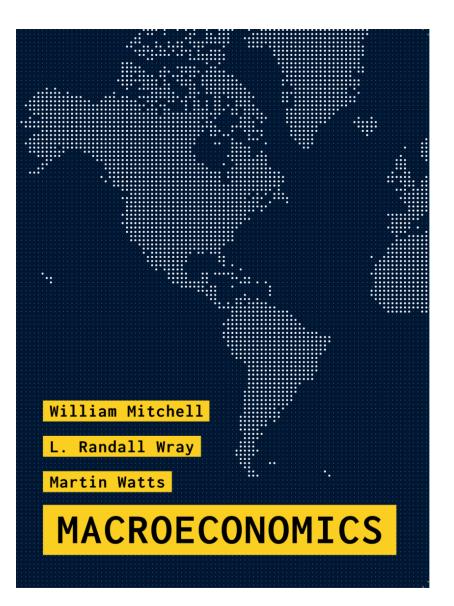




Centre of Full Employment and Equity

Teach-In Module 1: Basic macroeconomic concepts

Professor William Mitchell University of Newcastle, Australia University of Helsinki, Finland

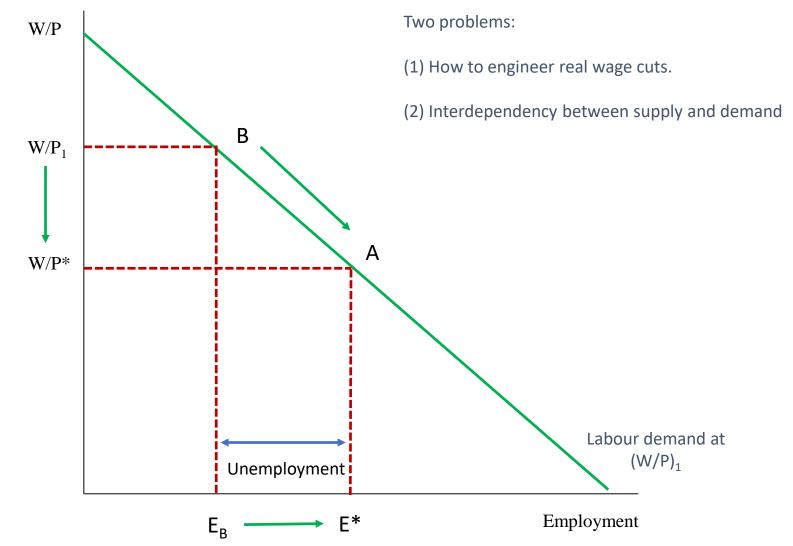


Chapters 1 to 7

Fallacy of composition

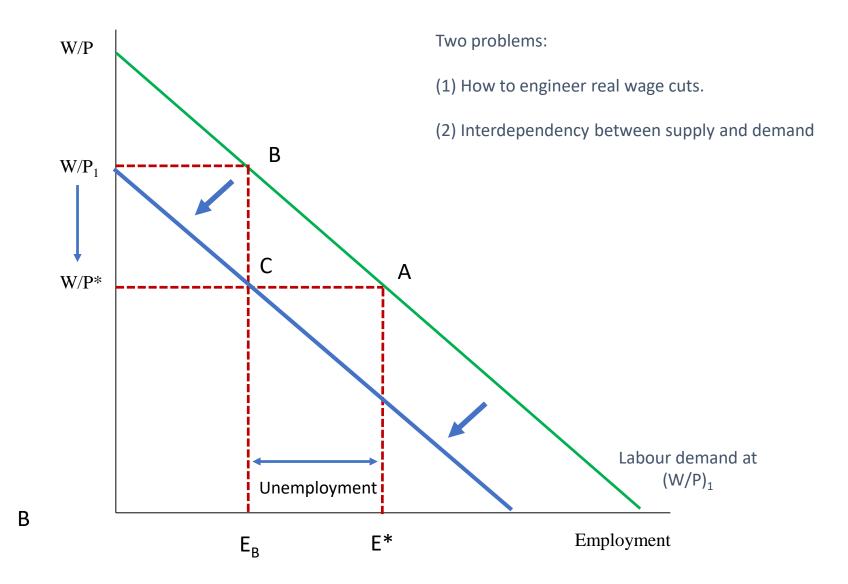
- Mainstream macroeconomics founded on so-called microfoundations.
- Keynes showed the transition from micro to macro was invalid – fallacy of composition.
- Reasoning at the individual level doesn't translate to reasoning at the aggregate level.
- Examples:
 - Paradox of thrift.
 - Wage cut solutions for unemployment.

Can wage cuts increase employment?



В

Can wage cuts increase employment?



Basic macroeconomic measurement ...

- The National Accounts is used to measure economic activity.
- Spending sectors:
 - Private domestic (firms -> invest and households -> consume).
 - Government (spending -> current and capital and taxation).
 - External Sector (exports and imports, income flows).
- GDP market (monetary) value of all final goods and services produced in nation over a given period.
- GDP = Y = C + I + G + (X M)





Basic macroeconomic measurement ...

- GDP includes income from national production that goes to foreigners.
- GNP excludes income going to foreigners but includes foreign earnings of resident firms.
- Adding net external income flows (FNI) to trade account (X – M), gives the Current Account balance (CAB).
- So CAB = (X M) + FNI
- GNP = GDP + FNI





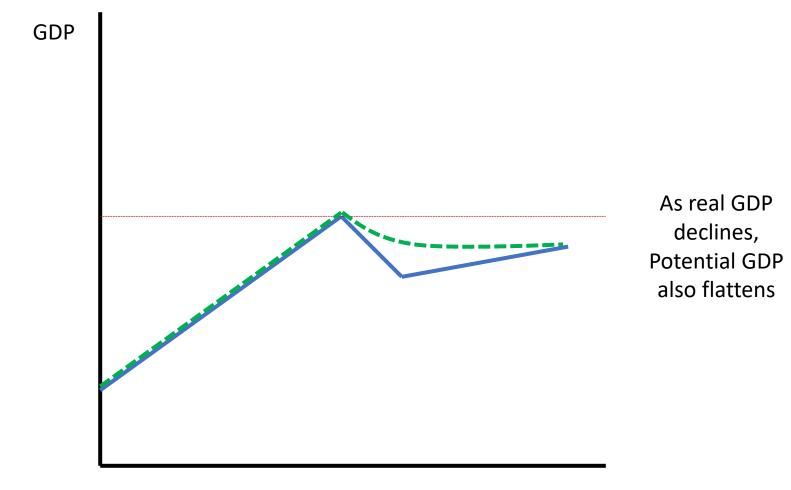
Basic macroeconomic measurement ...

- Real and nominal GDP.
- Nominal GDP is based on current market prices.
- An increase in nominal GDP can be due to:
 - Output increases
 - Price increases
 - Or both
- Real GDP excludes the effect of inflation.
- Real GDP shows how much output growth has occurred.





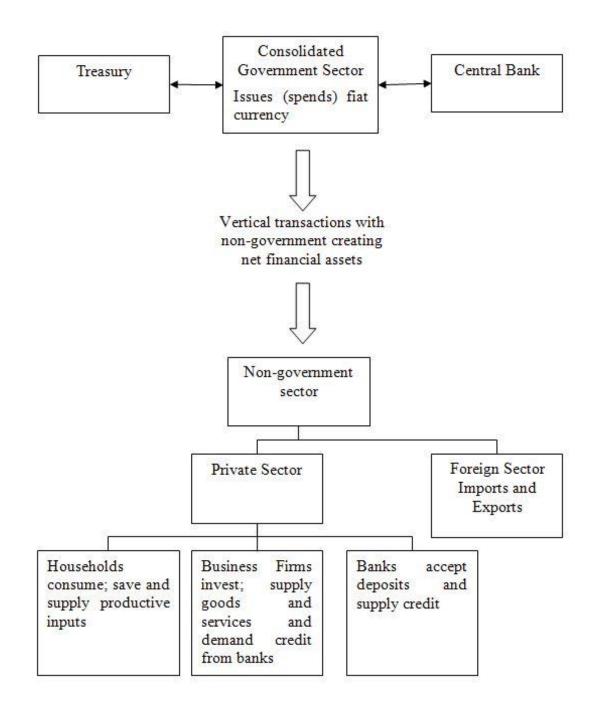
Hysteresis – why recessions should be avoided



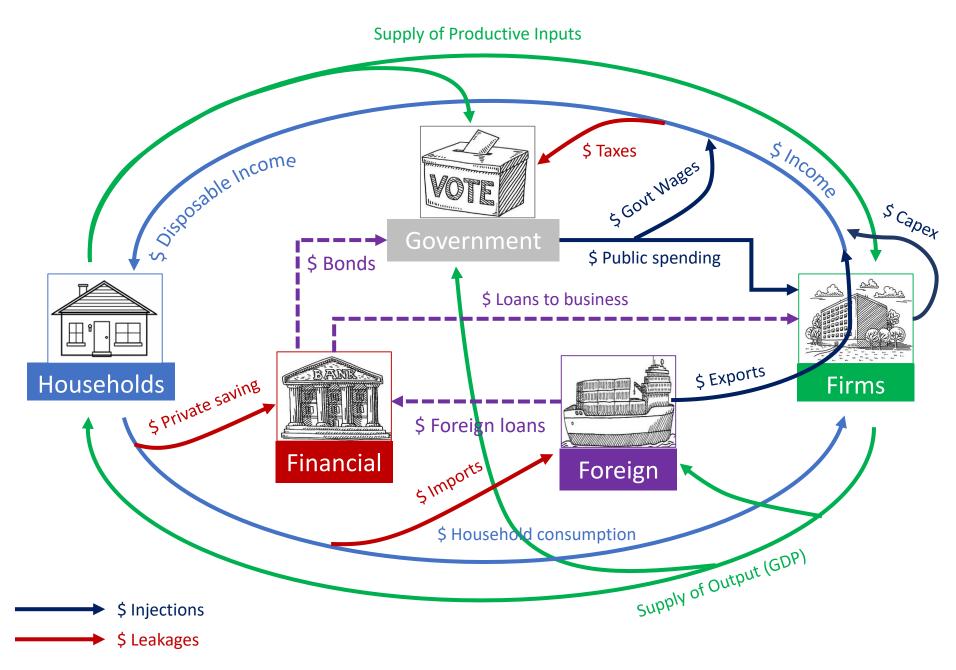








Macroeconomic income and Spending flows – injections and leakages



Expenditure-Income-Output relationship ...

- Total income (GDP) = total spending = total output.
- If spending changes so does output and income.
- For GDP to remain constant, total leakages = total injections.
 - **T** = **G**
 - $\mathsf{T} + \mathsf{S} = \mathsf{G} + \mathsf{I}$
 - $\mathsf{T} + \mathsf{S} + \mathsf{M} = \mathsf{G} + \mathsf{I} + \mathsf{X}$
- These leakages are themselves dependent on the level of income (and hence spending).





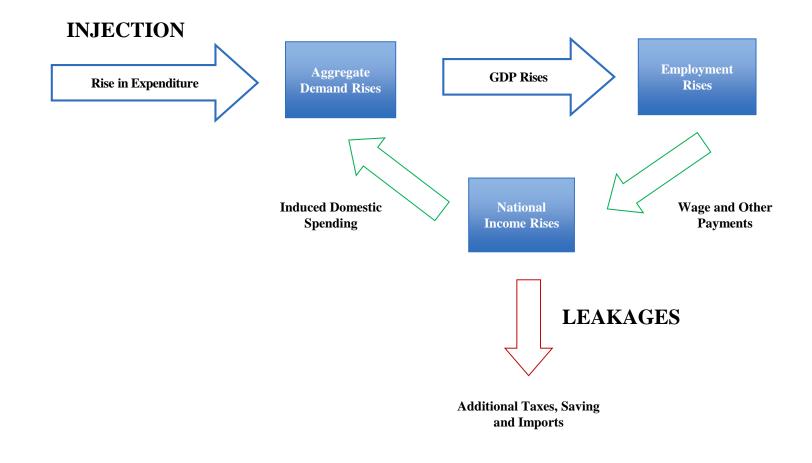
The steady state in macroeconomics ...

- Equilibrium (a 'steady-state') no forces present to change the current level of output and income.
- Not a 'market clearing' state system has a propensity to be at rest with mass unemployment.
- 'Exogenous' injections needed to disturb the 'rest'.
- Knowledge of the role leakages and injections play in the maintaining equilibrium leads to the expenditure multiplier, a central concept in macroeconomics.





The multiplier process ...



Example: Government spending increases 100

Changes in	GDP	Taxes (T)	Disposable Income	Consumption (C)	Saving (S)	Imports (M)	Total Leakages (T + S + M)
Period 1	100.0	20.0	80.0	64.0	16.0	20.0	56.0
$\Delta GDP = \Delta C - \Delta N$	44.0	8.8	35.2	2°	7.0	8.8	24.6
$\Delta C = 64$	19.4	3.9	15.5	$\frac{1}{1} \Delta Y_d = 8$	1PC x ΔY _d	3.9	10.8
$\Delta M = 20$	8.5	1.7	6.8	$\Delta C = 0$	<u>v</u>	1.7	4.8
Δ GDP = 44	3.7	0.7	30	$\Delta C = 6$		0.7	2.1
Perioa 6	1.6	0.3	1.3		0.5	0.3	0.9
Period 7	0.7	0.1	0.6	0.5	0.1	0.1	0.4
Period 8	0.3	$\Delta GDP = 100$	0	0.2	0.1	0.1	0.2
Period 9	0.1	$\Delta T = tax rat$	te x Δ GDP	0.1	0.0	0.0	0.1
Period 10	0.1	∆T = 0.20 x	100	0.0	0.0	0.0	0.0
Period 11	0.0	∆T = 20		0.0	0.0	0.0	0.0
Period 12	0.0	$\Delta Y_{d} = \Delta GDF$	P - ΔT = 80	0.0	0.0	0.0	0.0
Total							
change	178.6	35.7	142.9	114.3	28.6	35.7	100.0
Parameters:							
MPC	0.8						
Tax rate	0.2						
MPM	0.2						
Multiplier	1.79						

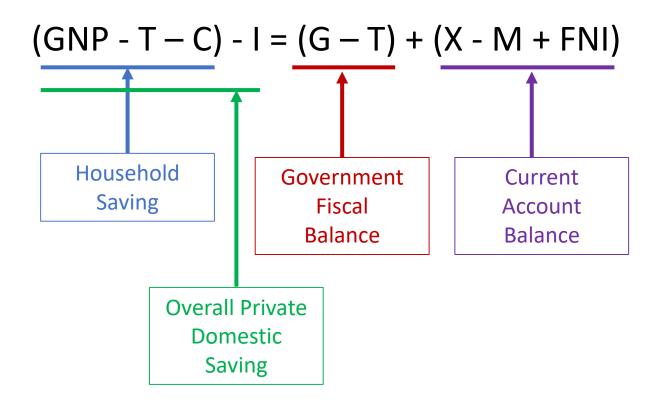
Disposable Income = (GNP – T) – that is total income minus taxes levied by the government.

•
$$GNP - T = C + I + G + (X - M) + FNI - T$$

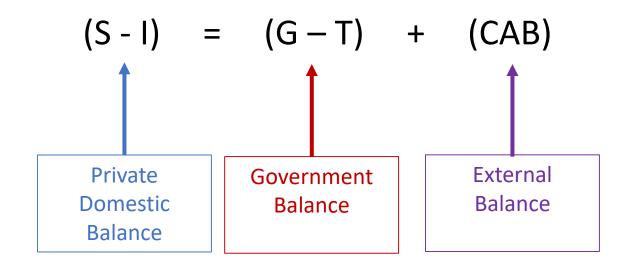
- Now we can assemble the so-called sectoral balances:
- (GNP T C) I = (G T) + (X M + FNI)
- The term (GNP T C) is total income less taxes less consumption expenditure which equals household saving.



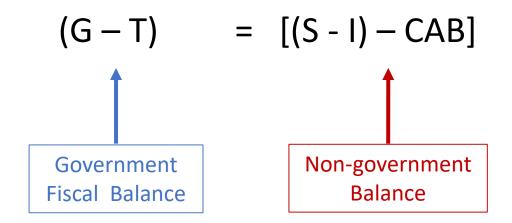




■ Noting (GNP - T - C) = S



- (S I) = (G T) + (CAB)
- Therefore:



Government fiscal deficit (surplus) = Non-government surplus (deficit)

Putting some numbers on the balances ...

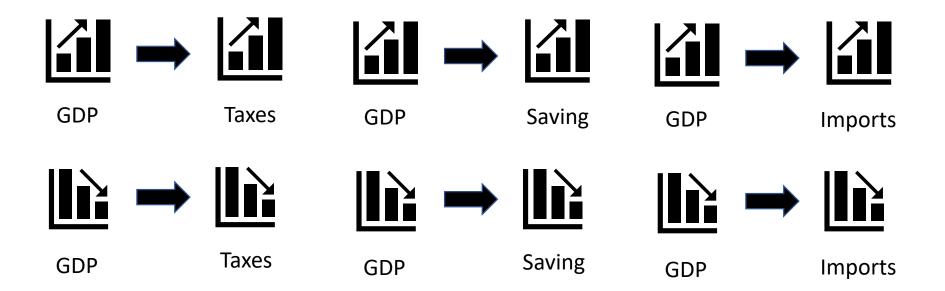
(G – T)	=	[(S - I) – CAB]		
3	=	1	-(- 2)	
2	=	0	2	
0	=	-2	2	
-1	=	-3	2	

Government fiscal deficit (surplus) = Non-government surplus (deficit)

What happens if the equilibrium is disturbed?

$$(G - T) = (S - I) - (X - M + FNI)$$

National income changes maintain this equality.



Some insights ...

$$(G - T) = (S - I) - (X - M + FNI)$$

- If there is an external deficit, then the government has to be in deficit for the private domestic sector to save overall.
- If there is a external deficit and the government runs a surplus, the private domestic sector will be increasingly accumulating debt.





Automatic stabilisers ...

- Consider the government fiscal balance: (G T).
- This cannot be a target because it is not fully controlled by government.
- Why?
- The final fiscal balance is determined by both discretionary fiscal policy settings and the spending decisions of the non-government sector.





Automatic stabilisers ...

- When economic activity is strong, T rises and G falls which reduces the deficit (other things equal).
- When economic activity is weak, T falls and G rises which increases the deficit (without any policy change).
- This cyclical effect is known as automatic stabilisation.
- It leads to the differentiation of the structural versus cyclical fiscal balance.





The MMT fiscal rule

- What is the desirable fiscal stance of government?
- The aim of the government should be to achieve GDP commensurate with full employment.
- Of course, that GDP should be ecologically sustainable and equitably distributed.
- Broader concept of efficiency.





The MMT fiscal rule

• (G - T) = (S - I) - (CAB)

- For national income to be stable, the fiscal deficit has to equal the desired overall saving of the private domestic sector (S – I) minus the current account surplus.
- The Right-hand expression is overall non-government saving.
- But even though a fiscal deficit of that magnitude will stabilise national income it will not necessarily sustain full employment.





The full employment fiscal deficit condition

- A stable output level does not guarantee full employment.
- Accordingly, to sustain full employment, the condition for stable national income is written more specifically:

$$(G - T) = S(Yf) + M(Yf) - I(Yf) - X$$

Non-govt	Non-govt		
leakages at full	injections at full		
employment	employment		

 If the non-government drains > injections then for national income to remain stable, there has to be a fiscal deficit (G – T) sufficient to offset that gap in aggregate demand. The full employment fiscal deficit condition

$$(G - T) = S(Yf) + M(Yf) - I(Yf) - X$$

Non-govt leakages at full employment Non-govt injections at full employment

2 = 4 - 2-1 = 1 - 2

END OF TALK