



Planning Over a Time Horizon

Long-range planning

Intermediaterange planning

Short-range planning

Add facilities
Add long lead time equipment

Subcontract Add equipment Add shifts

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Add personnel Build or use inventory

Schedule jobs Schedule personnel Allocate machinery

Modify capacity

Use capacity

* Limited options exist

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Eponomies of Scale



- Economies of scale
 - If the output rate is less than the optimal level, increasing output rate results in decreasing average unit costs
- Diseconomies of scale
 - If the output rate is more than the optimal level, increasing the output rate results in increasing average unit costs