

OSCM Cheat Sheet

by Quinle via cheatography.com/152592/cs/32853/

| Overview | | | | |
|------------------------------|--------------------------------|------------------------------|--|--|
| Procument | Production | Distribution | | |
| Supplier | Manufa- cturer | Retailer | | |
| Transport- ation Activity | Manufa- cturing Activity | Wareho- using activity | | |

| Distribution System |
|------------------------|
| Retailers |
| Distributor/ Warehouse |
| Cross Docking |
| Multipick- Multidrop |
| Internet |

| Flow Management | | | |
|-------------------------|---|--|--|
| МТО | MTS | | |
| Low reactivity | High reactivity | | |
| Low risk/ cost | Risk of non sold product Inventory cost | | |
| Long customer lead time | Zero customer lead time | | |

| Holding inventory cost |
|------------------------|
| Cost |
| Financial cost |
| Physical storage cost |
| Obsolescence cost |

| onentiel s | moothing: E | xample | Exponentiel : | smoothing: I | Example |
|------------|----------------------|--|---------------|----------------------|-----------------------------------|
| | $F_{t+1} = \alpha I$ | D _t + (1- α) F _t | | $F_{t+1} = \alpha I$ | $D_t + (1-\alpha) F_t$ |
| Month | Demand | Forecast | Month | Demand | Forecast |
| January | 45 | | January | 45 | |
| February | 38 | | February | 38 | |
| Morch | 29 | | March | 29 | |
| April | 35 | 37.33 | April | 35 | 37.33 |
| May | 31 | = 0.1×35 + (1-0.1)×37.33 | May | 31 | 37.1 |
| Jane | 30 | = 37.1 | June | 30 | = 0.1×31 + (1-0.1)×37. = 36.49 |

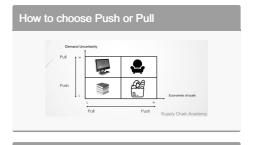
| | hain with Single | |
|---------|---|-----------------------|
| Supply | Chain with Single Unit – Determinist | ic Case |
| | ▽ - □ - ▽ | |
| | cessing time of a product in the unit/chain (lading operations) | including loading and |
| - Cycle | time: $T_L = T$ | _ |
| Capa | ity of the chain : P _L = 1/T | _ |

| SC decision & teoporal horizon | | | | |
|--------------------------------|---------------------------------------|-------------|-------------------|--|
| | Procument | Productio. | Distri- bution | |
| Long term | Supply Chai | n design | | |
| Mid term | Supply chain planning | | | |
| Short term | Production Planning & flow management | | | |
| Very Short term | Detailed ma physical flow | nagement of | | |

| Inventory? |
|---|
| Economic of scale stocks |
| Seasonal stock |
| Safety Stock |
| Speculative stock & Merchandising stock |

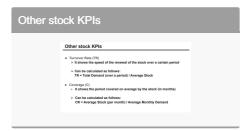
| Pressure of inventory | | | |
|-------------------------|--------------------------------|--|--|
| Small inventory | Large inventory | | |
| WACC | Customer Service | | |
| Storage & handling cost | Ordering cost | | |
| Insurance cost | Set up cost | | |
| Taxes | Labor or equipment utilization | | |
| | Transportation cost | | |
| | Payment to suppliers | | |





| Push & Pull Comparison | | |
|---|---|--|
| Push Strategy | Pull Strategy | |
| Base on Historical Data | Base on Customer Order | |
| High level inventory & transportation cost HIGH | Make final production quick (push & pull combine) | |
| Long time require for manufactoring process | Flexible supply in dynamic market | |
| Target Cost reduction | 1 | |

| VMI, CMI, CPFR | | | | |
|--------------------------------------|------------------------------|--|-------------------------------|--|
| | VMI | CMI | CPFR | |
| Distur- bance of pro orrder | Customer follow S | C can edit/ submit orderr | Order generated jointly | |
| Visibility | Sharing level | Storeself | | |
| Role of customer | Inform- ation provider | Data are shared Invisible to supplier | Joint inventory | |





By **Quinle**

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Published 28th June, 2022. Last updated 27th June, 2022. Page 1 of 1. Sponsored by CrosswordCheats.com Learn to solve cryptic crosswords! http://crosswordcheats.com