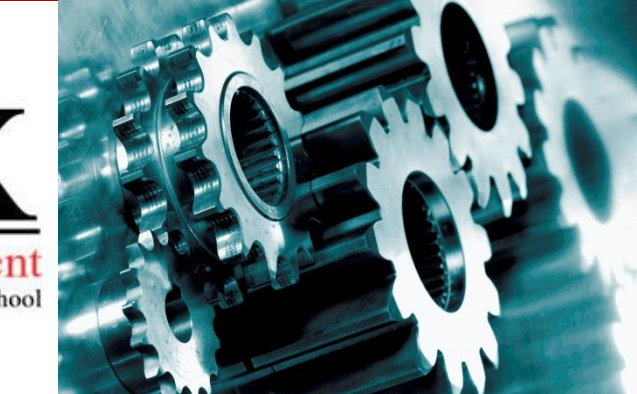


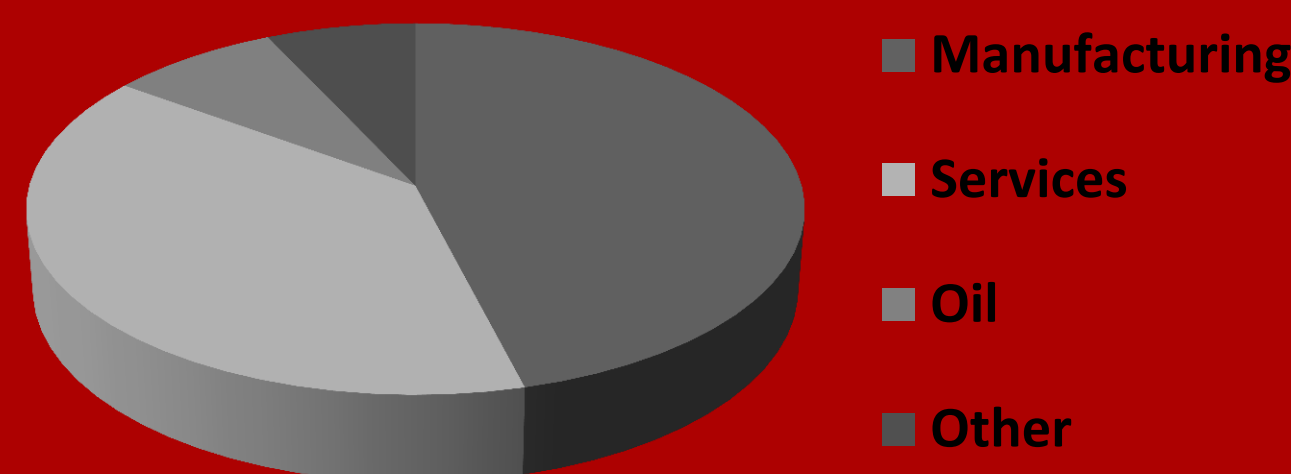
Lean vs Agile



An Empirical Investigation Observing the Effects of Lean and Agile Manufacturing in Relation to Business Performance Measures Within the Automotive Industry in the UK

Main Aim: Determine Which Manufacturing Strategy Between Lean and Agile is Having a Greater Impact on Business Performance Measures

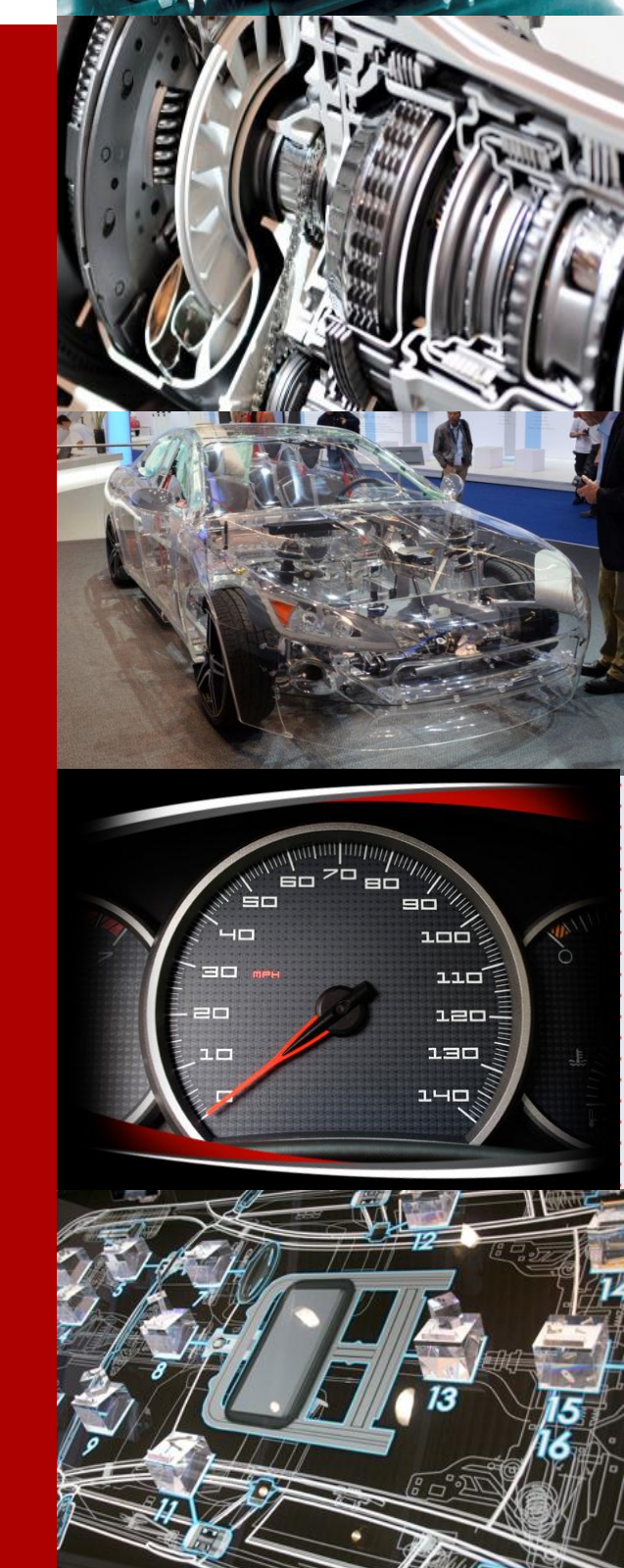
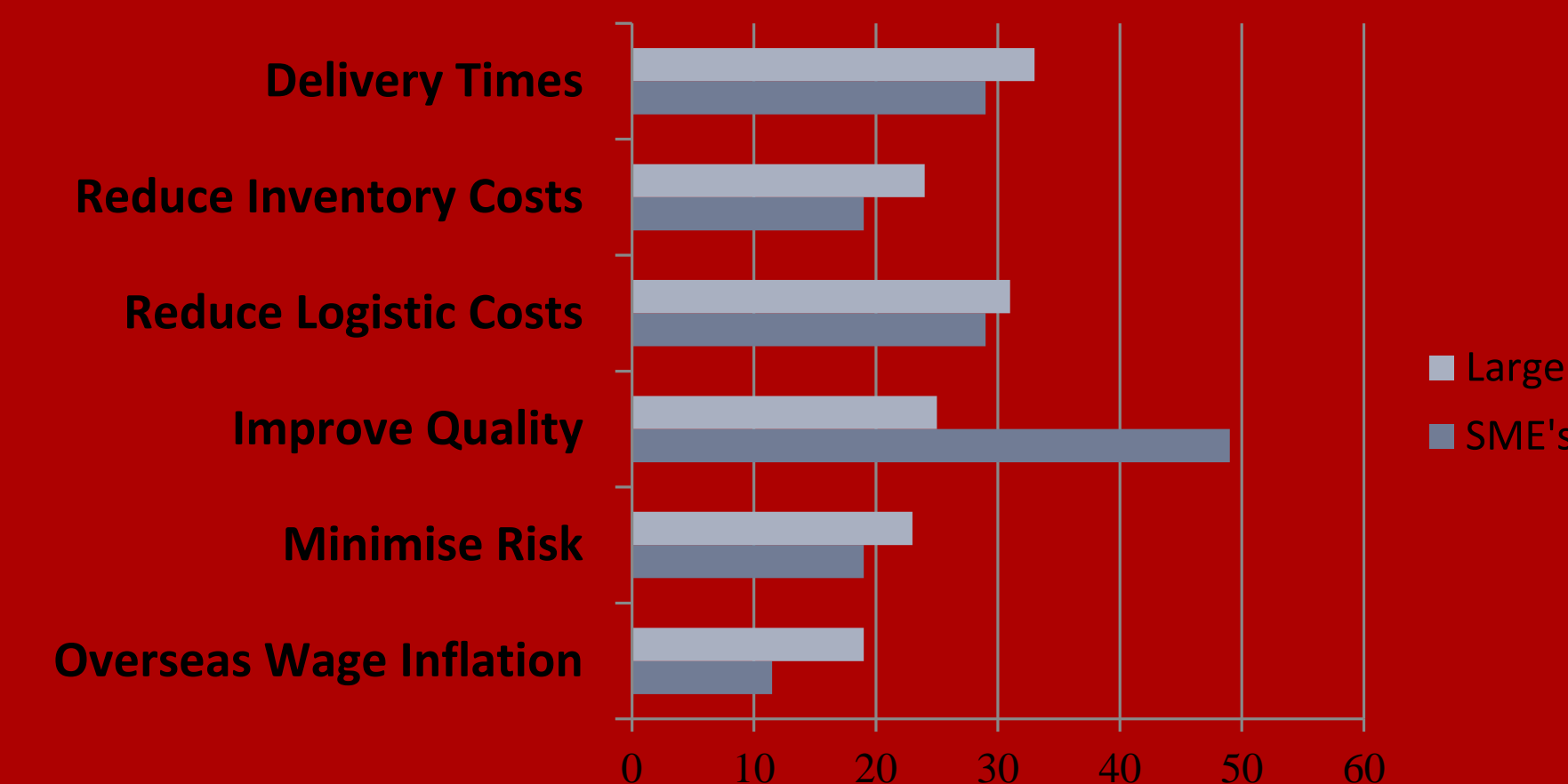
Importance of Manufacturing: Total Percentage of Industry Exports Made Within the UK



Manufacturing accounts for 46% of total exports within the UK



Importance of Manufacturing: Why Are Firms Re-Shoring Back to The UK?



Lean Manufacturing

Originated from Toyota lean manufacturing refers to a set of manufacturing practices that aims to eliminate all forms of waste whilst ensuring quality.

- Continuous Improvements
- Value Stream Mapping
- Pull of Raw Materials
- Production Smoothing
 - Zero Defects
 - Just-In-Time

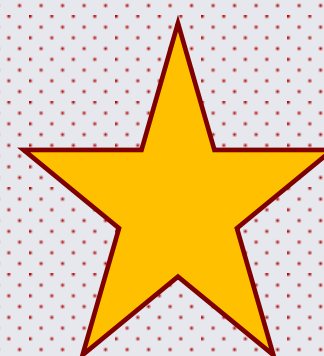
What Business Performance Measures Will This Study Assess?

- **Costs** (Total Costs, Profits, Manufacturing Costs, Inventory Costs, Distribution Costs)
- **Dependability** (Lateness of Orders, Inventory in Stock, Schedule Adherence)
- **Quality** (Defects, Scrap Levels, Failures, Customer Complaints)
- **Flexibility** (Volume Flexibly, Product Mix Flexibility, New Product Flexibility, Supplier Flexibility)
- **Speed** (Order-Lead Time, Delivery Frequency, Manufacturing Time, Distribution Time)

Agile Manufacturing

Agile manufacturing refers to a set of manufacturing practices that can quickly respond to customer needs and sudden market changes.

- Virtual Enterprise
- Reconfiguration
- Knowledge Driven
- Core Competence Management
 - Rapid Prototyping
- Multi-Functional Technologies



Theoretical Contribution & Benefits:

- Further Distinguish Lean & Agile Manufacturing Concepts
- Empirically Assess the Effects of Lean & Agile Manufacturing
- Provide Industry Direction for Organisations Implementing Lean & Agile Manufacturing

