

1. Current government purchases increase temporarily (G);

DAE Model	Intertemporal model analysis
$G \uparrow \Rightarrow we, C ? \dots$	$G \uparrow \Rightarrow we, C ? \dots$
Balance budget Multiplier 1	Balance budget Multiplier1
<p>Increases in C and Y come as a free lunch! Each dollar spent by the government increases GDP by more than one dollar. We would let the government grow infinitely large, which would make everyone infinitely wealthy.</p>	<p>Higher government spending and larger output come at a cost — no free lunch! Government expenditure crowds out private investment. Lower future productive capacity. Consumer consumes less and takes less leisure and he or she faces a lower real wage rate.</p>

Intertemporal model analysis

Step 2:

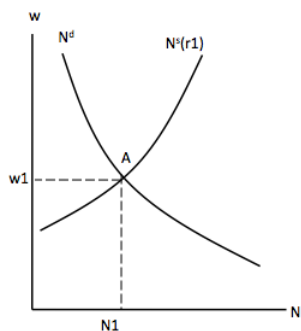
$r \uparrow \Rightarrow N^S$ shifts (.....) $\Rightarrow w$
 $r \uparrow \Rightarrow I^d$and C^d

Step 1 :

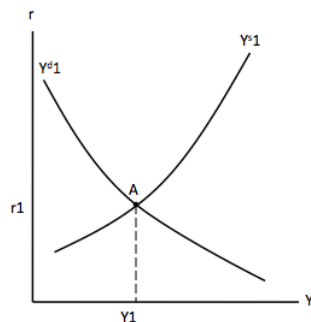
$Y^S : PV(T) \uparrow \Rightarrow N^S$ shifts (.....)
 $\Rightarrow Y^S$ shifts (.....)
 $G \uparrow \Rightarrow Y^d$ shifts (.....by)
 Y^d shifts more than $Y^S : r$

- current borrowing (bond sale)
- $B + I^d$ shifts to the
- PV (T) increases
- Savings shifts to the
- The real interest rate increases.

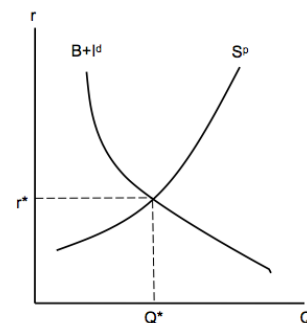
Labour Market



Output Market



Credit Market



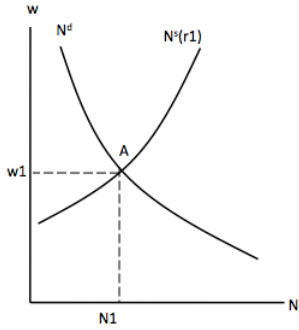
2. A decrease in current capital stock (K)

Step 2: $K \downarrow \Rightarrow r \dots$
 $\Rightarrow N^S$ shifts (.....) $\Rightarrow w \dots$
 (A movement on the Y^S curve)

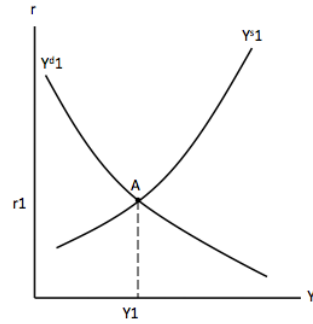
Step 1:
 $K \downarrow \Rightarrow MP_N \dots \Rightarrow N^d$ shifts (.....)
 $\Rightarrow Y^S$ shifts (.....)
 $K \downarrow \Rightarrow K' \dots$ for all $I \Rightarrow MP'_K \dots$ for all I
 $\Rightarrow I^d \dots$ for all r
 Y^d shifts (.....)

Step 3:
 I^d shifts (.....)
 $B + I^d$ shifts (.....)
 S^P (depends on $Y-T$)
 $r \dots$

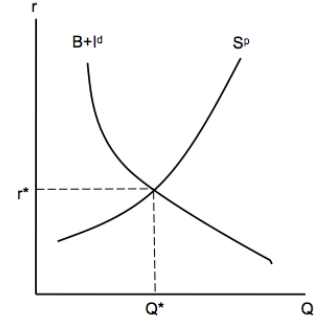
Labour Market



Output Market



Credit Market



- $K \downarrow \Rightarrow MP'_K \dots \Rightarrow I \dots \Rightarrow$ If $I \downarrow, K' \downarrow$ — impossible. $K \downarrow \Rightarrow MP'_K \uparrow \Rightarrow I \uparrow$
 $\Rightarrow r \dots \Rightarrow I \dots$
- A decrease in current $K \Rightarrow r \dots, I \dots, w \dots, \text{Employment and output } \dots$ (C and ℓ tends to \downarrow because $r \uparrow$)

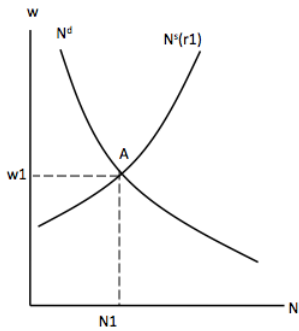
3. An increase in Current Total Factor Productivity (Z)

Step 2: $r \dots N^S$ shifts (.....)

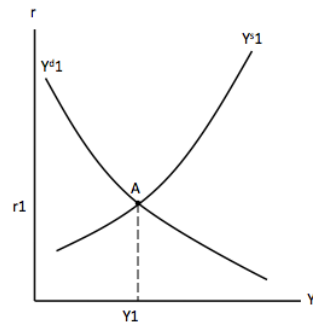
Step 1: $z \uparrow \Rightarrow MP_N \dots$
 N^d shifts (.....) Y^S shifts (.....), $r \dots$

Step 3
 $(Y-T) \dots \Rightarrow S^P \dots$

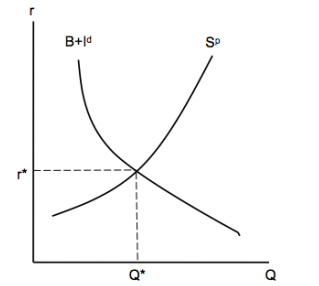
Labour Market



Output Market



Credit Market

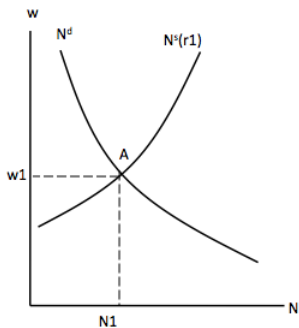


4. An increase in future Total Factor Productivity (Z')

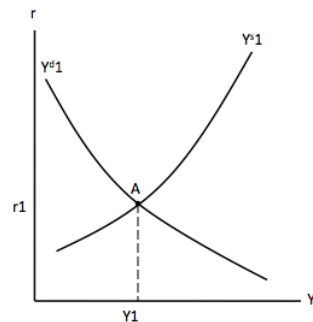
Step 2: $r \dots N^S$ shifts (.....)

Step 1: $z' \uparrow \Rightarrow MP'_K \dots$ $I^d \dots$; Y^d shifts (.....)
 $r \dots$
 $(Y-T) \dots S^P \dots$

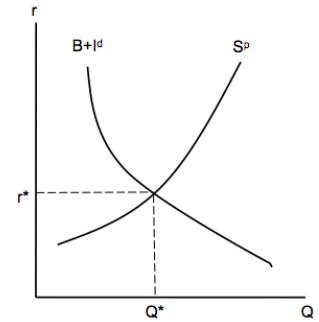
Labour Market



Output Market



Credit Market



- $I \uparrow \Leftarrow MP'_K$, partly offset by $r \uparrow$. $K' \uparrow \Leftarrow$ expected z' . r and Y increases. C may rise or fall due to higher Y but higher r . Employment increases with falling real wage.