Using Measurement to Manage Connecting the Scorecard to Reality
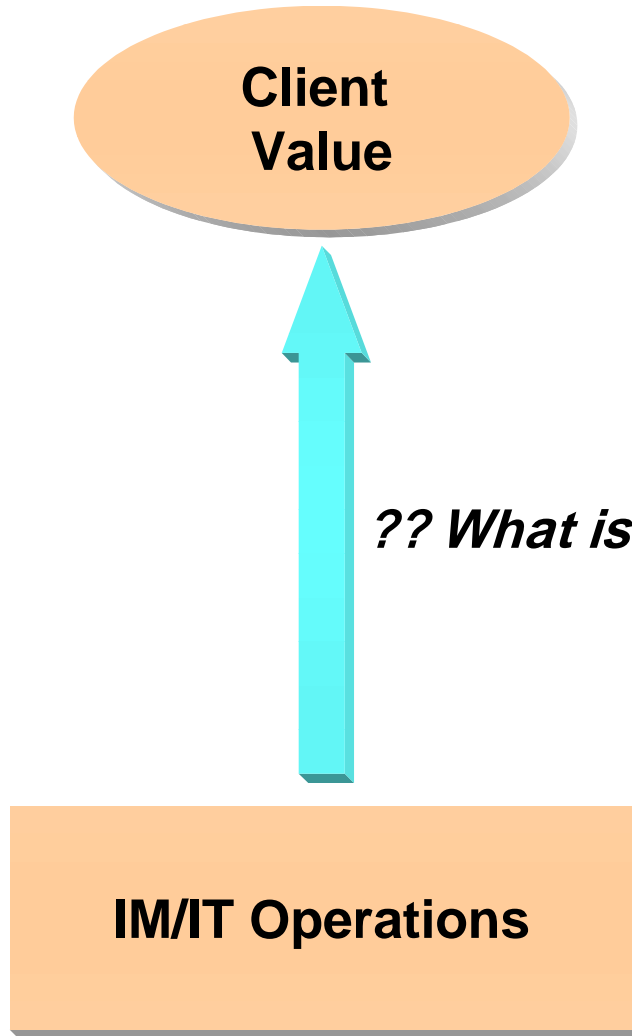
Don Oxley

TeraQuest Metrics, Inc.
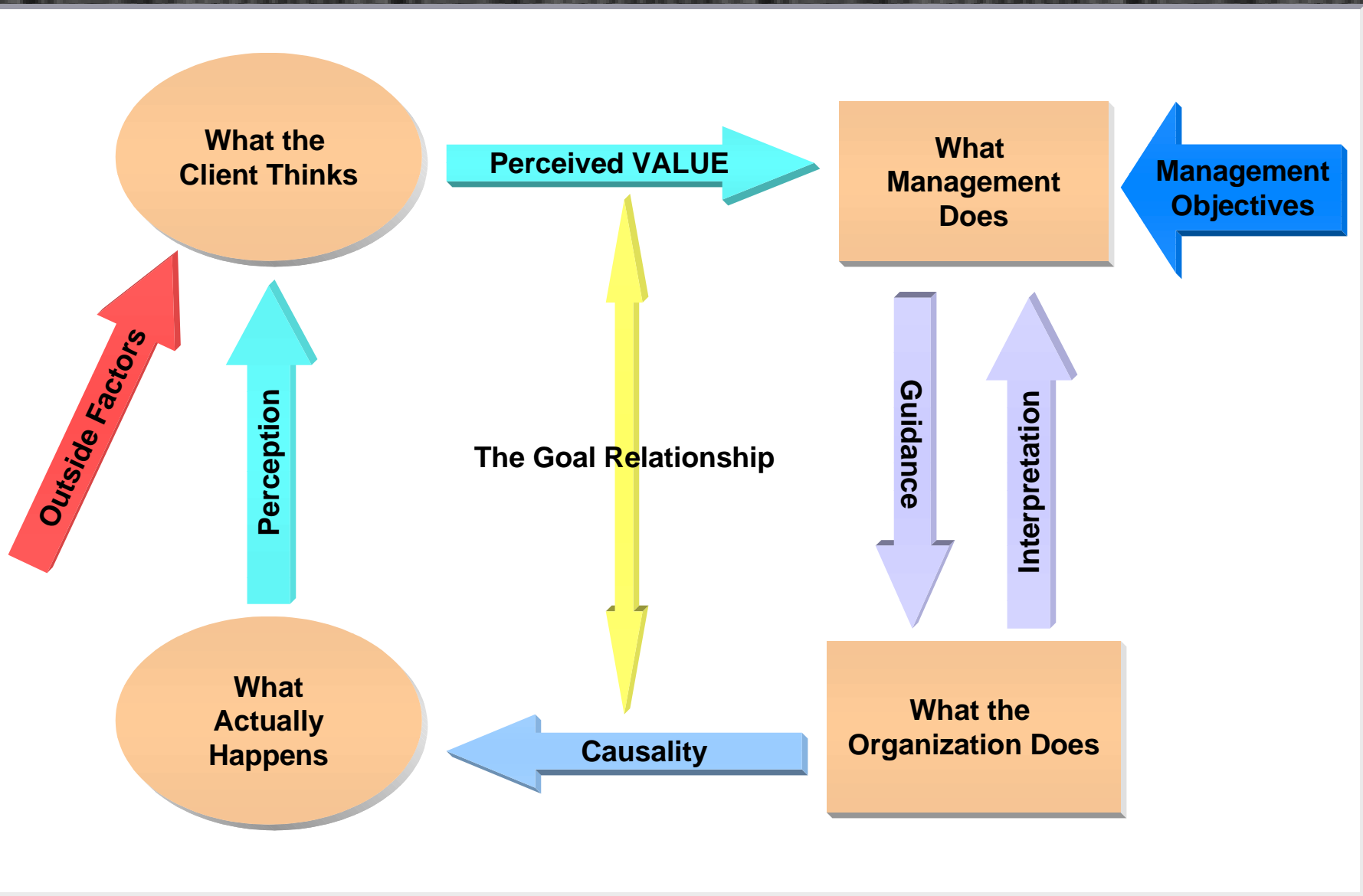
What Are We Trying to Do?

Client Value

**IM/IT Operations**

?? What is the Relationship ??

The Value System

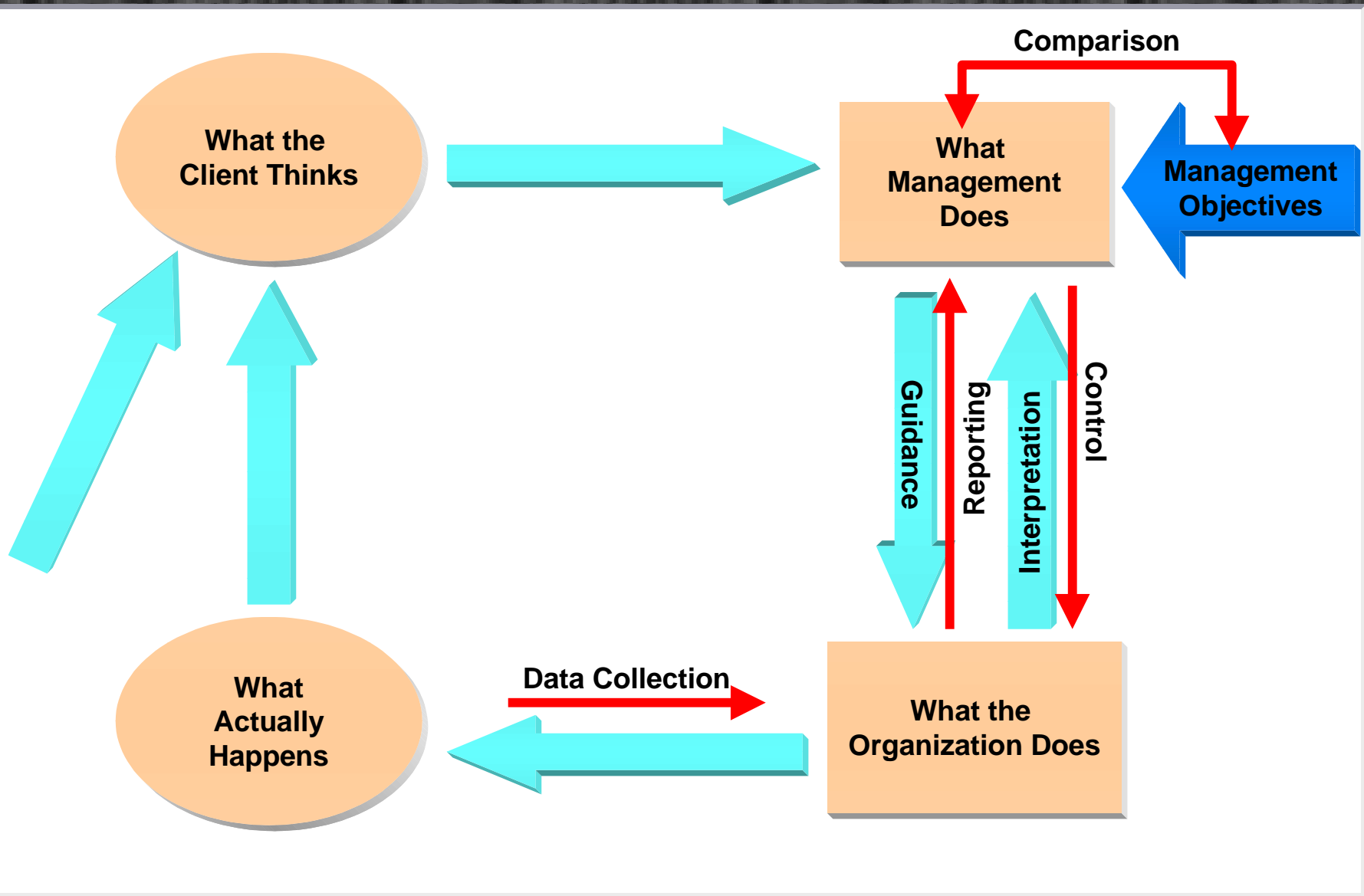**What is the relationship between organizational actions (causality) and client perceived value**

- **Not easily observable**
- **Subject to many outside influences**

What is the relationship between management direction and organizational behavior

- **Difficult, but can be done**
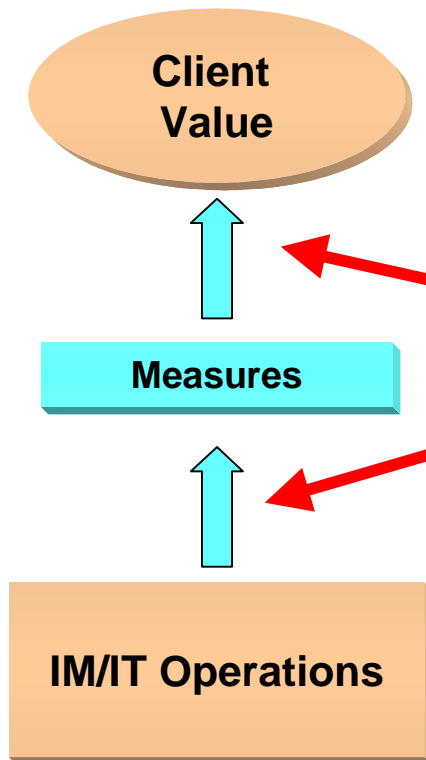- **May not influence client perception**
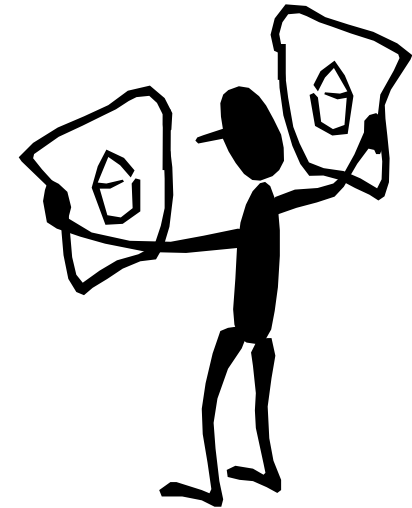
Measurement Systems

Measurement vs. Value

The measurement system can tell you what happened

The measurement system can NOT tell you whether it is worthwhile

Client Value

Measures

IM/IT Operations

We must have both an "Interpretation System" and a "Measurement System"

Determining "Value"

The basis for value

- Requires a well-formed "vision"
- Is viewed as a solution to an acknowledged problem
- The vision is not generally directly deduced from the problem, thus the solution requires "marketing"

Creating the measure

- Establish quantitative indicators that will be <u>defined</u> to represent value
- Build consensus on the definition (a <u>leadership</u> problem)
- Be prepared to make changes, within reason

Addresses a subset of the organization's problem

- Often an enabler
- Often blamed for failure
- Seldom credited for success

With well defined organizational objectives, the IM/IT objects may be meaningless
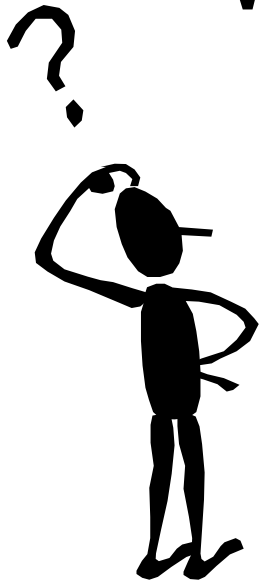
Except measures that are independent of specific objectives

- Reducing costs with same results
- Increasing efficiency with same results
- Reducing errors/improving "quality"

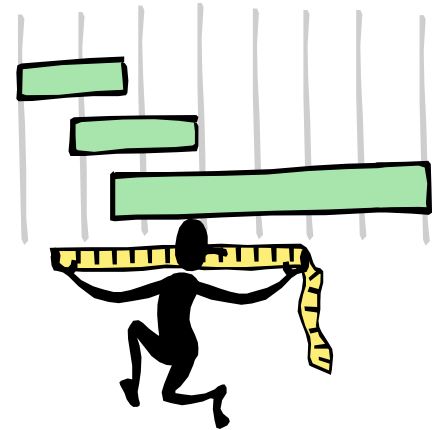Generic measures are a good place to start

**So,
Let's <u>assume</u> that we have
well-defined indicators for value**

**and
think about
how to measure them**

Objectives

The measurement process <u>requires</u>…

Balanced Scorecard

| Fin | Cust | Proc | Learn |

.. A well-defined <u>chain of reasoning</u> that relates <u>observeables</u> to <u>objectives</u>

Observeables
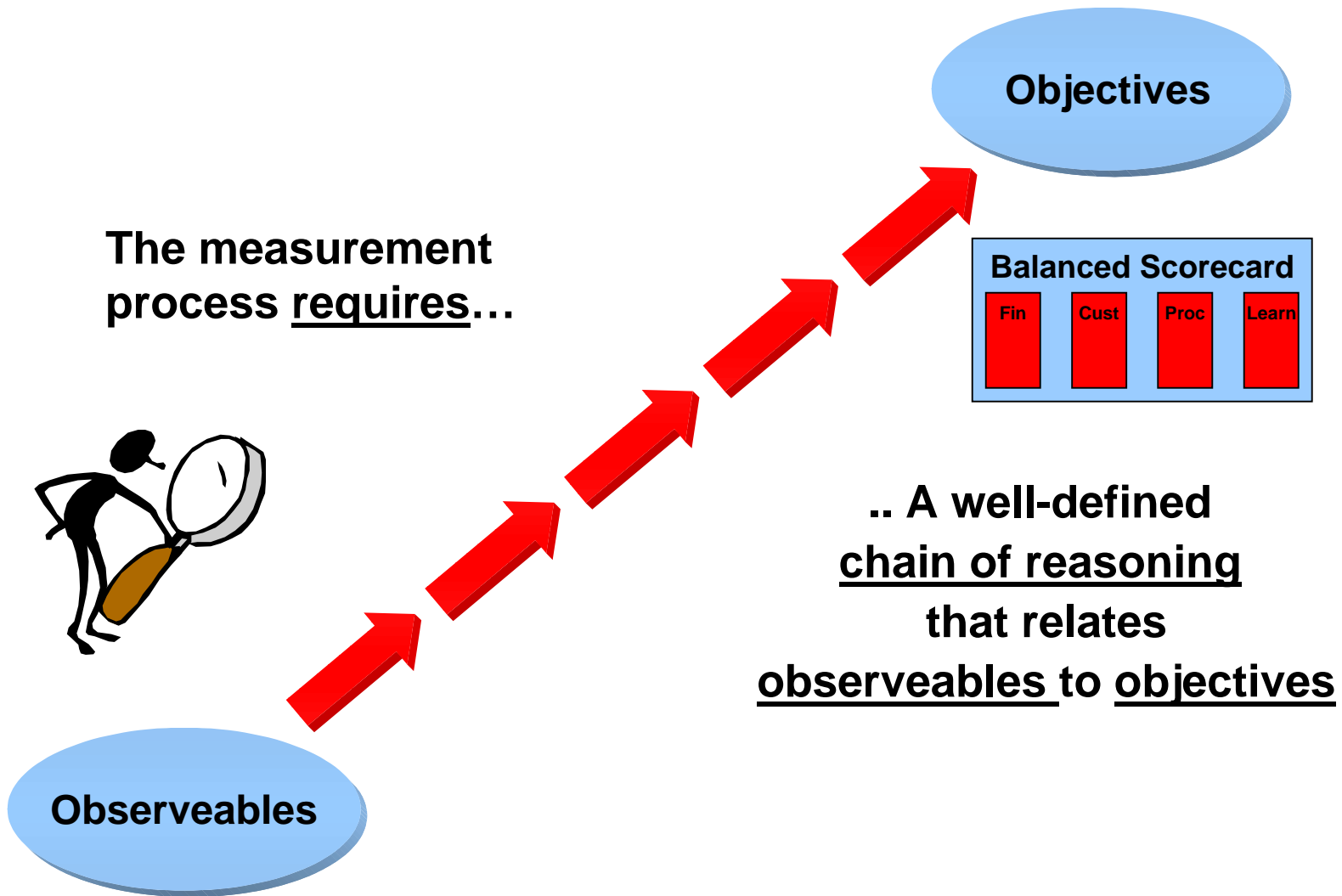
BALANCED SCORECARD
PERSPECTIVES AND OBJECTIVES

CUSTOMER
- *Customer Satisfaction*
- *Effective Service/Partnership*

FINANCIAL
- *Optimum Cost Efficiency of Purchasing Operations*

MISSION VISION STRATEGY

INTERNAL BUSINESS PROCESSES
- *Acquisition Excellence*
- *Most Effective Use of Contracting Approaches*
- *Streamlined Processes*
- *Process Control*
- *On-Time Delivery*
- *Supplier Satisfaction*
- *Socioeconomics*

LEARNING AND GROWTH
- *Access to Strategic Information*
- *Employee Satisfaction*
- *Organization Structured for Continuous Improvement*
- *Quality Workforce*

http://www.pr.doe.gov/fedbsc.ppt

DoE-2: Customer Measures

CUSTOMER PERSPECTIVE

OBJECTIVE	MEASURE	TARGET
Customer Satisfaction *Data Source: Customer Survey*	Timeliness: Extent of customer satisfaction with timeliness of procurement processing; planning activities; and on-going communications.	86%
	Quality: Extent of customer satisfaction with the quality of goods and services delivered.	89%
Effective Service/Partnership *Data Source: Customer Survey*	Extent of customer satisfaction with the responsiveness, cooperation, and level of communication with the procurement office.	89%

http://www.pr.doe.gov/fedbsc.ppt

IT Services Branch, Gov't of Ontario

CUSTOMER
- *Customer Satisfaction: Targeted Services*
- *Customer Satisfaction: general*

FINANCIAL
- *Expenditure Variance*
- *Revenue Variance*

MISSION VISION STRATEGY

INTERNAL BUSINESS PROCESSES
- *Service Levels Index*
- *Project Variance Index*

I&IT CAPACITY and INFRASTRUCTURE
- *Branch Professional Development*
- *Staff - Organisation Goal Alignment*
- *Job Satisfaction*
- *Technology Currency*

Balanced Scorecard Users

Public Sector

Canada
- **Citizenship & Immigration**
- **Public Works & Government Services**
- **Natural Resources**
- **Government of Ontario**
- **…others**

US
- **IRS**
- **NASA**
- **Veterans Benefits Administration**
- **US Post Office**
- **Dept. of Energy**
- **…others**

Private Sector

General Motors

Prudential Insurance

Kodak

Motorola

Texas Instruments

Xerox

AT&T

Sears

Johnson & Johnson

Chase Manhattan

Rockwell International

CIGNA Property & Casualty

Sun Microsystems
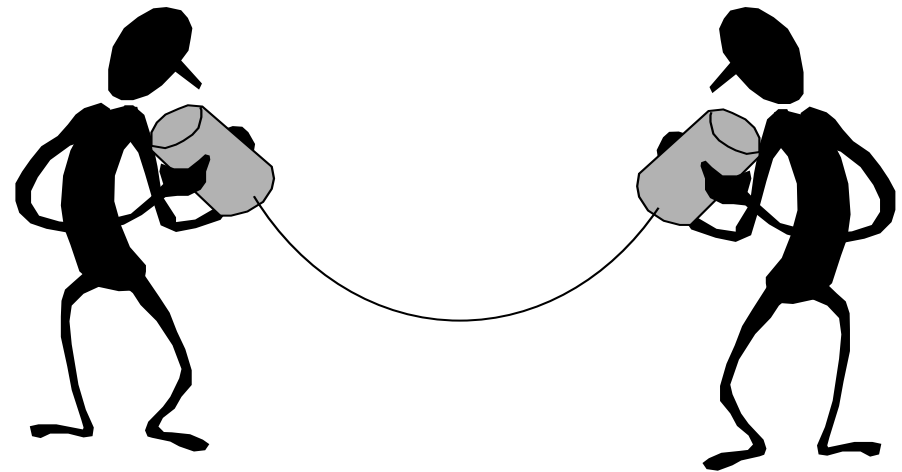
… others

What objectives management seeks

How they will be interpreted

How they will be acted upon

- **Openness in communication**
- **Missed results do not cause punitive measures**

Foundation for change initiatives

Driver for organizational change

http://www.pr.doe.gov/fedbsc.ppt

Assessing Organizational Readiness

Understanding, involvement, and commitment of senior managers

Recognition of resources necessary to design and implement performance management

Integration of performance measures with existing planning, budgeting, and evaluation processes

Support of clients and stakeholders

Recognizing and addressing organizational culture

Building the Performance Model

Understand the objectives and their interrelationships

- Cause and effect of one objective on another
- Time sequencing
- Points with high leverage
- Identify champions for key objectives

Relate (groups of) objectives to Balanced Scorecard categories

Identify those objectives appropriate for IM/IT as starting point for IM/IT Balanced Scorecard

- Commercial lessons are often more directly relevant at this level

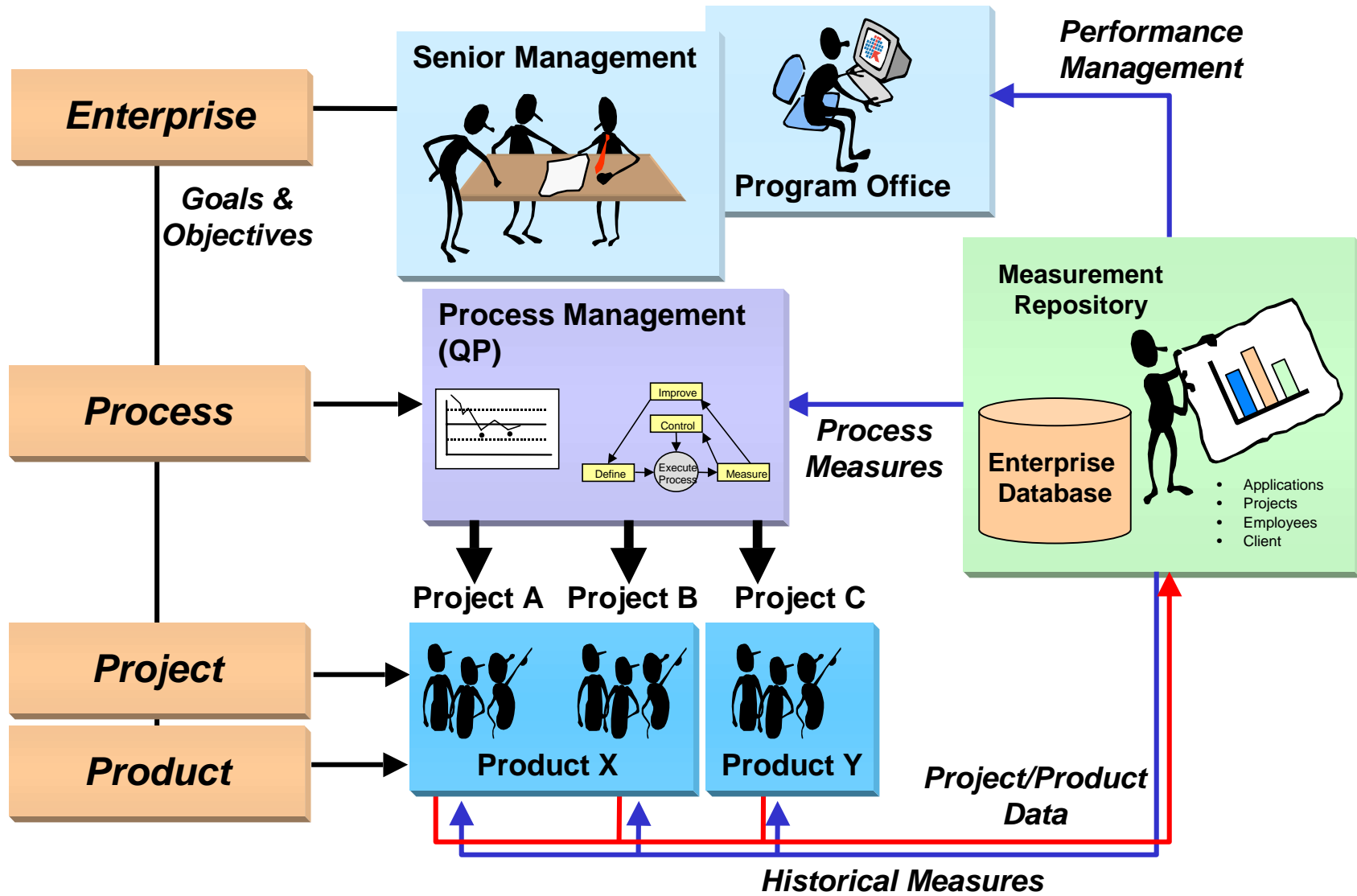# Scorecard Failures

The metrics are poorly defined

Baseline performance is missing

Improvement targets are arbitrarily fixed by management rather than based on client or stakeholder requirements

The rate of change assumed is far faster than is possible

Too much focus on high level goals rather than processes required to achieve those goals
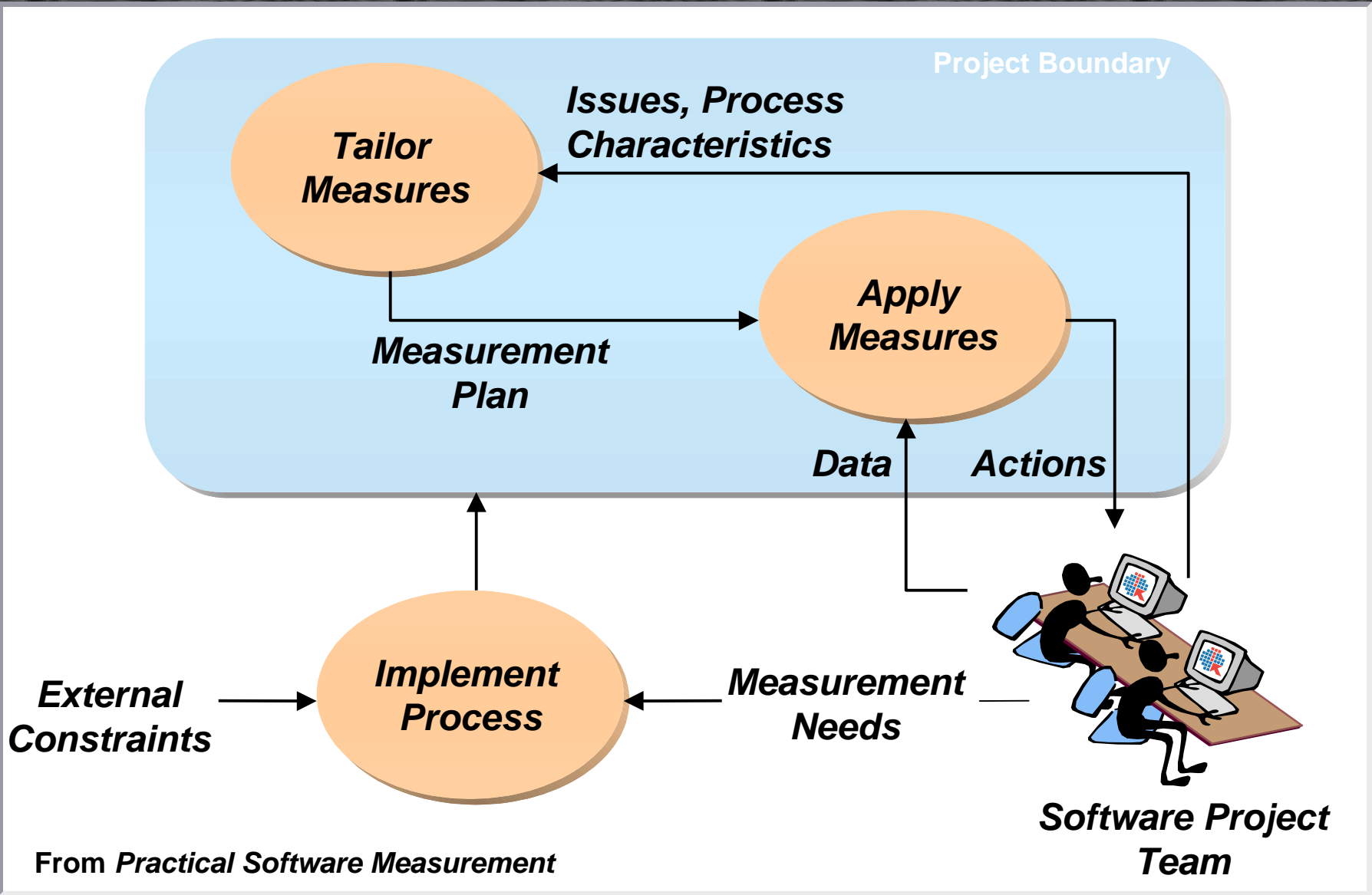
Layers of Measurement

From consulting report to Canadian Gov't organization

Project Measurement Process

Project Boundary

Tailor Measures

Issues, Process Characteristics

Apply Measures

Measurement Plan

Implement Process

Data   *Actions*

External Constraints

Measurement Needs

*Software Project Team*

From *Practical Software Measurement*

Determining the strategic objectives

- Is an *executive task*
- *Precedes* establishment of a measurement program

There are existing foundations for establishing the linkage between project behavior and management objectives

- The *Balanced Scorecard* to represent the progress to objectives
- Measurement frameworks such as *Practical Software Measurement*
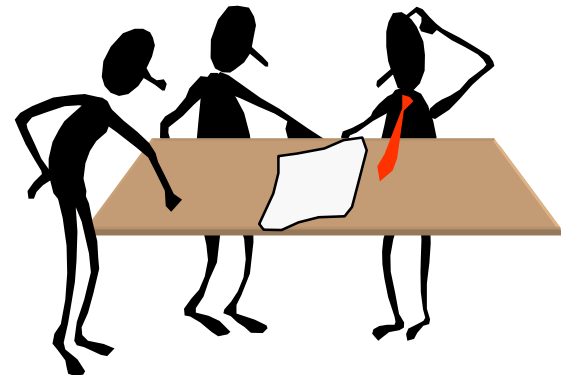
There are useful "universal objectives"

- Good for getting started
  - quality
  - productivity
  - cost effectiveness
- These still require formulation into useful objectives
- They do not replace the need for organizational measures

Adopting a measurement program

- Is partially a technical problem
- Is *mostly* a cultural problem
- Takes time and a continuous focus