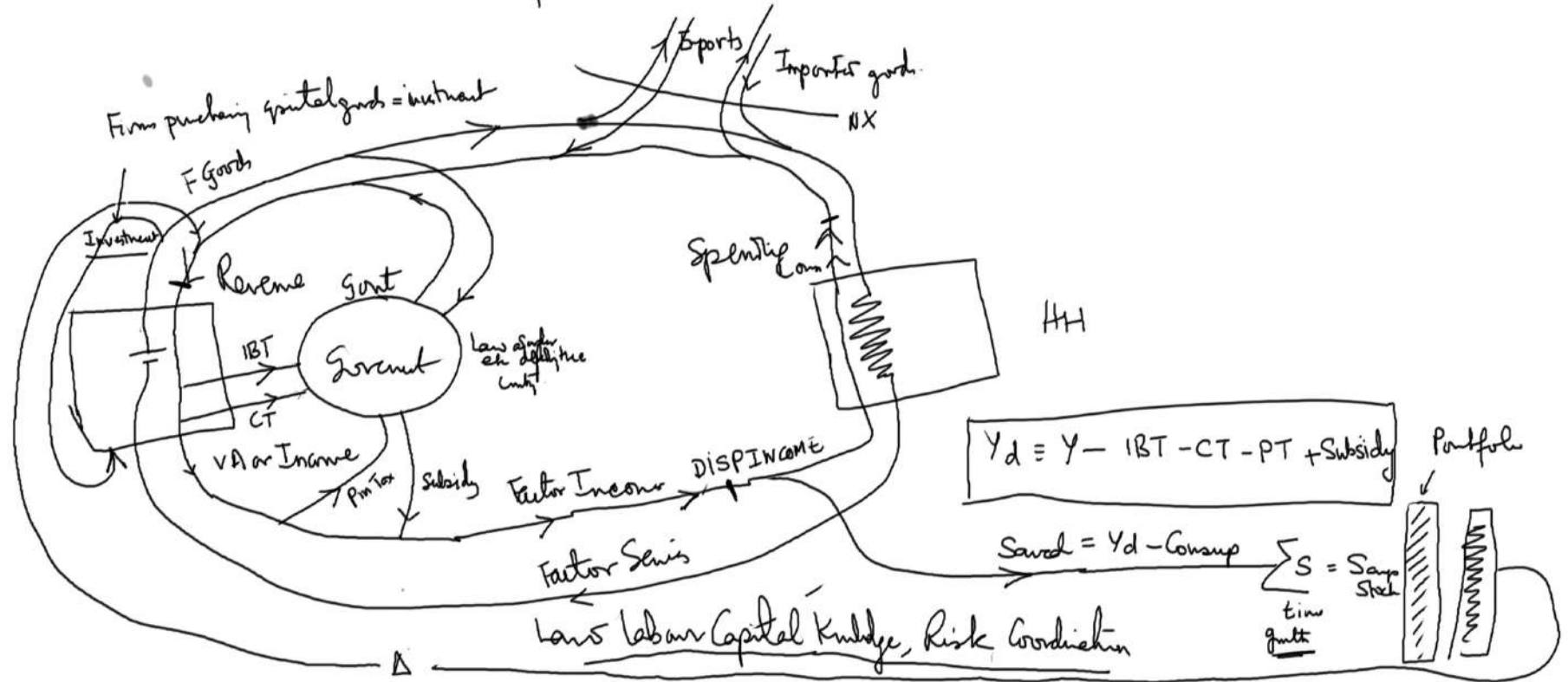


CIRCULAR flow of income etc

$$NO = \sum_g FG = \sum_i y_i = \sum_k O_k - I_k$$

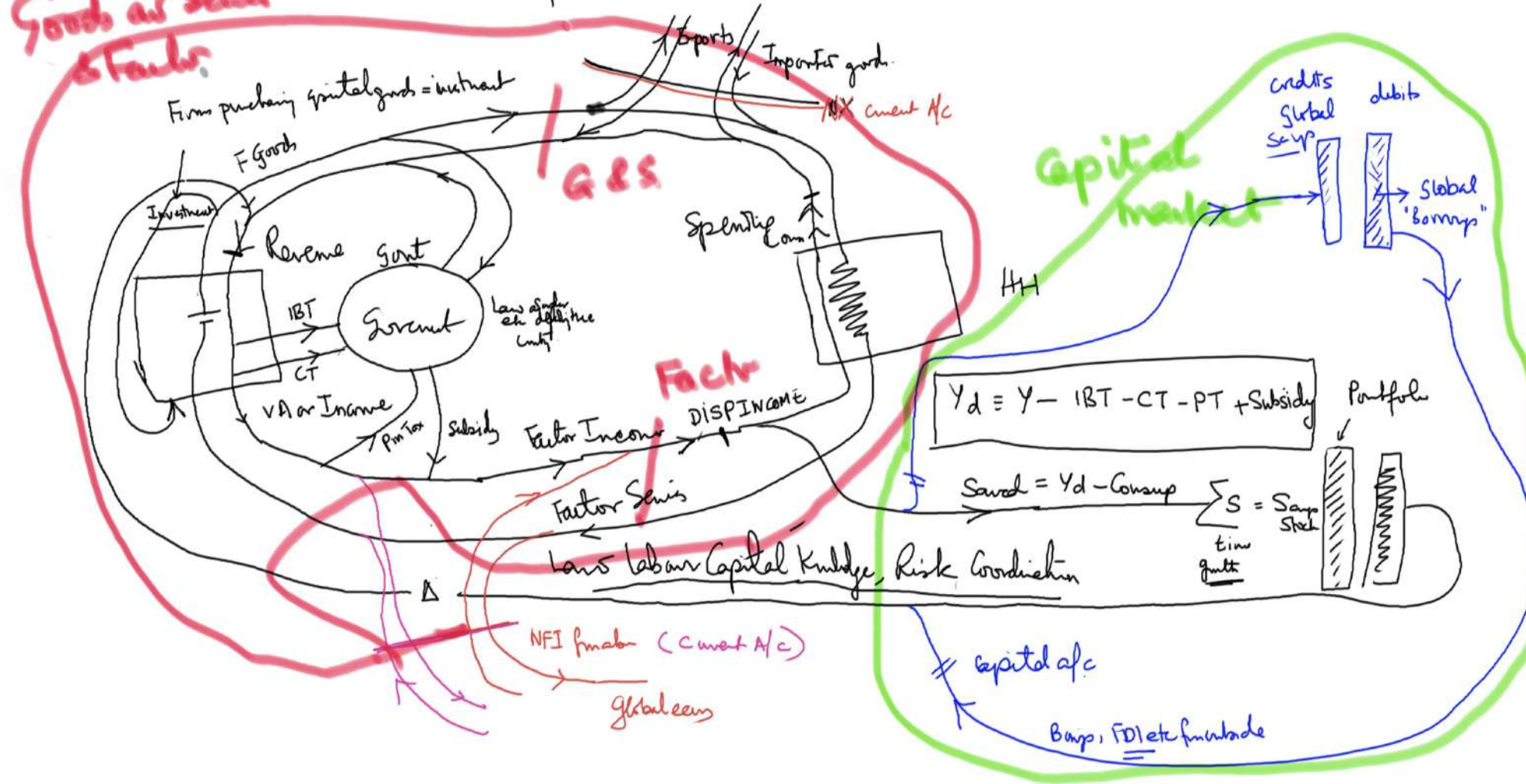
Labour Investments  
~~RM~~ ✓  
~~Taxes~~ ✓  
~~IX~~ ✓  
~~Capital~~ ✓  
Capital goods

# Circular flow model



Goods and Services & Factor

Crash's flow model



$$GDP = Y = \text{Expenditure} = \text{Consumption} + \text{Govt Expenditure} \\ + (\text{Exports} - \text{Imports}) + \text{Investment} \\ \text{(Capital goods by the economy)}$$

Continue to  
Intuition

Macroeconomy's demand defines  
Q adjusting in the short run

Demand overides Supply

FS: full supply of the economy

- if  $D < FS$  then D is producer hence D is also in an

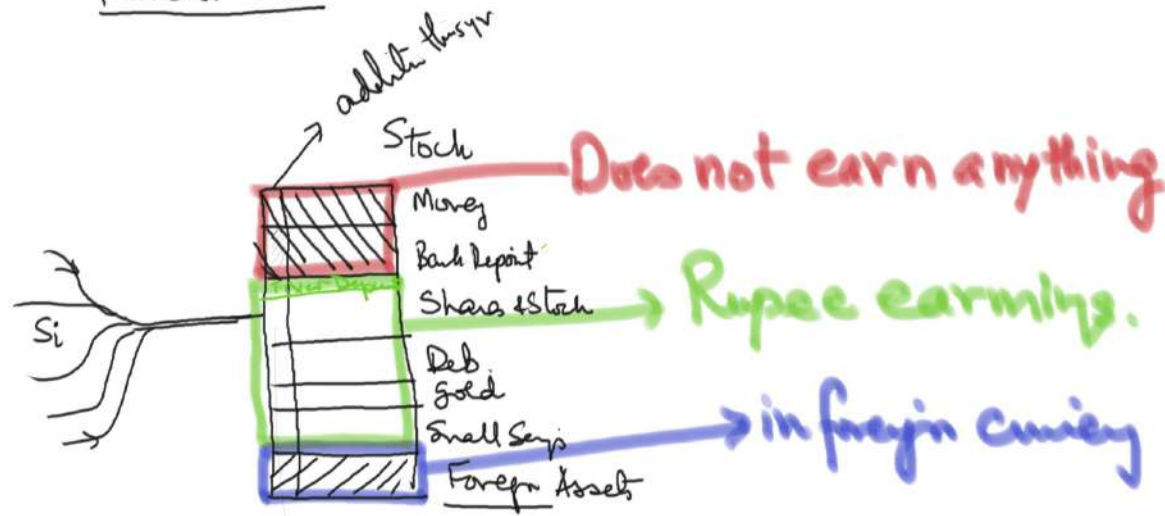
- if  $D = FS$

if  $\underline{\underline{D > FS}}$  " then too " D is producer over the shorter  
period (18 months)

after that  $\tilde{P}(\text{infl.})$  rises, as finally D falls to FS supply



## Financial Sector



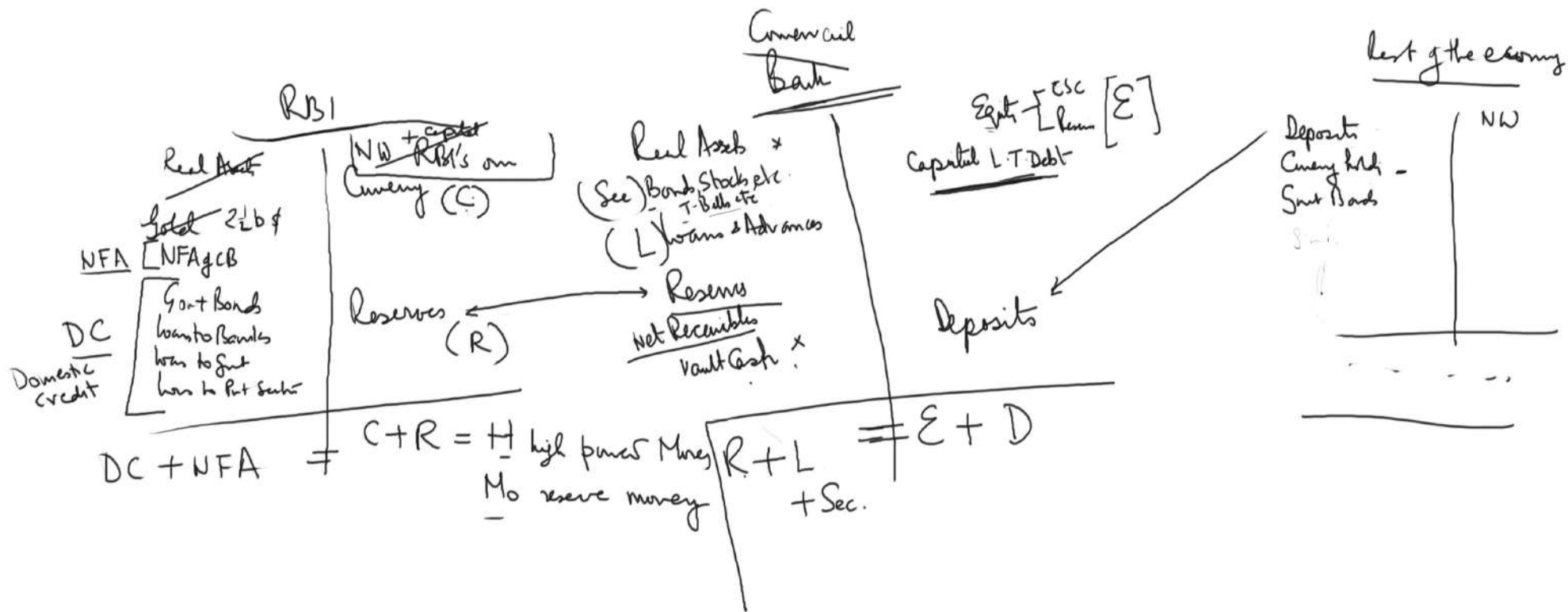
How is money created?

- What is money?

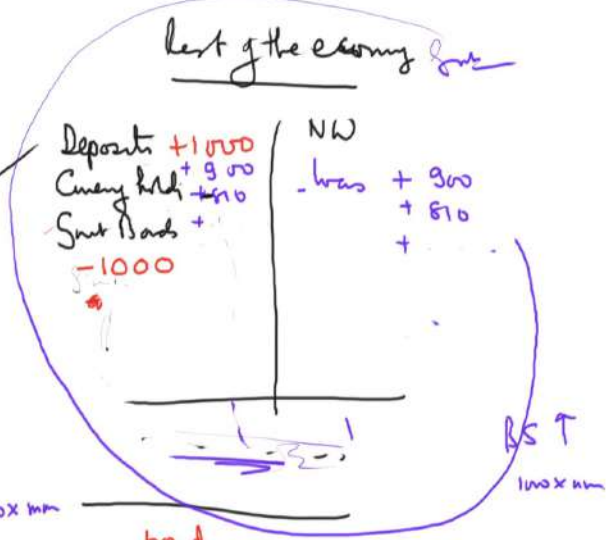
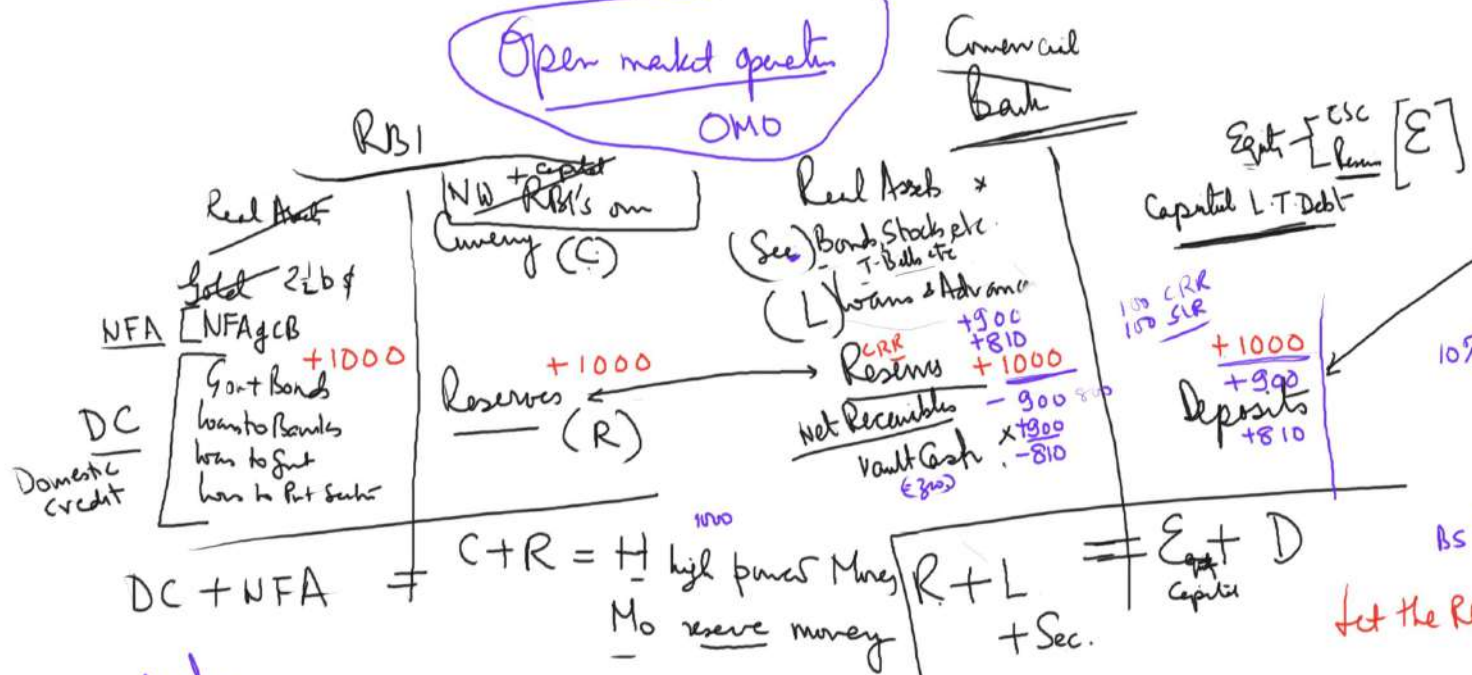
- medium of exchange
- measuring value
- standard for diff pay
- Would like to imagine that all assets have value measured in money
- universally accepted

What is money in India?

- Currency
  - Promissory note
- Current A/c  
→ Savings A/c
- $$M_1 = \text{Currency} + \text{Deposits}$$
- narrow money
- $M_3$



# Open market operation OMO



Let the RBI buy 1000 \$ from people

Money multiplier

$$\text{Money multiplier} = \frac{\text{Money}}{H} = \frac{C + D}{C + R} = \frac{C/D + 1}{C/D + R/D}$$

$$= \frac{cu + 1}{cu + CRR}$$

mm (constant)

$$M = H \cdot mm$$

$$1000 \left( 1 + 0.9 + 0.9^2 + 0.9^3 + 0.9^4 + \dots \right) = 1000 \frac{1}{1 - 0.9} = 10,000$$

(multiplication)

$$\frac{0.05 + 1}{0.05 + 0.05} = \approx 3 \text{ (approx.)}$$



Real  
 loans ~~100~~ - ~~50~~ 50 ✓  
 (Physical) Gold → 40 ✓

Bank  
 Gold (Equity) 10

Gold (Deposits) 90  
tickets

$$90 - 40 = \frac{40}{90} \approx 50\%$$

RBA

US\$/£  
 = NFA =

Int Bank  
 =

C

$\frac{NFA + DC}{\text{num}}$

$H \sim M$

4.0

25%

H

then inf

