

Substitutes to Strategy

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Look at four of the most commonly adopted approaches to operations that are often used as 'substitutes for strategy'

- Total quality management
 - Lean operations
- Business process reengineering
 - Six Sigma

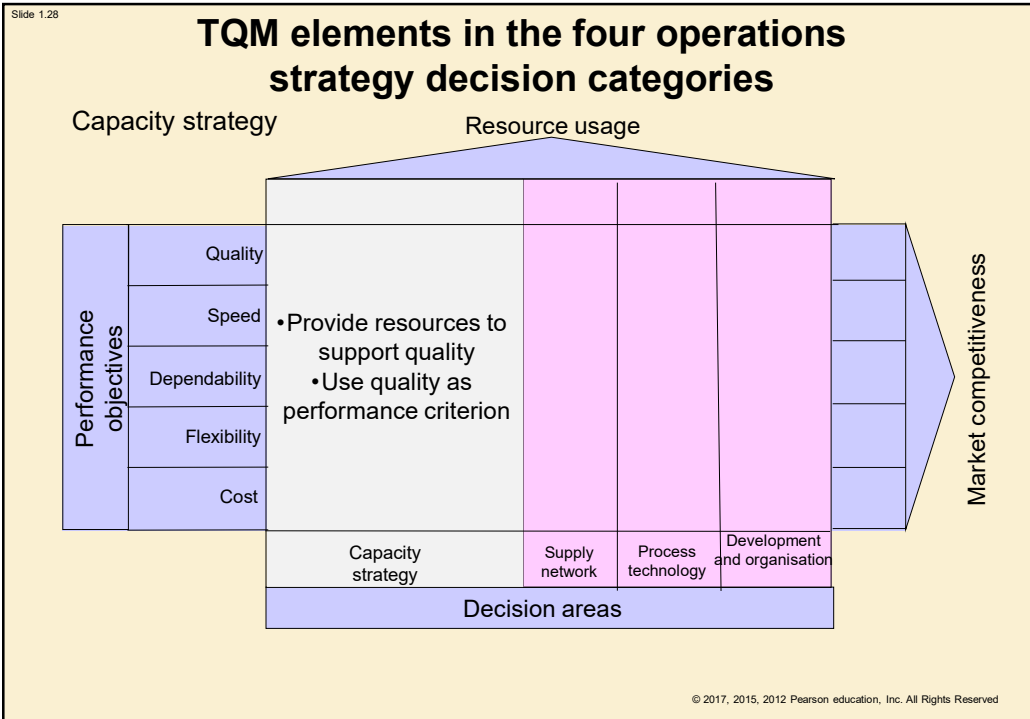
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Feigenbaum (generally held to be the originator of the term) defines TQM as...

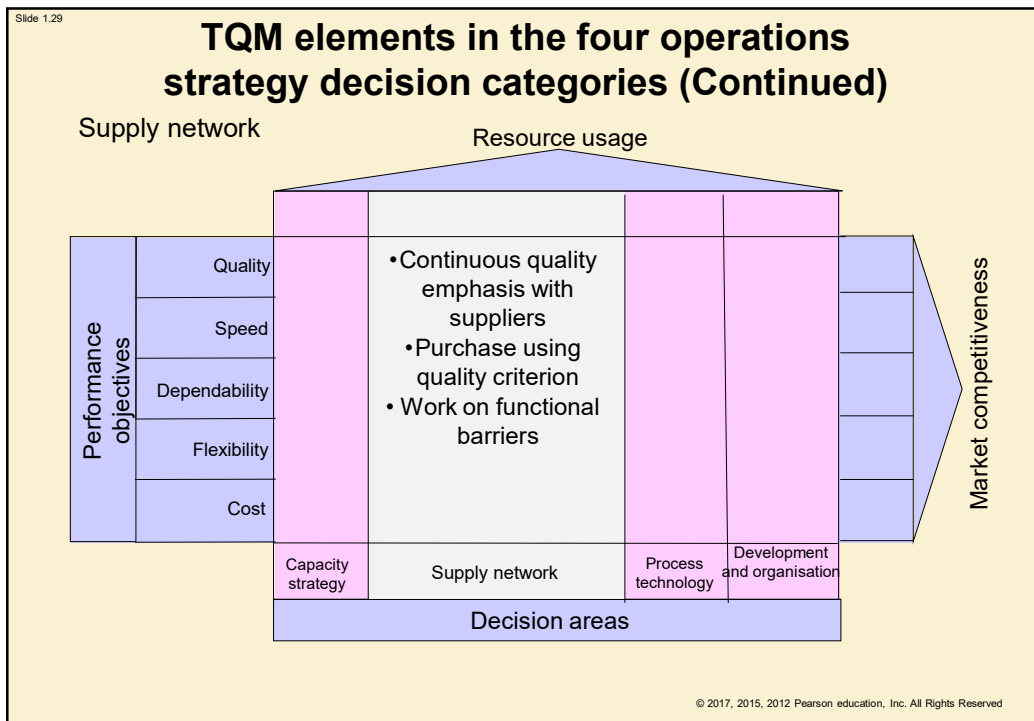
'An effective system for integrating the quality development, quality maintenance and quality improvement efforts of the various groups in an organisation so as to enable production and service at the most economical levels which allow for full customer satisfaction'.

The elements of TQM

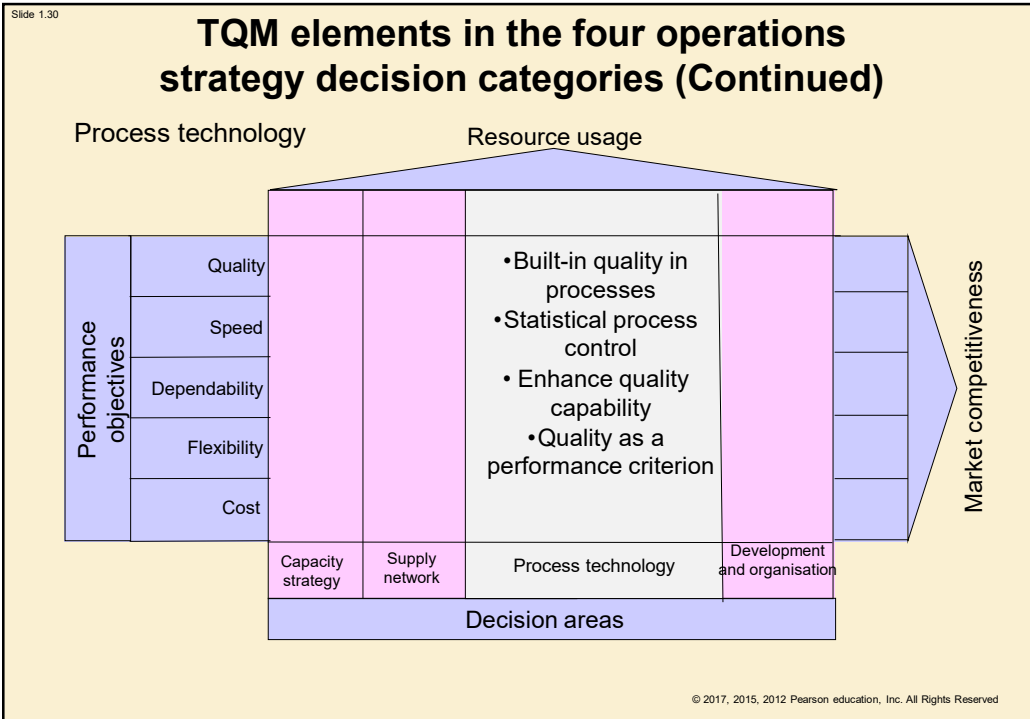
- Meeting the needs and expectations of customers
 - Covering all parts of the organisation
 - Including every person in the organisation
- Examining all costs that are related to quality, especially failure costs
- Getting things 'right first time', that is, designing-in quality rather than inspecting it in
- Developing the systems and procedures that support improvement.



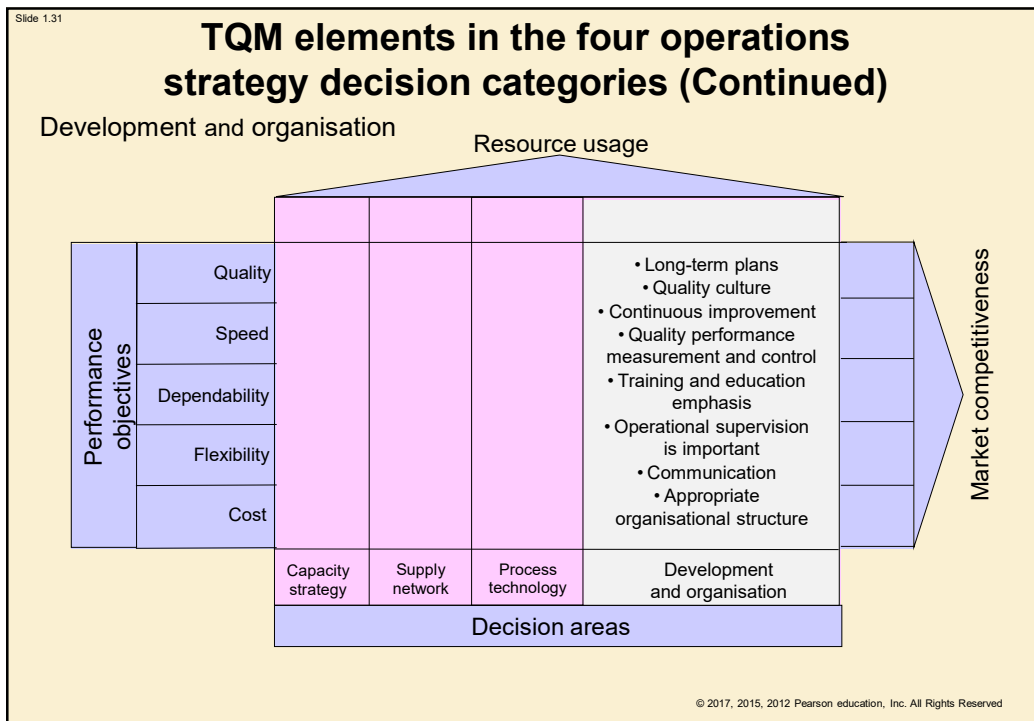
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The lean approach aims to meet demand instantaneously, with perfect quality and no waste

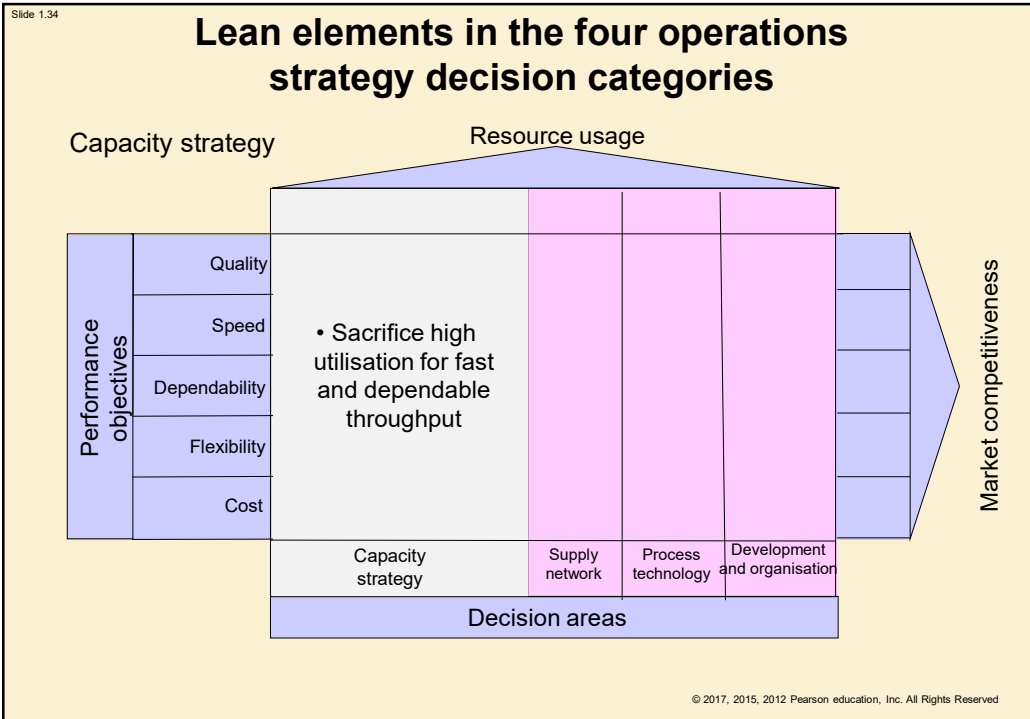
It means that the flow of products and services always delivers...

- exactly what customers want (perfect quality);
- in exact quantities (neither too much nor too little);
- exactly when needed (not too early or too late);
- exactly where required (not to the wrong location);
- at the lowest possible cost.

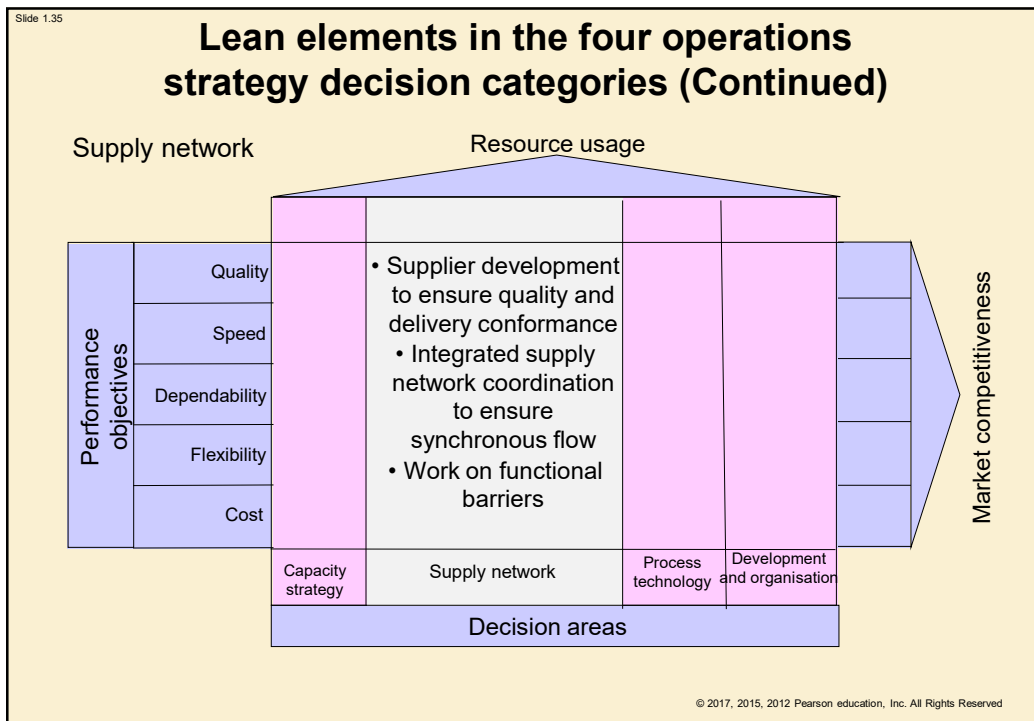
It results in items flowing rapidly and smoothly through processes, operations and supply networks.

The lean approach to operations includes...

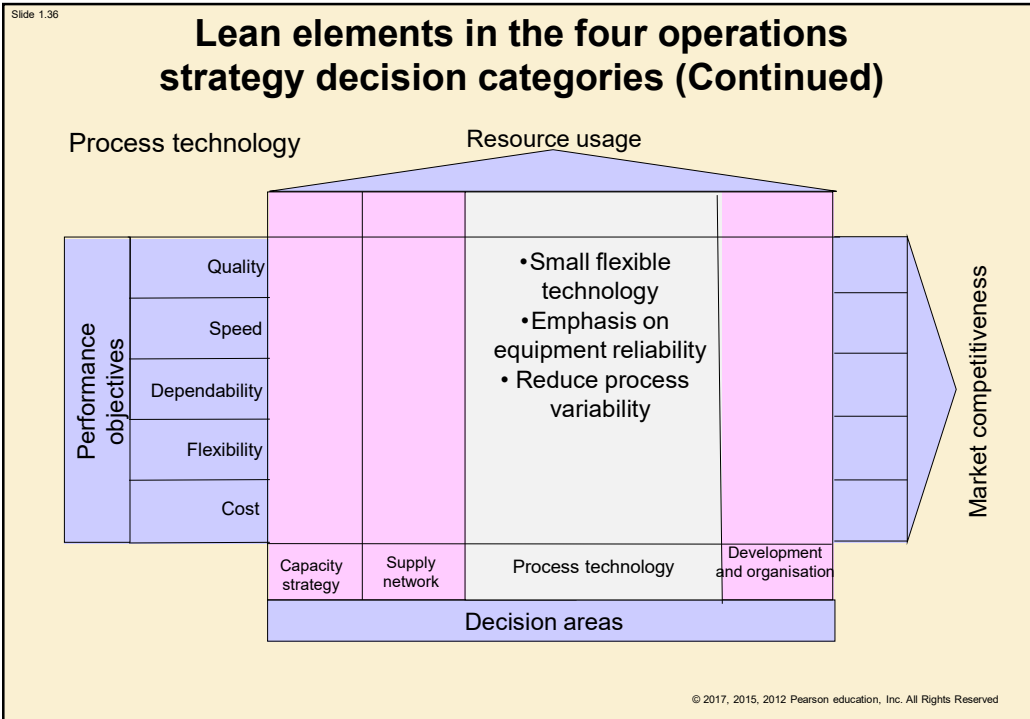
- Customer-based demand triggers
- Synchronised flow
- Enhanced improvement behaviour
 - Waste elimination
 - Waste from irregular flow
 - Waste from inexact supply
- Waste from inflexible response
 - Waste from variability



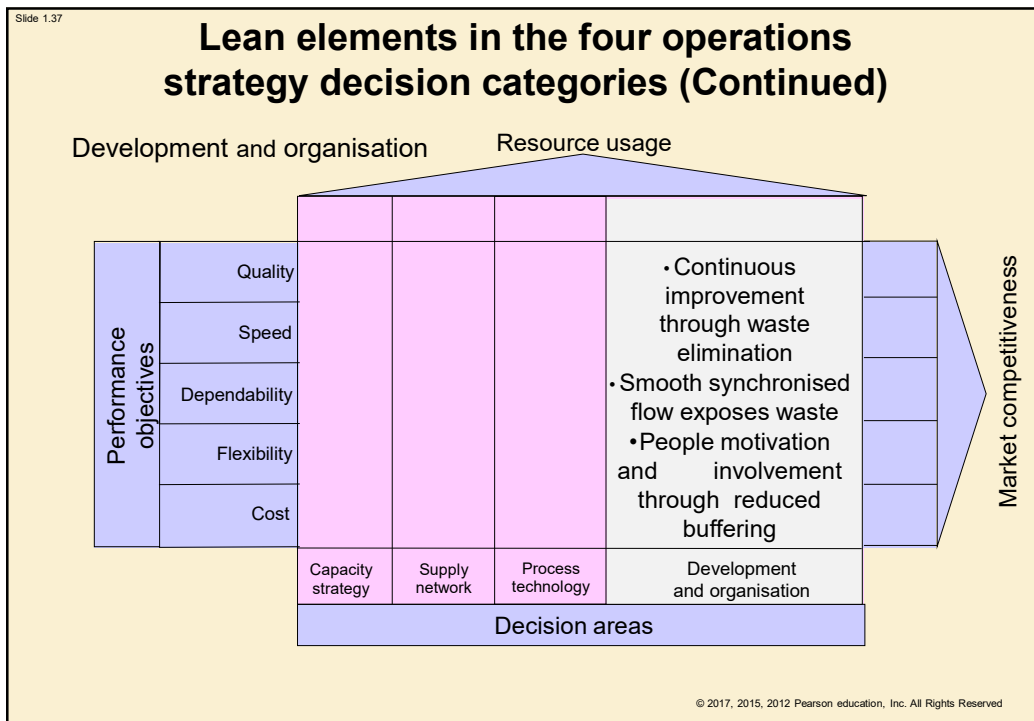
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What is BPR?

BPR has been defined as...

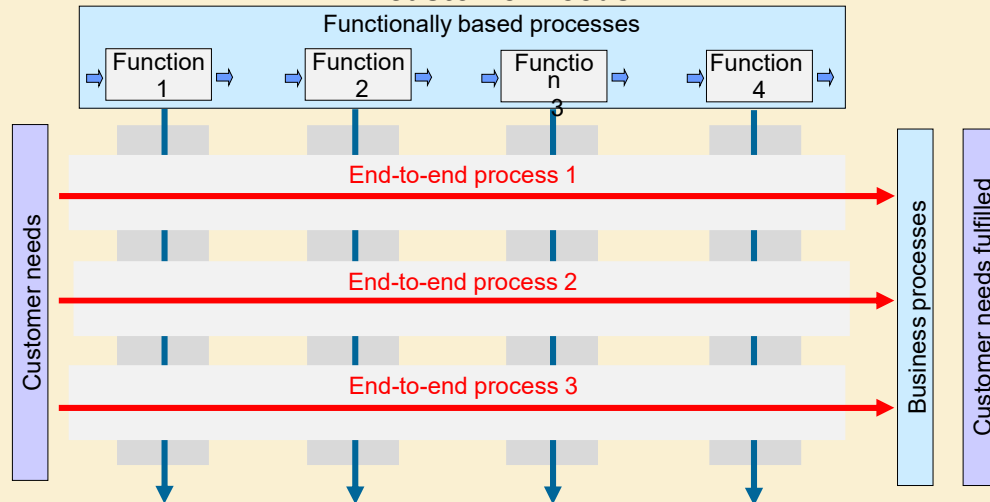
'... the fundamental rethinking and radical redesign of business processes to achieve dramatic improvements in critical, contemporary measures of performance, such as cost, quality, service and speed.'

Hammer, M. and Champy, J. (1993) *Reengineering the Corporation: A manifesto for business revolution*. New York: Harper Business.

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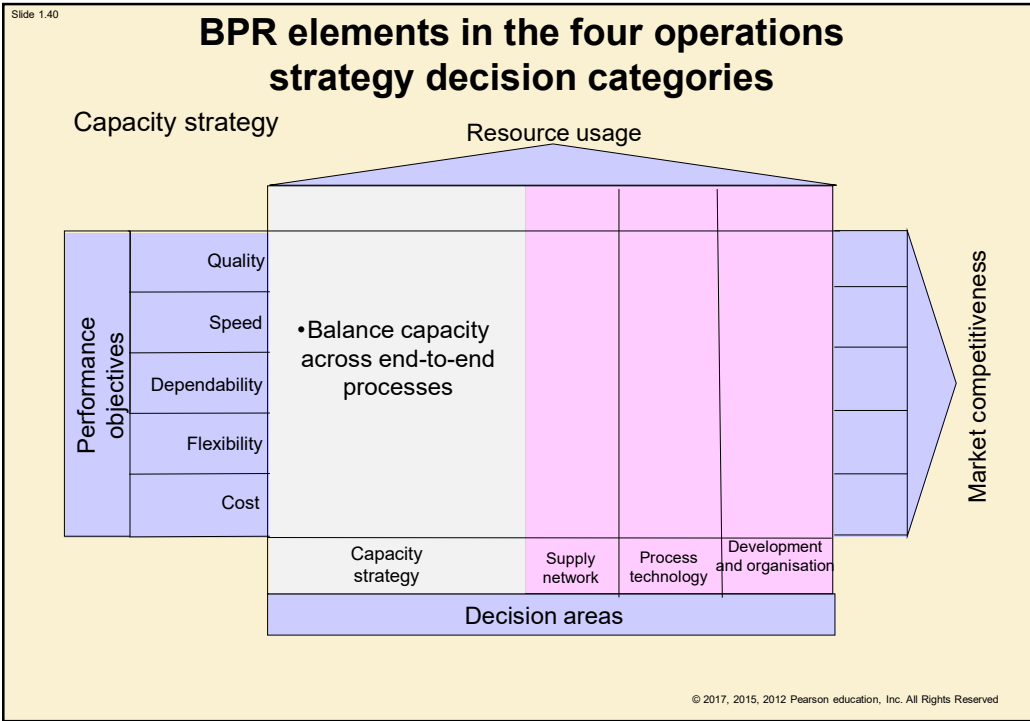
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BPR advocates reorganising (reengineering) processes to reflect the natural 'end-to-end' processes that fulfill customer needs

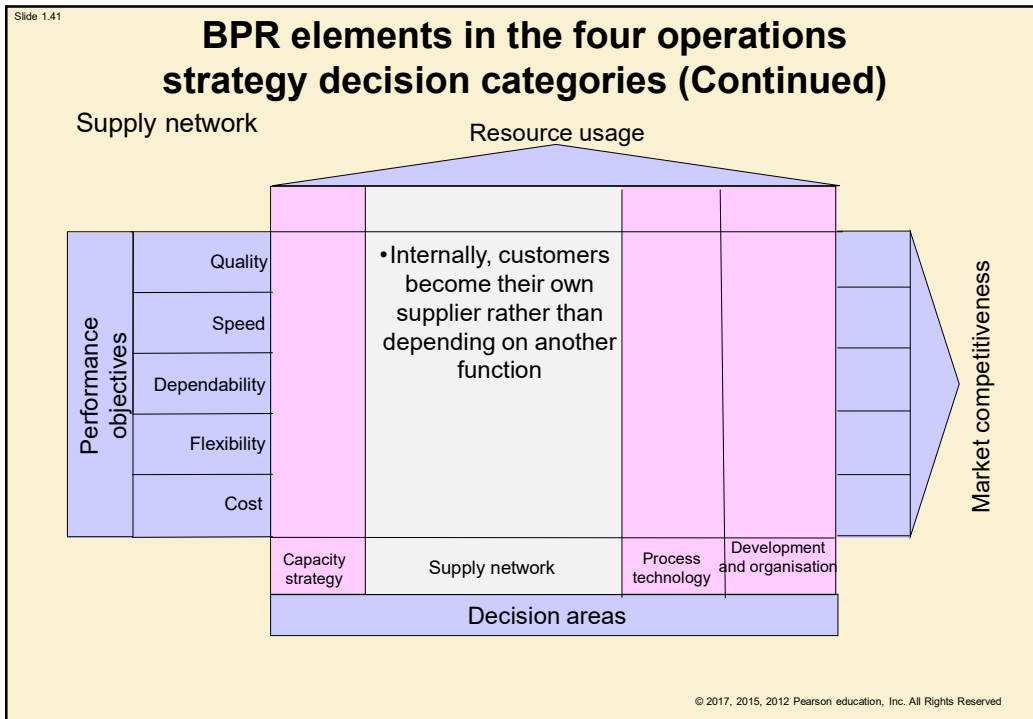


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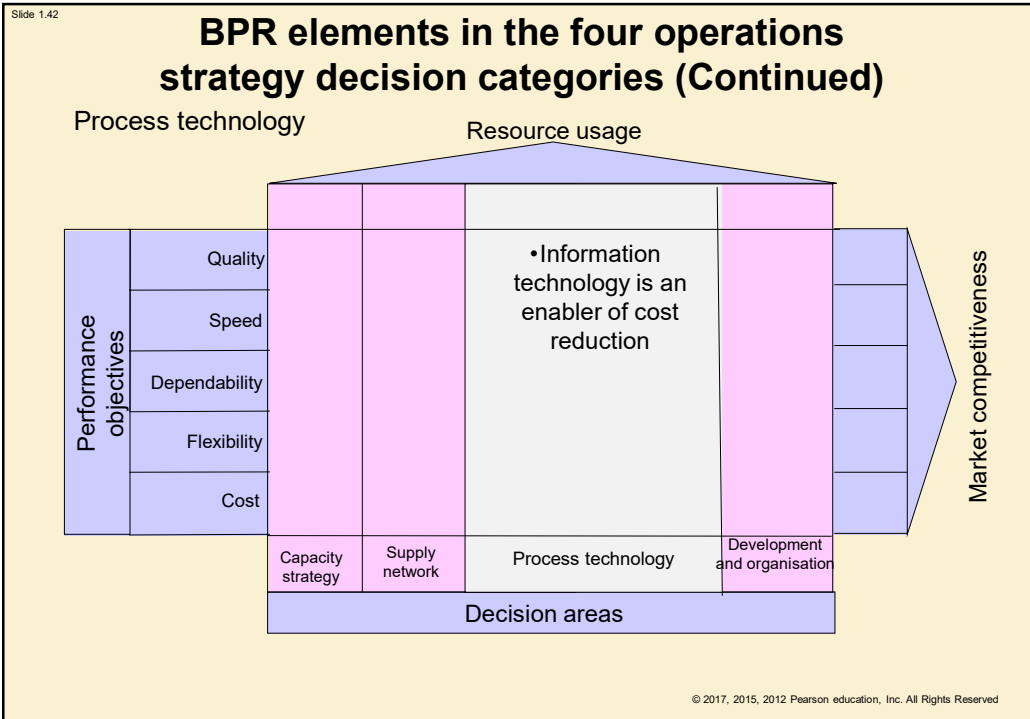
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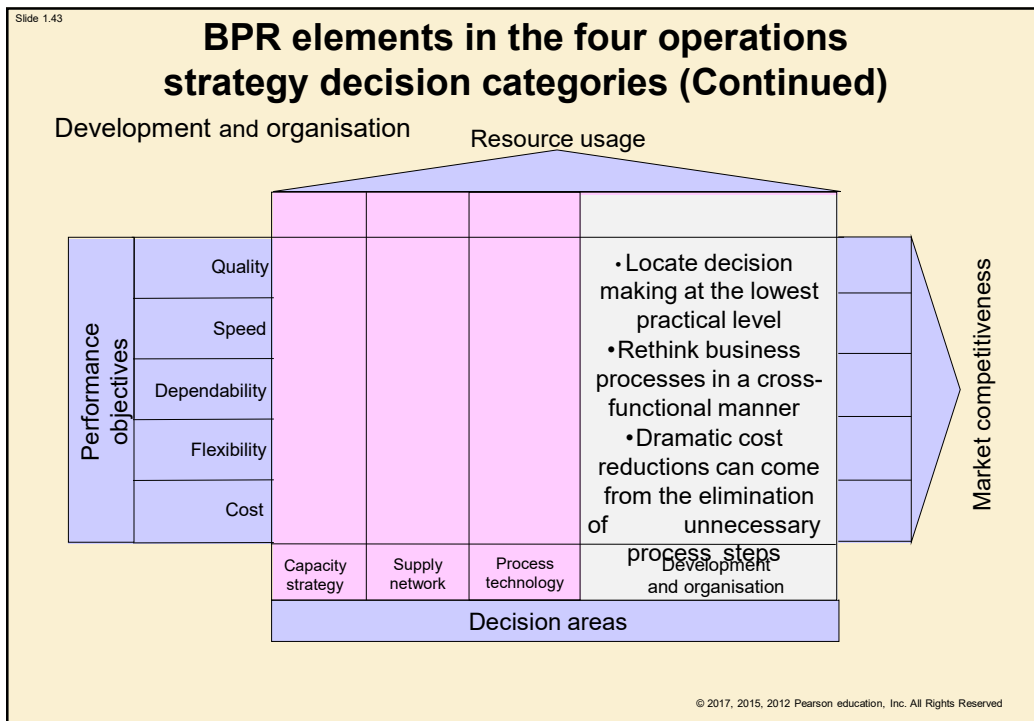
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What is Six Sigma?

Named because it requires the natural variation of processes (3 standard deviations, or 'sigma') should be half their specification range.

So, the specification range of a product or service should be 6 standard deviation of the process.

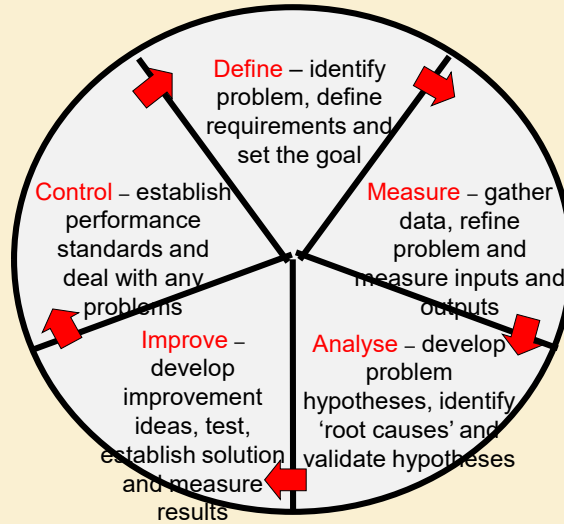
Now the definition of Six Sigma has widened to be defined it as...

... a disciplined methodology of defining, measuring, analysing, improving and controlling the quality in every one of the company's products, processes and transactions – with the ultimate goal of virtually eliminating all defects.

The elements of Six Sigma

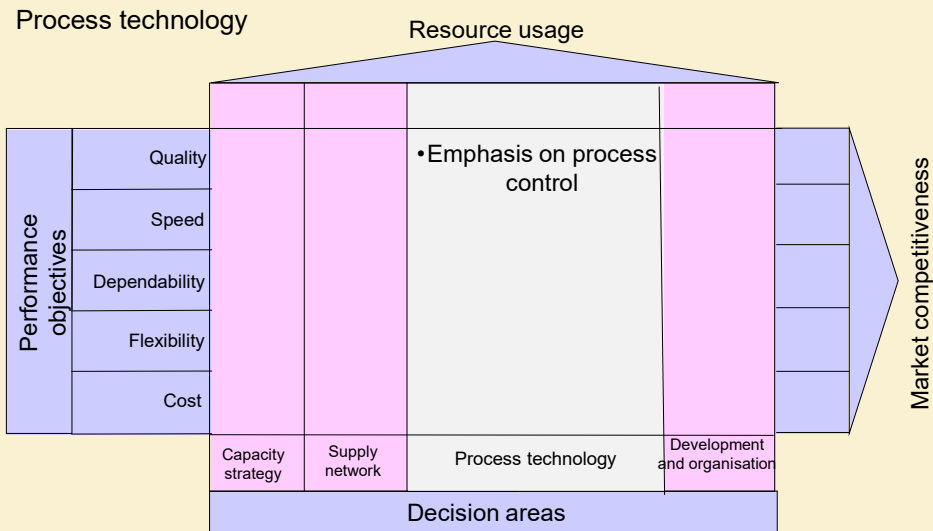
- Customer-driven objectives
 - Use of evidence
- Structured improvement cycle
- Structured training and organisation of improvement
 - Process capability and control
 - Process design
 - Process improvement

The DMAIC cycle used in Six Sigma

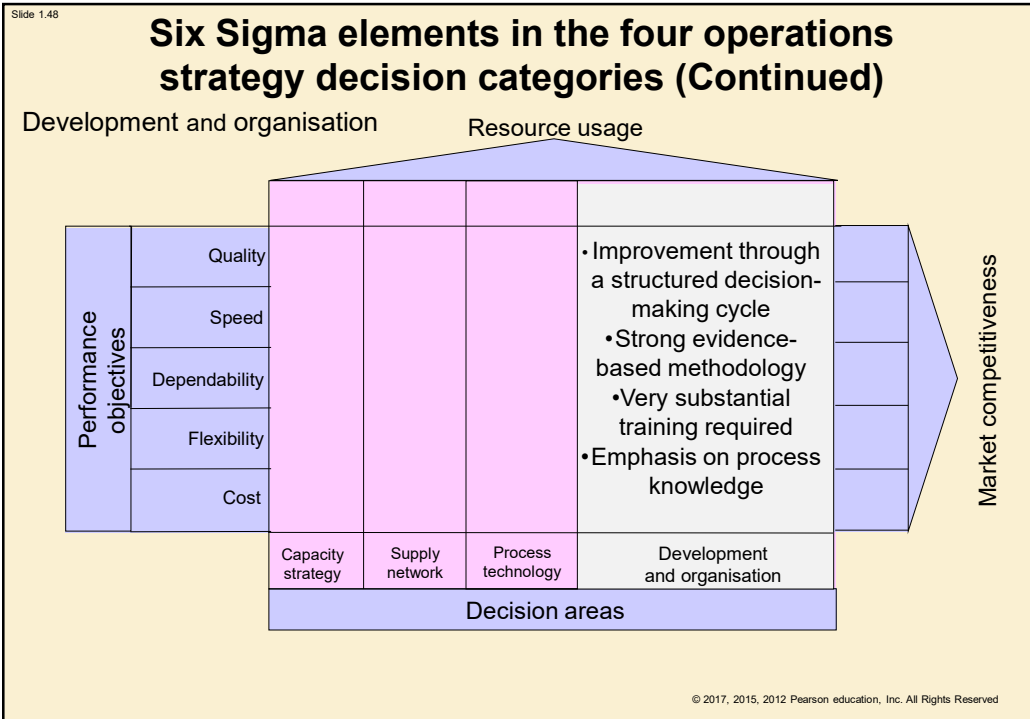


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Six Sigma elements in the four operations strategy decision categories



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Slide 1.49

Some points for discussion

- How much should one be influenced by the experiences of other organisations?
- Operations that rely on others to define what is 'best practice', are always limiting themselves to currently accepted methods of operating or currently accepted limits to performance.
- Best practice is not 'best' in the sense that it cannot be bettered, it is only 'best' in the sense that it is the best one can currently find.

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Some points for discussion (Continued)

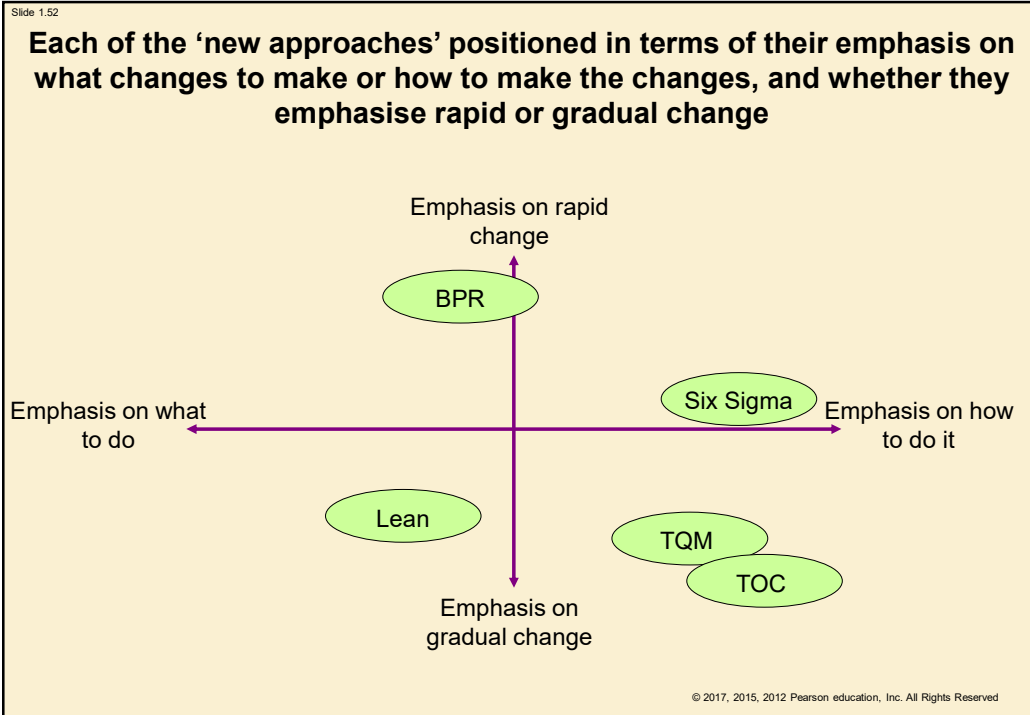
- Senior managers sometimes use these new approaches without fully understanding them.
- If senior managers do not understand these approaches, how can the rest of the organisation take them seriously?
- The details of these approaches are not simply technical matters. They are fundamental to how appropriate the approach could be in different contexts.
- Not every approach fits every set of circumstances. So, understanding in detail what each approach means must be the first step in deciding whether it is appropriate.

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Some points for discussion (Continued)

- All these approaches are different.
- Does the approach emphasise a gradual, continuous approach to change, or a more radical 'breakthrough' change?
- What is the balance between whether the approach emphasises *what* changes should be made or *how* changes should be made?

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- Slide 1.53
- Some points for discussion (Continued)**
- These approaches are not strategies but they are strategic decisions.
 - Operations strategy is the reconciliation of market requirements and operations resource capabilities.
 - An individual enterprise's market requirements and operations resource capabilities are unique.
 - Operations strategy is individual and specific to one organisation at one point in time, but these approaches are generic.
 - They are an important part of a strategy, but not strategies in themselves.
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