

Chapter 12

Aggregate Demand in the Goods and Money Markets



Kazu Matsuda

BIZ 203

Macroeconomics

MONEY, THE INTEREST RATE, AND OUTPUT: ANALYSIS AND POLICY

Goods market =

Money market =

THE LINKS BETWEEN THE GOODS MARKET AND THE MONEY MARKET

- Link 1: Aggregate output (income) and the Demand for Money
- Link 2: Planned Investment Spending and the Interest Rate

INVESTMENT, THE INTEREST RATE, AND THE GOODS MARKET

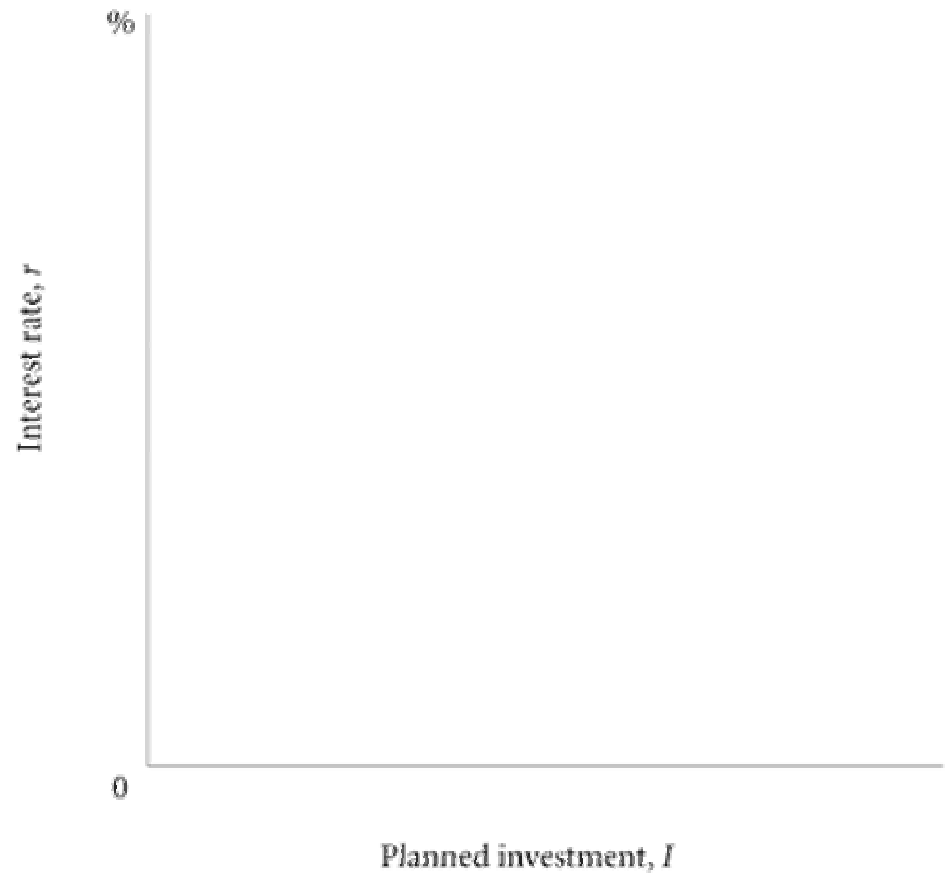


FIGURE 12.2 Planned Investment Schedule

INVESTMENT, THE INTEREST RATE, AND THE GOODS MARKET

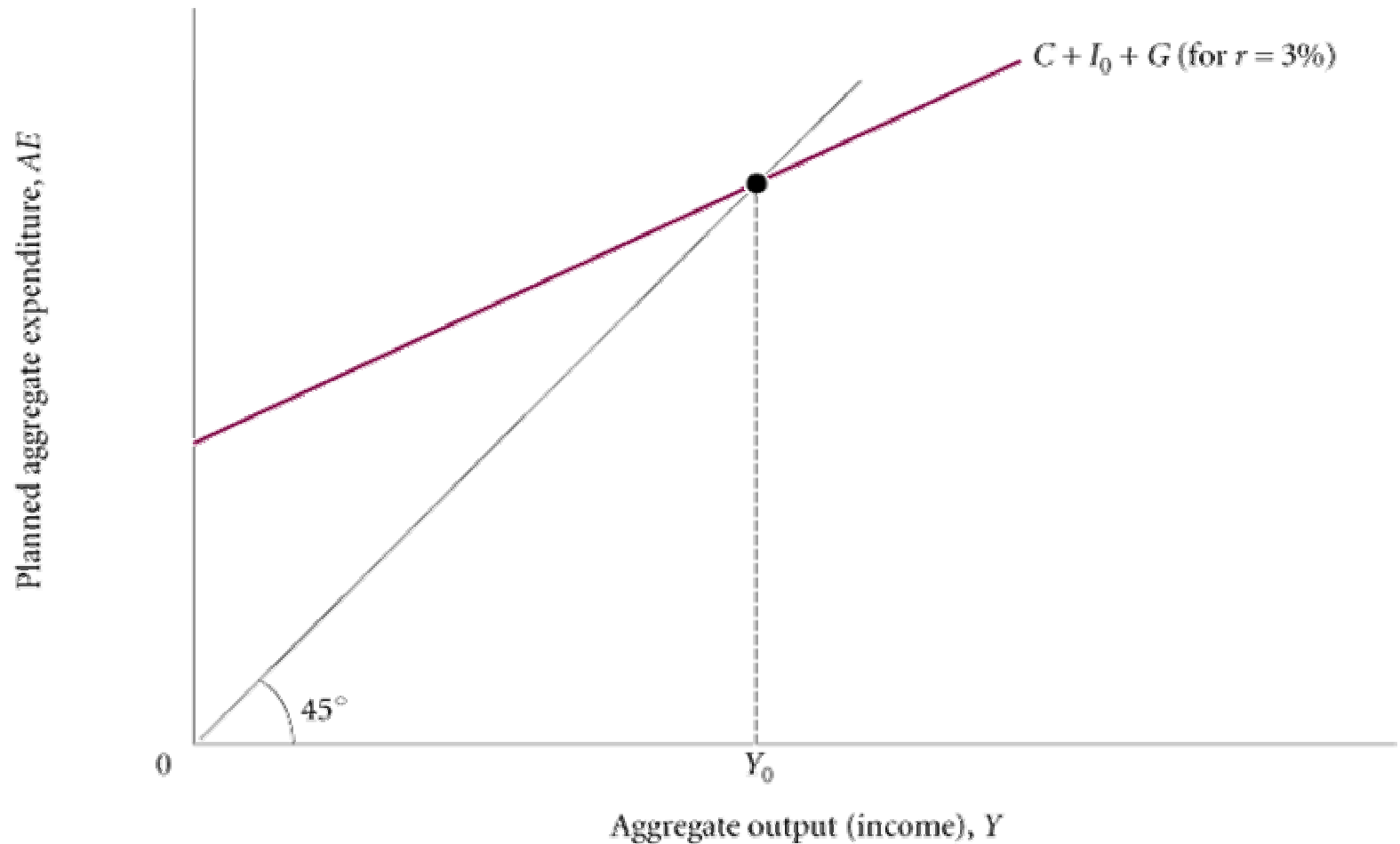


FIGURE 12.3 The Effect of an Interest Rate Increase on Planned Aggregate Expenditure

INVESTMENT, THE INTEREST RATE, AND THE GOODS MARKET

The effects of a change in the interest rate include:

- High interest rate (r) discourages planned investment (I).
- Planned investment is a part of planned aggregate expenditure (AE).
- Thus, when the interest rate rises, planned aggregate expenditure (AE) at every level of income falls.
- Finally, a decrease in planned aggregate expenditure lowers equilibrium output (income) (Y) by a multiple of the initial decrease in planned investment.

MONEY DEMAND, AGGREGATE OUTPUT (INCOME), AND THE MONEY MARKET

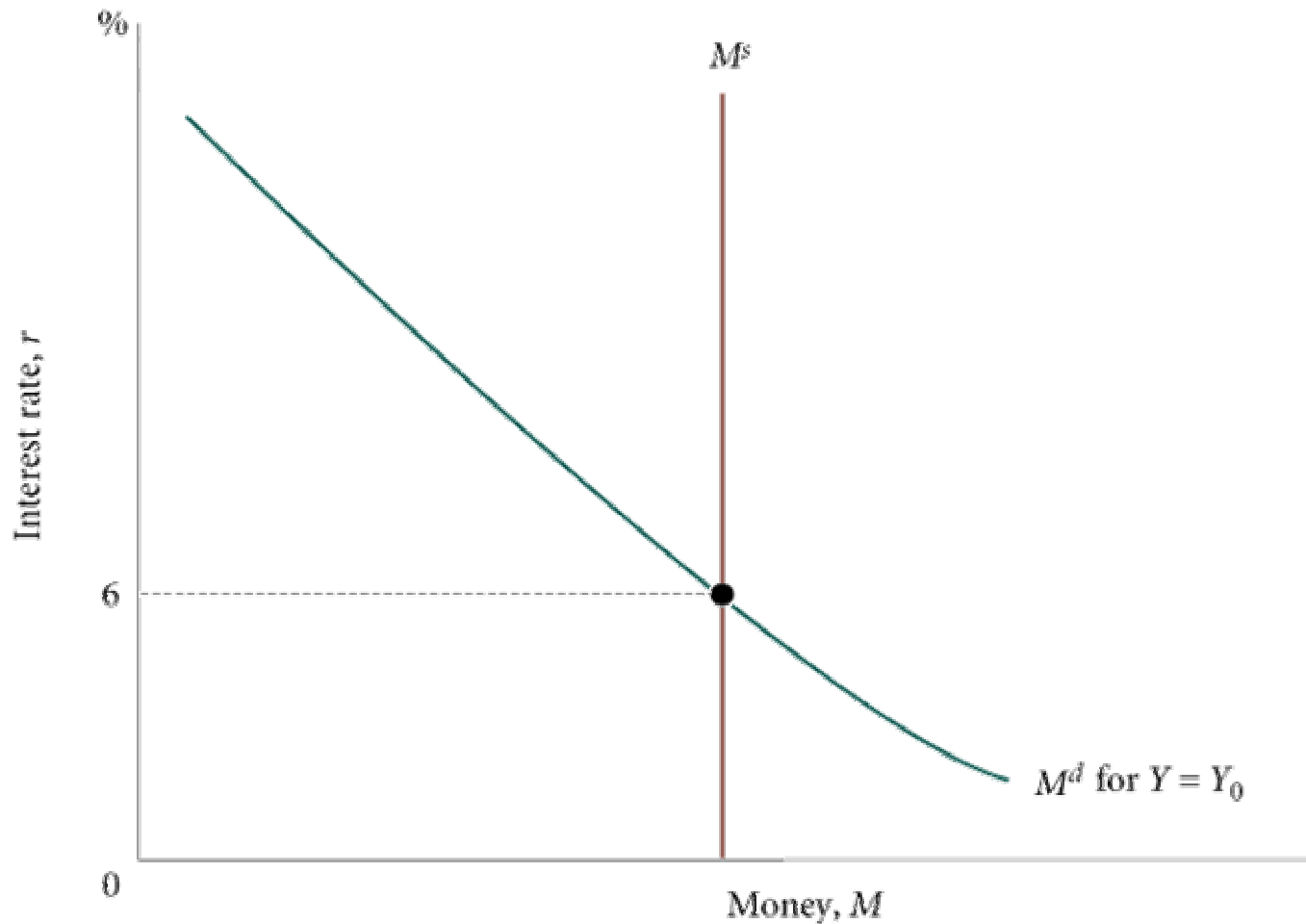


FIGURE 12.5 The Effect of an Increase in Income (Y) on the Interest Rate (r)

COMBINING THE GOODS MARKET AND THE MONEY MARKET

EXPANSIONARY POLICY EFFECTS

Expansionary fiscal policy

Expansionary monetary policy

Expansionary Fiscal Policy:
An Increase in Government Purchases (G) or a
Decrease in Net Taxes (T)

An Increase in Government Purchases (G)

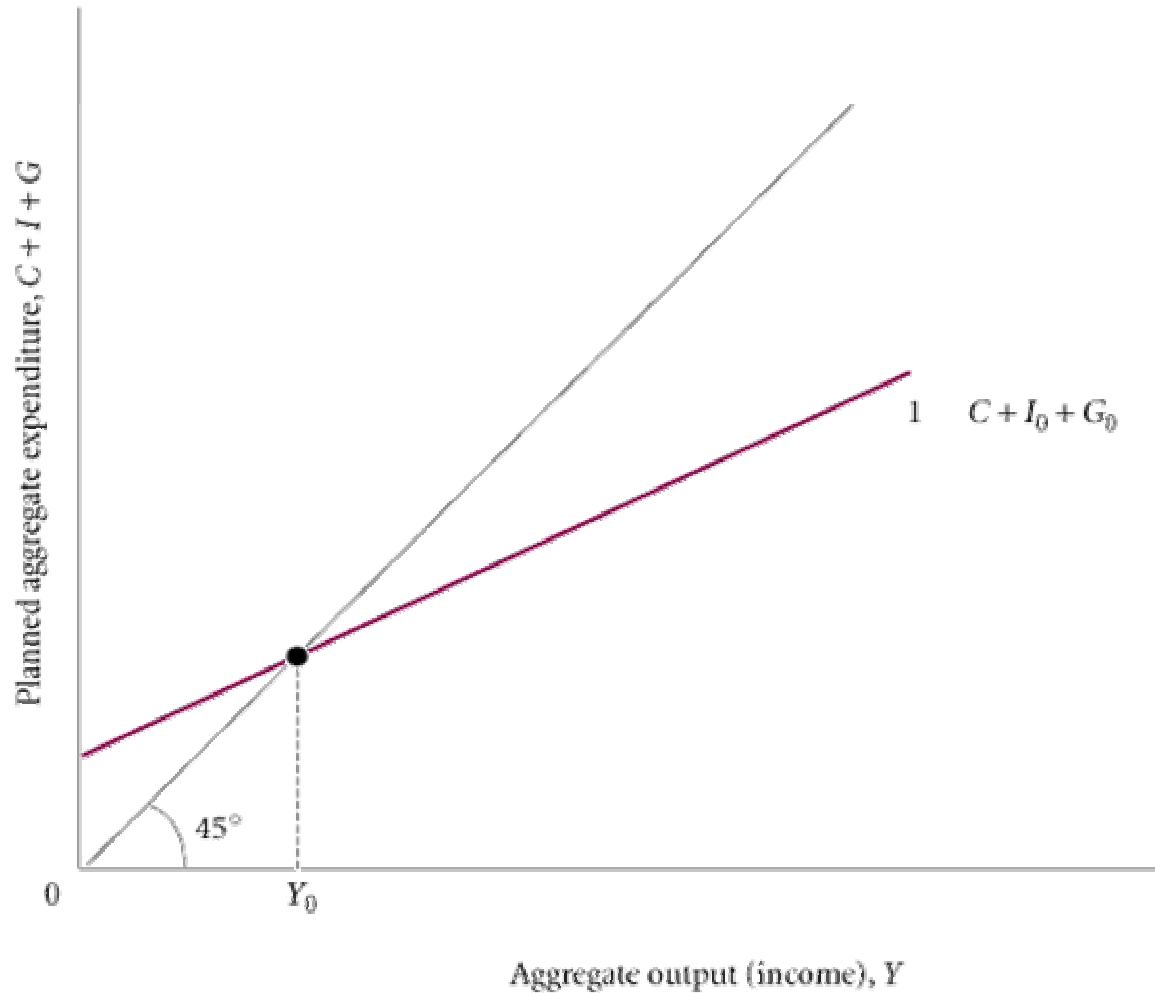


FIGURE 12.6 The Crowding-Out Effect

An Increase in Government Purchases (G)

- The size of the crowding-out effect and the ultimate size of the government spending multiplier depend on several things.

[1]

- [2] **Interest sensitivity or insensitivity of planned investment** = The responsiveness of planned investment spending to changes in the interest rate. Interest sensitivity means that planned investment spending changes a great deal in response to changes in the interest rate; interest insensitivity means little or no change in planned investment as a result of changes in the interest rate.

Expansionary Monetary Policy: An Increase in the Money Supply

- Consider what will happen when the Fed decides to increase the supply of money through open market operations.

Expansionary Monetary Policy: An Increase in the Money Supply

- Monetary policy can be effective only if I reacts to changes in r .

CONTRACTIONARY POLICY EFFECTS

Contractionary fiscal policy

Contractionary monetary policy

THE MACROECONOMIC POLICY MIX

Policy mix = The combination of monetary and fiscal policies in use at a given time.

TABLE 12.1 The Effects of the Macroeconomic Policy Mix

FISCAL POLICY			
		Expansionary ($\uparrow G$ or $\downarrow T$)	Contractionary ($\downarrow G$ or $\uparrow T$)
Monetary Policy	Expansionary ($\uparrow M^S$)	$Y \uparrow, r ?, I ?, C \uparrow$	$Y ?, r \downarrow, I \uparrow, C ?$
	Contractionary ($\downarrow M^S$)	$Y ?, r \uparrow, I \downarrow, C ?$	$Y \downarrow, r ?, I ?, C \downarrow$

Key :

$\uparrow$: Variable increases.

$\downarrow$: Variable decreases.

?: Forces push the variable in different directions. Without additional information, we cannot specify which way the variable moves.

OTHER DETERMINANTS OF PLANNED INVESTMENT

The determinants of planned investment are

- The interest rate
- Expectations of future sales
- Capital utilization rates
- Relative capital and labor costs