

Business Intelligence Concepts, Tools, and Applications

Week 4: Business Performance Management Systems

Lesson 2: Performance Measurement System



Performance Measurement System

- Learning Objectives
 - Define the purpose of a performance measurement system
 - Understand how to define common key performance indicators (KPIs) and summarize their distinguishing attributes



Performance Measurement System

 A system that assists managers in tracking the implementations of business strategy by comparing actual results against strategic goals and objectives

Purpose

- identify and articulate the strategic mission, goals and objectives of an organization
- assist managers in tracking the implementations of business strategy by comparing actual results against these strategic goals and objectives.





DMAIC Performance Measurement Model

- **DMAIC** (define, measure, analyze, improve, and control) is a closed loop performance improvement model for
 - Defining the goals, objectives, and boundaries of the improvement activity
 - Measuring the existing system to monitor its performance against the goals
 - Analyzing the system to identify ways to eliminate gaps
 - Improving the performance of existing system by reducing the gaps
 - Controlling by modifying the compensations, incentive systems, polices, and procedures, or other management systems
- For a new process the model that is used is called *DMADV* (define, measure, analyze, design, and verify) instead.



Effective Performance Measurement

Measures should:

- focus on key factors (indicators)
- be a mix of past, present, and future
- balance the needs of shareholders, employees, partners, suppliers, and other stakeholders
- start at the top and flow down to the bottom
- have targets that are based on research and reality rather than arbitrary.



Key Performance Indicators (KPIs)

- KPIs represents strategic objectives and metrics that measure performance against a goal
- They are Leading rather that lagging indicators and reflect future performance
- As such it is not easy to create effective KPIs





Common KPIs

- Customer performance
- Service performance
- Sales operations
- Sales plan/forecast





Key Performance Indicators

- Distinguishing features of KPIs
 - Strategy
 - Targets
 - Ranges
 - Encodings
 - Time frames
 - Benchmarks





How to define effective KPIs

- Need to gather business requirements
 - choosing the right KPIs relies upon a good understanding of what is important to the organization.
 - What is important' often depends on the department measuring the performance - e.g. the KPIs useful to finance will really differ from the KPIs assigned to sales.
- Identify the right number of metrics
- Select those that
 - are not in conflict with other KPIs
 - Incentivize employees to work at cross-purposes to support strategic objectives and foster proactive actions



