

Creating and Working Within a Culture of Evidence OR Making Decisions Using A Culture Of Evidence Rather Than A Culture Of Anecdote

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What Is A “Culture Of Evidence?”

- ❖ A culture wherein indicators of performance are regularly developed and data collected to inform decision-making, planning, and improvement.
- ❖ A culture wherein individual and institutional reflection and action are typically prompted and supported by data about:
 - Student persistence
 - Student learning
 - Institutional performance

What Do We Mean By “Evidence”?

- ❖ It is comprised of data, information, and knowledge.
- ❖ It can be quantitative, qualitative, or both
- ❖ It can be both direct and indirect
- ❖ It supports a claim, answers a question, leads to knowledge (a.k.a. “learning”)
- ❖ It stimulates analysis, interpretation
- ❖ It’s an occasion for communication, process
- ❖ It suggests actions

Characteristics Of “Good” (i.e. Effective) Evidence

It is:

- ❖ Relevant – it reflects the underlying concept of interest
- ❖ Verifiable – it is documentable and replicable
- ❖ Representative – it is typical of the underlying situation or condition
- ❖ Cumulative – it is obtained from multiple sources using multiple methods
- ❖ Actionable – it provides guidance for action and improvement

Components Of A Culture Of Evidence

- ❖ Student cohort tracking
- ❖ Systematic collection, analysis, and reporting of key data on student progress, learning, and success
- ❖ Institutional research and information systems
- ❖ Support for rigorous examination and open discussion of institutional performance

Components Of A Culture Of Evidence (cont’d.)

- ❖ Routine disaggregation and reporting of data by age, race/ethnicity, gender, and income level
- ❖ Regular assessment of educational practices “behind the outcomes.”
- ❖ Systematic program review/evaluation
- ❖ Routine use of data and information to inform institutional decisions (e.g., priority-setting, planning, resource allocation, professional development, improvements in programs and services for students)

Pitfalls To Avoid

- ❖ “Data Lust”
 - You can’t measure everything
 - The best evidence is selective-guided by institutional priorities and strategic goals
- ❖ “The Perfect Data Fallacy”
 - Data and evidence in higher education are, by their nature, imprecise
 - We must employ multiple methodologies and sources
- ❖ “Stopping Too Soon”
 - The processes involved in a culture of evidence are never really completed
 - Deploying a culture of evidence is a continuous, ongoing, iterative process

What A Culture Of Evidence Won't Do

- ❖ Prescribe exactly what needs to be done
 - It only suggests directions/actions
 - Specific institutional action must be arrived at through reflection and analysis of evidence
- ❖ Actually get anything accomplished
 - Evidence must be acted on
 - In and of itself, evidence cannot “do” anything in terms of institutional action and improvement

The Foundation Of An Effective Culture of Evidence:

An Institutional Effectiveness Plan/Model

Major Components

1. Mandatory Entry-level Assessment & Placement (www.act.org)
2. Needs Assessments for Proposed New Programs
 - a. Potential employers
 - b. Potential students
3. Former Student Follow-up
 - a. Transfer students and their subsequent academic progress and performance
 - b. Career program completers
 - c. “Leavers”

Major Components (cont'd.)

4. Employer Follow-up
5. Assessment of Student Learning Outcomes
 - a. General education
 - b. Disciplinary competencies/outcomes
6. Systematic Program Review/Evaluation
 - a. All academic programs
 - b. Continuing education/community services
 - c. Student, auxiliary, and administrative support services/offices

Major Components (cont'd.)

7. Assessment of Developmental Programs and Courses
 - a. Student success in developmental courses
 - b. Completion of the developmental sequence
 - c. Developmental students’ success in first college-level course
8. Annual/Biennial Client/User Evaluation Surveys
 - a. Library/open labs/resource centers
 - b. Student services
 - c. Auxiliary services

Major Components (cont'd.)

9. Student Evaluation of Instructors/
Counselor/Advisors (www.idea.ksu.edu)
 - a. Credit
 - b. Continuing education/community services/
business & industry & contract training
10. Periodic Assessment of Campus
Climate/Faculty & Staff Morale
(www.ced.ncsu.edu/ahe/nilie)

Major Components (cont'd.)

11. Periodic Assessment of Community
Image/Satisfaction with the College
12. Assessment of Student Satisfaction/
Engagement (www.act.org;
www.noellevitz.com; www.ccsse.org)
13. Periodic Assessment of Area
Business and Industry Training
Needs
14. Benchmarking

Dashboards in Higher Education: Graphic Representation of Key Performance Indicators

What is a Dashboard

- ❖ A brief document that graphically displays critical institutional information in a succinct, easily understood, visually appealing format
- ❖ A tool to communicate the current health of the organization and its progress toward its strategic objectives

Purposes of Dashboards

- ❖ To communicate current information about major indices of organizational performance to primary stakeholders
- ❖ To provide information to assist in evaluation of organizational performance
- ❖ To provide a comprehensive analysis of the organization's achievement of its strategic objectives
- ❖ To provide information about organizational performance compared to appropriate benchmarks

Why Do We Need Dashboards?

- ❖ Institutional leadership has a responsibility to be accountable to both internal and external stakeholders
- ❖ Stakeholders want/need accurate, concise, easy-to-understand, up-to-date data & information about organizational performance
- ❖ Traditional communication sources in higher ed. (e.g., annual reports) are usually obsolete by the time they reach stakeholders and typically fail to provide necessary/sufficient detail about organizational performance

Components of Dashboards

- ❖ A limited set of measures—usually referred to as **“Key Performance Indicators” (or KPIs)**
- ❖ An integrated data structure for that set of measures
- ❖ A source of comparative benchmarks for the measures
- ❖ Graphics for displaying the measures

Characteristics of an Effective Dashboard

- ❖ Operationally focused—tied to the institution’s mission and strategic plan
- ❖ Timely
- ❖ Accurate
- ❖ Easy to understand
- ❖ Represents the current state of the organization
- ❖ Provides a straightforward summary of organizational performance

KPIs — What Are They?

Data elements that :

- Measure core inputs, outputs, and outcomes
- Reflect the institution’s strategic plan and core business
- Measure high priority operations of the institution
- Measure institutional characteristics that are important and meaningful to stakeholders
- Measure institutional performance in areas in which it must be successful to survive and be competitive

Examples of KPIs

- ❖ Enrollment
 - Fall headcount enrollment
 - Percent of area high school grads enrolling subsequent fall
- ❖ Student progress
 - Fall-to-fall persistence
 - Term-to-term persistence
- ❖ Student success
 - Graduation rate
 - Transfer rate
 - Workforce placement rate

Identification of KPIs—Who’s involved

- Effort usually led by a Dashboard Development Team
 - Representative of senior leadership
 - Representative of IR
 - Representatives of key constituencies
- Team solicits input from affected work groups and administrators
- Senior leadership (president’s cabinet?) makes final determination of which measures are included in the dashboard

How KPIs are Identified

- ❖ They are an outgrowth of strategic planning
 - Important and meaningful to stakeholders
 - Viewed as important to the organization
 - Linked to strategic plan and organizational priorities
 - Help determine the extent to which the organization is progressing toward its stated goals
- ❖ Team can begin with a large number of potential KPIs and then whittle down to the vital few—no more than 15-20

Context for KPIs: Benchmarks & Target Values

- ❖ Process also requires establishing benchmarks and target values
 - Benchmarks
 - ✔ What are reasonable values for measures
 - Upper and lower limits
 - What is "good" and "bad" for a given measure
 - Targets
 - ✔ How do we know where we want to be?
 - ✔ Based on both benchmarks and past performance
 - ✔ Must be reasonable and achievable
 - Can (should?) be "stretch objectives"

A KPI in Detail

Performance Indicator (PI 22): Transfer Rate

Definition: The percent of Fall, transfer-intent, first-time SCC enrolled students who also enter a degree program at a four-year institution within three years (9 terms).

How the PI is measured: To be eligible for the cohort, students had to have the following characteristics:

1. Were enrolled at SCC for the first time in a Fall cohort term.
2. Were 18-22 years old.
3. Were enrolled full time in a Fall cohort term (i.e., taking 12 or more hours).
4. Cumulated at least 12 SCC credit hours three years after their first Fall cohort term at SCC.
5. Specified a transfer intent on their SCC application.

Source:

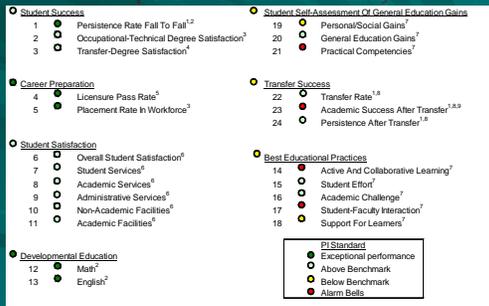
- National Student Loan Clearing House data
- STACS

PI Standard:

- Exceeding Expectation: > 60%
- Meeting Expectation: 50% - 60%
- Needs Improvement: 40% to 49.9%
- Alarm Bells: <40%

Dashboard Examples – St. Charles Community College

SCC PI Report: Executive Dashboard Summary



Dashboards – Strengths

- ❖ Relatively straightforward way to monitor current institutional performance
- ❖ Provide metrics on KPIs that represent core institutional goals, issues, and operations
- ❖ Easy to understand
- ❖ Engaging presentation format to communicate important information
- ❖ Can be used at all levels of the institution

Dashboards – Challenges

- Design and implementation require a comprehensive understanding of complex data definitions, sources, appropriate analyses, and sources of appropriate benchmarks
- Don't provide an in-depth understanding of underlying data that drive the KPIs
 - Limited in scope and somewhat simplistic
 - Lack of detail makes it difficult to understand the "whys" of institutional performance
- Provide no information regarding what should be done—no guidance for institutional action
- To be optimally effective need to be supported by formal underlying data structure with drill-down capabilities—a balanced scorecard

Questions

