

Using Benchmarking In The Accreditation Type Decision – Examplified By European Universities

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Laboratory for Machine Tools and Production Engineering (WZL)

Cooperations for Basic Research as well as Applied Development



RWTHAACHEN UNIVERSITY

Laboratory for Machine Tools and Production Engineering (WZL)

- Formed in 1906
- Institute of RWTH Aachen University
- Four chairs and six fields of research
- More than 800 staff members
- More than 10,600 m² laboratory and office space

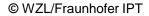


basic research & applied development



Institutes and Professors (from left to right)

- Production Metrology and Quality Management (Prof. Dr.-Ing. Robert Schmitt)
- Manufacturing Technology (Prof. Dr.-Ing. Dr.-Ing. E.h. Dr. h.c. Dr. h.c. Fritz Klocke)
- Production Engineering (Prof. Dr.-Ing. Dipl.-Wirt. Ing. Günther Schuh)
- Machine Tools (Prof. Dr.-Ing. Christian Brecher)









Introduction

Problem & Need

- External conditions demand the implementation of valid QA tools and QMS
- Meeting various stakeholder expectations regarding quality
- Constant or decreasing financial resources for universities

- Comparison of universities by different stakeholders: Benchmarking, Rankings
- Official acknowledgements are demanded: Accreditation
- Establishment of competitive advantages to ensure long-term profitability

- Optimal resource allocation
- Gathering knowledge of own strengths and weaknesses compared to others
- Basis for decision making processes and strategic developments







Benchmarking

The Motivation

Benchmarking...

- ... would allow higher education institutions to analyze their strength and weaknesses systematically and to create meaningful comparisons.
- ... could be used as instrument for the self control for an autonomous and independent organization.
- ... could help as toolkit to ensure that strategic decision process is as rational as possible.
- ... has advantages against rankings and evaluations as they are not methods of self-monitoring but of observation by others both instruments measure results only in retrospect.
- ... is an efficient method as identified, strategic relevant key indicators allow a continuous monitoring of the benchmarking objects.



Increase of Quality of Institutional Development and Strategic Performance by Best Practice Transfer



Seite 7

Source: HQSL 2012; HIS 2007; ESMU 2010







Phase I: Preparation

- Determine the benchmarking project
- Determine the benchmarking team
- 3. Determine the relevant criteria for the performance evaluation
- 4. Determine the benchmarking partner

Phase II: Analysis

- Analysis of information sources
- 2. Identification of gaps in performance and costs
- 3. Analysis of causes
- Communication of results

Phase III: Implementation

- Definition of goals and strategies to eliminate the identified gaps
- Determine action plans for the realization
- 3. Realization of plans
- 4. Control of realization plans











Accreditation

Quality Assurance

Accreditations...

- ... ensure a basic quality within the study programs or the quality management system of a higher education institution.
- ... are an official seal and include governmental requirements.
- ... are not a method of self-observation and therefore benefit from the input of external reviewers.
- ... lead to a continuous use of quality assurance tools as well as the increased involvement of various relevant stakeholders.
- ... are an efficient method to translate necessary measures into action as they stick to governmental restrictions, show the point of action and have a strict time restriction.



Increase of Quality Assurance within the Higher Education Institution



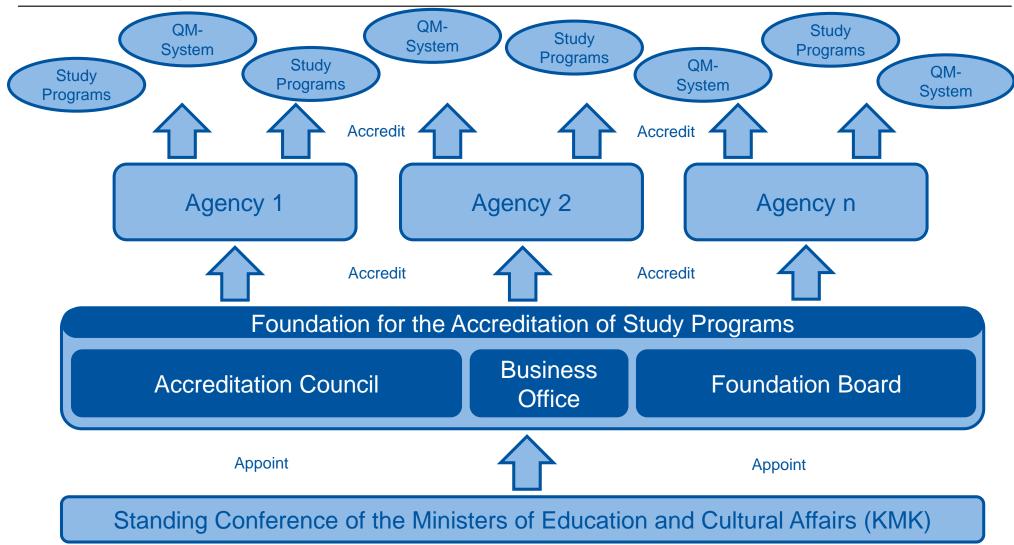






Accreditation

Accreditation System













Linking Benchmarking and Accreditation

Better Decision Making

Accreditation
Criteria
(Program + System
Accreditation)

- Determination of university's status quo
- Accreditation criteria as focus for improvement
- Include strategic and operational aspects

Benchmarking

- Pre-determination of several input factors
- Determination of missing inputs

Decision Matrix

- Includes all relevant decision aspects
- Flow chart leading to the best decision

	Research Orientation	Practical Orientation	
# Students			
# Programs			







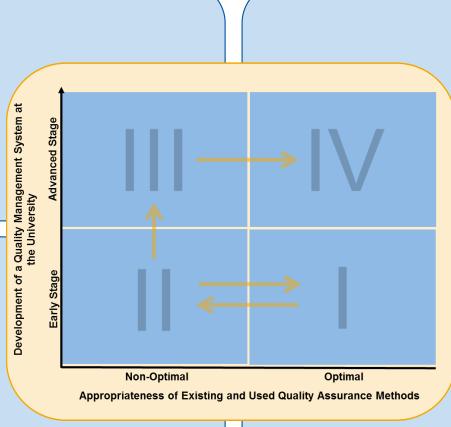
Linking Benchmarking and Accreditation

Classification & Portfolio

 QA methods & study programs are developed sufficiently

 Linkage between program individual QA methods is missing

- QA methods are not used optimal or do not exist
- Existing methods are not appropriate for structure & strategy



- All study programs are included in the QMS
- Optimization of processes is pursued

- QA methods are appropriate
- QA methods provide optimal level of information









THANK YOU FOR YOUR ATTENTION!

CONTACT INFORMATION



Higher Education Management

Research focusing Management Systems

Research focus

Coherent and Holistic Management Systems for Higher Education Institutions

Competence Areas

Structures

"Management tools for flexible, controlled and sustainable internal changes and external influences"

Sub-Topics

 Robust Organizational Structures

- Definition and Characteristics of Management Fields
- Process Maps for Learning, Research and Administration

Benchmarking

"Innovative approaches and concepts for assessing organizational performance and standard strategies to improve performance"

- Objective Performance Assessment
- Assessment of Organizational Maturity based on Criteria and Levels of Maturity
- Concepts for the Progressive Increase in Strategic Performance

Controlling

"Extensive approaches for implementing performance measurement systems to ensure efficient control of resources"

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identify opportunities for efficient performance and the use of full capacity of the organization"

- Indicators and Indicator Types
- Performance Measurement Systems
- Six Sigma and Performance of Improvement Projects
- Modelling Approaches for Causal Relations in Organizations
- Conceptualization of Optimization Projects
- Enhancement of Performance

