The firm: Owners, Managers and Employees **ECONOMICS**

Dr. Kumar Aniket

UCL

Lecture 6

CONTEXT

Introduction

•00

Context for this lecture

Work is important for the economy to work. (Unit 1)

- Work takes place within institutional boundaries of a firm
- Firms create social surplus by matching capital with labour

Bargaining determines the division of social surplus. (Unit 5)

All parties gain from creating a large surplus,

but have *conflicting interests* over how these gains in surplus are shared.

THIS LECTURE

Introduction

0.00

Explain how wages are determined within firms

Firms demand *effort* (and *not hours worked*) from workers

We will explore *wages* firms offer workers' to extract *effort* is subject to hidden actions

Hidden Action

occurs when action taken by one party cannot be observed by the other party

i.e., employer cannot know (verify) how hard the workers are working

also knows as a *Moral Hazard* problem

HIDDEN ACTION

Introduction

000

Hidden action or hidden effort is a problem

- firms require *knowledge* (skills) as an input in the production process
 - difficult to discern to know extent the worker is applying their knowledge to work
- if workers work in *teams*
 - difficult to identify each individual's contribution to team's output

If action is hidden, workers exert effort only if offered a wage premium – an efficiency wage

FIRMS & MARKETS

What are *firms*?

What are *markets*?

How do *firms* differ from *markets*?

What constitutes *work* within firms?

Architect
Software engineer
Plumbers

Chefs Receptionist Hairdressers

FIRMS VERSUS MARKETS

Firms versus markets

In a capitalist economy, the *division of labour* is coordinated in two ways:

within firms

and

via markets

Coordination within firm differs from coordination via markets

MARKETS

What is a *market*?

Entities (institutions) like firms and households are *sellers* and *buyers* in the market

Sellers and buyers make autonomous voluntary decisions to supply and demand

What is a *successful market transaction*?

A successful transaction takes place when demand and supply *coincide*.

WELL-FUNCTIONING MARKET

When does markets function properly?

If successful transactions take place *frequently* and *attracts* sufficient buyers and sellers

Condition under which markets work:

if sufficiently large number of *sellers* and *buyers compete* with each other

Implies: no entity posses power in a market

Well functioning markets are characterised by decentralisation of power

Firms represent a concentration of economic power

Owners/managers direct or *order* the employees' actions. Employees have little *autonomous choice* within the firm

Firm is an institutions where the rule of the game is everyone follows the owner manager's *order*

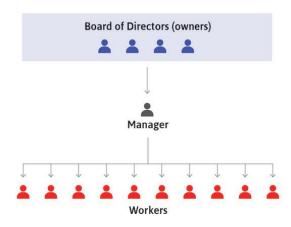
Power is concentrated in the hand of owners/managers

- *Owners* decide the long-term strategy
- Owners then direct the *manager(s)* to implement their decision



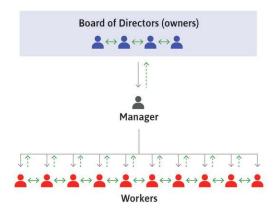


• *Manager(s)* manager assign tasks to workers



• *Workers* often know things that *managers* do not, and *managers* know things that *owners* do not (*hidden actions*)

(green arrows represent flows of information)



DIFFERENT PERSPECTIVES ON FIRMS

D.H. Robertson:

A firm is an "island of conscious power in this ocean of unconscious coopertation"

Coase:

hierarchy of the firm was is a cost-reducing way to conduct business

Marx:

coercive authority of boss over the worker limited the employee's freedom

FIRMS VERSUS MARKETS

Markets

Well functioning markets are characterised by *decentralisation of power*

Firms

Within firms, *power is concentrated* in the hand of owners/managers

ECONOMIC RENT

Economic rent excess payoff received that over and above opportunity cost

• The name comes from landowner's economic rents in the past.

Example: you own flat in London that you have let.

Rent tenants pay:	£2000 p.a.		
<i>Cost</i> of maintaining the flat:			£ 500 p.a.
Your economic rent:	£2000 p.a.	_	£500 p.a.
	$= £1500 \ p.a.$		

EMPLOYMENT RENT

A workers employment rents is:

Net utility from the job	less	opportunity cost of doing the job	
Wage earned <mark>less</mark> disutility from work	less	reservation wage	

Maria's Employment Rent

Example 1:

Maria has 35 hours per week job

- Maria gets \$12 per hour
- Maria responds by working with *effort intensity* 0.5
- Maria's disutility from working with *effort intensity* 0.5 is \$2 per hour

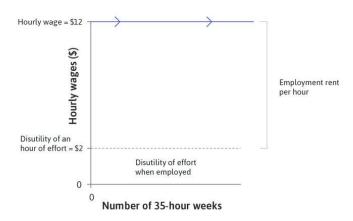
she works only half the time & checks social media rest of the time

Effort Choice

If she loses this job, she expect it will take her 44 weeks to find another job.

What is Maria's *employment rent?*

- what Maria gets should she not lose her job today



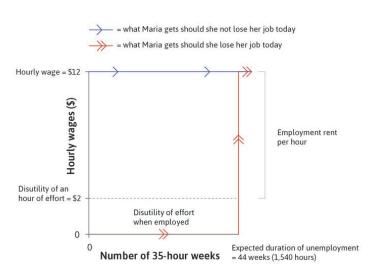
What is Maria's *employment rent*?

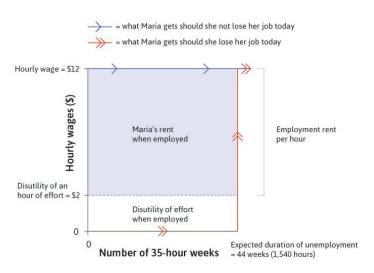
Maria's net utility from the job:

- = \$12 \$2
- = \$10 per hour

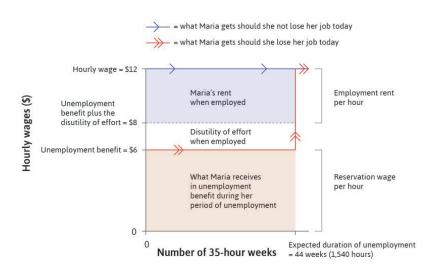
Maria's total employment rent

- = employment rent per hour × expected lost hours of work
- = $$10 \text{ per hour} \times (44 \text{ weeks} \times 35 \text{ hours per week})$
- = \$15,400





EMPLOYMENT RENT WITH UNEMPLOYMENT BENEFIT



EMPLOYMENT RENT WITH UNEMPLOYMENT BENEFIT

Example 2: What is Maria's employment rent if Maria gets unemployment benefit of \$6 per hour?

Maria's net utility from the job:

- = \$12-\$6-\$2
- = \$4 per hour

Maria's total employment rent

- = employment rent per hour × expected lost hours of work
- = \$4 per hour \times (44 weeks \times 35 hours per week)
- = \$6.160

EFFORT INTENSITY

Employer can *set the wage* and can *threaten to fire*Maria's effort intensity is *hidden* from the employer

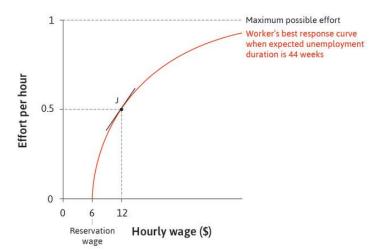
Maria's chooses her effort intensity:

Wage per hour	Work intensity chosen	Reservation wage
\$ 6 per hour	0	\$ 6 per hour
\$ 12 per hour	0.5	\$ 6 per hour
\$ 24 per hour	0.8	\$ 6 per hour

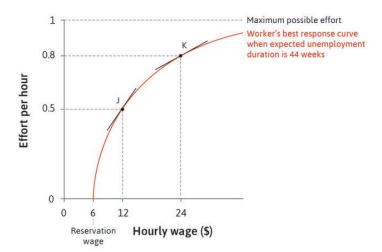
Rate at which wage transforms into effort intensity

... Marginal rate of transformation

MARIA'S EFFORT CHOICE

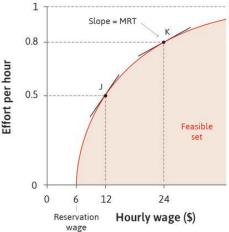


MARIA'S EFFORT CHOICE



MARIA'S EFFORT CHOICE

Introduction



 Maximum possible effort
 Worker's best response curve when expected unemployment duration is 44 weeks

Some jobs are mechanical where as other jobs, the quality of effort matters.

Chef at a high end restaurant Software engineer

Accountant Shop manager

The employer (owner)

just doesn't rent labour but

buys effort intensity with the wage ...

... pays a wage premium for buying higher effort

Employer's *indifference curve* connect are all the points where she is indifferent between *wage premium* she offers and *effort intensity* she gets from Maria

Slope of the *indifference curve*:

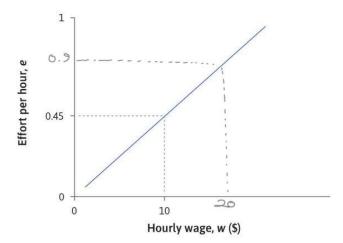
rate at which the employer trades off

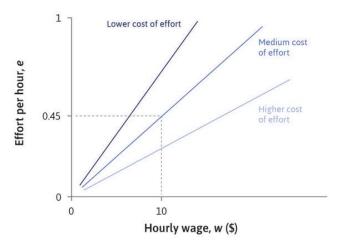
wage premium paid to Maria

and

effort intensity obtained in return

... Marginal rate of substitution





Employer chooses the wage—effort intensity combination where

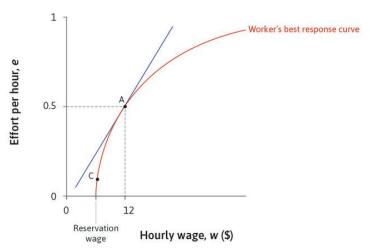
Marginal rate of substitution (MRS)

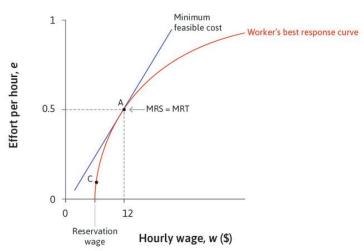
... rate a which employer trades-off *wage* cost with *effort intensity* obtained in return

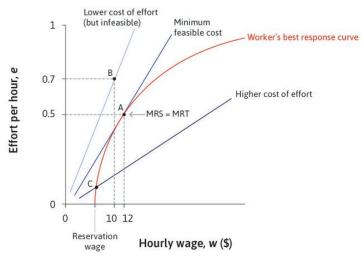
equals

Marginal rate of transformation (MRT)

... rate at which Maria produces *effort intensity* in response to *wage*







EFFICIENCY WAGE

Efficiency Wage:

the employer pays the worker a higher *economic rent* in order to obtain the *high effort intensity*

this is because *effort intensity* is *hidden* and cannot be ordered *Intuition*: think of it as the cost of buying *hidden effort intensity*

Employers have less *power* over them

Skilled workers' work in jobs where *effort intensity* is important and thus obtain efficiency wage

Architects, designers

Unskilled workers get the minimum wage

Construction workers, shelf stockers

SUMMARY

Firms: owners and managers have *power* over workers

More power over unskilled than skilled workers

Skilled workers use knowledge and their work is more subject to hidden action

Economic rents *motivate* workers to exert effort

Explains why *skilled workers earn higher wages* than unskilled workers