

Global Logistics Management

Part III



Learning Objectives

- To demonstrate the different types of global logistics problems.
- Understanding the global logistics complexities and uncertainties.
- To explain different approaches to collaboration across global logistics.

Global Logistics Problems

- Demand forecast uncertainties

Competition



Global Logistics Problems

- Demand forecast uncertainties

Prices

TESCO PRICE CHECK

We shop around, so you don't have to...

Every week we check over 10,000 prices in Asda, Sainsbury's and Morrisons stores to guarantee you low prices every day.

See how our products compare on price this week:

Against	Tesco is cheaper	Tesco is the same price	Tesco is more expensive	Based on no. of lines found	
	NO. OF PRODUCTS	NO. OF PRODUCTS	NO. OF PRODUCTS	NO. OF PRODUCTS	NO. OF PRODUCTS
Asda	856	5292	678	6826	
Sainsbury's	4676	2970	319	7965	
Morrisons	3083	1661	493	5237	

Prices checked between 03 October 2005 and 05 October 2005.

If you want to see just how low our prices really are, simply search for any product in the Price Check below and see how we stack up!

PRICE CHECK
Simply type in the product you want to check and click 'compare'...

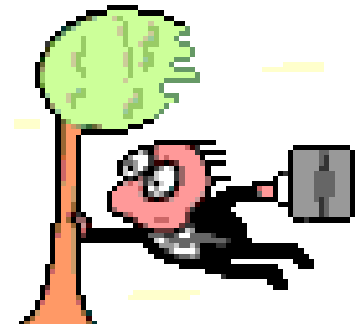
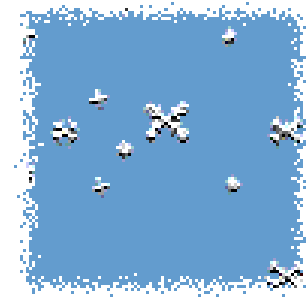
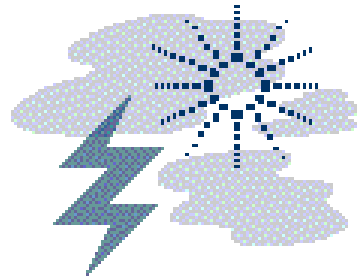
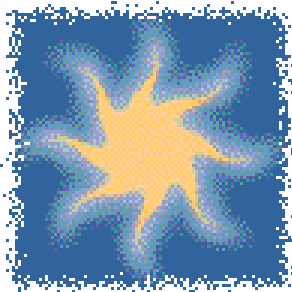
Product:

Helping You Spend Less Every Day

Global Logistics Problems

- Demand forecast uncertainties

Weather Condition



Global Logistics Problems

- Demand forecast uncertainties

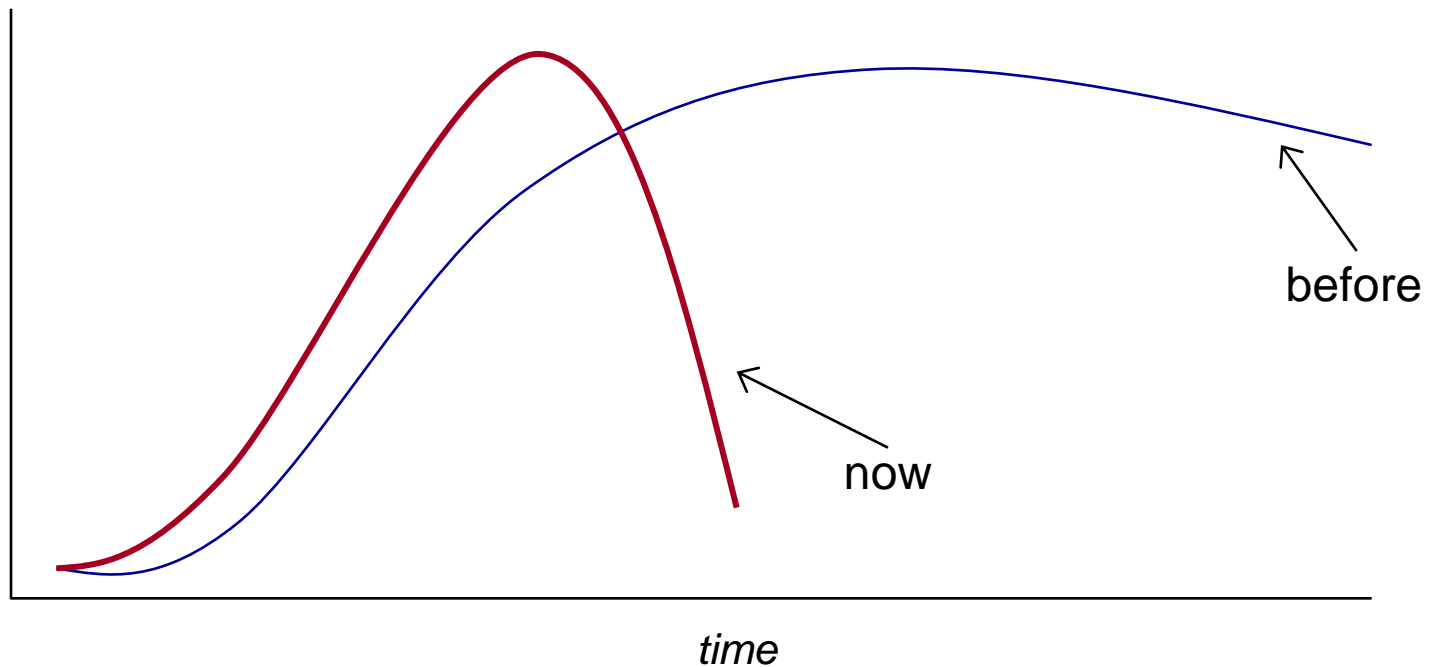
Technological development



Global Logistics Problems

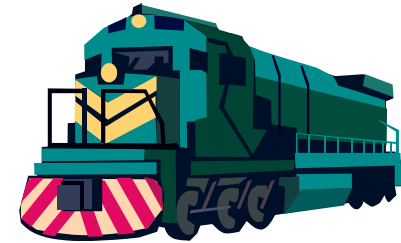
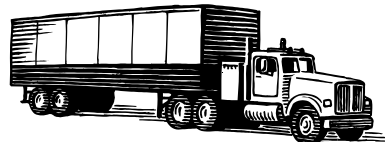
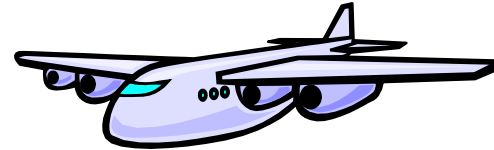
- Demand forecast uncertainties

Short life-cycles



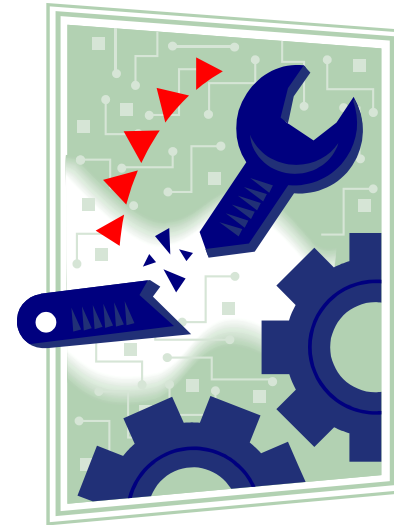
Global Logistics Problems

- Transportation uncertainties



Global Logistics Problems

- Production uncertainties



Global Logistics Problems

- Supply uncertainties

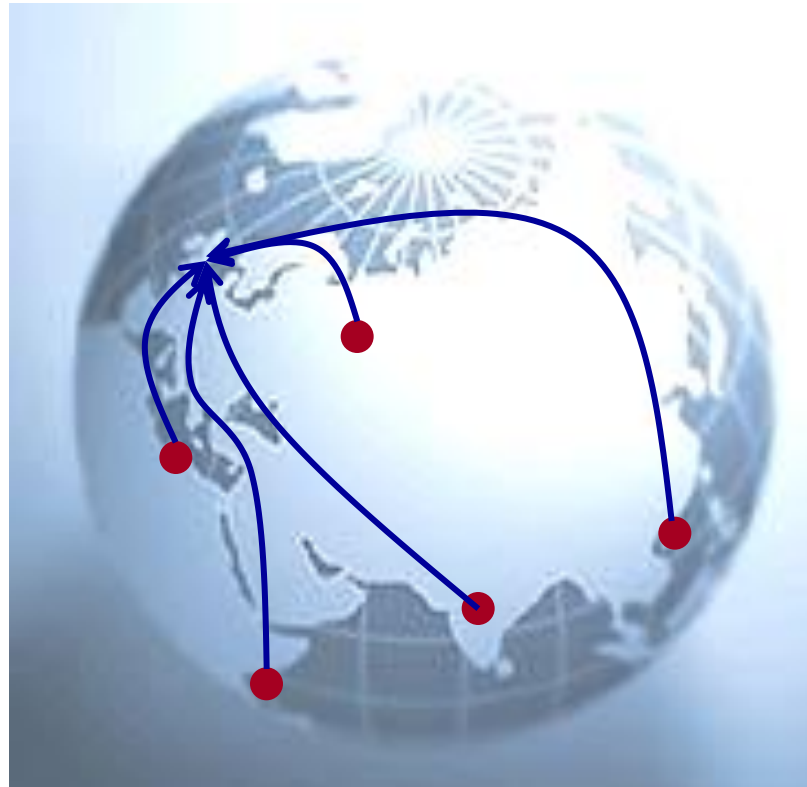
Quality



Global Logistics Problems

- Supply uncertainties

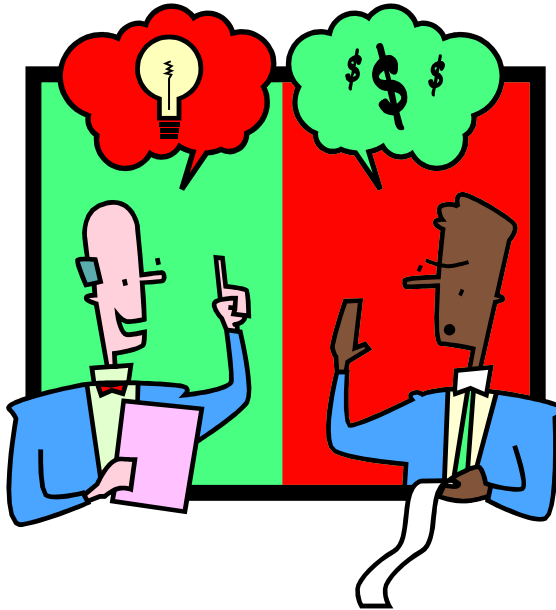
Delivery



Global Logistics Problems

- Supply uncertainties

Cost



Global Logistics Problems

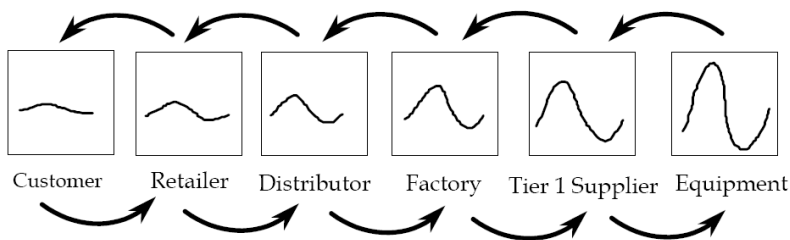
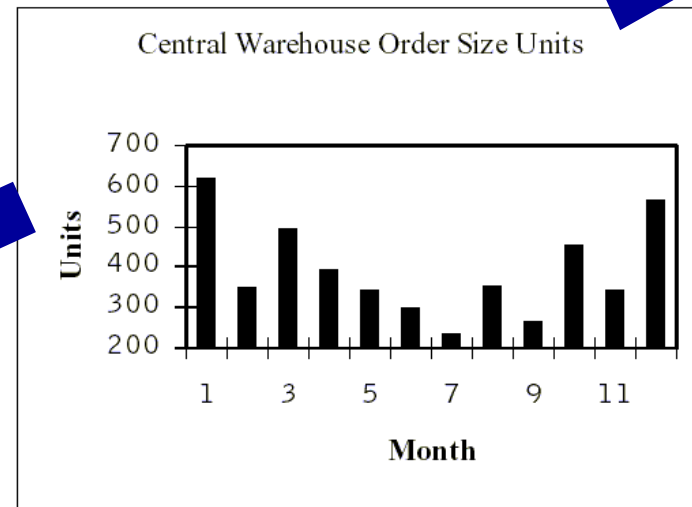
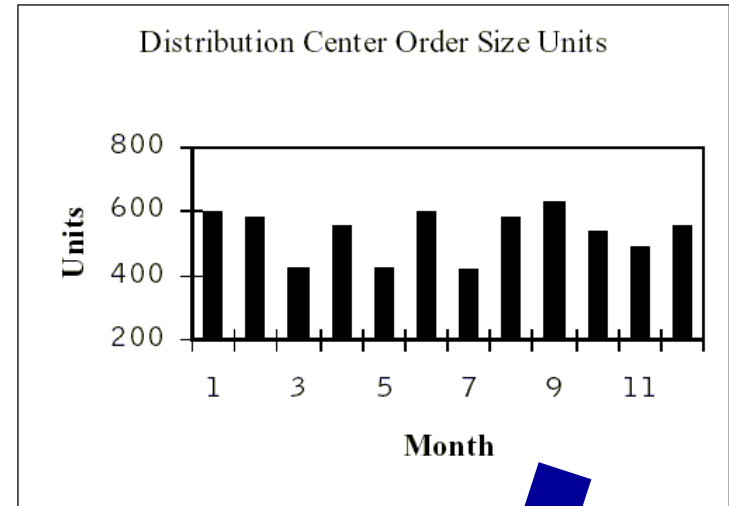
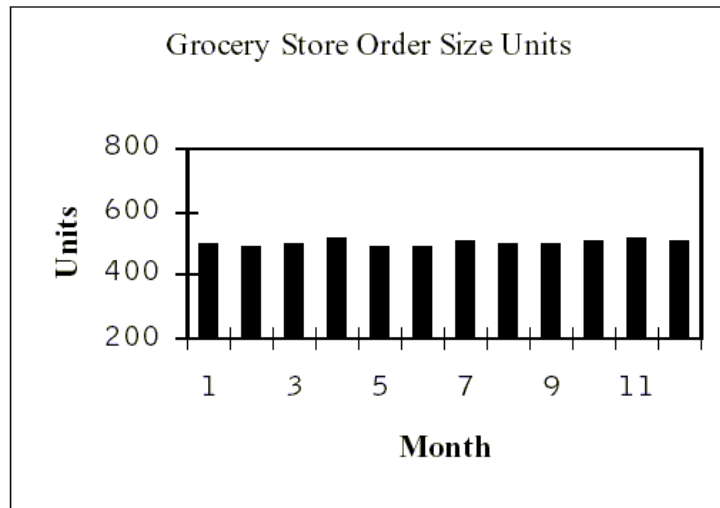
- **Bullwhip effect** refers to erratic shifts in orders up and down the supply chain because of poor demand forecasting, price fluctuation, order batching, and rationing within the chain.

Even slight demand uncertainties and variability become magnified if each distinct entity, on the chain, makes ordering and inventory decisions with respect to its own interest above those of the chain. Distorted information can lead to tremendous inefficiencies, excessive inventories, poor customer service, lost revenues, ineffective shipments, and missed production schedules.



Global Logistics Problems

- Bullwhip effect



Global Logistics Problems

- Bullwhip effect consequences

Lower revenues

- Stockouts and backlogs mean lost sales, as customers take their business elsewhere.

Global Logistics Problems

- Bullwhip effect consequences

Higher costs

- High carrying cost
- Stockout cost
- Distributors need to expedite orders (at higher shipping expenses)
- Manufactures need to adjust jobs (at higher setups and changeover expenses, higher labor expenses for overtime, perhaps even higher materials expenses for scarce components.)
- All entities in the supply chain must also invest heavily in outsized facilities (plants, warehouses) to handle peaks in demand, resulting in alternating under or over-utilization.

Global Logistics Problems

- Bullwhip effect consequences

Worse quality

- Quirky, unplanned changes in production and delivery schedules disrupt and subvert control processes, begetting diverse quality problems that prove costly to rectify.

Global Logistics Problems

- Bullwhip effect consequences

Poorer service

- Irregular, unpredictable production and delivery schedules also lengthen lead time, causing delay and customer dissatisfaction.

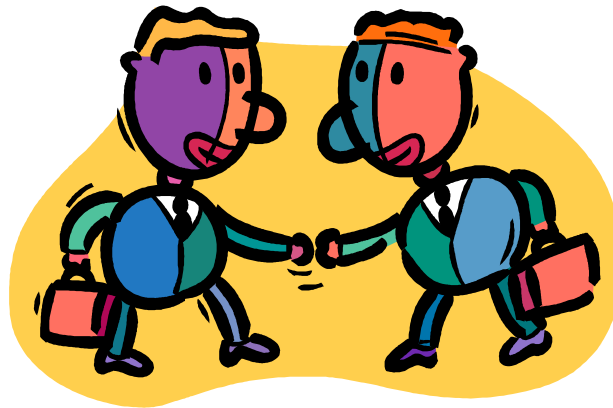
Global Logistics Problems

- How will you communicate with suppliers?
- How will you communicate with customers?
- What information will you need from suppliers, how will you get it?
- How will you identify new sources of supply?
- How will you determine what to build?
- What will your competition be doing?
- What will you need to stay in the game?

How Collaboration helps

Definition

- The ability for manufacturers, their customers and suppliers, to share information and transact business in real-time within trusted e-supply chain communities.



Benefits of Collaboration

- Reduced inventory
- Improved customer service
- More efficient use of human resources
- Reduced cycle times
- Faster speed to market for new products
- Stronger focus on core competencies
- Greater trust and interdependence
- Increased sharing of information, ideas, technology
- Stronger emphasis on end-to-end supply chain
- Competitive advantage over other supply chains