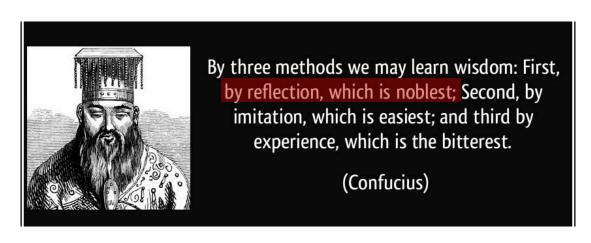
Quality Assurance: Validating Realistic Self Assessment Through External Evaluation

Douglas S. Franklin, Ph.D. Emeritus Assistant Dean



Introduction

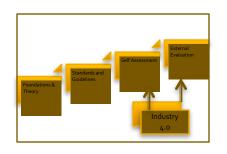
- What theories undergird quality assurance efforts?
- What is self-assessment and reflective practice and how might they influence organizational quality?
- How does external evaluation validate organizational self reflection?
- What Industry 4.0 tools support quality improvement and the assessment and evaluation processes.

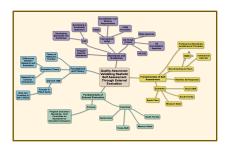




Introduction

- Process
- Mind-mapping
- Delivery
- Summary & Recommendations







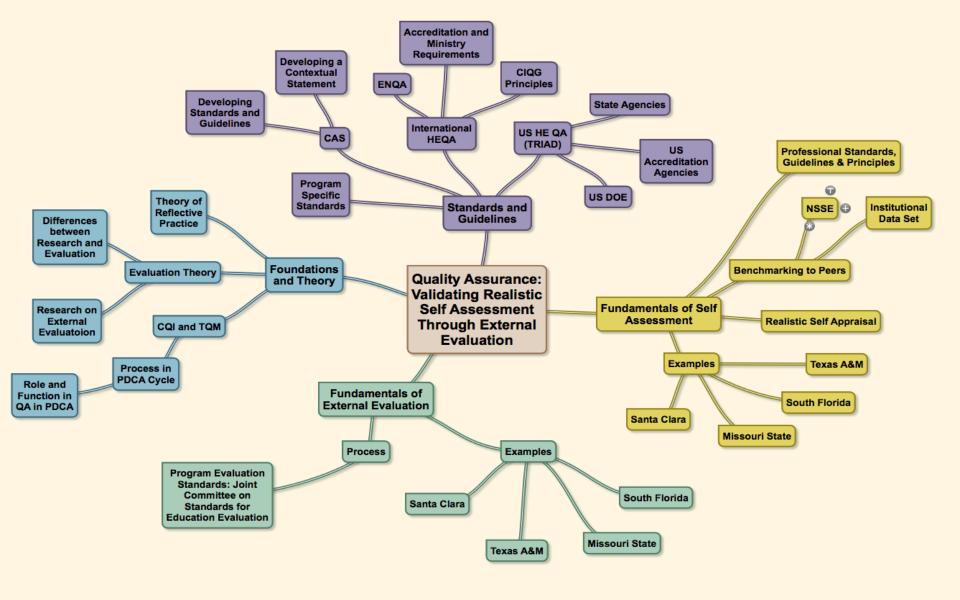




Quality Assurance: Validating Realistic Self Assessment Through External Evaluation





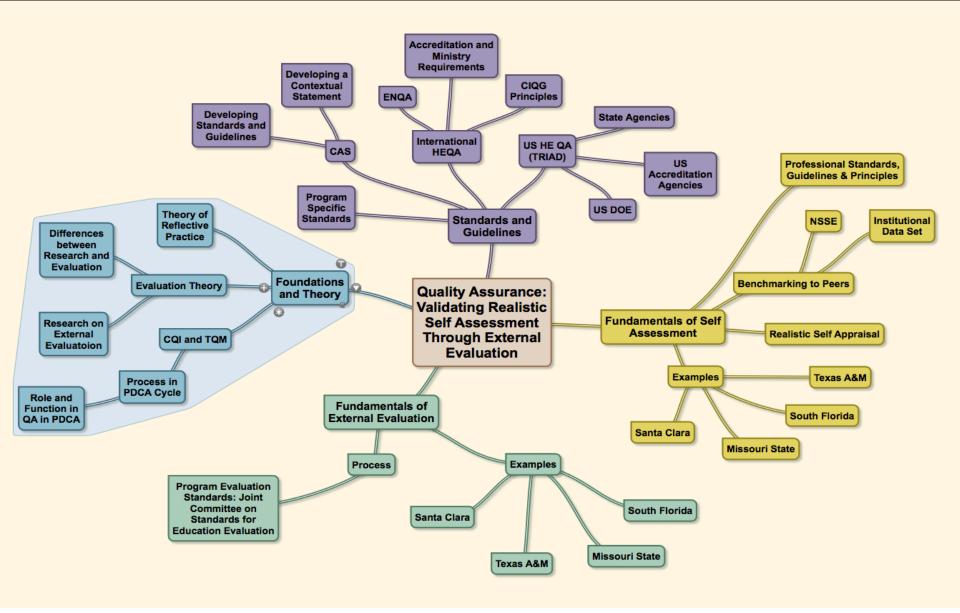




Quality Assurance: Validating Realistic Self Assessment Through External Evaluation









Quality Defined

- American Society for Quality
 - "the planned and systematic activities implemented in a quality system so that quality requirements for a product or service will be fulfilled"



American Society of Quality (ASQ)

"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many alternatives." William A. Foster

Source: http://asq.org/learn-about-quality/quality-assurance-quality-control/overview/overview.html



Quality Assurance

UNESCO

 the systematic review of educational programs to ensure that acceptable standards of education, scholarship and infrastructure are being maintained.



"Quality is not an act, it is a habit. Aristotle



Quality Assurance

ENQA

"a term imported into higher education from the world of business (and predominantly from the sector of manufacturing) as is the related term 'quality control'. In France 'quality management' has been used often in place of 'quality assurance' in the translation of the ESG, with the intention of instilling a sense of responsibility to the academics to manage quality for themselves."

"The term 'quality assurance' is ...to describe all activities within the continuous improvement cycle (i.e. assurance and enhancement activities)." ENQA 2015

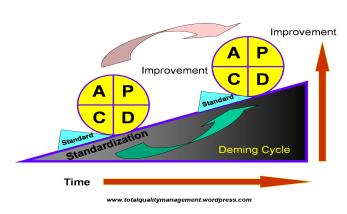


Crozier, F., Curvale, B., Dearlove, R., Helle, E. & Henard, F. (2006) ENQA Operational Papers 12: Terminology of quality assurance: toward shared European Values?



General Concepts of Quality Management

- Approach to quality management that builds upon traditional quality assurance methods by emphasizing the organization and systems that focuses on:
 - Process" rather than the individual;
 - Recognizes both internal and external "customers";
 - Promotes the need for objective data to analyze & improve processes.



Deming, W.E. (1992) Out of the Crisis

https://www.fpm.iastate.edu/worldclass/cqi.asp



"It is not enough to just do your best or work hard. You must know what to work on."- W. Edwards Deming



Assessment Defined

"the gathering of information concerning the functioning of students, staff and institutions of higher education. The information may or may not be in numerical form, but the basics motive for gathering it is to improve the functioning of the institution and its people."



Assessment

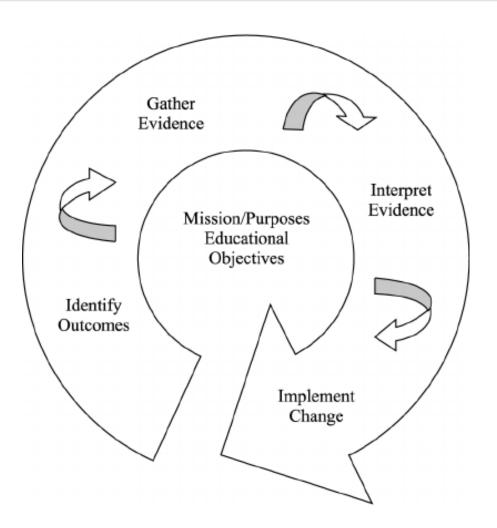


"...any effort to gather, analyze, and interpret evidence which describes institutional, departmental, divisional, or agency effectiveness."

Upcraft, M.L & Schuh, J.H. (1996). Assessment in Student Affairs: A Guide for Practitioners



Maki Assessment Cycle

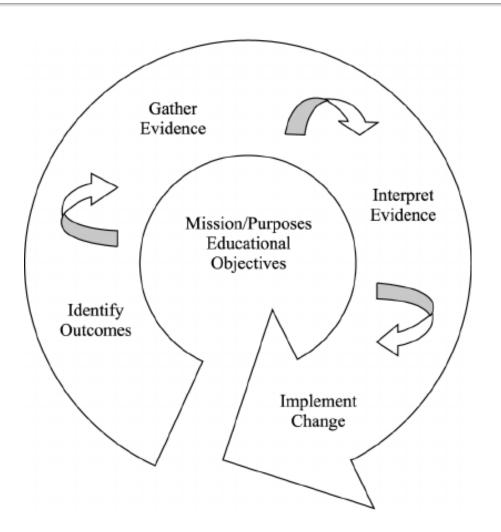


- "Assessment Is"
 - Evidence driven relying on multiple measures
 - Formative rather than simply summative
 - Focused on outcomes
 - A complex process of comparison
 - Always a process of reasoning from evidence
 - Always, to some degree, imprecise



From NACADA The Assessment Process in Academic Advising: An Overview http://slideplayer.com/slide/3734281/

Maki Assessment Cycle



- "Assessment Is NOT"
 - Episodic
 - Just about measurement
 - About performance
 - Solely an administrative process
 - Easy or quick



From NACADA The Assessment Process in Academic Advising: An Overview http://slideplayer.com/slide/3734281/

Self Assessment

 "questions of accountability, cost, quality, access, equity, and accreditation combine to make assessment a necessity in higher education."

"Accountability breeds response-ability." Stephen Covey

https://www.brainyquote.com/quotes/quotes/s/step hencov636497.html?src=t_accountability

accountability

The obligation of an individual or organization to account for its activities, accept responsibility for them, and to ...





Self Assessment

- Why self assessment:
 - Establish a culture of realistic self appraisal and quality;
 - Determine the extent to which the organization/department/unit personnel perceive achieving the organization's designed purpose;
 - Identifying evidence to support achievement of purpose and alignment with industry standards

"We don't learn by doing, we learn by reflecting on what we've done."

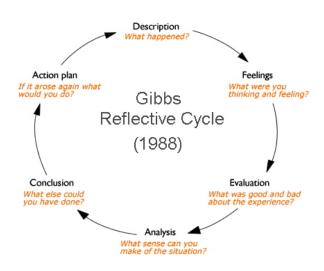
Author Unknown

https://ocmbocesis.wordpress.com/2016/04/26/a-time-for-reflection-wedont-learn-by-doing-we-learn-by-reflecting-on-what-weve-done/



Self Assessment: Theory of Reflective Practice

- Reflective practice is:
 - Capacity to reflect on action to engage in continuous learning (Schon 1983:102-104)
 - Paying critical attention to practical values and theories which inform everyday actions, by examining practice life/work experiences reflectively and reflexively."



"We don't learn by doing, we learn by reflecting on what we've done." Author Unknown



http://www.businessballs.com/reflective-practice.htm

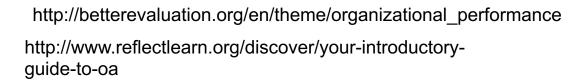
Organizational Assessment

 Systematic process for obtaining valid information about the performance of an organization and the factors that affect performance.

 Conducted in order to demonstrate areas of competence, areas for improvement, and possible

risks, help support investment and restructuring decisions.







Assessing Quality in Higher Education

Virtually everyone who has thought carefully about the question of assessing quality in higher education agrees that ?"value added?" is the only valid approach. ...(or) what is improved about students' capabilities or knowledge as a consequence of their education at a particular college or university.

"Price is what you pay. Value is what you get." Warren Buffett





Advantages of Self-Assessment

- Self assessment;
 - Provides recognition and rewards;
 - Is internally driven;
 - Is staff developed;
 - Creates shared vision;
 - Requires self awareness.

"The first principle is that you must not fool yourself - and you are the easiest person to fool." Richard Feynman US educator & physicist (1918 - 1988)





Evaluation Theory (Models)

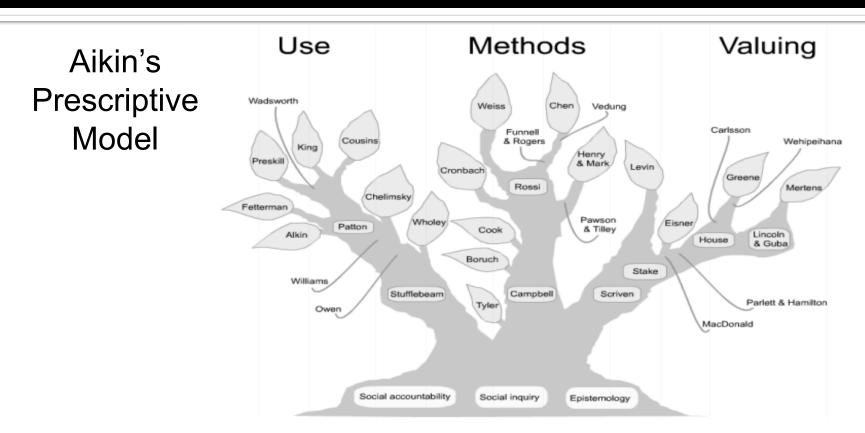


Figure 1. Evaluation Theory Tree

Source: Alkin, M. C. (2012). Evaluation roots (2nd ed.). Thousand Oaks, CA: Sage.

"set of rules, prescriptions, prohibitions, & guiding frameworks that specify what a good or proper evaluation is and how evaluation should be done" (e.g., empowerment evaluation, Roots, p. 4)

Program Evaluation Defined

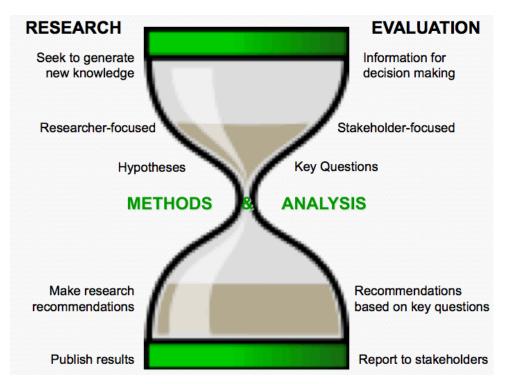
 Defined: The systematic investigation of the worth or merit of an object. (The Joint Committee on Standards for Educational Evaluation, 1994)





Differences in Evaluation and Research

- Purpose: Seek difference ends
 - Research: Add knowledge to the field and theory growth
 - Evaluation: Help stakeholders in decision making



Page 6 of Program Evaluation: Alternative Approaches and Practical Guidelines Fitzpatrick, Sanders, Worthen (2004)

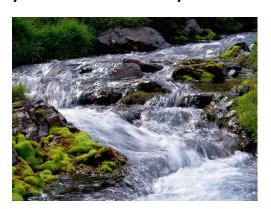


System

- Set of detailed methods, procedures and routines created to carry out a specific activity, perform a duty, or solve a problem.
 - Organized, purposeful structure that consists of interrelated and interdependent elements that continually influence one another (directly or indirectly) ...



"94% of problems are systems driven and only 6% are people driven"



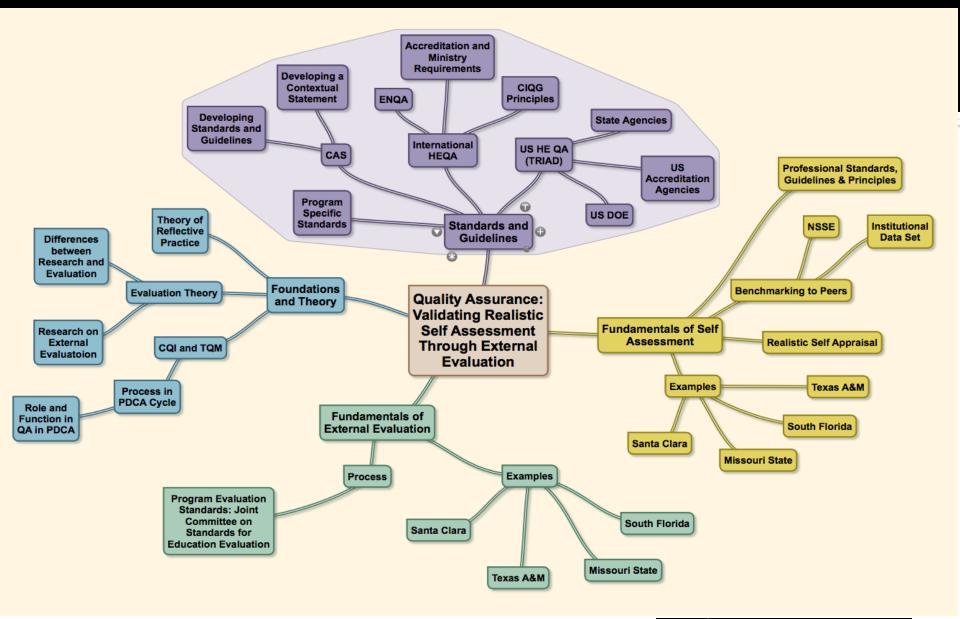




Quality Assurance: Validating Realistic Self Assessment Through External Evaluation









Standards and Guidelines

- US Accrediting Agencies and the Triad
- European Association for Quality Assurance in Higher Education (ENQA)
- Council for Higher Education Accreditation (CHEA)
 - International Quality Principles
- Council for the Advancement of Standards in Higher Education (CAS)
- Program Evaluation Standards (Joint Committee)







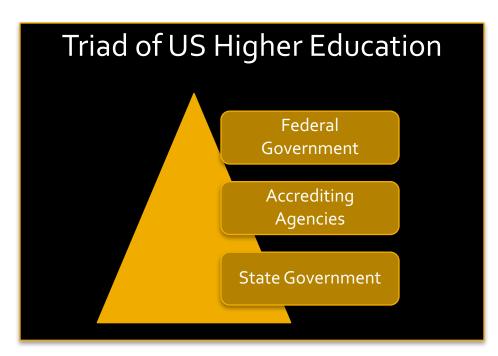




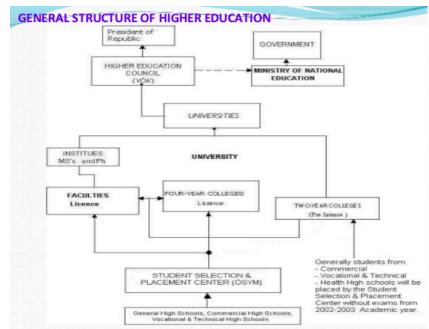


Differentiation Between US and International HE External Evaluation.

Decentralized verse Centralized Quality in Higher Education



Innovations in Accountability and Higher Education Accreditation. Porter, S. (2014) http://www.slideshare.net/kilgore5454/thesis-innovations-in-accountability-and-higher-education-accreditation-a-libertarian-paternalism-policy-proposal



Education in Turkey. Erdogmus, Y. (2014) http://www.slideshare.net/SuperSeyoo/education-system-in-turkey-1



US HE Quality Assurance

- Quality Assurance:
 - Accreditors
 - Agencies
 - Advocates
 - Applications

Quality Approaches in Higher Education Connecting Quality and Higher Education









US dept of Education

Regional Accreditation agencies

Middle States
New England
North Central
Northwest
Southern
Western

National Accreditation Agencies

ABET
ACS
ABA
LCME
AAMC
ABT-CAC











US Regional Accrediting Agencies

- Middle States Commission on Higher Education
- North Central Association of Colleges and Schools
- 3. New England Association of Schools and Colleges
- 4. Northwest Commission on Colleges and Universities
- 5. Southern Association of Colleges and Schools
- 6. Western Association of Schools and Colleges



"Self-regulation through accreditation embodies a traditional U.S. philosophy that a free people can and ought to govern themselves through a representative, flexible, and responsive system."

Source: Southern Association of Colleges and Schools, 2011



Underlying Principles of Accreditation

- HEIs have primary responsibility for academic quality; colleges and universities are the leaders and the key sources of authority in academic matters.
- Institutional mission drives academic quality.
- Institutional autonomy is essential to sustaining & enhancing academic quality.

"In the United States, accreditation is carried out by private, nonprofit organizations designed for this specific purpose."

Source: Eaton, J. (2012) An Overview of U.S. Accreditation, CHEA, p. 3



Underlying Principles of Accreditation

- Academic freedom flourishes in an environment of academic leadership of institutions.
- Higher education enterprise and our society thrive on decentralization and diversity of institutional purpose and mission.
- Process (intentionality) leads to status.

"Accreditation...is a means to assure and improve higher education quality, assisting institutions and programs using a set of standards developed by peers."

Source: The Value of Accreditation. CHEA, 2010 pg. 3.





CHEA International Quality Group (CIQG)

- Forum for colleges, universities, accrediting and quality assurance organizations and others worldwide to address issues and challenges focused on quality and quality assurance in an international setting. Provides service designed to:
 - Assist institutions and organizations in further enhancing capacity for academic quality
 - Advance understanding of international quality assurance
 - Provide research and policy direction



http://www.cheainternational.org/







1. Quality and higher education

providers: Assuring and achieving

quality in higher education is the

primary responsibility of higher

education providers and their staff.

CHEA INTERNATIONAL QUALITY GROUP INTERNATIONAL QUALITY PRINCIPLES

(May 2015)

Context

The growing international activity within higher education – greater student mobility, expanding faculty exchanges and research collaboration, more cross-border partnerships among institutions and the growing reliance on online or Web-based education – has created a sense of urgency for a shared understanding of educational quality. While any single worldwide regimen of educational quality would be difficult and perhaps undesirable, a shared understanding about the dimensions of quality would be useful. These guiding principles are one effort to move toward such understanding while acknowledging and respecting the many differences of history, culture, beliefs and values that shape our systems of higher education and our perspectives on quality.

Purpose

The guiding principles are intended to serve as a framework for international deliberation about quality in higher education. Their aim is to seek common ground and establish a foundation for understanding quality. The principles may be used to inform discussions of quality, quality assurance and qualifications at the country, regional or international level. The intended audiences include academics and other higher education professionals, students, employers, government officials and the public. They are invited to affirm and use these principles in the ongoing quest for effectiveness and quality in higher education.

Principles

- Quality and higher education providers: Assuri primary responses aducation prov
- Quality and students: The learning outcomes pursued.
- Quality and society: The quality of higher education of society, engenders public confidence and su
- Quality and government: Governments have a education.
- Quality and accountability: It is the responsibili and accreditation bodies to sustain a strong co of quality.
- 6. Quality and the role of quality assurance and a bodies, working with higher education providers and their readership, starr and stadents, are responsible for the implementation of processes, tools, benchmarks and measures of learning outcomes that help to create a shared understanding of quality.
- Quality and change: Quality higher education needs to be flexible, creative and innovative; developing
 and evolving to meet students' needs, to justify the confidence of society and to maintain diversity.









2. Quality and students: The

education provided to students

must always be of high quality

whatever the learning outcomes

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Quality and change: Quality higher education needs to be flexible, creative and innovative; developing
and evolving to meet students' needs, to justify the confidence of society and to maintain diversity.



Understanding of Quality

Edited by Stamenka Uvalić-Trumbić









3. Quality and society: The quality of

higher education provision is judged

by how well it meets the needs of

confidence and sustains public

society, engenders public

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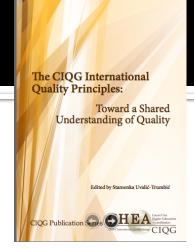
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- Quality and students: The education pro learning outcomes pursued.
- Quality and society: The quality of higher of society, engenders public confidence.
- 4. Ouelli education.

4. Quality and government:
Governments have a role in
encouraging and supporting quality
higher education.

- Quality and accountability: It is the response and accreditation bodies to sustain a strong commitment to accountability and provide regular evidence of quality.
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- 4. Quality and government: Governments have education.
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5. Quality and accountability: It is the responsibility of higher education providers and quality assurance and accreditation bodies to sustain a strong commitment to accountability and provide regular evidence of quality.



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The CIOG International

Toward a Shared Understanding of Quality

Edited by Stamenka Uvalić-Trumbi

Quality Principles:





CHEA INTERNATIONAL QUALITY GROUP INTERNATIONAL QUALITY PRINCIPLES

(May 2015)

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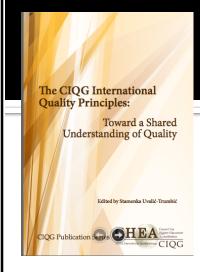
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Standards and Guidelines for Quality Assurance in European Higher Education (ESG)

- ESG are based on the following four principles for quality assurance in the EHEA:
 - Higher education institutions have primary responsibility for the quality of their provision and its assurance;
 - QA responds to the diversity of higher education systems, institutions, programmes and students;
 - QA supports the development of a quality culture;
 - QA takes into account the needs and expectations of students, all other stakeholders and society.



ESG standards and guidelines are for internal and external quality assurance in higher education...not standards for quality, nor a prescription for how QA processes are implemented. They provide guidance, covering areas vital for successful quality provision and learning environments in higher education. (pg. 6).

http://www.eua.be/Libraries/quality-assurance/esg_2015.pdf?sfvrsn=0



Council for the Advancement of Standards in Higher Education (CAS)

CAS Parts

- 1. Mission
- 2. Program
- Organization & Leadership
- 4. Human Resources
- 5. Ethics
- 6. Law, Policy & Governance
- 7. Diversity, Equity, & Access
- 8. Internal and External Relations
- 9. Financial Resources
- 10.Technology
- 11. Facilities & Equipment
- 12. Assessment

http://www.cas.edu/

Founded in 1979, CAS is the pre-eminent force for promoting standards in student affairs, student services, and student development programs. CAS creates and delivers dynamic, credible standards, guidelines, and Self-Assessment Guides ...designed to lead to a host of quality programs and services. CAS aims to foster and enhance student learning, development, and achievement.





Council for the Advancement of Standards in Higher Education (CAS)

GENERAL STANDARDS

CAS Standards and

Part 1. MISSION

Program and services must develop, disseminate, implement, and regularly review their missions.

Programs and services must develop, disseming their missions. The mission must be consistent with the mission of the mission must be appropriate for the institution's student populations and community settings. Mission statements must reference student learning and development.

Part 2. PROGRAM

The formal education of student curriculum, must promote student lear purposeful, contribute to students' realization students for satisfying and productive lives.

The formal education of students, consisting of the curriculum and co-curriculum must promote student learning development outcomes that are purposeful ...

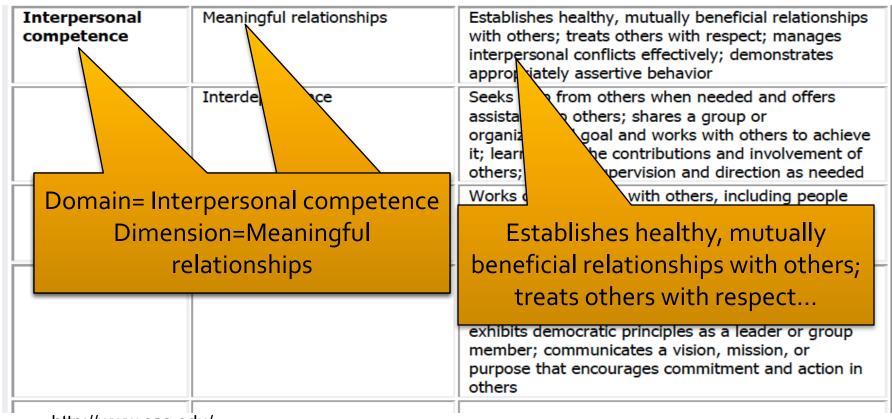
http://www.cas.edu/





Council for the Advancement of Standards in Higher Education (CAS)

Student Learning Outcomes



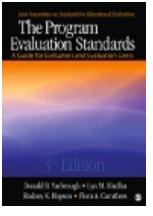
http://www.cas.edu/





Evaluation Standards

- Utility Standards
- Feasibility Standards
- Propriety Standards
- Accuracy Standards
- Evaluation AccountabilityStandards



Joint Committee on
Standards for
Educational Evaluation:
Created in 1975 is a
coalition of major
professional associations
in the United States and
Canada concerned with
the quality of evaluation.





Utility Standards	Feasibility Standards		Propriety Standards	Accuracy Standards		Evaluation Accountability Standards
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and products valuable in meeting their	tiveness and efficiency.		evaluations.	especially those that support inter	pretations	improvement and accountability for
needs.				and judgments about quality.		evaluation processes and products.
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Utility Standards	Feasibility Standards	Propriety Standards	Accuracy Standards		Evaluation Accountability Standards
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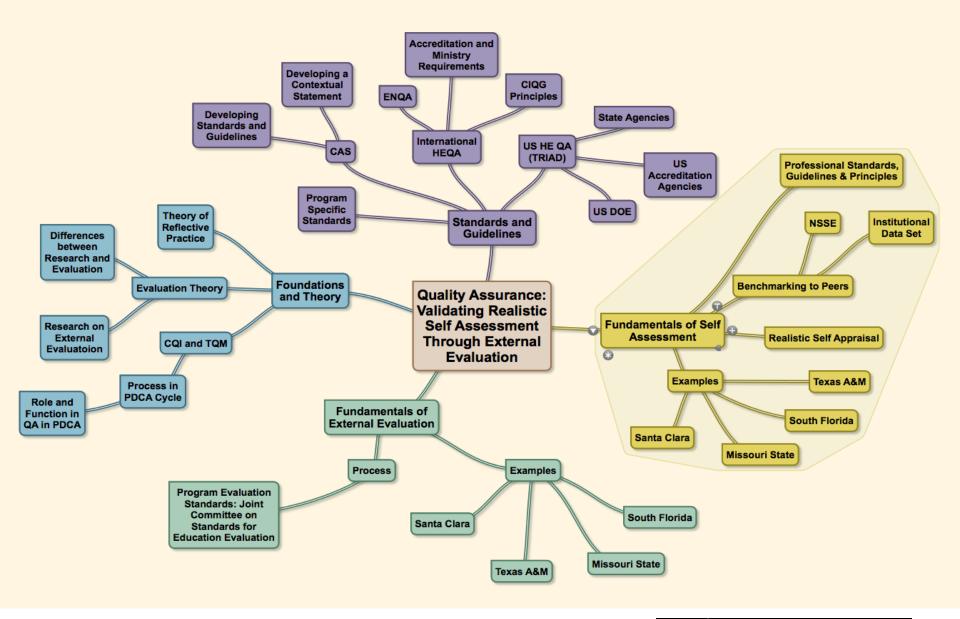
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Utility Standards	Fea	asibility Standards	Propriety Standards	Accuracy Standa	rds	Evaluation Accountability Standards			
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Quality Assurance: Validating Realistic Self Assessment Through External Evaluation

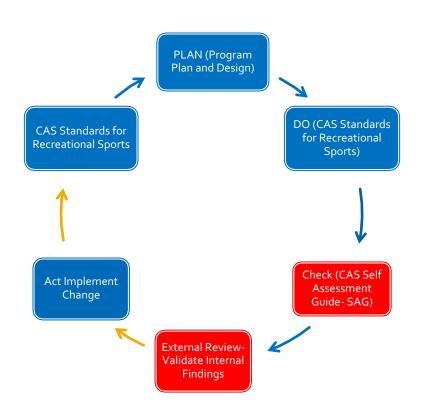


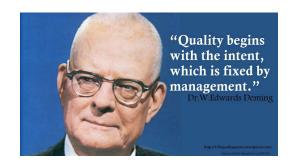


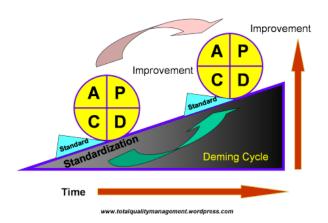




Self Assessment and External Evaluation in the CQI Cycle



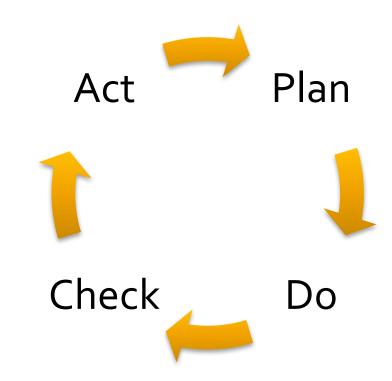




Quality begins with the intent, which is fixed by management."- W. Edwards Deming

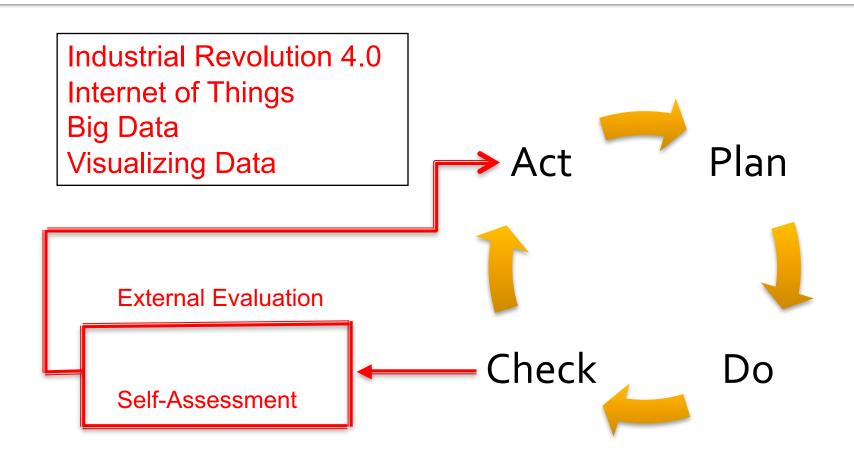


Self Assessment for Quality



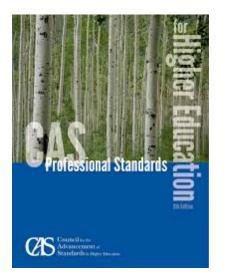


Self Assess for Quality





- Understand the CAS Standards and Guidelines
 - Must and Shall
 - Should and May
 - Criterion measures internal ratings
- Establish and prepare the team
 - As a group, examine the standards





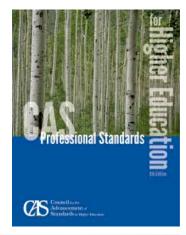
- 1. Mission
- 2. Program
- 3. Organization & Leadership
- 4. Human Resources
- 5. Ethics
- 6. Law, Policy & Governance
- 7. Diversity, Equity, & Access
- 8. Internal and External Relations
- 9. Financial Resources
- 10.Technology
- 11. Facilities & Equipment
- 12. Assessment





- Compile and review evidence
 - Student Recruitment and Marketing Materials
 - Program Documents
 - Institutional Administrative Documents
 - Research, Assessment and Evaluation Data
 - Staff Activity Reports
 - Student Activity Reports

"Facts are stubborn things; and whatever may be our wishes, our inclinations, or the dictates of our passion, they cannot alter the state of facts and evidence." John Adams, US diplomat & politician (1735 - 1826)







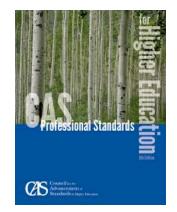


- Judge Performance
 - 5-Point rating scale
 - Rationale for rating



CAS Criterion Measure Rating Scale

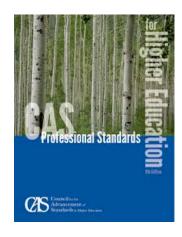
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Does Not Apply	Insufficient Evidence/U nable to Rate	Does Not Meet	Partly Meets	Meets	Exceeds	Exemplary



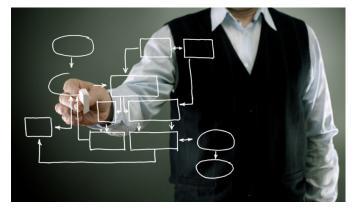




- Complete the Assessment Process
 - Explain mission, purpose and philosophy
 - Review the outcome of the assessment
 - Make recommendations for action



"In preparing for battle I have always found that plans are useless, but planning is indispensable." Dwight D. Eisenhower 34th president of US 1953-1961 (1890 - 1969)

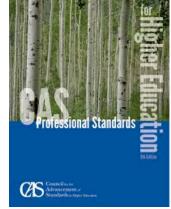


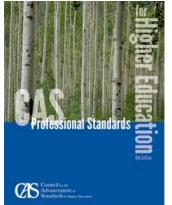




Answer Qualitative Overview Questions

- Stimulate summary thinking
- Identify overarching issues
- Interpret ratings
- Develop report
- Identify Program Strength
- Identify Program Weakness









Benchmarking

- Measurement of the quality of an organization's policies, products, programs, strategies, etc., (compared with) with standard measurements, or similar measurements of its peers.
- Objectives:
 - Determine what and where improvements are called for;
 - Analyze how other organizations achieve high performance levels;
 - Use this information to improve performance

Read more:

http://www.businessdictionary.com/definition/benchmarking.html



College Scorecard

124 Results SHARE

PAGE: < 2 3 4 5 6 1

Name (A to Z)

Ohio State University-Main Campus

Columbus, OH 43,733 undergraduates



Ohio University-Main Campus

Athens, OH 23,390 undergraduates



VIEW MORE DETAILS >

Oklahoma State University-Main Campus

SORT:

Stillwater, OK 20,636 undergraduates



VIEW MORE DETAILS >

Old Dominion University

Norfolk, VA 19,842 undergraduates



VIEW MORE DETAILS >

Oregon State University

VIEW MORE DETAILS >

Corvallis, OR 22,925 undergraduates



Pennsylvania State University-Main Campus

University Park, PA 39,958 undergraduates



Portland State University

Portland, OR 19,662 undergraduates



Purdue University-Main Campus

West Lafayette, IN 29,977 undergraduates







"Primary source for information on U.S. colleges, universities, and technical and vocational institutions."



OHIO Peer University Peer Study 2012

- Comparison Variables
 - SAT/ACT 25th-75th Percentile
 - Freshman in Top 10% of HS Class
 - Freshman Acceptance Rate
 - Freshman Retention Rate
 - Actual Graduation Rate
 - US News Predicted Grad. Rate
 - US News Performance Rate
 - % of Classes under 20
 - % of Classes with 50 or more
 - Student Faculty Ratio
 - % Living on Campus
 - Tuition & Fees
 - Government Grants

- Comparison Variables
 - Capital Grants and Contracts
 - Gifts including contributions
 - Auxiliary Sales & Services
 - Federal Appropriations
 - State Appropriations
 - Capital Appropriations
 - Investment Income
 - Other Revenues











NSSE 2014 Frequencies and Statistical Comparisons Ohio University

First-Year Stude	ents				Frequency Distributions ^a									Statistical Comparisons b Your first-year students compared with					
				Ohio Unive	rsity	Peer Institut	ions	Carnegie Cla	ass	NSSE 2013 & 2014	Ohio University	Peer Ins	stitutions	Carnegie		NSSE 2013	& 2014		
Item wording	Variable												Effect		Effect		Effect		
or description d. Examined the strengths	name c RIownview	Values '	Response options Never	Count 31	<u>%</u>	Count 218	<u>%</u> 5	1,513	% 5	Course	Mean	Mean	size e	Mean	size ^e	Mear	size ^e		
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topic or issue		4	Very often			hio	llr	nivai	rci	+ \/		2.7		2.0	00	∇	10		
			Total				O I	II V C I	וכו	Ly						Y			
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understand someone		2	Sometimes	152	30	1,400	33	9,157	30	30									
else's views by		3	Often	221	40	1,722	42	12,768		19 42	2.9	8 *	.11	2	.05	2.9	.04		
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f. Learned something that	riew	1	Never		- 1	CCI	111	Stitt	JU	0113									
changed the way you		2	Sometimes	1′															
understand an issue or		3	Often	213	40	1,772	43	12,674	42	94,388 4		2.8 *		2.8	.05	2.9	.02		
concept		4	Very often	131	24	857	20	6,949	23	53,352		Δ							
			Total	530	100	4,120	100	20 100	100	222.05									
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		issu	Jes		12	422	10	2,802	10	24,348 11				Δ					
			rotai	028	100	4,113	100	30,015	100	222,806 100									
	SFotherwork	1	Never	256	49	2,020	49	16,001	53	113,835 52									
member on activities		2	Sometimes	164	31	1,320	32	8,854	29	66,782 29									
other than coursework (committees, student		3	Often	68	12	507	12	3,408	12	27,238 12	1.8	1.8	.04	1.7 *	.10	1.7	.07		
groups, etc.)		4	Very often	39	8	249	6	1,603	6	14,011 6				Δ					
			Total	527	100	4,096	100	29,866	100	221,866 100									



NSSE 2011 Multi-Year Benchmark Report Multi-Year Charts^a

Ohio University

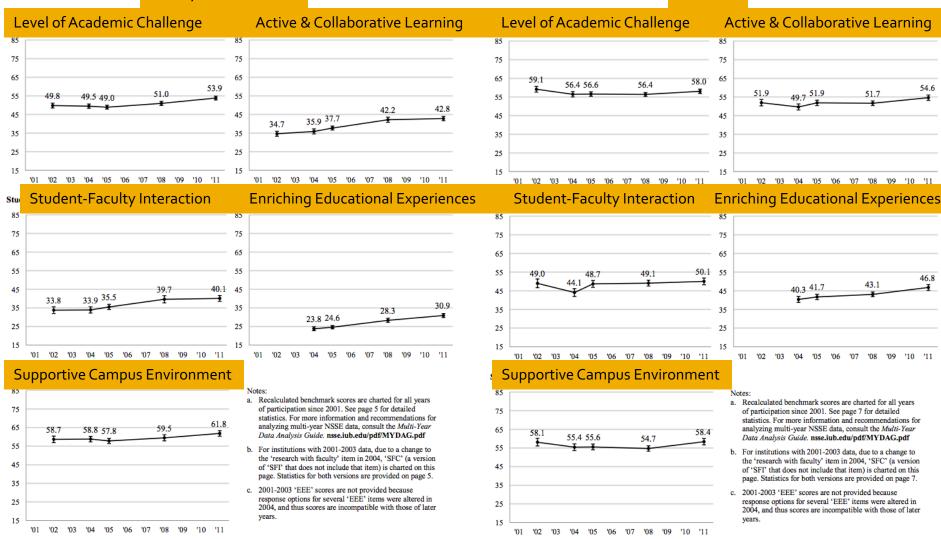
NSSE national survey of student engagement

NSSE 2011 Multi-Year Benchmark Report Multi-Year Charts^a

Ohio University

Seniors

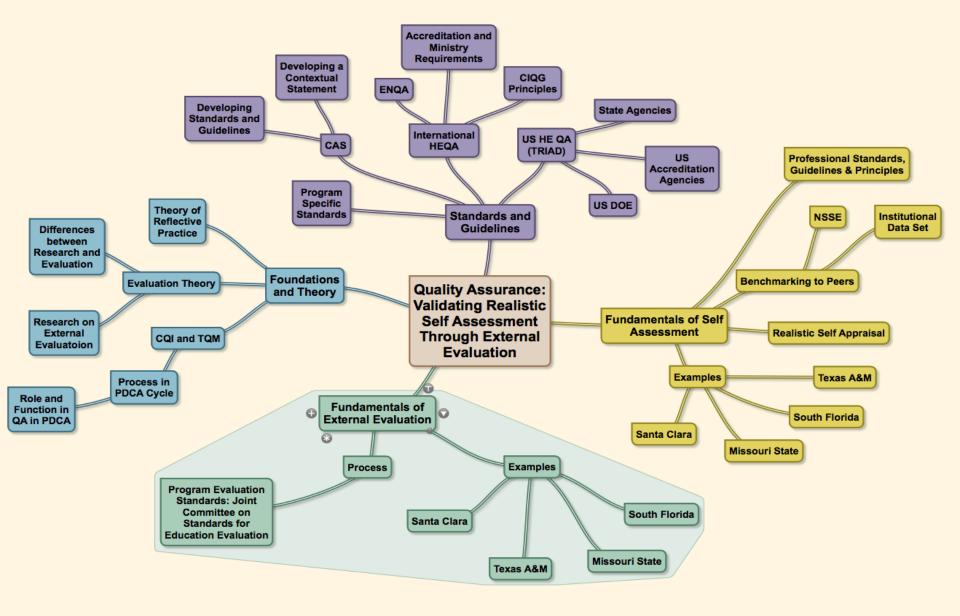
First-year Students



Quality Assurance: Validating Realistic Self Assessment Through External Evaluation









Program Evaluation Defined

 "A form of appraisal using valid and reliable research methods, that examines the process of outcomes of an organization that exists to fulfill some social need." (Grinnel and Unrau, 2008, pg. 553)

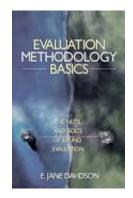




Potential Evaluation Checklist (Modified from Scriven, 2003)

- Executive Summary
- Preface
- Methodology
- Background and Context
- Descriptions and Definitions
- Consumers
- Resources
- Values
- Process Evaluation
- Outcome Evaluation
- Comparative Costeffectiveness

- Exportability
- Overall Significance
- Recommendations
- Responsibilities
- Reporting and Follow-up
- Meta Evaluation





External Evaluation Process

- Organizational data were triangulated using a variety of methods and sources, including:
 - Review of documentary evidence including, department's CAS-self assessment;
 - Externally developed survey of employees and;
 - Onsite interviews and focus groups of employees and participants.
- External program review of the program, including analysis the documents and evidence, a survey of employees, and focus groups finalized the data collection portion of the comprehensive review.

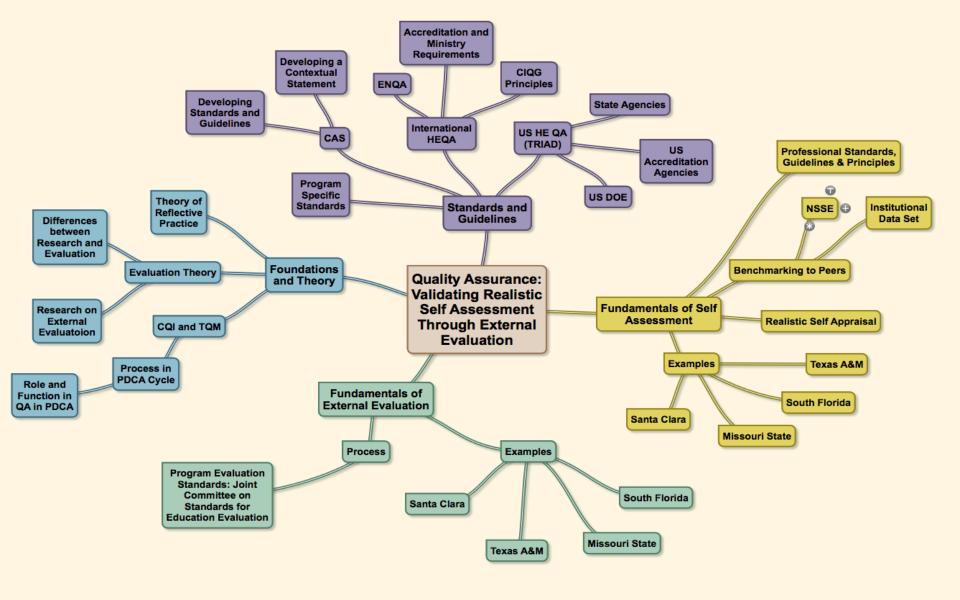




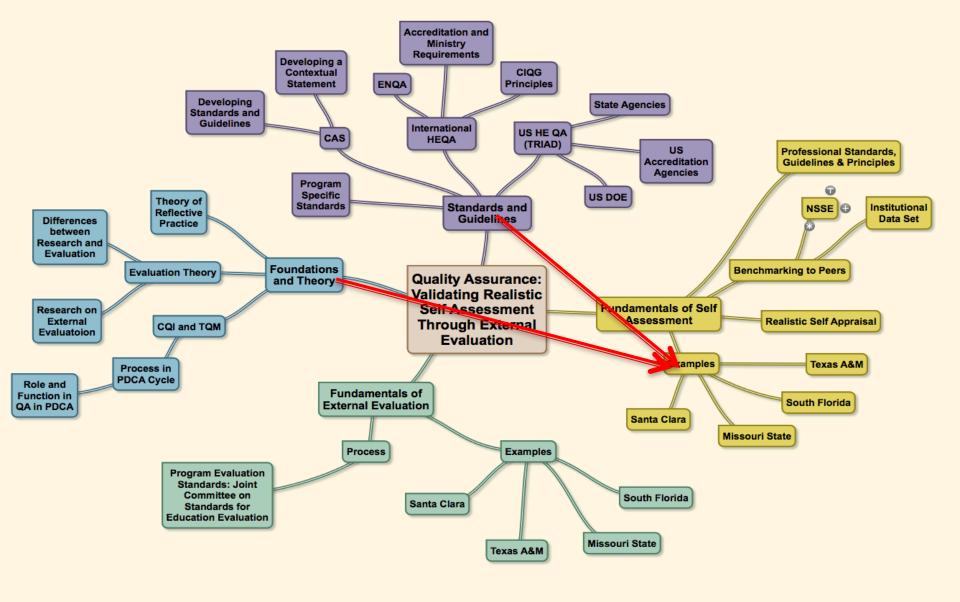
DSF Evaluation Process

- Review of Evidence
 - Align with CAS Standards and identified benchmarks
- Conduct and analyze survey
- Site visit for interviews and focus groups
- Create report focused on:
 - General findings
 - Specific findings
 - Recommendations

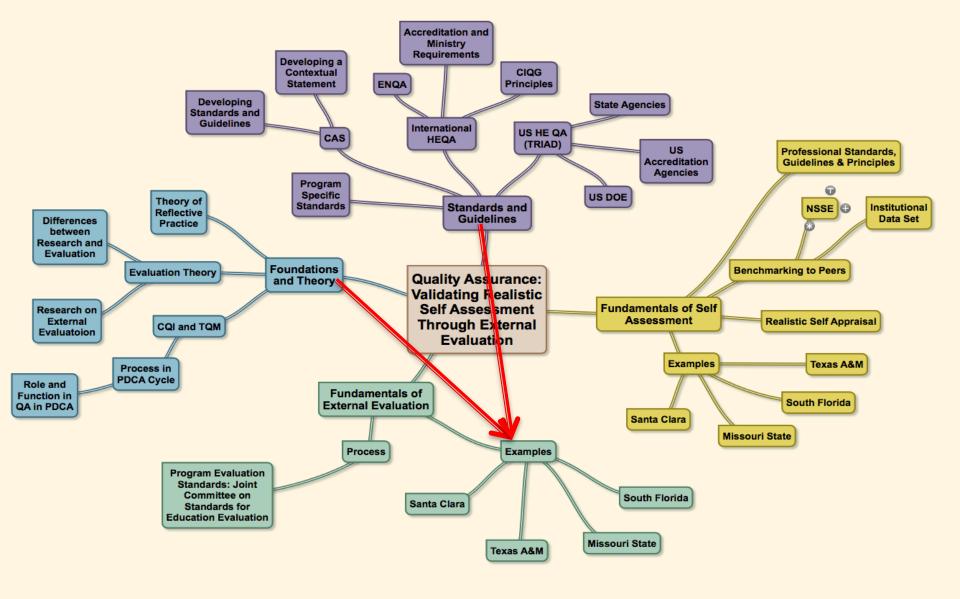














Validation of Self Assessment through External Evaluation

- Texas A&M University (Large Research)
- Missouri Sate University (Mid size regional)
- University of South Florida (Large Mid-tier)
- Santa Clara University (Small Private)













Texas A&M: CAS Self Assessment

Part 1. Mission:

- The mission of Recreational Sports Programs (RSP) must be to enhance the mind, body and spirit of students and other eligible individuals by providing programs, services and facilities that are responsive to the physical social, recreational and lifelong educational needs of the campus community.
- TAMU Response: Department of Recreational Sports Mission is to provide quality programs, services and facilities to a diverse Texas A&M community. We encourage the lifelong pursuit of active healthy lifestyles and enhance student development by providing leadership and employment opportunities.







Texas A&M: External Evaluation

- Mission: The mission addresses the fundamental purpose of the organization and emphasizes that the program need for enhancing the mind, body, and spirit of students and other eligible individuals by providing programs, services, and facilities that are responsive to the physical, social, recreational, and lifelong educational needs of the campus community as they relate to health, fitness, and learning.
- <u>Finding:</u> The department's mission aligns well with relevant standards as well as with the Division and Institutional mission. Review of the department's mission is irregular and there is no evidence of any review or revision. The lack of review of the mission was viewed as limited and supported by statement "there is no documentation to support that a regular, systematic process is utilized to review the mission statement."

<u>Recommendation:</u> The department would benefit from regularly reviewing its mission and to consider a revision to include the term "student learning."





Missouri State: CAS Self Assessment

Part 2. Program

- The RSP must contribute to student learning and development outcomes that are purposeful:
- MSU Response:
 - Personal Training is designed for participants who seek assistance in developing exercise routines. Trainers can increase or decrease the difficulty of the workout to maximize participant effort and satisfaction.
 - Swimming lessons classes are designed for participants who are unable to swim or swim well. Three levels of lessons are offered to accommodate most participants.
 - Intramurals offers programming for various skill levels.







Missouri State: External Evaluation

- Program: ... program area focuses on the promotion of student learning and development outcomes that are purposeful,...
- Finding: ...programming efforts are up-to-date and inclusive of varying interests and abilities. Operational and program policy/procedure are well-written and available to participants in easy-to-find places on the department's website. Many student-employees articulated a learning value associated with their employment that exceeded what they had learned in the classroom and alignment of student employment with academic preparation was not harnessed.

<u>Recommendation:</u> The department should explore co-curricular collaborations that provide experiential learning opportunities as well as academic partnerships with units closely associated with student employment.





University of South Florida: CAS Self Assessment

- Part 4. Human Resources: RSP must be staffed adequately by individuals qualified to accomplish mission and goals.
- USF Response:
 - USF CR is staffed adequately to meet the mission and goals. One area identified as lacking support is office administrative assistance. USF CR intentionally reclassified an office manager position to emphasize the importance of membership services (coordinator), the result is a hybrid position that still handles limited office management and administrative support.
 - USF CR has advanced its efforts in ensuring appropriate marketing messaging, campaigns, and program advertisement through a reclassification of a senior clerk (reception and administrative support) into a Marketing officer. This move has improved marketing but again challenges the department by removing administrative support. The marketing officer
 S.

Criterion	Measures: ¶	

DNA¤	ΙΕ¤	0п	1 [#]	2	3¤	п
Does Not Apply	Insufficient Evidence/¶ Unable to Rate¤	Does Not Meet ^{II}	Partly Meets ^{II}	Meets	Exceeds¤	п



- 4.1 Adequate Staffing and Support T
 - Recreational Sports Programs (RSP) is staffed adequately to accomplish mission and goals.
 - RSP has access to technical and support personnel adequate to accomplish the mission.







University of South Florida: External Evaluation

- Human Resources: The department appears to be staffed by experienced and qualified professionals. With the exception of "hiring practices are fair", survey responses in all areas related to human resources showed some growth. There was no evidence presented that hiring practices were "unfair." Training and performance evaluation could be enhanced to improve performance.
 - Finding: Professional development and training for departmental personnel is irregular and does not include continuing education in the development of student learning outcomes and assessment.

Recommendation: Education and training in student learning outcomes and assessment would enhance department personnel's ability to create an enhanced learning environment for student participants and employees.





External Review 2010





Santa Clara University

- Part 8. Institutional and External Relations
 - Recreational Sports Programs (RSP) must reach out to relevant individuals, groups, communities, and organizations internal and external to the institution to establish, maintain, and promote understanding and effective relations with those that have a significant interest in or potential effect on the students or other constituents served by the programs and services
- SCU Response
 - The SCU CR program maintains effective relations with the institutional offices of Risk Management, Athletics, Student Life, Center for Student Leadership, Wellness Ctr., Healthy and Safety, Facilities, Development, Alumni, General Counsel, and Center for Sustainability. Outside of campus – SCU CR works with other universities in the Bay Area, and NIRSA friends and colleagues.







Santa Clara University

Internal and External Relations:

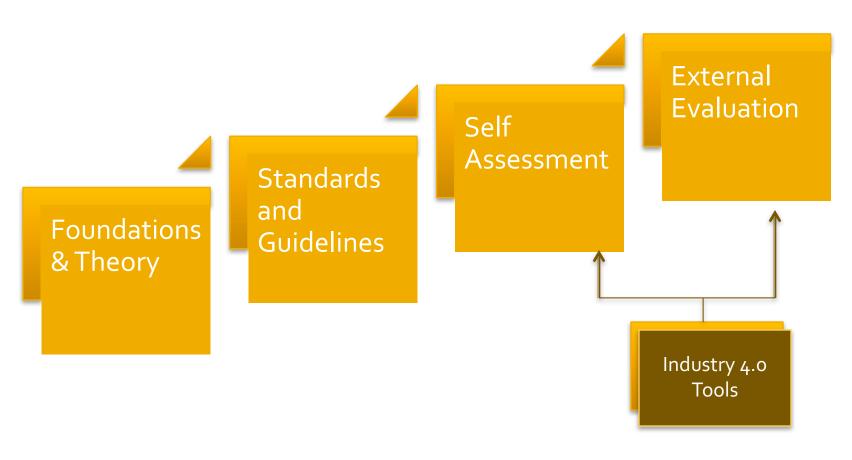
• Finding: Relationship building is a key strength of Campus Recreation as evidenced by the large number of focus group participants representing a variety of partner organizations. Survey responses indicate the perception that campus and external relationships were valued (86.30%; 3.26). A great example of collaboration by Campus Recreation has been exhibited by their leadership role in achieving institutional goals related to sustainability (94%; 3.70). Focus group discussions with partners revealed professional staff are actively engaged throughout campus and perceived as leaders in collaboration.

Recommendation: Maintain current collaborative engagement practices with internal and external partners. Address partner needs during the facility expansion process.





Quality Assurance: Validating Realistic Self Assessment Through External Evaluation

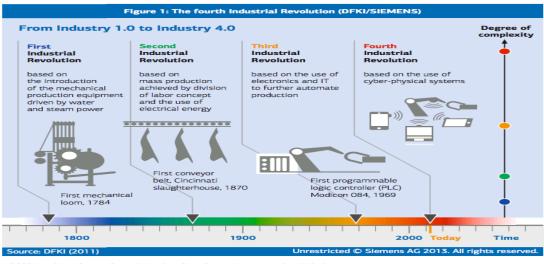




Industrial Revolution 4.0

- Higher Education and Industrial Revolution 4.0
 - Potential Impact on Higher Education
 - Institutional Processes
 - Content-Knowledge Triangle

Support in CQI and QA

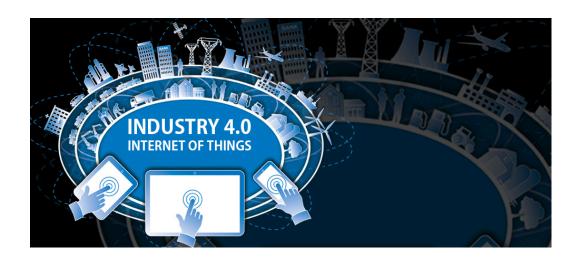


3 IRISS Deliverable 6.4 Strategic Research Agenda on Smart Systems Integration, to be published 4 http://www.smart-systems-integration.org/public



Principles in Industry 4.0

 Interoperability: Ability of machines, devices, sensors, and people to connect and communicate with each other via the Internet of Things (IoT) or the Internet of People (IoP).



Data **Technological** Ability of intercionnected Hardware and code that allows systems to understand each connection other Interoperability Human Insitutional Ability to Effective understand and engagement of act on data societal systems exhanged

http://www.forbes.com/sites/bernardmarr/2016/06/20/whateveryone-must-know-about-industry-4-0/#bb5aacd4e3b9



Principles in Industry 4.0

- Technical assistance:
 - Systems to support humans by aggregating and visualizing information comprehensibly for making informed decisions, solving urgent problems on short notice and conducting a range of tasks that are unpleasant, too exhausting, or unsafe for their human co-workers.





Principles in Industry 4.0

 Decentralized decisions: ability of cyber physical systems to make decisions on their own and to perform their tasks as autonomous as possible. Only in case of exceptions, interferences, or conflicting goals, tasks are delegated to a higher level.





Industry 4.0 Applications for HE

- IoT devices already on campus today
 - HVAC controls
 - Smart washing machines
 - Sprinkler controls
 - Door locks/security systems
 - Alarms
 - Sustainable trash cans
 - Temperature alerts for lab freezers
 - Robots for distance education
 - Supply inventory tracking
 - Parking Sensors





Lacey, K. 2016. University Business Magazine



Industry 4.0 Applications for HE

- Acquisition
- Course/MajorSelection
- Performance Effectiveness
- Work Groups
- Retention
- TeacherEffectiveness
- Value/BoosterEffectiveness
- Advocacy

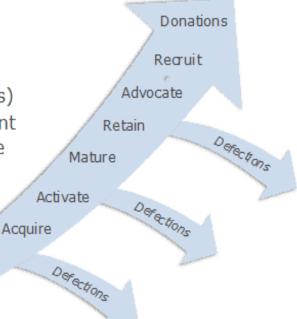
Student Engagement Lifecycle

Target

Segment

How are you leveraging student performance, demographic, usage, behavioral, and social insights (tendencies, propensities and trends) to optimize your student engagement processes, increase student Lifetime Value and drive advocacy/referrals?

Profile



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EMC²

Industry 4.0 Applications for HE

- Predictive Analytics in HE: Data-Driven decisionmaking for the student life cycle
 - Improve student learning outcomes
 - Improve retention and graduation rates
 - Improve institution ROI on recruitment costs
 - Increase operational efficiency
 - Demonstrate success in a key area of focus for accrediting agencies and governments

"an area of statistical analysis that deals with extracting information using various technologies to uncover relationships and patterns within large volumes of data that can be used to predict behavior and events." (Source: Educause)





Technological change and innovation are major challenges for higher education

Q: Which of the following apply to your institution?



Source: KPMG Embracing Innovation http://www.kpmg-institutes.com/content/dam/kpmg/governmentinstitute/pdf/2015/he-outlook-2016.pdf

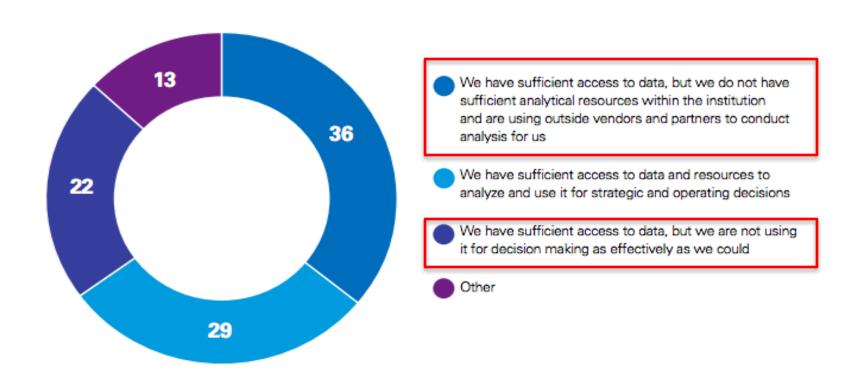


Data and analytics

Statements describing institution with respect to data and analytics.



Q: Which of the following statements best describes your institution regarding data and analytics?



Source: KPMG Embracing Innovation http://www.kpmg-institutes.com/content/dam/kpmg/governmentinstitute/p df/2015/he-outlook-2016.pdf



Industry 4.0 Applications in HE: Findings from EDUCAUSE Study (2012)

Analytics:

- Investment should be made in area which HE institutions are making the least progress;
- Institutions should focus investments on expertise, process and policies before acquiring new tools;
- Institutions that have made more progress in investment, culture/process, data tools, expertise and governance are more likely to use data to make predictions or projections or to trigger action in a variety of areas.



Industry 4.0 Applications in HE: EDUCAUSE Study (2005)

- Advancement/fundraising
- Business and Finance
- Budget and Planning
- Institutional Research

- Human Resources
- Research Administration
- Academic Affairs & Student Services

Outcome	Mean	SD
Improved institution's financial results	3.09	0.928
Managed workforce more productively	2.78	.0928
Managed grants effectively	2.61	0.984
Improved ability to obtain grant funding	2.47	.0962
Improved admissions/enrollment mgmt. results	3-43	1.012
Improved fundraising results	2.93	1.087
Improved retention results	3.16	0.952

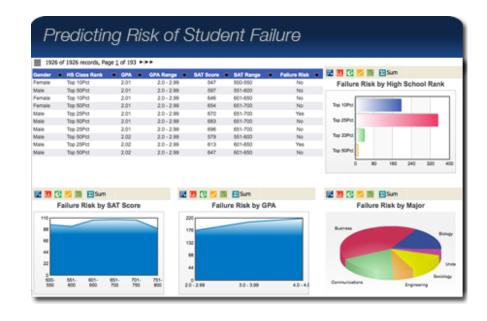
- Characteristics of Institutions with Successful Outcomes
 - Effective Training
 - Staff skilled at academic analytics
 - Leadership committed to evidence-based decision making



What Types of HE Data Are There?

WHAT TYPES OF HE DATA ARE THERE? **ADMINISTRATIVE TIMETABLES** APPLICATION AND RESEARCH DATA DATA ADMISSIONS DATA FINANCIAL DATA PLANNED WORK MAPS, ESTATE AND STUDENT AND **FACILITIES DATA** PERFORMANCE DATA STAFF DATA **COURSE DATA ENVIRONMENTAL** ALUMNI AND DATA HISTORICAL DATA

How is the Data Translated?





Big Data and Analytics Applications























HUMAN CAPITAL MANAGEMENT



Helping higher education leaders make the best informed decisions.













Industry 4.0 Evaluation Question

- How is the institution:
 - Educating students to live and work in the 4th industrial age?
 - Using using big data in making data driven decisions in support of CQI?
 - Using the IoT to achieve efficiencies and effectiveness in achieving its academic mission?

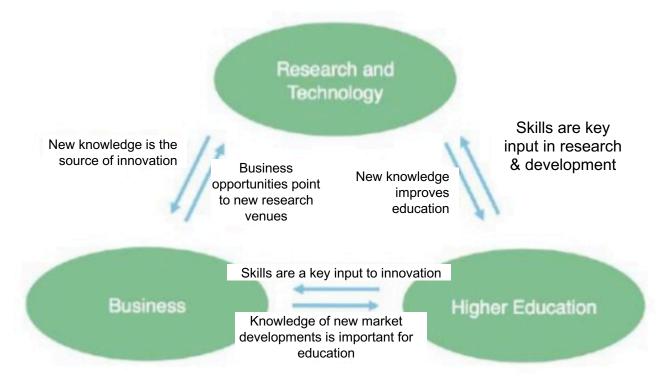
"The Fourth Industrial Revolution urges us to think creatively about the manufacturing process, value chain, distribution and customer service processes. In the meanwhile, the future of education emphasizes the immense need to look beyond these areas and strategically utilize the "Internet of Things" to prepare the coming workforce for the challenges ahead." Mezied, A.A. (2016)





Knowledge Triangle & Innovation

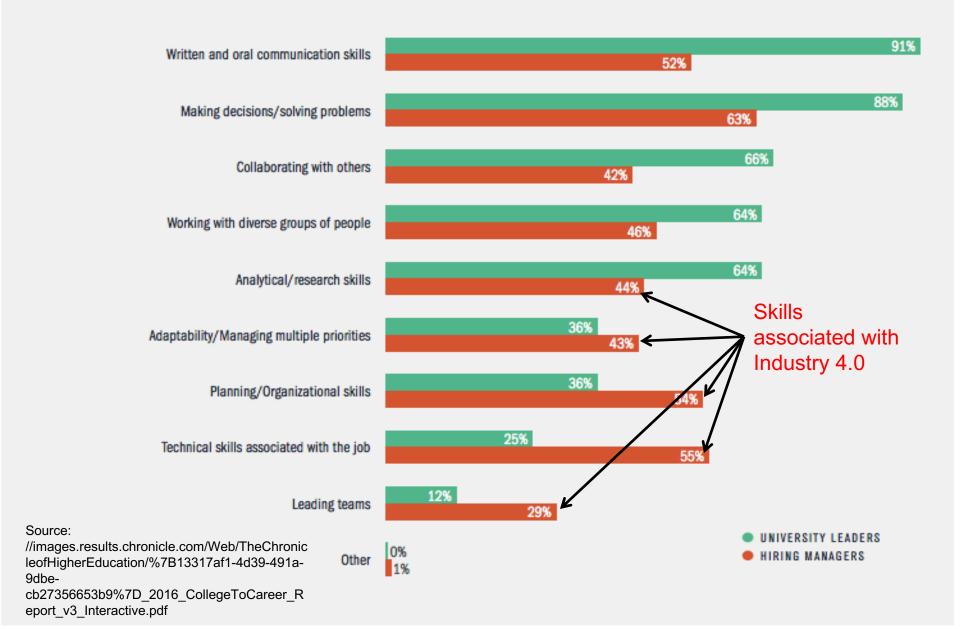
Knowledge Triangle



https://www.oecd.org/sti/inno/knowledge-triangle.htm

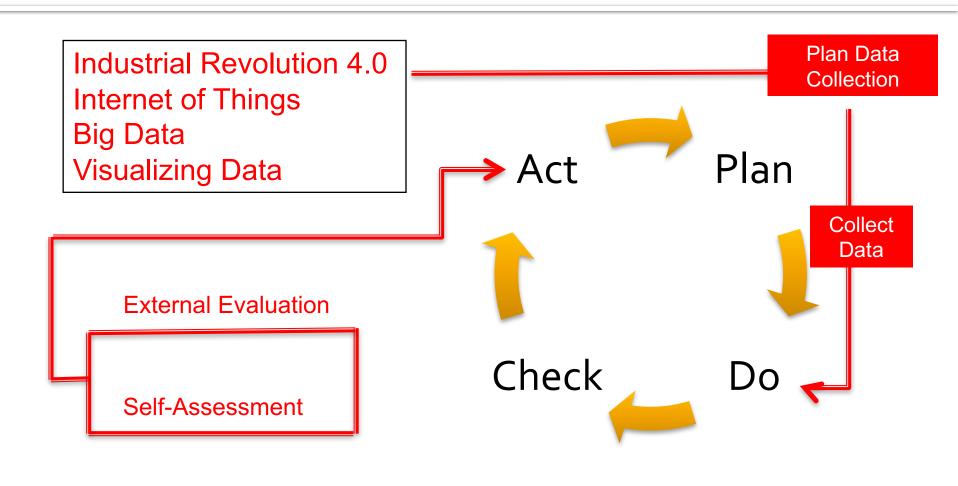


FIGURE 5
WHAT SKILLS UNIVERSITY LEADERS AND HIRING MANAGERS SAY ARE
MOST IMPORTANT FOR COLLEGES AND UNIVERSITIES TO DEVELOP IN THEIR GRADUATES

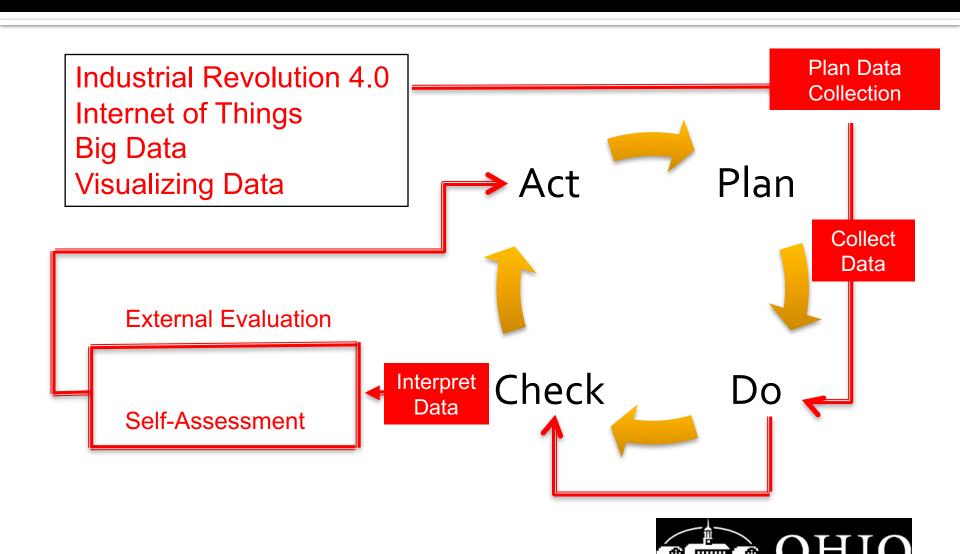


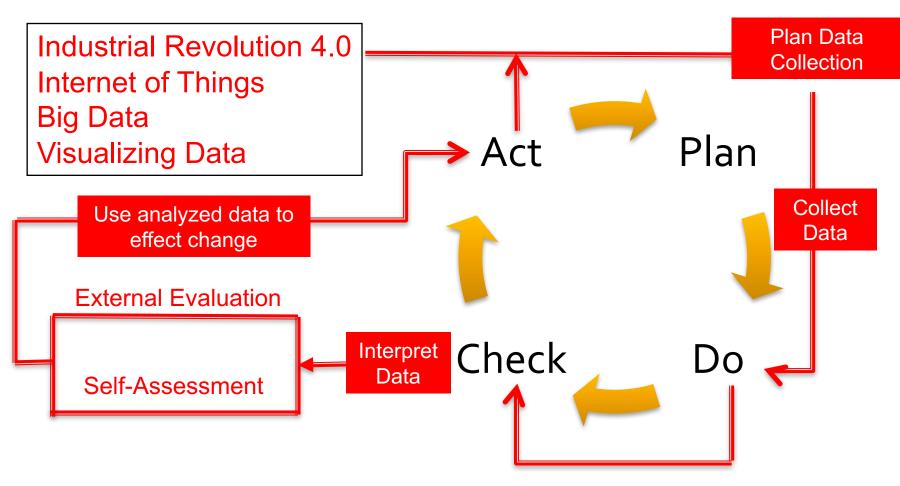
Plan Data **Industrial Revolution 4.0** Collection Internet of Things Big Data Visualizing Data Plan Act **External Evaluation** Check Do Self-Assessment













Summary and Conclusions

- Basic theories of continuous quality improvement, assessment, and evaluation undergird quality assurance.
- Self-assessment and reflective practice are the foundations of appraisal of organizational systems, processes and actions.
- Standards based external evaluation verifies organizational actions and self perceptions with industry or professional standards.
- Big data and data analytics can provide evidence of organizational efficiency and effectiveness.





Thank You

- Douglas S. Franklin, Ph.D.
- Emeritus Assistant Dean, Ohio University
- franklin@ohio.edu



Fundamentals of Self Assessment

- Defined process
- Realistic Self Appraisal
- Benchmarking With Peers
- Professional Standards, Guidelines & Principles









Industry 4.0

- Potential Impact
 - Services and Business Models
 - Workers Education and skills
 - Reliability and continuous productivity
 - IT security
 - Machine safety
 - Product lifecycles
 - Industry value chain
 - Socio-economic

"There has never been a time of greater promise, or greater peril." Schwab, K. Founder and Executive Chairman of the World Economic Forum (2016)





Principles in Industry 4.0

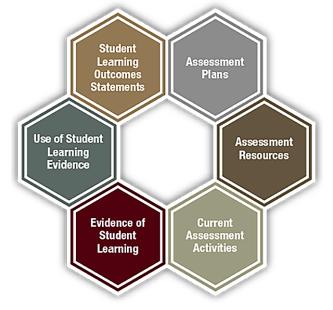
 Information transparency: Ability of information systems to create a virtual copy of the physical world by enriching digital plant models with sensor data.

Requires aggregation of raw sensor data to higher-value context

information.

National Institute for Learning Outcomes Assessment Making Learning Outcomes Usable & Transparent Search Site Search									
Transparency Framework	Introduction Framework in the Field Overview Components Definitions Using the Framework NEW: Excellence in Assessment Designation	Student lear Assessment Assessment Current asse Evidence of		k <mark>FULL</mark>	NAVIGATION >>				

http://www.forbes.com/sites/bernardmarr/2016/06/20/whateveryone-must-know-about-industry-4-0/#bb5aacd4e3b9





Industry 4.0 Applications in HE: Findings from EDUCAUSE Study (2012)

Analytics:

- Widely used but data still limited at most institutions;
- Efforts should start by defining strategic questions and developing a plan;
- Programs require neither perfect data nor data culture-should start when institution is ready to invest and commit;
- Programs are most successful when various constituents work in partnership;



OHIO Peer University Peer Study 2012

- Selection Variables
 - US News Peer Assessment
 - Freshman Admissions Selectivity
 - Retention and Graduation Rates
 - Faculty Salary/Compensation
 - Institutional Characteristics
 - Student Body Race/Ethnicity
 - Tuition & Financial Aid
 - Student Experience
 - Institutional Finances







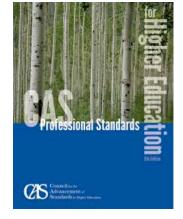


Formulating an Action Plan

- Answer qualitative overview questions
 - Describe Practices Requiring Follow-up
 - Summarize Actions Required to Meet Standards
 - Summarize program enhancement actions
 - Write program action plan



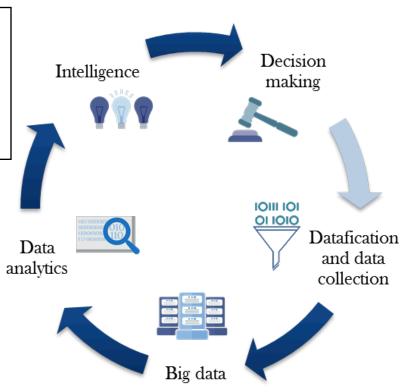






Data Driven Innovation: Data Value Cycle

Industrial Revolution 4.0
Internet of Things
Big Data
Visualizing Data



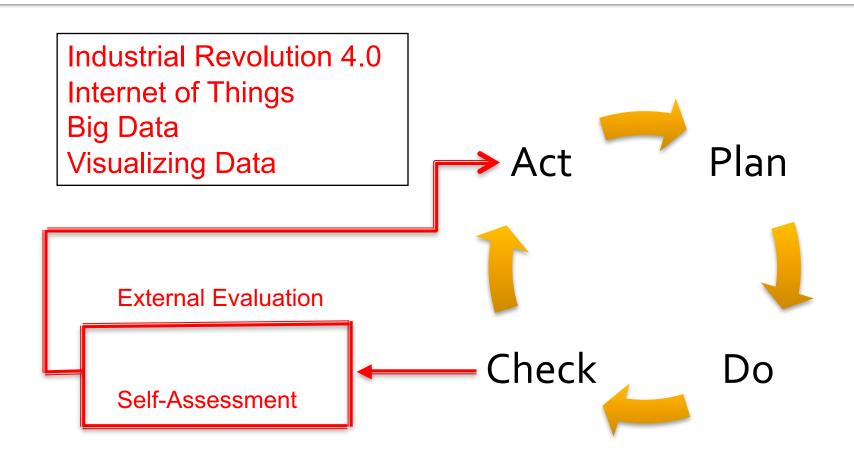
https://www.oecd.org/sti/inno/data-driven-innovation-interim-synthesis.pdf

http://www.keepeek.com/Digital-Asset-Management/oecd/science-and-technology/data-driven-innovation_9789264229358-en#.WBI8qeErL1I#page34





Self Assess for Quality







NSSE 2016 Snapshot

NSSEville State University

A Summary of Student Engagement Results

Student engagement represents two critical features of collegiate quality. The first is the amount of time and effort students put into their studies and other educationally purposeful activities. The second is how institutional resources, courses, and other learning opportunities facilitate student participation in activities that matter to student learning. NSSE surveys first-year and senior students to assess their levels of engagement and related information about their experience at your institution.

Comparison Group

The comparison group featured in this report is

GLC Peers

See your Selected Comparison Groups report for details.

This *Snapshot* is a concise collection of key findings from your institution's NSSE 2016 administration. We hope this information stimulates discussions about the undergraduate experience. Additional details about these and other results appear in the reports referenced throughout.

	gagement Indicators s of items are grouped into ten			Your students compared with GLC Peers	
Engagement Indicators, organized under four broad themes. At right are summary results for your institution. For details, see your Engagement Indicators report. Key:		Theme	Engagement Indicator	First-year	Senior
		Academic Challenge	Higher-Order Learning		Δ
			Reflective & Integrative Learning		
			Learning Strategies		Δ
			Quantitative Reasoning	Δ	
•	Your students' average was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.	Learning	Collaborative Learning	∇	
Δ	Your students' average was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.	with Peers	Discussions with Diverse Others		
	No significant difference.	Experiences with Faculty	Student-Faculty Interaction	Δ	Δ
V	Your students' average was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.		Effective Teaching Practices		Δ
•	Your students' average was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.	Campus Environment	Quality of Interactions		Δ
			Supportive Environment		Δ



NSSE 2016 Snapshot

NSSEville State University

Item Comparisons

By examining individual NSSE questions, you can better understand what contributes to your institution's performance on the Engagement Indicators. This section displays the five questions on which your first-year and senior students scored the highest and the five questions on which they scored the lowest, relative to students in your comparison group. Parenthetical notes indicate whether an item belongs to a specific Engagement Indicator or is a High-Impact Practice. While these questions represent the largest differences (in percentage points), they may not be the most important to your institutional mission or current program or policy goals. For additional results, see your Frequencies and Statistical Comparisons report.

First-year

Highest Performing Relative to GLC Peers

About how many courses have included a community-based project (service-learning)?^e (HIP)

Talked about career plans with a faculty member (SF)

Discussions with... People with political views other than your own (DD)

Instructors provided feedback on a draft or work in progress^c (ET)

Used numerical information to examine a real-world problem or issue (...)^b (QR)

Lowest Performing Relative to GLC Peers

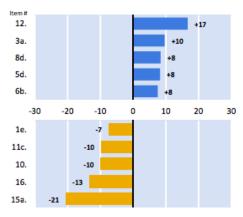
Asked another student to help you understand course material (CL)

Participated in a learning community or some other formal program where... (HIP)

Extent to which courses challenged you to do your best work^d

Spent more than 10 hours per week on assigned reading

Spent more than 15 hours per week preparing for class



Percentage Point Difference with GLC Peers

Senior

Highest Performing Relative to GLC Peers

Discussed your academic performance with a faculty member (SF)

About how many courses have included a community-based project (service-learning)?^e (HIP)

Reviewed your notes after class (LS)

Institution emphasis on encouraging contact among students from different backgrounds... (SE)

Instructors provided prompt and detailed feedback on tests or completed assignments (ET)

Lowest Performing Relative to GLC Peers

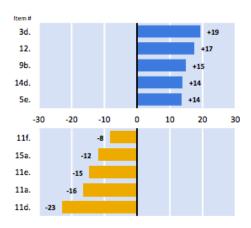
Completed a culminating senior experience (...) (HIP)

Spent more than 15 hours per week preparing for class

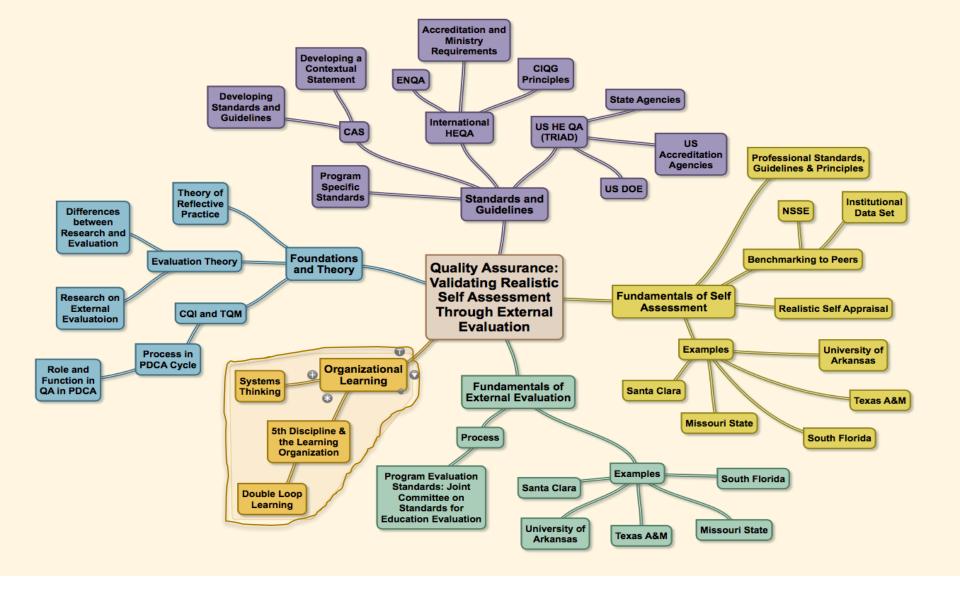
Worked with a faculty member on a research project (HIP)

Participated in an internship, co-op, field exp., student teach., clinical placemt. (HIP)

Participated in a study abroad program (HIP)



Percentage Point Difference with GLC Peers

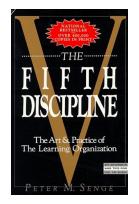




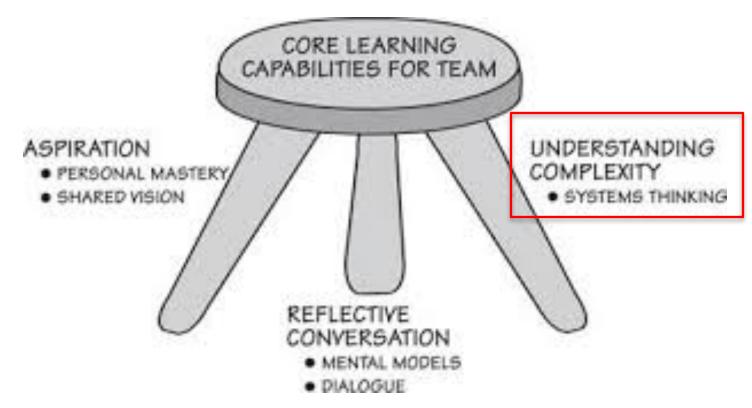
- Personal Mastery
- Mental Models
- Building Shared Vision
- Team Learning
- Systems Thinking

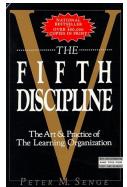
"Business and human endeavors are systems...we tend to focus on snapshots of isolated parts of the system. And wonder why our deepest problems never get solved." Peter M. Senge







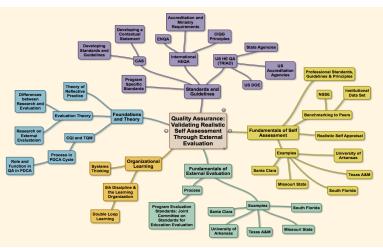






- Complex
 - State of being complex or intricate



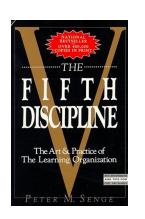


Read more:

http://www.referenceforbusiness.com/management/Bun-Comp/Complexity-Theory.html#ixzz4QJEk1JMl



- Systems Thinking: discipline for seeing:
 - Wholes rather than parts;
 - Patterns of change rather than static snapshots
 - Understanding subtle interconnectedness that gives living systems their unique character.





System

- All systems have:
 - inputs, outputs and feedback mechanisms;
 - maintain an internal steady-state (called homeostasis) despite a changing external environment;
 - display properties different than the whole (called emergent properties) but not possessed by any of the individual elements, and have boundaries usually defined by the system observer.

Systems thinking is a state of mind. Once you have this state of mind, you realize how each part of your business flows into the other. ~Lisa A. Mininni

Read more: http://www.businessdictionary.com/definition/system.ht ml

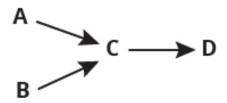


Systems Thinking

What is system thinking and how does it play out in ensuring organizational quality?

Event Oriented Thinking

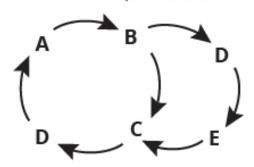
Thinks in straight lines



In event oriented thinking everything can be explained by causal chains of events. From this perspective the **root causes** are the events starting the chains of cause and effect, such as A and B.

Systems Thinking

Thinks in loop structure



In systems thinking a system's behavior emerges from the structure of its feedback loops. **Root causes** are not individual nodes. They are the forces emerging from particular feedback loops. http://www.thwink.org/

"Systems thinking is a management discipline that concerns an understanding of a system by examining the linkages and interactions between the components that comprise the entirety of that defined system."

http://www.systemicleadershipinstitute.org/systemic-leadership/theories/basic-principles-of-systems-thinking-as-applied-to-management-and-leadership-2/



Quality Management System

 "Formalized system that documents processes, procedures, and responsibilities for achieving quality policies and objectives...helps coordinate and direct an organization's activities to meet customer and regulatory requirements

and improve its effectiveness and

efficiency on a continuous basis."



American Society of Quality (ASQ)

OMMUNICATIONS & E-LEARNING

OHIO
UNIVERSITY

INTRANET

QUALITY MANAGEMENT

INCLUDING

12 DRIVERS FOR IMPROVEMENT DEVELOPMEN

VENDOR & STAFF FEEDBACK

STANDARDS

CERTIFICATION

WORKSHOPS

PROGRAM

LEADERSHIP 8
AWARENESS
TRAINING
PROGRAM

Source: http://asq.org/learn-about-quality/quality-management-system

Quality Assurance: Validating Realistic Self Assessment Through External Evaluation

