

#027 : Supply Chain (Or Inventory System) Performance Measurement



Why

“No measures, no improvement”. Apart from, tracking the performance of an in-use system, performance assessment is also needed while selecting a new system.

Procedure Steps

1

Identification of suitable KPIs

2

Computation of those KPIs using techniques below

Existing Techniques

- Analytic Hierarchy Process (AHP)
- Analytic Network Process (ANP)
- Data Envelopment Analysis (DEA)
- Delphi/Survey
- Simulations (Usually limited to a few scenarios)
- Uncertainty Theory (with Fuzzy Set Theory)
- AB Testing

Open Areas

- Addressing stochasticity.
- Incorporation of specific needs of organizations into KPIs.
- Defining comprehensive KPIs.
- Comparison between existing and new systems under same conditions.
- Identification of factors affecting the performance.

A Scenario Based Assessment Approach



At Vekia



Define the appropriate KPIs.



A long-run simulation approach for KPI estimation.



Δ -Method for comparison with existing systems.



Due consideration to stochasticity.