Measuring impact and outcome

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Do we make a difference? The challenge to prove it



Definitions

input

output

impact

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value

benefit

a contribution of work, information, or material

the amount produced, the results supplied

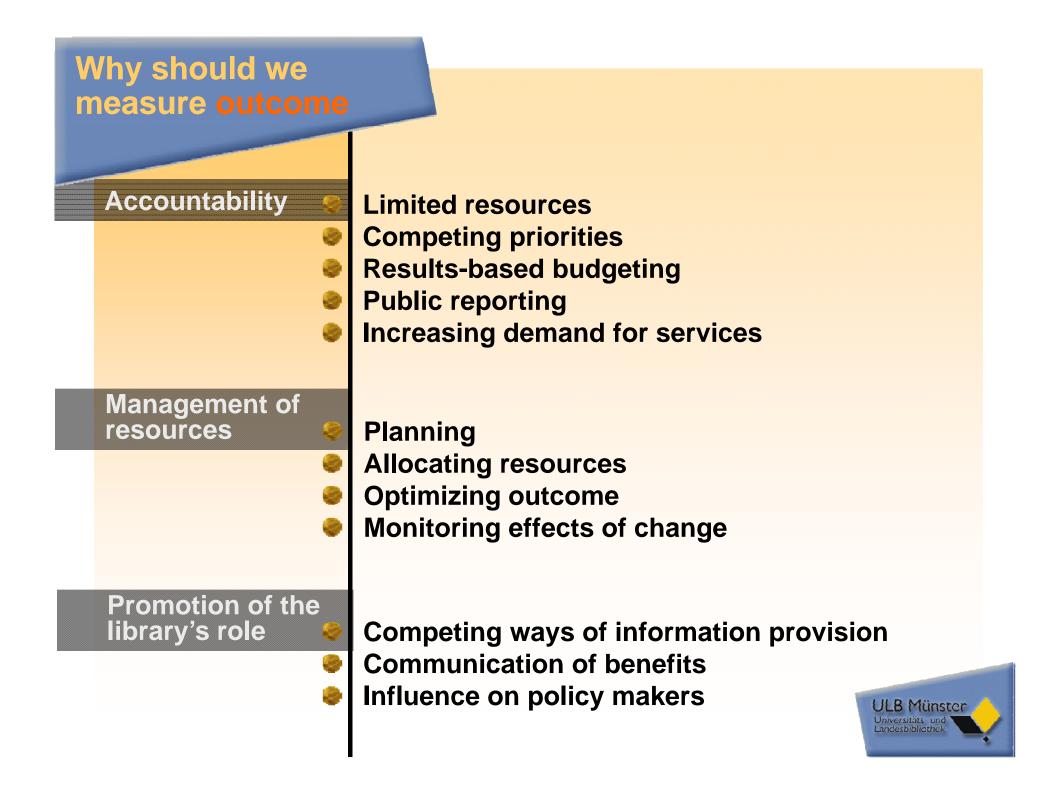
the effect or influence of one person, thing, or action, on another

the consequence, visible or practical result or effect of an event or activity

the importance or preciousness of something, the perception of actual or potential benefit

a helpful and useful effect that something has





The data libraries statistics present today ... Input Income / expenditure Collection size / additions Number of staff Study places / PC's **Cataloguing data** Loans / in-house use Output Reference transactions ILL / document delivery **User training lessons** Attendances at events / exhibitions Amount of services / media / facilities offered **Amount of use** Did users benefit? Usage is not synonymous with value **ULB** Münster

The data libraries performance measures present Input/Use **Collection turnover Use rate of PC-places** Costs/Use Cost per loan Cost per session (on an electronic resource) Use/ **Population** Library visits per capita Loans per capita **Processes Book processing speed Correct shelving** Reference fill rate Benefits? **Quality of services Efficiency of services**

Outcome of libraries

"Outcome affecting

direct/immediate

positive

actual

intended

Different outcomes

negative

long-term

potential

unexpected

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Outcome of libraries

the stakeholders

- Actual users
- Potential users
- Financing authorities
- Politicians
- Library staff
- The public

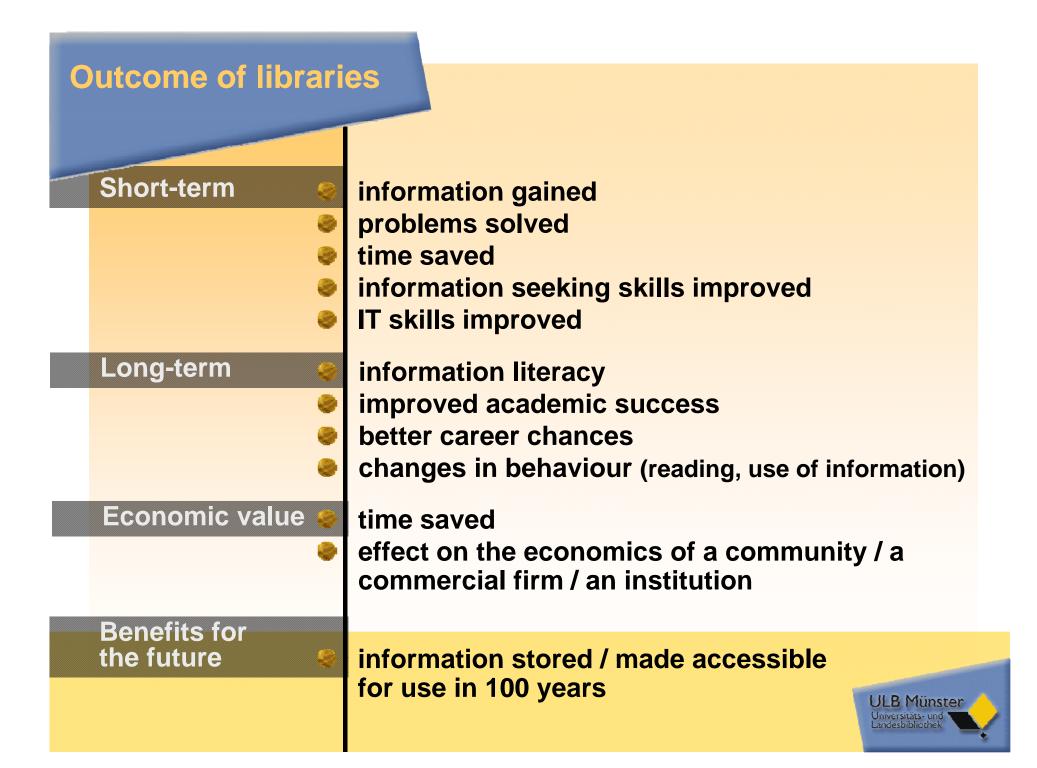


What libraries are meant to effect

- Knowledge
- Information literacy
- Democracy
- Social inclusion
- Local identity
- Lifelong learning
- Individual well-being

Changes in skills, behaviour, knowledge, attitudes





Problems of ,measuring' outcome

- Benefits may vary as to user groups
- Values may be seen differently
- Data are not consistent (differing ways of collection)
- All tested methods are time-consuming
- Influences on users are complex:
 Can we trace improvement back to library services?
- We may have to use surrogate measures



Outcome compared to traditional data

Input **Performance Output** Outcome collection size issues collection factual knowledge turnover staff at reference reference reference fill conceptual knowledge transactions desk rate promotion resources spent hours of user attendances training of academic / on user training per capita pro-fessional success information skills user satisfaction? **ULB** Münster

User satisfaction

"Satisfaction on the part of a user is an outcome. So is dissatisfaction" ACRL

"Customer satisfaction ... is neither outcome nor output. Rather, it is a qualitative assessment of library outputs."

Jennifer Cram

- Previous experience affects the perception
- Loyalty influences the answers
- Users may be satisfied without any tangible benefits

Qualitative performance indicator?



Possible methods to measure outcome

Financial value

Assessing the market value or proxy price of the library's services or a single service

Social impact

Assessing the imputed value of the library by social audits

Information literacy

Assessing the impact of library use and user training on the users' information skills

Academic / professional success

Assessing the relation of academic / professional success (duration of studies, examination results, papers published) to the use of library services



Financial value Actual or potential benefits to users quantified in money "Proxy prices" (shadow prices) = prices that would be paid for a service the library offers in the market **Evidence of libraries directly affecting** the economics of their institution / community Costs of a service as determined in a cost analysis To show return on investment IJI B Münster

Financial value

Replacement value of a client's time

"The value that users place on library services must be at least as great as their sacrifice in accessing and using them".

Glen Holt

Example:

Parliamentary Library New Zealand
"Time costs" were compared with purchase
costs of the assets used to provide a service

Result:

Services had a value between two and twenty times the annual budgets



Financial value

Contingent valuation

Willingness-to-pay

What would users be willing to pay for a certain service?

Willingness-to-accept = What sum would users accept as equivalent for giving up a certain library service?

Example:

St. Louis Public Library Services

 Market price assessed for each service (as far as possible)

Telephone survey, focus groups, interviews

Result:

9 \$ Dollar payback to every 1 \$ in current WTA:

taxes if I agree to close all libraries

WTP: 1 \$ paid more to every 1 \$ if all

libraries are kept open



Financial value

Proxy prices

What price for a reference transaction done by a commercial firm?

What prices for lending books / media from commercial suppliers?

Consumer surplus

Value that users place on the consumption of a service in excess to what they "pay" to get them (time, travelling)

St. Louis Public Library Services got a surplus 3:1

All methods

Example:

want to show that libraries do not only create immaterial "value", but that a market value can be proved, and that there is a return on investment.

PROBLEM) Would users indeed pay such a sum?

Interested stakeholders

- Financing authorities
- Public



Social impact

Preciousness of library services

- for the individual (direct benefit)
- for the population (indirect benefit)

Methods

- interviews (e. g. "street surveys")
- questionnaires
- telephone surveys
- focus groups

connected with questions as to

- sociodemographic data (age, gender, ethnic origin, income, employment status, academic status)
- frequency of library use



Social impact

Functions of the library that were deemed most important:

- children's literacy
- establishing reading habits
- leisure reading
- cultural meeting point
- access to information
- help in finding information
- job and training information

Direct benefit – potential benefit: Different views of users / non-users



Subjective assessment often anecdotal evidence

Interested stakeholders

- **Politicians**
- Public
- Management



- Assessing the library's role in conveying information skills and competences
 - Assessing the library's actual and potential role for information seeking

Impact of library use and training

- Outcome based education
- Accreditation models
- Standard (ACRL)

Methods used:

Surveys after instruction ("reaction data")

- Assessing the quality of bibliographies / papers
- Self-assessment of users
- Behavioural observation
- Test pretests / posttests
 - basic skills
 - conceptual knowledge (e. g. critical reading)

Additional data: - faculty

- term, grade
- frequency of library use

Example of a "mini-quiz"

Students

- are aware of options to get material not available locally
- can recognise a Web address, a book citation, a serial citation, and a call number
- know how to use the operators AND and OR
- know the difference between primary and secondary sources
- know the difference between popular and scholarly journals
- think library skills will be useful in their chosen profession.



User surveys after a training lesson focus on user satisfaction, not on outcome, and might be complimentary

Self-assessment not reliable

- 90 % of students rated their library skills as adequate
- 53 % were "minimally competent"

Danger to rely on attitudes / opinions

Difficulty to trace skills / competences back to the library

Interested stakeholders

- users
- staff
- institution / community



- Information seeking behaviour
- New ways of communication
- Information channels outside the library

What part of information seeking and provision is done via libraries?

Where could libraries step in?

What role do they have as to certain subjects / professions? (chemists, psychologists, nurses, teachers)

Example:

German special collection programme (DFG) **Evaluated from the user perspective**

5 subjects: English studies, economics, biology, history, mechanical engineering

Survey of 5000 academics as to:

- information seeking ways
- procuring documents
- problems, expectations

PROBLEM Indirect way to prove outcome

Interested stakeholders

- Users
- Management
- Institution
- Financing authorities

Academic / professional success Success Library use Good exams Average time per week spent on using the library short duration of studies Number of books borrowed Quick employment after - core material finishing education - special material **Highly reputed publications** Use of reference desk (citation impact) Attendance at user training How to get the data? automated system Library use user diaries questionnaire, interview Exams, duration of studies, university records employment level **citation** index citation impact

Academic / professional success

Advantage:

Mostly not relying on attitudes, but on concrete data.

PROBLEM

Data for individual users might be hard to obtain

A positive correlation does not prove that the success is due to the library

Interested stakeholders

- Users
- Institution
- Financing authorities
- Management

Measuring outcome needs users' cooperation

They are asked

- to rate their benefits / failures after the visit / use
- to rank library products and services
- to put a financial value on services
- to rate their own skills and competences
- to participate in tests
- to agree giving private data for evaluation programmes

In addition, data about users are collected

- from the automated system
- from attendance lists
- from institutional records.



The way to go

Definition of mission and goals

quality

What outcome is expected?

Collection of input data

Assessent Sea What is provided by the library market

Costs

Chief College Strong What money expected the services offered?

What Use is made of the services offered?

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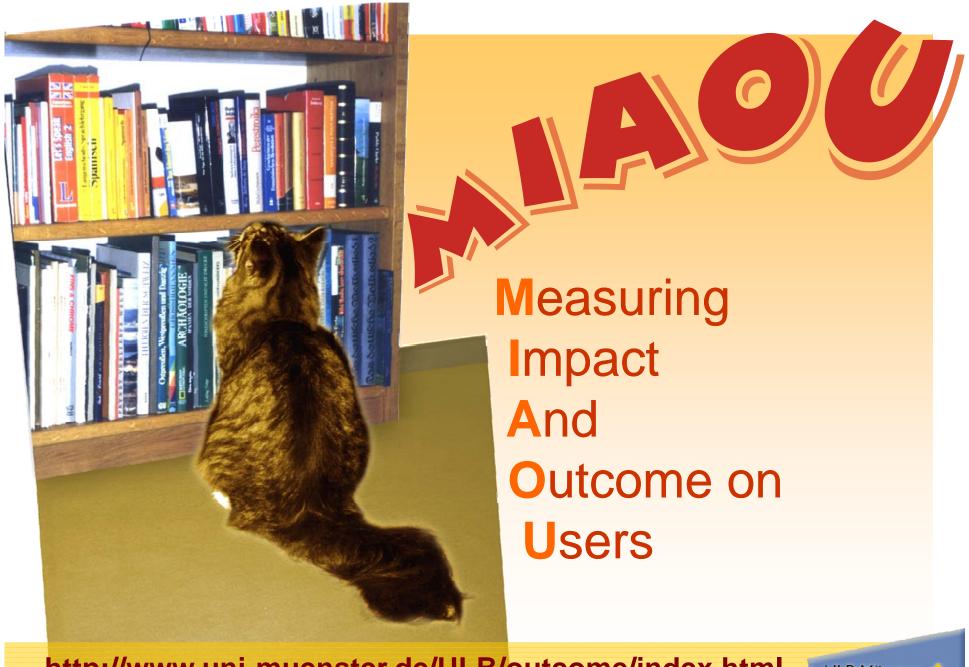
In how far does the self-ormance of the library render outcome possible?

- Large input / good performance may give the basis for high outcome
- Intensity of use seems to indicate realised benefits

Outcome

Is there an impact on people's lives? Can we prove it?





http://www.uni-muenster.de/ULB/outcome/index.html

