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Why should we standardize the measures?

What standards ensure (ISO)



What library standards want to achieve

- to spread the knowledge about existing tested methods and practices
- to standardize
 - terminology and definitions
 - methods of data collection
 - methods of analyzing the data

with the aim of comparing and aggregating results

ISO Technical Information and documentation

Subcommittee 8: Quality, statistics and

performance evaluation

WG 2: International library statistics

ISO DIS 2789 (2005) International library statistics 3nd revision

WG 4: Performance indicators for libraries

- ISO 11620 (1998) Library performance indicators Amendment 1 (2003)
- ISO TR 20983 (2003) Performance indicators for electronic library services
- Integration of the standards. ISO CD 11620 coming

WG 5: Price indexes

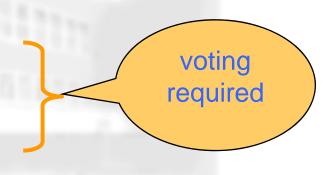
ISO DIS 9230 (2005) Determination of price indexes for books and serials

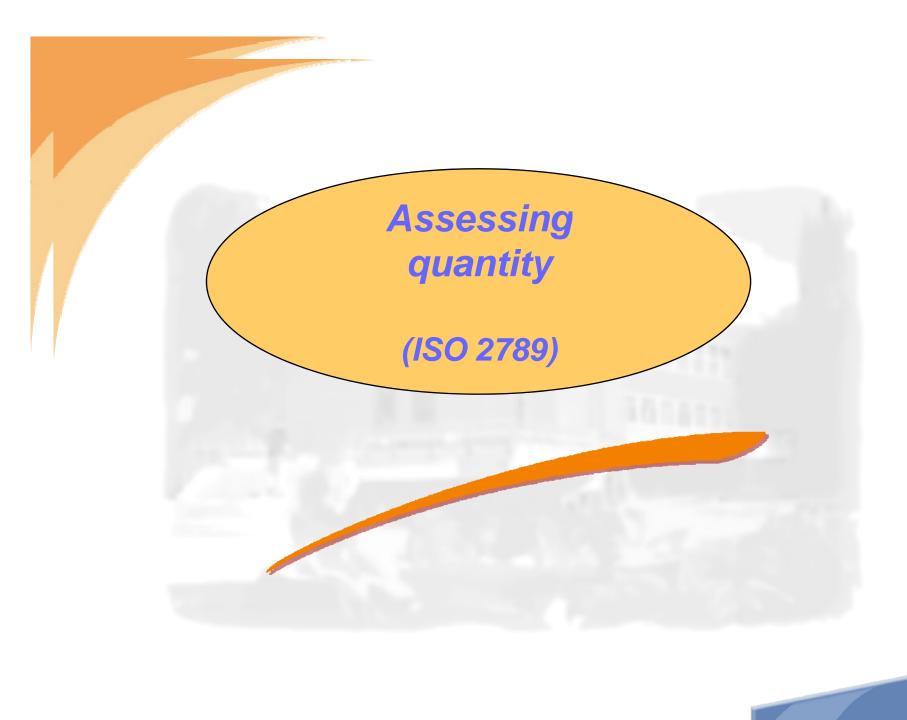
WG 6: Statistics on the production of books

ISO CD 9707 (2005) Statistics on the production and distribution of books, newspapers, periodicals and electronic publications

Stages of an ISO standard

- Approved New Work Item
- Working Draft
- Committee Draft (CD)
- Draft International Standard (DIS)
- Final Draft International Standard (FDIS)
- Standard

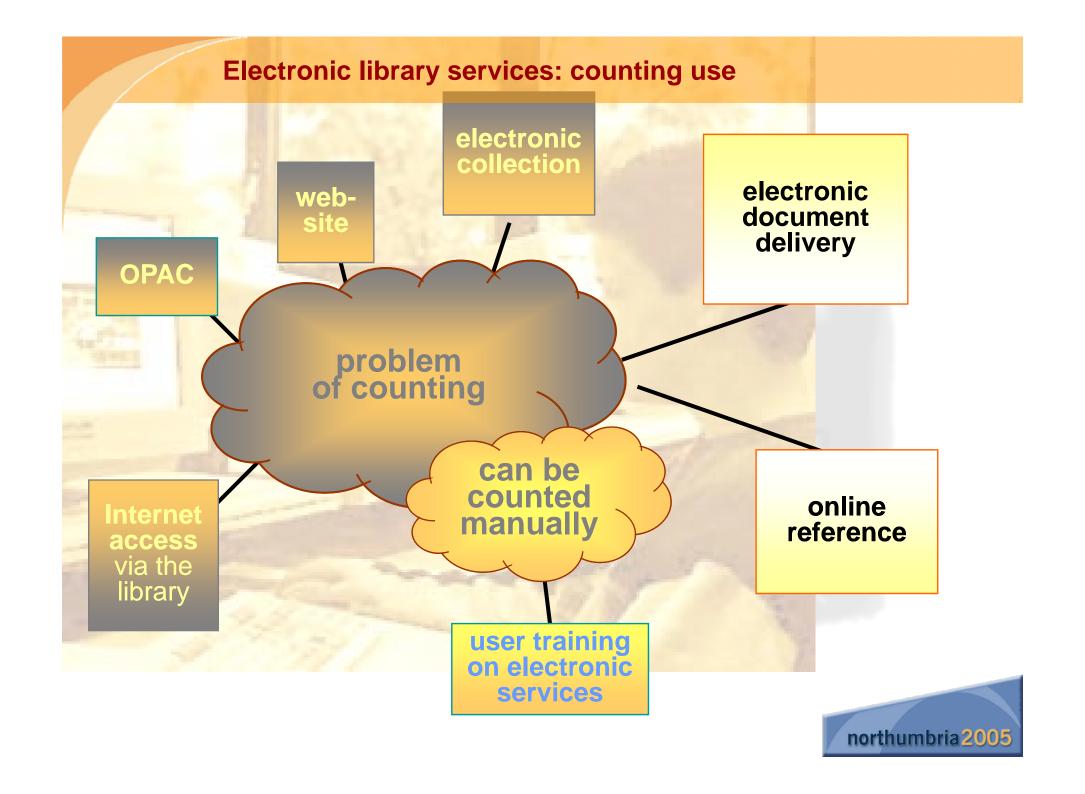


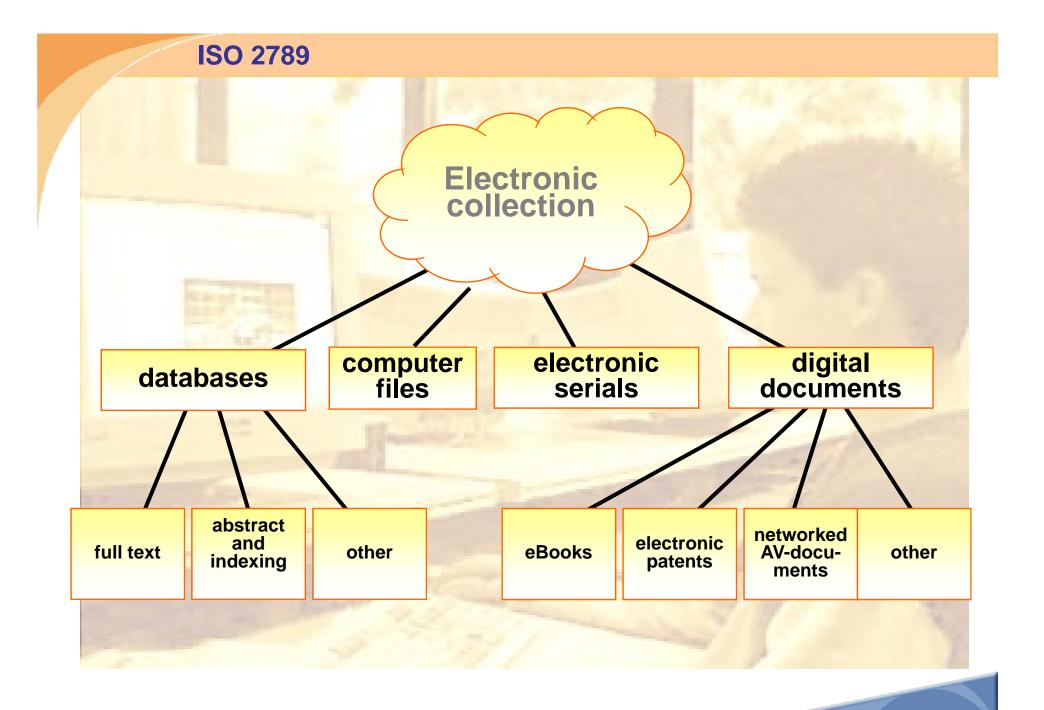


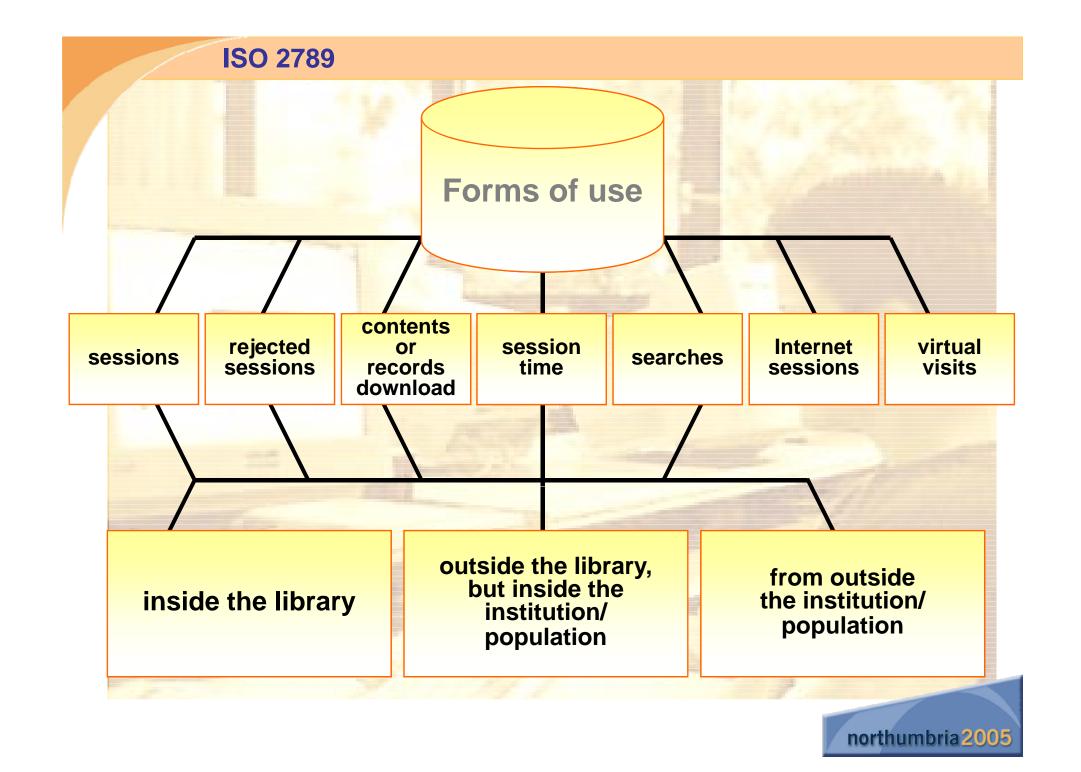
Assessing quantity
(ISO 2789)

In terms of

- collection size
- number and type of users
- use of services
- staff
- space
- equipment
- training







ISO 2789: definitions of use forms

search

specific intellectual query

session

successful request of a database or the online catalogue

rejected session

unsuccessful request exceeding the simultaneous user limit

session time

period between log-in and implicit or explicit log-off

contents downloaded

content unit being successfully requested

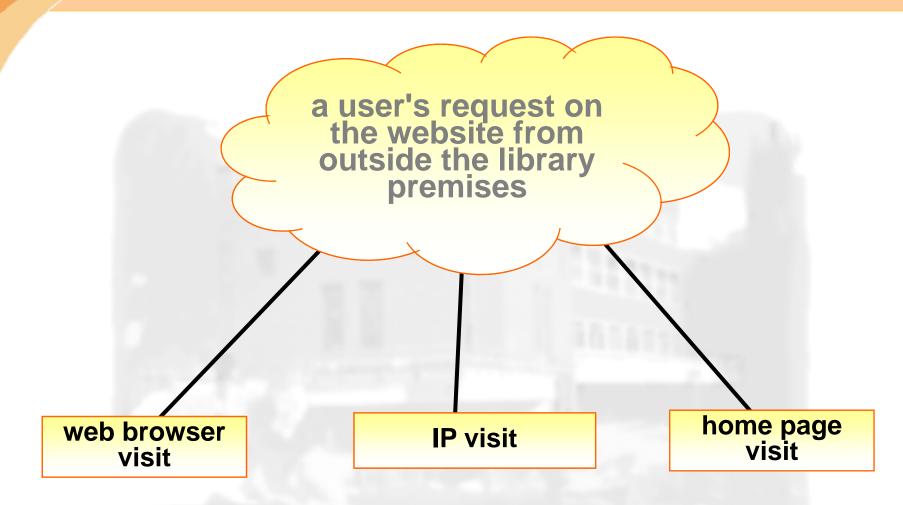
records downloaded

descriptive record being successfully requested

Internet sessions

Internet access by a user from inside the library

ISO 2789: virtual visits



ISO 2789: Open questions

- collecting data of electronic collections and services is not yet frequent in Boundaries of electronic resour "The physical boundaries, e correspond to the "correspond" multiple files Multimedia res stand alone as a single resourd
- Tracking usage of library linked free resources

Libraries until now in most cases do not assess, whether links have been followed. In ISO 2789 only optional.



Assessing quality
(ISO 11620)

In terms of

- performance
- features
- reliability
- conformance
- durability
- currency
- serviceability
- aesthetics

- usability/accessability
- competence
- responsiveness
- communication
- speed
- variety of services
- perceived quality

ISO 11620: Library performance indicators

New structure: Balanced scorecard

- resources, access, infrastructure
- use
- efficiency
- potentials and development

Indicators for traditional services

resources, access, infrastructure

use

efficiency

potentials, development

- shelving accuracy
- median time of document delivery from closed stacks
- collection turnover
- loans per capita
- in-library use per capita

• cost per loan



Indicators for "hybrid" services

resources, access, infrastructure

use

efficiency

potentials, development

- percentage of required titles in the collection
- speed of interlibrary lending
- library visits per capita (including virtual visits)
- user attendances at training lessons per capita
- percentage of population reached
- user satisfaction
- cost per library visit
- cost per user
- median time of document acquisition
- median time of document processing
- correct answer fill rate
- attendances at training lessons per staff member

Indicators for electronic services

resources, access, infrastructure

use

efficiency

potentials, development

- percentage of rejected sessions
- public access workstations per capita
- number of content units downloaded per capita
- percentage of information requests submitted electronically
- workstation use rate
- cost per database session
- cost per content unit downloaded
- percentage of expenditure on information provision spent on the electronic collection
- percentage of library staff providing and developing electronic services



- staff per capita
- employee productivity in media processing

financing the library

- ratio of acquisitions expenditure to staff costs
- percentage of library means received by special grants or income generation
- percentage of institutional means allocated to the library

northumbria 2005

ISO 11620: problems

Combining traditional and electronic services in one indicator

reasons for

to giv

• to ma

but:

• a website visit is no

walk-in visit

• a download is no loan

nal service

No indicators as yet for:

- website quality
- the library's link collections

Possible performance indicators for website quality

Percentage of successful searches	online survey, interview after search, tests, observation
Number of clicks necessary to find a specified information	tests, cognitive walk-through, proxy users
Percentage of important issues accessible via the homepage	cognitive walk-through
Number of pages not visited during a specified time	log analysis

what ISO 11620 has so far:

Number of website visits per	log analysis
capita (data in: library visits per capita)	



Possible performance indicator for links on the library' website

number of times links are followed





Assessing impact/outcome

In terms of

- knowledge
- changes in skills, competences, attitudes, behaviour

 - individual well-being



Use statistics as measures of impact

- electronic media
 - frequency of use

Users are familiar with the use of electronic resources channel services

yches, downloads)

online delivery)

services

number of new users

chan

- that had not used the library
- that had not used the same service in traditional form
- percentage of the primary user group using Eservices

2 Qualitative measures

- Asking users (print or online surveys, focus groups, interviews)
 - What knowledge have they of library services?
 - How do they u of use)?

Exit surveys most useful

- Did they find the sorri
- Had they problems:
- Did they find training sessions useful?
- Have they improved their skills by using library services? (self-assessment)

2 Qualitative measures

- Asking academic teachers
 - Do library services support teaching and research?
 - Do they encourage services?
 - For what purpose

anecdotal veridence

vices?

- Asking library staff
 - Change of user skills after training on specified services?
 - What help do users need for what service?



Quantitative measures: tests, observation, data mining...

- tests: can assess user skills before and after training on a service
- performance monitoring / data mining: can document changes in searching
- "mystery shoppers": can report on failures or success and on improvements they perceived in their skills
- analysis of documents and bibliographies compiled by users: Is there a change in
 - resources used
 - accuracy of citations
 - number of E-resources cited?

Indicators for impact/outcome

Information literacy

Skills /competences improved after training

Correlation of library teaching attendances to student retention rate

Surveys Tests

Survey

Importance of the local library

Estimation of the importance

Survey

Percentage of citations in publications in the local library collection

Manual counts / survey

Academic or professional success

Correlation of library services use to success

Use counts / Success data

Correlation of library services use to number/citation of publications

Use counts / Citation index

Indicators for impact/outcome

Social inclusion

- Skills /competences acquired via library services
- Percentage of potential users in a group using library services after promotion activities (groups specified as to ethnic origin, age, employment status...)

Surveys Tests

User structure data Surveys

Financial value of library services

Estimation of time saved

Willingness-to-pay

Surveys

Surveys

Standardization of impact measures?

- projects still on the way
- IFLA Section Statistics and Evaluation has instituted a working group
- Bibliography of projects and literature:

http://www.ulb.uni-muenster.de/outcome

Standardized measures for the changing information environment can show

- the impact of the changing environment on the library
 - changes in types of information resources used
 - changes in the structure of information users
 - changes in information seeking ways
- the importance of the library in the changing environment for
 - social inclusion
 - information literacy
 - propagation of new information resources
 - direct, effective, and time-saving access to information

The changing information environment

The most incisive change that ever happened?

changes 1950 to 1980

- impossible: the opening of the stacks
 - free access
 - self-service borrowing and returning
- dangerous for books and readers: the copying machines

open, user-friendly, efficient, more resouces available: we are going the same way now

ownage room saved

- fatal for the holy catalogue: copy cataloguing
 - minimizing effort
 - sharing experience

No matter how much the world changes, cats will never lay eggs.



Bambara Proverb