NATURE & MODES OF TRANSPORT

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Modes of Transport

☐ The **modes of transpor**t describes the way goods are transported.

There are basically five different modes;

* Rail

* Road

* Air

* Water

* Pipeline

* Multimodal



Rail

For heavy and large loads over longland journeys

Advantages

- Lowest overall cost per unit weight
- $\,\square\,$ Railway is the safest form of transport $\,\square\,$
- Can be most effective when linked into multimodal system

- Routes between fixed terminals
- They cannot stop at intermediary points
- Rail transport cannot provide door to door service





Road

☐ The most common mode of transport and it is used at least somewhere in almost all supply chains.

Advantages

- Main benefit: flexibility
- Travel speed
- Use extensive road networks
- Large number of carriers working in the same areas
- Easy to monitor location of goods

- □ For shorter distances
- Vulnerable to congestion and traffic delays
- Dependence on fuel price





Water

It is used for big volumes for international traffic

Advantages

- ☐ For heavy and bulky goods
- For products with longlead times
- □ Cheaper traffic means

- Difficulty in monitoring exact location
- Limited to appropriate ports
- Transfers to ships take time







Urgent, perishable goodsor high value are transported by air.

Advantages Speed of delivery

- It is a costly transport
- Weight limits





Pipeline



☐ The main uses of pipelines are oil and gas together with the utilities of water and sewage.

Advantages

- Moving large quantities over long distances.
- Cheapest way of moving liquids
- Local networks can add flexibility

- Being slow
- □ Inflexible
- Only carrying large volumes of certain types of fluid

MULTIMODAL TRANSPORT



Refers to journeys that involve two or more different modes of transport.

* Choice of mode depends on a variety of factors. The main ones are the nature of materials to move, the *volume and distance*.

	SPEED	VOLUME	SECURITY	COST	TYPE OF GOODS
HIGHWAY	High	Low	Media	Low	All
RAIL	Media	High	High	Media	Commonly for heavy and large loads
WATER	Low	Very High	High	Low	Commonly for heavy and large loads
AIR	Very High	Low	Very High	High	urgent, perishable goods or of high value
MULTIMODAL	High	Media	Media	Media	All

Thank You