



SNS COLLEGE OF TECHNOLOGY



Coimbatore - 35

23BAT613 – Operations Management

UNIT-III - OPERATIONS AND THE VALUE CHAIN

Tools for Capacity Planning

Presented by

Ms. A. Hanis Sultana

Assistant Professor,
Department of Management Studies





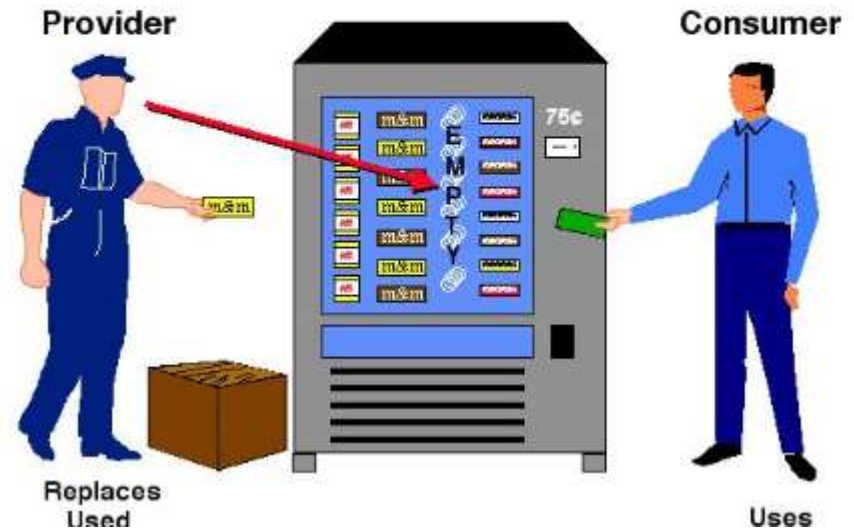
Recap:



Developing Capacity Alternatives



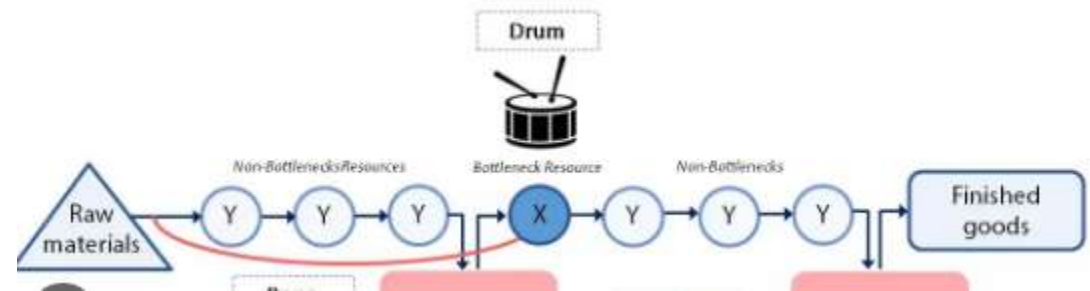
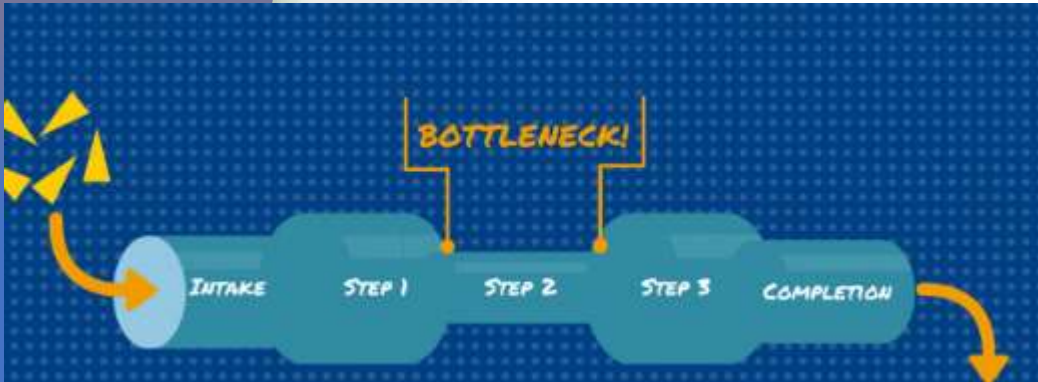
Synchronous / Lean Manufacturing Pull System





Today's Topic:

Tools for Capacity Planning





Tools for Capacity Planning - Meaning

Capacity planning is essential for ensuring that your business can meet future demands without overcommitting resources.

Spreadsheets (Excel, Google Sheets)

Use Cases: Simple capacity planning tasks, creating custom models.

Features: Flexibility, customizable, easy to share.

Pros: Widely available, familiar to most users.

Cons: Manual data entry, prone to errors, limited scalability.



Tools for Capacity Planning



ERP Systems (Enterprise Resource Planning)

Examples: SAP, Oracle ERP Cloud, Microsoft Dynamics 365

Use Cases: Comprehensive resource management, integration with other business functions.

Features: Real-time data, scalability, robust analytics.

Pros: Integrated with other business processes, real-time insights.

Cons: Expensive, complex implementation.



Tools for Capacity Planning



Dedicated Capacity Planning Software

Examples: Asprova, Preactor, Capacity Planning Tool by NetSuite

Use Cases: Manufacturing, logistics, detailed capacity management.

Features: Advanced scheduling, simulation capabilities, demand forecasting.

Pros: Specialized features, industry-specific solutions.

Cons: Can be costly, requires training.



Tools for Capacity Planning



Cloud-based Solutions

Examples: AWS Auto Scaling, Azure Resource Manager, Google Cloud Platform

Capacity Planning

Use Cases: IT infrastructure, dynamic scaling needs.

Features: Scalability, real-time adjustments, cost management.

Pros: Pay-as-you-go, easy to scale up or down.

Cons: Dependent on internet connectivity, potential security concerns.



Tools for Capacity Planning



Project Management Tools

Examples: Microsoft Project, Smartsheet, Asana

Use Cases: Project-specific capacity planning, team management.

Features: Gantt charts, resource allocation, collaboration tools.

Pros: Project-centric, good for team collaboration.

Cons: Less suited for large-scale operations



Tools for Capacity Planning



Business Intelligence (BI) Tools

Examples: Tableau, Power BI, QlikView

Use Cases: Data analysis, reporting, capacity trend analysis.

Features: Data visualization, dashboards, advanced analytics.

Pros: Powerful data analysis, integrates with various data sources.

Cons: Requires data literacy, can be expensive for large datasets.



Tools for Capacity Planning



Key Considerations:

Scalability: Ensure the tool can grow with your business.

Integration: Look for tools that integrate well with your existing systems.

Cost: Balance the tool's cost against the benefits it provides.

User-friendliness: Consider the learning curve and ease of use.

Support and Training: Evaluate the availability of vendor support and training resources.



ASSESSMENT:



- Which of the following best defines capacity planning?
- A. Planning for financial resources
 - B. Planning for human resources
 - C. Planning for optimizing operational efficiency
 - D. Planning for aligning resources with demand forecasts



Summary

By following these steps, organizations can systematically develop and implement capacity alternatives that enhance their ability to achieve their goals and address emerging challenges effectively.



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