Time will tell how to measure the impact of the PN

How do we find out what impact the People’s Network is having on people’s lives? Margaret Kendall and Jenny Craven look at recent evaluation research and guidelines, and introduce the Longitude Toolkit.

Substantial evidence of the success of the People’s Network initiative has been gathered at both local and national levels, in the three years since the deadline was met for the installation of computers in all public libraries. The major evaluation report from the Tavistock Institute found evidence of very heavy use, with many libraries needing to provide booking systems or time limits to control demand at peak periods. The proposed impact measures for 2005/06 will provide firm statistical evidence on the percentage take-up of available ICT time in every library authority in the country.

However, while the House of Commons select committee confirmed the value of the PN and deplored the re-introduction of charges for internet use by some authorities, recommendations for meeting the costs of maintaining and investing further in the initiative were deferred to the relevant government departments and local authorities.

In order to win the arguments for further funding, reliable quantitative and qualitative evidence, gathered over time, will be needed to show the PN has made a difference to people’s lives. In particular, evidence of how it has attracted users from groups at risk of social or digital exclusion will be needed to support the case locally and nationally. Longitudinal research is important because many of the effects of services can only be assessed over a period of time: they depend on either continued interaction or on a range of influences which affect a user.

A toolkit has been developed which provides guidance for public library managers on tried and tested methods of gathering and disseminating information on the impact of electronic services on individuals and groups.

Related research and guidelines

Since 1997, the Public Access Computing Project at the University of Washington has carried out a series of evaluation research projects on the effectiveness of the US Library Program, instituted by the Bill and Melinda Gates Foundation. They found that for many people on a low income or unemployed the public library was their only access point to computers and the internet.

They also discovered that there was much higher reliance on libraries for access to computers by African American and Native American communities, and that public access computing has had a significant impact on the visibility and reputation of libraries serving rural communities. An earlier research project by Cerlim, the Vital project, developed and tested a toolkit of questionnaire and interview schedules for users and non-users to enable similar ‘snapshots’ of impact to be assessed.

Such snapshot research projects may provide useful indicators, not only of increased use by people from groups previously under-represented among public library users, but also of a need for more proactive promotion of the services to those not yet included.

Maybury found that the internet user profile at Chester was dominated by the younger adult age groups and those involved in active employment, with the majority of her 78 questionnaire respondents (61 per cent) having heard about the internet facilities through the library itself.

Muddiman et al identified the need for ICT and networking developments which actively focus on the needs of excluded people (p.58) in order to avoid resourcing strategies reproducing patterns of favouring existing library users. Their finding that only around a third of public library authorities in their sample carried out community profiling as a basis for service planning was startling and perhaps indicated the extent to which funding cuts in the late 1980s and 1990s had led to false economies.

The reassertion of the importance of community profiling in the Museums, Libraries & Archives Council’s proposed impact measures will redress this and help authorities identify needs for more proactive promotion to specific target groups. Combining local statistics identifying the extent of use of the PN computers with data from community profiling will make the results more meaningful.

The Tavistock Institute aimed to identify good practice in promoting social inclusion through its selection of 16 case study library authorities. For example, Bradford was selected for its work with Black and minority ethnic communities and Bournemouth for its work with older people. Each case study involved two periods of data collection 12 months apart and included interviews with library staff, two focus groups with users and staff, an observational study and a log book recording instances of user benefits and outcomes.

While acknowledging that the case studies were not necessarily representative of the 210 library services across the UK, it concluded that, from the evidence collected, the People’s Network had been successful in broadening the library’s user base, attracting new users to public libraries including teenagers, unemployed people, asylum seekers, refugees and disabled people. It identifies challenges for public libraries in moving towards a view of ICT as an empowering tool, helping...
citizens to produce and distribute as well as to consume and receive. Sharp describes recent developments in e-services in Leeds Libraries, including the provision of software and resources for speakers of English as a second language as part of the PN service and support for the development of community websites. Longitudinal evaluation of measures to include target groups and new services will be essential.

The Longitude II Project (November 2002 to July 2004) built on previous work (e.g. Vital and Longitude I). It was designed to develop longitudinal survey methods which contribute to an understanding of user needs and behaviour, with a particular focus on public libraries and the PN. The purpose was to show how qualitative and quantitative data collection methods can be combined to evaluate the impact of IT-based services in public libraries on individuals and groups over time.

Based on the experience gained in the project’s operational settings, a web-based toolkit has been developed, which defines the recommended indicators, specifying both the data collection methodology and the methodologies for analysing results, and advising on presentation. It is presented as an introductory web page of explanation for newcomers, with a definitive guidance document which can be downloaded from the web.

**Data collection methods**

The Longitude II team considered a number of data collection methods for evaluating impact, which could then be tested in a two-phase operation separated by nine months by the two partner library authorities, Birmingham and Cheshire. The following methods were selected:

- Library profiles to provide quantitative and descriptive data, e.g. usage statistics of the sample population. Although these measures will not provide evidence of impact themselves, they can be used to back up or illustrate other data collected. They also have the advantage that they are often readily available and may not require additional effort to collect. Following initial collection, it is not necessary to start from scratch every time the longitudinal evaluation process is conducted. For example, in Phase 2 of the project, both libraries were asked to provide a small amount of extra data to reflect any significant changes in services or in the general environment.
- Demographic data on participants in interviews and focus groups.
- Interview surveys to measure value and impact by asking participants to rate their own attitudes and perceptions using, for example, a Likert scale.
- Illustrations of usage to provide a richer picture of the services and their impact on the users.
- Focus groups to gather evidence of the impact of the library-based IT services to specific groups of users.
- Case studies extracted from both the qualitative and quantitative methods of both data collection exercises.

From the above methods, the partner library authorities selected those most appropriate to their operational setting. For example, Birmingham had some existing groups of users who would be able to take part in focus groups, so decided to adopt this method; Cheshire had already successfully used the interview method in a previous project (Vital). Selection of appropriate methods is an important factor for libraries considering data collection of this type, and for this reason a variety of methods as well as those tested have been included in the toolkit.

Interviews were carried out by Cheshire with a pre-selected sample of subjects at the start of the project. Subjects were randomly selected from a sample of libraries and the interviews took place over a two-month period. A target figure of no less than 50 subjects was set by the project team. It was felt this would provide enough data to illustrate the impact within the timeframe of the project, taking into account that some people would not be available for re-interview in nine months’ time.

Focus groups were facilitated by Birmingham and included a combination of members of existing library groups such as a local history group and a coffee morning group, and individual library members who used the PN facilities. Although in most cases the groups involved in Phase 1 also took part in Phase 2, individual participants were not always the same. However, it was felt that they would represent a similar group of people and therefore retain the longitudinal aspect of the study.

Interview data collected showed opinions relating to the IT facilities in the library had not changed much over the nine-month period, although interestingly, whereas the individual value of IT access dropped, opinions relating to the importance of providing access had risen. Comments from participants confirmed that even where the value for them had diminished they felt in general it was important to provide IT access in the library.

Data gathered on the use of the IT facilities in the library showed that, in general, reasons for use had broadened over the nine-month period. For example, learning a new skill was mentioned by 19 per cent of participants in Phase 1 and by 39 per cent in Phase 2. Accessing government and local authority information was

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**Figure 1: Longitude Toolkit contents**

| 1 Definitions |
| 2 Planning longitudinal impact assessment |
| 3 Collecting your data |
| 4 Sampling methods |
| 5 Analysing your data |
| 6 Using and presenting your data |
| 7 Longitude in context |

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**Figure 2. Advantages and disadvantages of interviews**

| Longitudinal Toolkit: collecting your data |
| Interviews |
| Conducting interviews allows for much greater focus on specific issues and greater flexibility, and this method is often used in conjunction with questionnaires to provide an overall picture and detailed consideration of certain areas of interest. Interviews must be structured first to ensure that like is compared with like. |
| Advantages |
| Provides rich data. |
| Provides an opportunity to explore topics in depth. |
| Allows interviewer to explain questions and probe deeper when necessary. |
| Helps to ensure a good response rate. |
| Disadvantages |
| Can be time-consuming. |
| Interviewer needs to be fairly experienced. |
| Volume of data may be difficult to transcribe and analyse. |
| Respondents may distort data by trying to please interviewer. |

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‘In order to win the arguments for further funding, reliable quantitative and qualitative evidence, gathered over time, will be needed to show the PN has made a difference to people’s lives.’
The focus group data demonstrated how an IT group which met once a week progressed over the nine months, their computer skills and confidence both improving.

The Longitude Toolkit was developed using the tested methods described above, together with other recognised methods for data collection and analysis. The toolkit has a simple front page with links to relevant sections. These can be followed sequentially or topics can be selected randomly according to need. Figures 1 and 2 and 3 show sample web pages from the toolkit.

Each section of the toolkit provides a brief introduction to the topic, together with further instructions, examples and references to further reading. Figures 2 and 3 concern toolkit techniques for collecting data. Figure 2 shows how the toolkit describes the advantages and disadvantages of conducting interviews. Links are provided to further guidance and examples of interview techniques. Figure 3 is guidance notes for observational techniques and a link to an example of an observational protocol.

The Libraries Impact Project has provided evidence of public libraries’ contributions to government priorities for education, children, health and older people.

The methods for quantitative and qualitative data collection tested through pilot projects are freely available and their use is recommended for further longitudinal research at a national level. In a similar way, the Longitude Toolkit provides support in measuring the impact of the People’s Network initiative over time at a local level and can be used alongside tools such as Inspiring Learning for All and the DCMS impact measures.

The government, in its response to the select committee report, sees the roles of public libraries ‘as enablers of access to digital skills and services including e-government, and facilitators of measures to tackle social exclusion, to build communities and develop citizenship’, not as something separate, but as part of their core function. It states: ‘It is crucial that library authorities work up the detail of how they engage with these agendas based on their expert knowledge of local needs.’

References
5 The toolkit was developed from a two-year research project undertaken at Cerlim in partnership with Birmingham City Libraries and Cheshire County Libraries, with funding provided by the MLA (Museums, Libraries and Archives Council).
10 See 3.
14 Inspiring Learning for All MLA (www.mla.gov.uk/action/learnacc/00insplearn.asp).

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The Longitude Toolkit and the Longitude II Project Final Report are available at: www.mla.gov.uk/action/plongitude.asp

Figure 3. Longitude II guidance notes

Longitude Toolkit: collecting your data

1 Devise a system where data can be recorded as unambiguously and faithfully as possible.
2 If you are using video or sound recording equipment, leave plenty of time for set up and testing.
3 Where possible, record observations on the spot, during the event. This may involve devising codes or abbreviations that can be transcribed later.
4 The record must be transcribed shortly afterwards to add detail and substance and to ensure it is understandable.
5 Remember that transcribing a record can often take as long, if not longer, than the original observation.

Example of observation protocol