

Supply Chain



Procurement

Definition: Involves obtaining or buying of goods and services from an external source. These are to be used in the production process or are to be sold on.

Supply Chain

Definition: The various processes involved in producing a product and distributing it to buyers. Managing the supply chain includes procurement of supplies, logistics and inventory control.

Warehouse

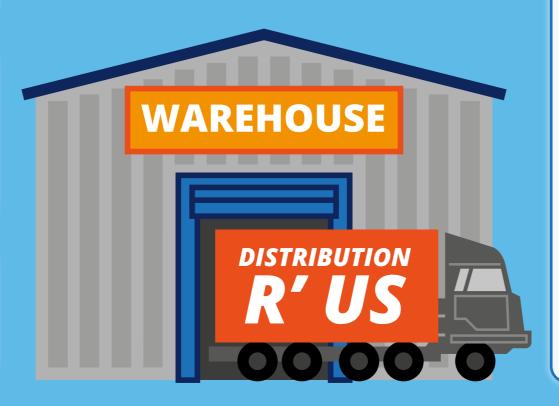
Definition: A place where resources or finished products are stored before they are sold.

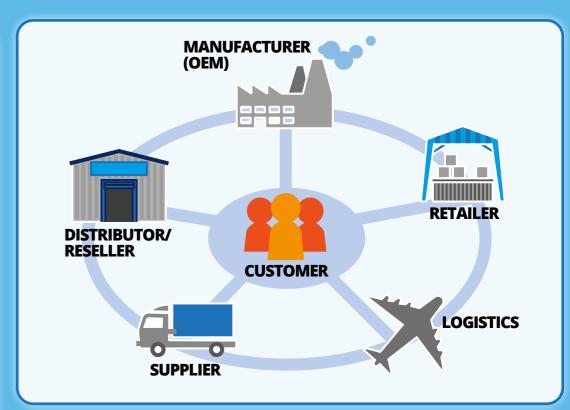
Why Supply Matters

- Customer satisfaction → businesses need stock to be delivered on time so that they can meet their own customer requirements → they will not run out of supplies or be unable to produce or sell
- Costs → if suppliers can produce efficiently this will help reduce the costs of the business → enables it to provide its products at a better price → increases its own profit margins
- Quality of finished goods → if a supplier provides good quality products this can help with the reputation and quality of the business → it will not have problems with defects and returned items
- Reliability → if suppliers can produce and deliver quickly and reliably, a business can hold relatively little stock because it can be replaced easily → this reduces stockholding costs

Suppliers can cause problems for businesses if:

- their deliveries are late
- their prices are high or keep changing
- the quality of the products they supply is poor





Choosing Suitable Suppliers

The choice of suppliers is a critical one for businesses because it will affect the success of what they do.

The choice will involve a number of factors:

- Cost
- Quality
- The range of products that can be supplied
- Speed of delivery
- Flexibility of the supplier → in terms of the quantities that can be produced and the times of deliveries
- Reliability → e.g. the ability to deliver within a certain time slot
- Reputation → what have others said about working with this business
- Payment terms → e.g. how long does the business have to pay
- The contract terms → e.g. what financial compensation would be paid if deliveries were late
- Behaviour of suppliers → concerned about the ethics of the suppliers behaviour such as how they treat their staff → this could affect the business' own reputation

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Logistics

Definition: Involves the management of the movement of goods from where they are to where they are needed: often between the manufacturer and the consumer.

LOGISTICS

Logistics is the flow of materials:

- Into a business from suppliers
 - → Delivery and transportation from suppliers
 - → Correct quantity and quality on time
- Within a business as raw materials are transformed into a finished product
 - → Warehousing and stock management
 - → Inventory of supplies and finished goods
 - → Packaging of finished goods
 - → Security of supplies and finished goods
- Out of a business to reach the customer
 - → Transportation and distribution of finished products

Any disruptions in any part of this flow will mean that a business is unable to match supply to demand.



Stock

Definition: Raw materials that have not yet been used or products that have been made, but not sold.

It can also include semi-finished goods or finished goods.

Holding stocks are important in order to:

- have supplies to keep production going
- have stocks to meet customer demand.

Stock Control Method		Just-in-Case (Traditional)		Just-in-Time
Definition	•	Holds stock just-in-case there is a delay from suppliers or a sudden unexpected increase in demand.	•	Requires businesses who adopt the idea to keep their stocks of finished goods and / or materials to a minimum. Goods will only be produced when orders are received and / or materials are only received when they are needed. This process saves storage costs and avoids having assets tied up in stocks.
Advantages	\checkmark	Stock usually available → not held up by bottlenecks / delays in delivery	\checkmark	Stock only bought when needed → no need for warehouse → lower storage cost
	\checkmark	Bulk purchases → discounts available → lower prices → lower costs	\checkmark	Materials generally in good condition → straight from manufacturer
	\checkmark	Quality of stock can be checked → longer time available	\checkmark	Up-to-the-minute materials bought → based on current technologies
	\checkmark	Stock can be kept in correct environment	\checkmark	Little waste → only buying what needed → small surplus of stock in downturn
		300 Maximum stock level Re-order stock level Minimum stock level	\checkmark	Stock delivered straight to where it is needed → no extra cost / reduced chance of damage
			\checkmark	Can reduce cash flow problems
Jan Feb Mar Apr / TIME				
Disadvantages	X	Need to find storage → warehousing can be expensive → may be lost depending on	X	Depend on suppliers → if they run out of materials → production may have to stop
		other business	X	Delivery difficulties → delays through
	X	Stock needs to be moved from where it		weather / congestion / accidents
		is stored to factory → expensive / greater chance of damage	X	No bulk buying → deliveries more
	X	Labour costs → involved in looking after stored goods		expensive → more need to be paid for → no economies of scale JUST-IN-TIME STOCK CONTROL RAW MATERIALS ORDERED MATERIALS DELIVERED
	X	Materials may deteriorate → perhaps wrong environment		
	X	Materials may become out-of-date → technology means new material always		

FULFILMENT

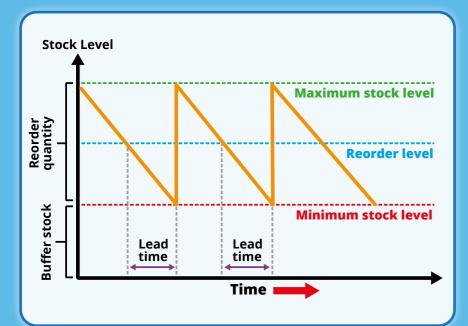
being developed

→ will not get outlay back

Downturn in business means high cost materials not needed → cannot be resold

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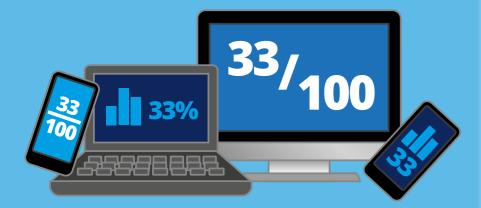
Computerised Stock Control

Stock control systems can be computerised.

When a specified quantity is reached new stock is automatically ordered.

Stock levels are recorded using barcodes and scanners i.e. each time materials are removed from a warehouse they are scanned and the stock level updated.

Relies on accuracy e.g. all workers remember to scan, no loss of stock, system is set up correctly.



Buffer Stock

Definition: The amount of stock held between the minimum stock holding and zero stock. Used in case of late deliveries or extra orders.

Lead Time

Definition: The amount of time that elapses between placing an order and the delivery of that order.

The relationship between the functional areas of a business and its supply chain

Marketing

- Cost of raw materials and manufacturing to inform pricing decisions
- Product features and functions
- USP e.g. ethically sourced
- Quality of product → leading to brand loyalty and repeat sales
- Customer satisfaction
- Place available to end customer

Operations

- Quality of supply will affect the quality of the product
- Frequency of delivery will affect the operations process

Finance

- Cost of raw materials
- Payment terms negotiated with suppliers, impacting on cash flow
- Sales revenue
- Higher profit margins from increased efficiency, lower stock holding costs and less waste

Where to Source Supplies

Locally v globally and less developed countries

- Ethics
 - → Are suppliers paid a fair rate?
 - → Can ethical behaviour be tracked back through the e-supply chain e.g. working conditions or child labour?
 - → Impact on local economy e.g. jobs
- Costs
 - → Do cost savings justify the uncertainties or risk to quality?
- Logistics
 - → Delivery time
 - → Risk of stock not arriving or being damaged



How to Store and Distribute Supplies

This will depend on the:

- frequency and size of deliveries
- storage requirements e.g. security or special conditions such as refrigerated
- flow of materials through the production process
- distribution of finished goods
- right quantity and quality at the right time
- ability to match supply to demand to achieve customer satisfaction.

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Picking a Supplier

Suppliers will **affect unit costs** in the following ways:

- The price of the components directly affects the cost of a product.
- Discounts may be offered for buying in bulk.
- Appropriate payment terms will help businesses avoid bank charges.
- If a supplier can deliver reliably and regularly then stock holding costs can be reduced.

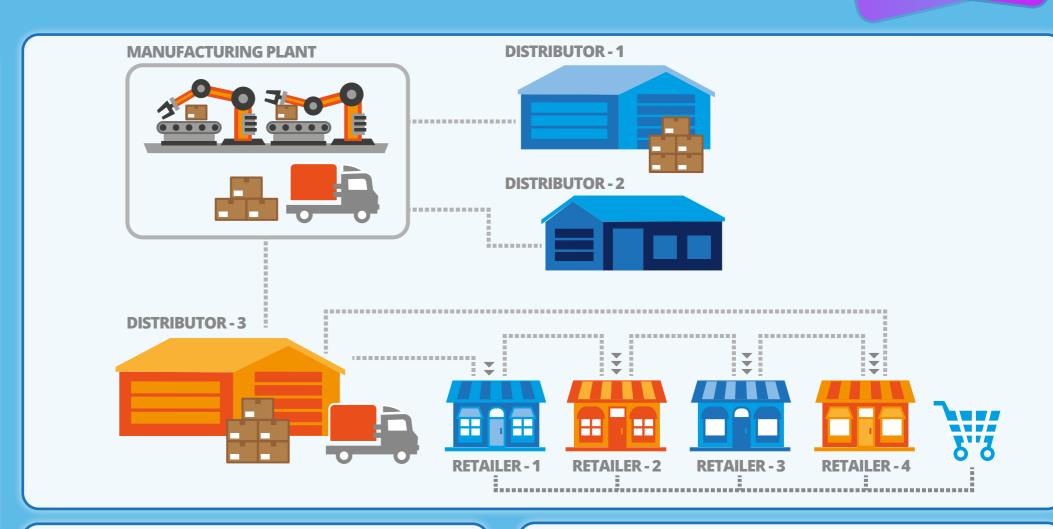
Suppliers will have a **direct influence on prices** as:

- High quality components allow businesses to charge a higher price.
- Reliability and speed of supply can add value to a product and allow a premium price to be charged.
- Reliability and quality will help a business establish a good reputation.

Suppliers will affect **reputation and customer satisfaction**:

- quality of raw materials entering the production process
- delivery of supplies on time
- flexibility to match supply to demand
- speed of delivery





Summary of the impacts a supplier can have on a business

Selecting the right supplier is important as they will impact on a business in the following ways:

- costs.
- quality of finished goods.
- price changes.
- customer satisfaction.
- reputation.
- sales.
- profits.



The impact of supply decisions on stakeholders

The owners of the business → supply decisions impact on features such as quality of the products, the costs and the speed of delivery → this will affect sales, profits and dividends

The local community → transportation of products will impact on air pollution and congestion → choice of local suppliers can create jobs and help grow the community

The suppliers themselves → if a supplier wins a contract it may be able to expand and reward its own staff and investors → if they lose a contract then they may see sales and profits fall

The government → movement of products around the country will affect the pressure on infrastructure such as the road system. Choosing a UK supplier will boost the economy.