Chapter 2

Information Evaluation:
A Scientific and Comprehensive Approach

Armando Malheiro da Silva
University of Porto, Portugal

Fernanda Ribeiro
University of Porto, Portugal

ABSTRACT

Evaluation in the context of information services has mainly looked at three distinct areas: service performance evaluation, information retrieval evaluation, and information flow evaluation. This last area, especially used in archives and designated as “appraisal,” aims to define the information’s fate after several years of use, and its purpose is to eliminate documents in order to free space in the stacks. This study provides a brief overview of the two first areas and analyzes the third one in depth from a perspective that sees evaluation as a methodological operation that can be applied to information produced and used in any context. Criteria and parameters are proposed to assist with objective action in practice.

1. DEFINING THE SUBJECT:
PRELIMINARY CONSIDERATIONS

A simplistic and objective definition of the term “evaluation” found in any ordinary dictionary indicates a very concise meaning, that is, “value attribution”. Obviously, to achieve the valuation of something we need to know what is meant by “value”, to understand the context in which that same value is determined and to undertake a series of actions that lead to the desired result, assuming a previous process of analysis. The glossary on “value analysis”, published by the European Commission under the Program SPRINT (European Community Programme for Innovation and Technology Transfer), is a useful tool for evaluation, since it fixes and defines general terminology and basic concepts, and is operatively valid for the topic of this text. Thus, value is defined as the “ratio of the contribution from one function to the
This definition incorporates the sense of action to achieve a result, a meaning that is close to the perspective that we advocate for the concept of evaluation explained: a methodological operation.

Placing evaluation procedures in the field of Information Science (IS), we found that there has been a scattering of criteria and parameters associated with practices and which are contained in different, fragmented approaches to Information and its Services. Despite this generalized dispersion, some authors advocate broader positions, assuming that any aspect of the operation of an information system as an organic entity is liable to be assessed. Illustrating this approach we have an interesting work by Tom Wilson, which responds to the question *What can we evaluate?* as follows:

*The answer to the question “What can we evaluate?” is very simple: any aspect of organizational functioning can be subject to evaluation. Thus, we can evaluate:*

- The way the management structure functions;
- Internal operations relating to information materials, such as cataloguing and classification, indexing, etc.;
- Library/information services to users;
- New programmes of service delivery;
- New possibilities for technological support to services;
- Alternative possibilities for doing anything;
- The functioning of a total system prior to planning change; etc.

To overcome the differences and multiplicity of criteria and assimilate the many facets that can be considered for evaluation, we need a rational and integrated strategy. We can focus on three major areas of specific application, and so evaluation can thus focus on:

1. Information Services (typically diluted in the notion of system) performance, an approach built up over decades and quite extensive in the provision of a functional offer of quality of Libraries, Documentation Centres and Information Services;
2. The “fineness”, i.e. the effectiveness and efficiency of information retrieval, provided by inventories, catalogues, databases - in fact all the findings aids providing access to information, which we can designate generically as “indexes”;
3. The flow of information from any type of entity or organization, since it is organically produced/received and accumulated, that is, during and through the effect of an activity designed to save continuous “informational segments” and to eliminate those that do not need, objectively, to be kept in present and future memory, condensing and blocking it.

This methodological division into three major areas results from a systematization that we intended to do after a survey, by way of sampling, considering all kinds of studies that focus on the issue of evaluation, in the broad sense. An Internet search on the term *evaluation of libraries* yielded 772 references, analysis of which revealed a considerable precision of the retrieved information.

However, it is not always possible to fit all the studies identified either on the Internet or in bibliographic databases in one of three areas defined. It often happens that certain approaches to the issue of evaluation focus on research variables which may be included in more than one of those areas. For example, multiple studies relating to informational behaviour are addressed either through the prism of the flow/use of information (area 3), or focus on the issues of information retrieval and effectiveness of finding aids (area 2). Similarly, another segment of studies relating to acquisition policy and the constitution of collections in libraries/documentation centres, can be inserted in the evaluation of the performance of...
Related Content

The Value of Information and Information Services in Knowledge Society
Maria Beatriz Marques (2014). Rethinking the Conceptual Base for New Practical Applications in Information Value and Quality (pp. 134-161).
www.igi-global.com/chapter/the-value-of-information-and-information-services-in-knowledge-society/84216?camid=4v1a

Assessing Mass Consumer Information Quality Requirements Using Conjoint Analysis
Elizabeth M. Pierce (2007). Challenges of Managing Information Quality in Service Organizations (pp. 77-98).
www.igi-global.com/chapter/assessing-mass-consumer-information-quality/6543?camid=4v1a

ERP Quality: Do Individuals Matter?
www.igi-global.com/chapter/erp-quality-individuals-matter/26172?camid=4v1a

Evidence-Based HR-Mediated Innovative Quality Management Practices: A Study on Two SMEs of India
www.igi-global.com/chapter/evidence-based-hr-mediated-innovative-quality-management-practices/96670?camid=4v1a