

Enterprise Business Intelligence

Building Meaningful Metrics and KPI's





Methodology Overview

- 1. Metrics What & Why
- 2. Metrics Categories, Attributes, et al
- 3. Methodology Assessment & Selection
- 4. Sample Ranking Matrix



Metrics – What & Why

Metrics are a set of objective measurements that quantify results.

Measurements

You can't manage what you don't measure.

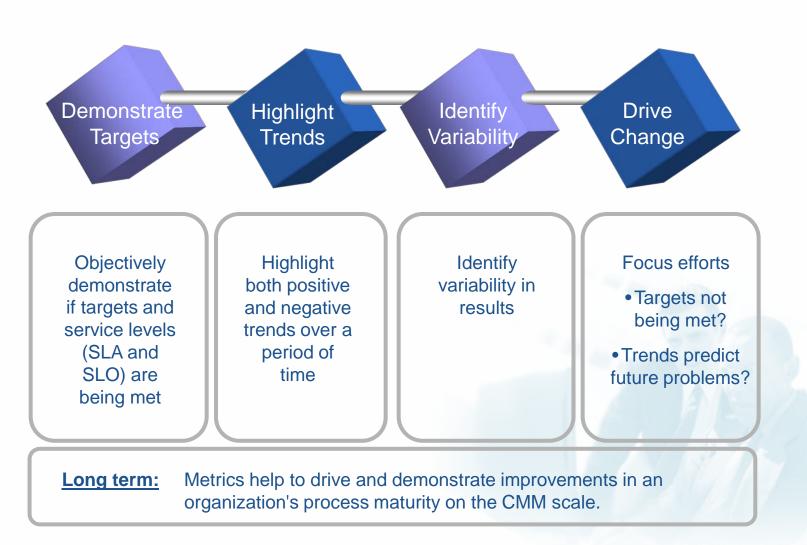
What you measure is what you get.

Activities/Results

They help illustrate an organization's progress in measurable terms.



Metrics - Objectives





Metrics – Categories

Effectiveness

Productivity

Efficiency

Doing things right with fewer errors

Measure process quality

NB "right" includes both process accuracy AND security! Doing more things

Measure <u>volume</u> of activity

Doing things at a lower cost (either in dollars or time)

Measure process efficiency



Metrics – Correlation

Strategic Goals

SLA / SLO

Selected Metric

The driving strategic goals and objectives tend to be subjective

Metrics by definition have to be objective

Selected metrics seldom are able to directly measure performance

Identify a set of objective metrics that will correlate with subjective goals

Most metrics are <u>proxies</u> based on objective measures of activity that are thought to correlate to success in the underlying goals and objectives



Metrics – Availability

Metrics need timely data in a usable format:

- identify the source of the underlying data
- rank availability on a 1-5 scale, eg:
 - available electronically in a timely fashion (including historic data)
 - available manually in a timely fashion
 - available but not timely would require modest effort to correct
 - not yet available but clearly defined could be available in near future
 - v. not yet available and no clear roadmap for near future



Methodology - Cycle

First: Identify Options

Second: Analyse & Recommend

Fifth: Review & Adjust **Assessment & Selection Cycle**

Fourth: Production Utilization Third: Build & Implement



Methodology - Options

First: Identify Options

- Start with the organization's Strategic Goals and Objectives
- Gather any existing Service Level Agreements (SLAs) or Objectives (SLOs) – review annual reporting for ideas
- Identify who the key stakeholders and customers are for each service
- Brainstorm a list of "possible" metrics with a representative team
 - Categorize by: Effectiveness, Productivity and Efficiency



Methodology - Recommend

Second: Analyse & Recommend

- Rank all possible metrics in a 3-D matrix of:
 - category
 - correlation
 - availability
- Quantify with subjective 5 point scales to distinguish options
- Consider weights for each dimension
- Select 1-3 metrics in each category for initial implementation



Methodology - Implement

Third: Build & Implement

- Document approved metrics and communicate:
 - What is being measured
 - State what will be "good" vs. "bad" values
 - How the numbers will be gathered / calculated
 - When and where will the metrics be published
- Setup reporting processes
- Publish metrics in a timely fashion



Methodology - Production



- Schedule recurring reviews of metrics and REPORT:
 - Are targets being met?
 - acknowledge good work and celebrate!
 - Are there positive or negative trends in the metrics over time?
 - praise positive trends
 - proactively identify strategies to reverse negative trends
- Survey stakeholders to determine if the metrics are working:
 - Do they "feel" (subjectively) that the objective level of success or failure in the metrics <u>actually reflects</u> similar success or failure in achieving the underlying (strategic) goals?
- Consider dropping any metric if subjective success and objective perception don't agree



Methodology - Review

Fifth: Review & Adjust

- Do NOT expect any given set of metrics to continue to drive improvement
- Once acceptable gains have been made, metric should be replaced by more relevant metrics or become "institutional" (continue to track but only report as requested)
- There should ALWAYS be 3-7 key metrics for each service area, but there may be dozens of secondary institutionalized metrics to support analysis if a problem arises

REPEAT!



Ranking Matrix – Metrics

Availability: Rank on a scale 1 = readily available to 5 = no clear data source

Correlation: Rank objective correlation

Metric 1	1	2	3	4	5
Very High					
High					
Moderate					
Low					
Indirect					



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Questions?