

Lecture Plan

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Plan for this lecture

- 1. Definitions: market equilibrium, market clearing, and equilibrium stability
- 2. Walras' Law, Say's Law, and the Principle of Effective Demand
- 3. Marx, Keynes, and Kalecki compared
- 4. Final remarks

Market Equilibrium Market Clearing Equilibrium Stability

Do not confuse market equilbrium with market clearing

Market equilibrium = point of rest = fixed point = stationary state

Market clearing = no excess demand = no excess supply = supply equals demand

Stability = self-correction

Can we have a market equilibrium that is **not** market-clearing?

Say and Walras: 'No' → equilibrium is market-clearing

Malthus, Keynes, Marx, and Kalecki: 'Yes'

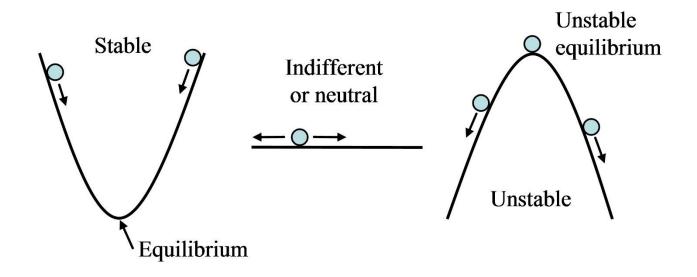
→ equilibrium is not necessarily market-clearing

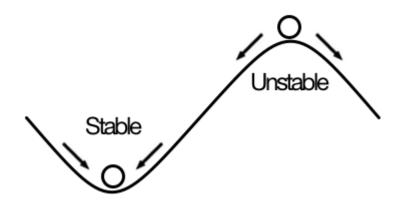
The equilibrium can be either market-clearing or non-market-clearing

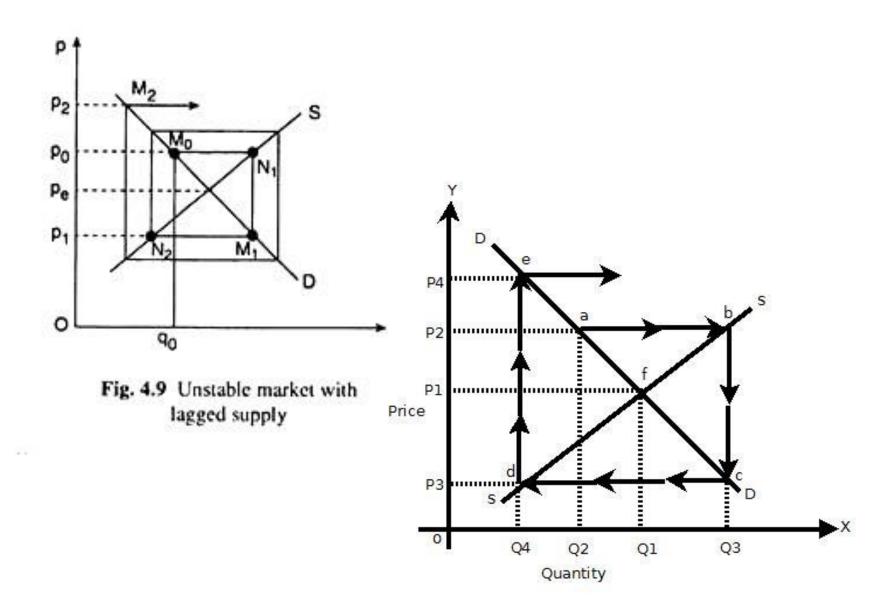
Even if the equilibrium clears the market it might still be unstable

An equilibrium that does not clear the market might be stable

There is no reason to believe that the equilibrium is always marketclearing and stable







Say's Law

Walras' Law

Keynes' Effective Demand

Walras

Walras' Law

Total demand (including the demand for money) equals total supply (including the supply of money)

This is just a definition

No direction of causality is implied between supply and demand

So there is:

no excess demand in the aggregate no excess supply in the aggregate

Walras

Walras' Law

But be careful:

Do not confuse the aggregate level with the disaggregate level

Walras' Law applies to the aggregate level

So there might be excess demand or excess supply in certain sectors

Walras

Walras' Law

In **General Equilibrium** analysis it is common to assume that "general equilibrium" means:

- 1. Every sigle market clears
- 2. No excess demand and no excess supply in any market
- 3. Walras' Law applies at the aggregate level

But this is not always the case:

In **New Keynesian DSGE models** the labour market is in short-run equilibrium but it does not clear

Say

Say's Law

Becker and Baumol (1952) and Baumol (1977):

The term "Say's Law" is ambiguous

Say's Law actually has two versions:

Stronger version: Say's Identity

Weaker version: Say's Equality

Say

Say's Law

Stronger version: Say's Identity

Total supply automatically becomes, and is identical to, total demand. This happens because no one ever wants to hold cash, so all sales incomes are immediately spent on other goods and services. The demand for money does not affect aggregate demand, supply, or income. Money is just a veil. Recessions and cycles can happen but are entirely supply-driven.

Weaker version: Say's Equality

Demand is supply-led and the equilibrium between aggregate demand and aggregate supply is stable, such that deviations from it are possible but self-correcting. Because of supply-side issues such as coordination problems and miscalculations, recessions and cycles are possible though brief. Money can be used as a store of value, and as a medium of exchange its supply is determined endogenously.

Say

Say's Law in Classical Political Economy

Core of Classical Political Economy = Smith, Say, Ricardo, J.S. Mill

Growth, cycles, and recessions are supply-driven phenomena

Cycles are **not** caused by **aggregate demand deficiency** but by miscalculations about what to **produce** and in what proportions

The crucial issue is not a lack of aggregate demand but a **temporary mismatch** between the composition of aggregate demand and aggregate supply, solved through the movement of capitals across sectors

Economic crisis occur not because of **oversupply** but because of **underproduction (under-supply)**

Keynes' Theory of Effective Demand

Not all output will necessarily find buyers
Incomes may not purchase all supply
Possibility of unsold inventories
Market equilibrum does not necessarily clear the market

Investment determines savings ($I \rightarrow S$)

Investment is autonomous from savings

No need of prior savings to fund new investment

Money as a **store of value** = money as an end in itself = money is not a veil Money can be demanded as an end in itself Capitalism is substantially different from a barter economy Captialism is a monetary production system

Keynes' Principle of Effective Demand

Crucial distinction between:

Ex ante plans = decisions made before production begins

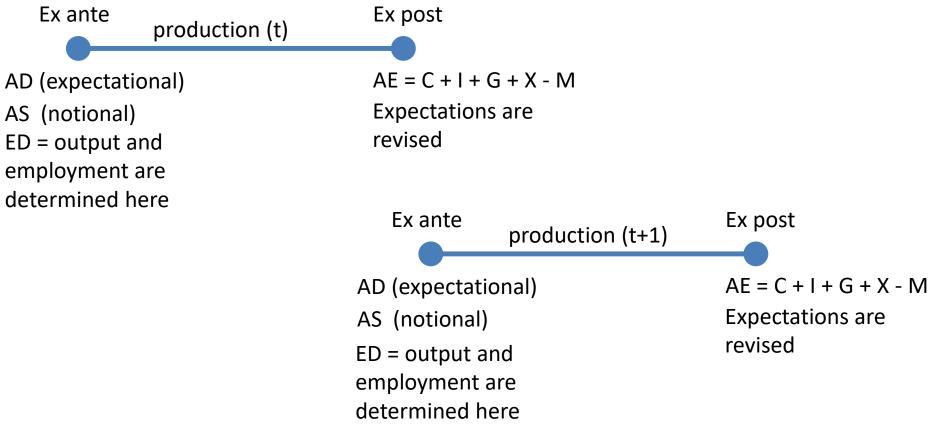
Ex post realised results = outcomes after all exchanges are concluded

Aggregate Demand (AD) is **not** identical to Aggregate Expenditure (AE = C+I)

Aggregate Demand (AD) is **ex ante**Aggregate Expenditure (AE = C+I) is **ex post**

Principle of Effective Demand relates to AD ex ante

Overlapping Production Periods



Keynes' Principle of Effective Demand

Principle of Effective Demand relates to AD ex ante

Effective Demand is the effective committment to **supply**Effective Demand is the effective committment to **production**

Effective Demand is NOT about what will be demanded ex post:

"effective demand is an unfortunate term, for it really refers to the **output that will be supplied**; in general there is **no** assurance that it will also be **demanded**" (Chick 1983, p.65)

Principle of Effective Demand (PED) = Principle of Effective Supply (PES)

Keynes' Principle of Effective Demand

Effective Demand is the **ex ante** effective commitment of firms to production, a decision made before production begins

This ex ante decision is made at the beginning of the production period

After production has taken place, firms will see how much of their output is actually sold

Revising their **ex ante expectations** in light of the **ex post realized results** in the market

Which will then influence effective demand at the **beginning** of the **next** production period

Keynes' Principle of Effective Demand

Effective demand

- = firms' effective commitment to **production** so as to maximize **expected** profits
- = the point at which AD meets AS

AD = aggregate demand = **expected** revenues

AS = aggregate supply = **profit-maximizing** level of revenues, given the cost structure and technology

AD is expectational (ex ante)

AS is notional

PED = **PES** = the ex ante expected profit rate determines the level of output and employment at the beginning of the production period, before production takes place

Say:

GDP level is supply-led Automatic tendency to market-clearing equilibrium Market-clearing equilibrium is stable (self-correcting)

Keynes:

GDP level is demand-led
But this demand is ex ante
It is an expectational demand
Ex ante AD might or might not be realised ex post
No automatic tendency towards the market-clearing equilibrium

Kalecki

C+I = Y = Profits + Wages

If C = Wages, then Profits = Investment

"Workers spend what they get, but capitalists get what they spend"

Aggregate investment by the capitalist class determines the total amount of real gross profits in the system

Firms cannot realise at the aggregate level a greater amount of **profits** than their own **investment** expenditures

Capitalists decide their level of expenditure but not their level of income

And their level of **expenditure** will determine their level of **income**

Marx, Kalecki, and Keynes

Marx

Marx

Say's Law applies to a barter economy, but not to capitalism

Not all output will necessarily be sold

Money can function as a store of value

Instead of purchasing what has been produced, people and companies can just hoard money

Marx wrote this between 1857 and 1880 80 years before Keynes and Kalecki

Marx

Source of profit for Marx:

surplus value unpaid labor time what workers pay to work

Keynes and Kalecki do not explain where profits come from

Investment is not the source of profit

Investment realises the surplus value created in production

'To realise' = to covert labor time into money

The aggregate level of ex post expenditures with C and I realise the values created ex ante in the sphere of production

Marx

The **aggregate level** of **ex post expenditures with C and I** realise the values created **ex ante** in the sphere of production

Two rates of exploitation:

Ex ante rate of exploitation

- = 'immediate rate of exploitation'
- = rate of exploitation at the point of production, before the output is sold, before the suplus value is realised

Ex post rate of exploitation

- = realised rate of exloitation
- = rate of exploitation after value and surplus value are realised

Who actually invented Say's Law? Not J. B. Say, but **Adam Smith**

Then Ricardo and J.S. Mill brought Say's Law into the core of classical Political Economy

"Say, James Mill and Ricardo, following Adam Smith, opposed the view that general lack of demand was the prime threat to prosperity, arguing that the main obstacle is inability or unwillingness to produce"

"what they had done was to deny flatly that failure of effective demand was a cause of recessions and unemployment"

(Baumol 1999, p.196-197)

Political Economy should consistently incorporate the insights of Keynes, Kalecki, and Marx

Keynes and Kalecki did not explain the origin of value or of profits

Kalecki did not explain how profit rates would equalise across sectors over time

Marx died before completing his drafts

In Marx, the financial aspects of capitalism are very underdeveloped

Keynes' principle of effective demand (or effective supply) places profit **expectations** at the centre of economic theory

Keynes did not fully develop his theory in the long run

How does the principle of effect demand work in the **long run**?

Keynes did not fully theorise how expectations are formed

What if **profit expectations** are heavily dependent on the **current profit** rate?

Then the main goal should be to explain the behaviour of the **profit rate** over time

The interplay between **expected profits** and **realised profits** is very complex

Exam Question

Exam Question

What is the difference between Marx, Keynes, and Kalecki regarding the role of effective demand? Explain the roles of (ex ante) expected profits, realised profits, and the origin of profit.

Marx

The profit rate is the crucial variable

Source of value is labour

Source of profit is surplus value (unpaid labour time)

Expenditures C+I realise the values and surplus values created

Ex post exploitation ≠ ex ante exploitation

Long run = profit rates are equalized across industries

Kalecki

Total profits match total investment expenditures

Businesses cannot make more profit than their investment expenditures

Source of profit is not actually explained

Does not explain how profit rates equalize over the long run

Keynes

Expected (ex ante) profit rate is the crucial variable
Source of profit is not explained
Principle of effective demand is stated clearly
at least for the determination of output and employment in the short run
In the long run things are not very clear

Slides and papers available at:

tomasrotta.wordpress.com