



OECD Education Working Papers No. 21

Final Report
of the Development
of an International Adult
Learning Module (OECD AL
Module): Recommendations
on Methods, Concepts and
Questions in International
Adult Learning Surveys

Helmut Kuwan,
Ann-Charlotte Larsson

https://dx.doi.org/10.1787/236208471741





Organisation de Coopération et de Développement Économiques Organisation for Economic Co-operation and Development

26-Sep-2008

English - Or. English

DIRECTORATE FOR EDUCATION

FINAL REPORT OF THE DEVELOPMENT OF AN INTERNATIONAL ADULT LEARNING MODULE (OECD AL MODULE)

Recommendations on Methods, Concepts and Questions in International Adult Learning Surveys OECD Education Working Paper No. 21

This report was prepared for the OECD by Helmut Kuwan (Social Research and Consultancy, Munich) in cooperation with Ann-Charlotte Larsson (Statistics Sweden)

Contact: Bo Hansson Email: Bo.Hansson@OECD.org: Tel +33 1 45 24 15 12

Contact: Helmut Kuwan Email: helmut.kuwan@hk-forschung.de; Tel: + 49 89 33 11 97

JT03251354

OECD DIRECTORATE FOR EDUCATION

OECD EDUCATION WORKING PAPERS SERIES

This series is designed to make available to a wider readership selected studies drawing on the work of the OECD Directorate for Education. Authorship is usually collective, but principal writers are named. The papers are generally available only in their original language (English or French) with a short summary available in the other.

Comment on the series is welcome, and should be sent to either edu.contact@oecd.org or the Directorate for Education, 2, rue André Pascal, 75775 Paris CEDEX 16, France.

The opinions expressed in these papers are the sole responsibility of the author(s) and do not necessarily reflect those of the OECD or of the governments of its member countries.

Applications for permission to reproduce or translate all, or part of, this material should be sent to OECD Publishing, rights@oecd.org or by fax 33 1 45 24 99 30.

www.oecd.org/edu/workingpapers

Applications for permission to reproduce or translate all or part of this material should be made to:

Head of Publications Service OECD 2, rue André-Pascal 75775 Paris, CEDEX 16 France

Copyright OECD 2008

ABSTRACT

Policy interest in international surveys on Adult Learning (AL) has increased strongly. AL survey data are used as benchmarks for a country's educational system. However, results of key indicators like participation in learning activities often vary remarkably between different data sources. Stating that these differences are due to varying concepts and methods is not enough. The key question is: Which figures represent reality more appropriately? Therefore, evaluation of survey concepts and methods is crucial for international comparison of Adult Learning.

This report provides guidelines on methodological and conceptual issues. Part one covers *methodological aspects* while part two deals with *concepts*, *definitions and example questions*. Recommendations are based on input from 14 countries.

The methodological section covers *data collection* (telephone vs. f2f-interviews and online surveys); *reference period* (calendar year; recall problems); *target population* (age limit; non-national residents); *sample design* (proxy interviews, random selection of learning activities).

The second part first discusses the *basic concepts of Adult learning* used in the European Adult Education Survey and in non-European countries (e.g. Canada, USA), including *informal learning*. The report then goes on to discuss empirical concepts and questions on *AL participation* and shows how different concepts affect empirical results and recommends example questions for formal, non-formal and informal learning. Other chapters refer to *volume* of AL; *costs* (what can be answered by non-experts?); *providers* of AL (define by teacher or learning location?); *fields* (ISCED, etc.); *obstacles* and *benefits* (which items are more valid?) and *imputation*.

This report will act as a useful resource tool for researchers and policy makers when designing new national AL surveys or when optimising existing surveys. Results are focussed by a summary of conclusions, recommendations and example questions at the end of each section.

RÉSUMÉ

L'intérêt politique envers les enquêtes portant sur la formation des adultes s'est fortement accru. Les données issues des études menées sur ce thème sont utilisées comme mesures de la performance des systèmes éducatifs nationaux. Pourtant, les résultats d'indicateurs clés tels que la participation aux activités de formation varient souvent de façon marquée selon la source des données. Il ne suffit cependant pas d'invoquer les divers concepts et méthodes employés pour expliquer ces variations. En effet, la question clé est la suivante : quels sont les chiffres qui représentent la réalité de la façon la plus appropriée ? Par conséquent, l'évaluation des concepts et méthodes d'enquête s'avère cruciale pour la comparaison internationale des formations des adultes.

Le présent rapport founit des directives sur des questions méthodologiques et conceptuelles. La première partie traite des *aspects méthodologiques*, tandis que la deuxième partie présente les *concepts*, *définitions* et les *exemples de questions*. Les recommandations formulées reposent sur des données fournies par 14 pays.

La section méthodologie couvre la *collecte de données* (par téléphone, par entretiens en personne et par enquêtes sur Internet) ; la *période de référence* (année civile, difficulté des répondants à faire appel à leur mémoire) ; la *population ciblée* (limite d'âge, résidents non-ressortissants) ; et le *plan d'échantillonnage* (entretien par personne interposée, sélection au hasard des activités de formation).

La seconde partie débat des *concepts de base* utilisés dans l'Enquête européenne sur la formation des adultes (*European Adult Education Survey*) et dans le cadre d'autres enquêtes non-européennes (par exemple canadiennes ou américaines), y compris *l'apprentissage informel*. Le rapport aborde ensuite les concepts empiriques et les questions qui concernent *la participation à la formation des adultes*. Les autres chapitres se réfèrent au volume de formation des adultes ; aux coûts (quelles réponses peuvent-elles être apportées par des non experts?) ; aux *fournisseurs* (doit-on les définir selon les enseignants ou selon le lieu des cours?) ; aux *domaines* (CITE, etc.) ; aux *obstacles* et aux *avantages* (quels éléments sont-ils les plus valides?) et à *l'imputation*.

Le présent rapport servira d'outil aux chercheurs et aux décideurs dans l'élaboration de nouvelles enquêtes nationales sur la formation des adultes ou bien dans les efforts d'amélioration des enquêtes existantes. Les résultats sont présentés de façon ciblée dans un résumé des conclusions, des recommandations et des exemples de questions à la fin de chaque section.

TABLE OF CONTENTS

OECD DIE	RECTORATE FOR EDUCATION WORKING PAPER SERIES	2
ABSTRAC	Т	3
RÉSUMÉ		4
1. Pr e	eface: Development of an International Adult Learning Module (OECD AL Modu	ule) —
·	ority issues	
	thodological aspects	
3.1	Method of data collection	
3.2	Reference period	13
3.3	Target population	
3.4	Sample design: Address Random, Random Route and Quota design	
3.5	Random selection of learning activities	
3.6	Carrier surveys	23
3.7	Proxy interviews	24
4. Di	scussion of basic concepts in the European Adult Education Survey	26
4.1	The concept of formal and non-formal education and informal learning	26
4.2	Informal learning and random learning	
5. Pa	rticipation in formal education, non-formal education and informal learning	
5.1	Participation in formal education and training	
5.2	Participation in non-formal education	
5.3	Participation in informal learning	
	olume and costs of Adult Learning	
6.1	Volume	
6.2	Costs	
	oviders and fields of Adult Learning	
7.1	Providers	
7.2	Fields of learning	
	Obstacles and benefits of Adult Learning	
8.1	Concepts and definitions	
8.2	Questions and answer categories	
	Background variables	
9.1 9.2	Overview of background variables	
	A controversial example: Professional situation one year before a survey	
	ACRONYMS USED IN THIS REPORT	
ANNEX 2	REFERENCES	72
ANNEX 3	EXISTING OFCO FOLICATION WORKING PAPERS	73

1. Preface: Development of an International Adult Learning Module (OECD AL Module) – objectives and concept

Objectives, concepts and starting point of the OECD Adult Learning module (OECD AL module) are stated very clearly in the following text taken from the terms of reference of the project:

"In 2001... Network B¹ decided to tackle the severe comparability issues of statistics on continuing education and training through a project called the Network B CET Module Project. After obtaining financial support from 14 countries, Doug Giddings and Helmut Kuwan prepared a report under the guidance of the participating countries. The main objective of the project was to develop a set of guidelines for the development of internationally comparable indicators on CET (continuing education and training)² to be based on data collected via household surveys....

At its meeting in Helsinki, in May 2005, the CET Working Group and the plenary session of Network B approved the decision to produce a Network B final report on the CET Module activity... The document should clearly state the various parameters and content issues for the development of internationally comparable statistics on CET or LLL (life-long-learning)...

The report will take the consultants' final report of the Network B CET Module Project as a starting point (in which many issues about concepts, definitions and methodologies have been examined). Since further developments have taken place internationally, especially with the preparation of the European Adult Education Survey (AES), it is also necessary for the report to integrate the work done in the context of the preparation of the AES (and possibly the lessons from pilot surveys in some countries) and other relevant recent documents such as the Classification of Learning Activities."

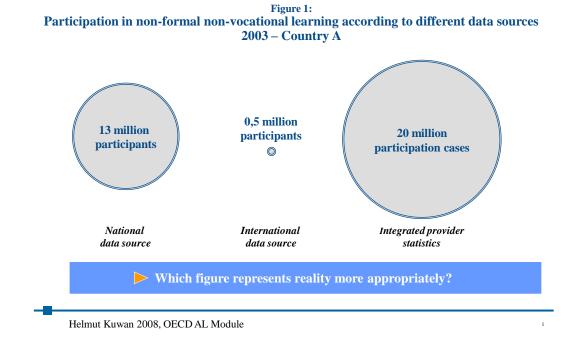
As agreed, the report should provide guidelines for the development of surveys on continuing education and training/lifelong learning or adult learning (AL), which would produce internationally comparable data based on accepted common concepts, definitions and methodologies. Therefore, it should cover the following issues:

Proposed definitions of learning, e.g. formal education, non-formal education and informal learning; the key topic areas to be covered by a survey on adult learning and proposed methods; a review of methodological issues and their proposed resolution; the identification of the characteristics of a national "carrier" survey, for the cases when national surveys are run outside the context of an international project; the development of interpretative guidelines for items of the AL module.

The issues discussed here are not only important for statistical experts, they are also important for educational policy development in general, especially when results are used as benchmarks for a country's educational system. Results of key indicators like participation in learning activities often vary between data sources, and sometimes these differences are quite remarkable. Picture 1 illustrates this problem in an example based on real data sources.

Network B develops indicators of social and economic outcomes of education for the OECD's project International Indicators of Education Systems (INES) The INES Project responds to the needs of countries for information and indicators that allow comparisons of the performance of education systems and better assessment and monitoring of the effectiveness of education systems.

When used first acronyms are spelled out in the text. Furthermore, there is a list of acronyms in Annex 1.



This example may illustrate why the dimension of the problem is not merely a statistical one. It is very likely that different results will evoke different conclusions for educational policy. Therefore, statistical discussions should go beyond the point of stating that differences are due to varying concepts and methods and try to find clues for a rating of concepts and methods. When results vary strongly between different data sources, one of the key questions³ from a political point of view simply is: Which figure represents reality more appropriately? ⁴

Varying results between different surveys may be caused by:

- Methodological differences in design or realisation of a survey;
- The use of varying concepts and definitions.

Accordingly, the report consists of two main parts. Part one covers methodological aspects while part two deals with concepts, definitions and example questions. Two aspects are particularly important:

- The report aims at recommendations, not descriptions. It tries to state which concepts are better than others and why;
- The report deals with content issues and methodological issues.

Other important questions for policy makers are: What is the policy question that needs to be addressed? What measure best approximates information that is needed to answer the question? Are existing measures sufficiently accurate and reliable to answer the question?

In this example, integrated provider statistics indicate that this is the national data source, even though the indicators used in the data sources are not strictly the same (participants and participation cases).

EDU/WKP(2008)8

At the end of each section of this report, a graph or a short summary is given ("conclusions"). This summary addresses important conclusions and recommendations referring to the issues addressed in the chapter.

This report not only follows the work done by Doug Giddings and Helmut Kuwan, it also uses input from Ann-Charlotte Larsson from Statistics Sweden. Very helpful input to this report was given by Alistair Nolan, Bo Hansson and Fionnuala Canning (OECD), Christiane Krüger-Hemmer (Statistical Office Germany), Patrice de Broucker (Statistics Canada), Lisa Hudson (US Department of Education) and the email discussion group of the financing countries. Special thanks go to Chris Chapman (US Department of Education) for a very inspiring review of the report and to Andrea Reupold (University of Munich) for investigating and structuring a wide range of material.

Following developments in recent years, the title of this report was changed from OECD CET Module to OECD Adult Learning Module (OECD AL module).

The author of the OECD AL module report is Helmut Kuwan.

2. Priority issues

The decisions on the priority of topics in an AL survey should also take into account policy interest and statistical feasibility. In phase 1 of the OECD-module-project, much effort was put on identifying priority issues (see Giddings / Kuwan 2002, p. 25ff.) Decisions made in the EU AES and feedback from members of INES Network B helped to update these priorities.

Based on this information a proposal for a set of priority issues was presented at the Network B Plenary meeting in Washington on March 7th, 2006. The proposal included a design for a core and an additional part of the OECD AL module and presented priority issues for both parts of the module.

In Washington, members of Network B supported the idea of designing a core and an additional part of the OECD module. All priority ratings in the core module and most ratings of the additional module were confirmed.

Figure 2: Core issues of the OECD AL module

- ★ Participation in learning activities (formal, non-formal, informal)
- ★ Purpose (job-related and personal interest)
- ★ Volume (formal and non-formal learning only)
- ★ Costs (formal and non-formal learning only)
- ★ Fields of learning
- * Providers
- ★ Obstacles and incentives

Helmut Kuwan 2008, OECD AL Module

Figure 3: Examples of additional priority issues in an OECD AL module

In priority order of examination

- ★ Possibly record for each activity:
 - ▶ Output, credentials
 - ▶ Quality (satisfaction?)
 - ▶ Methods of delivery (including distance learning)
 - ► [Skills self-report]
- **★** Outcomes
- ★ Changes in the workplace
- ★ Company's learning environment: Encouraging or inhibitory?
- **★** Learning preferences
- ★ Private learning environment

Helmut Kuwan 2008, OECD AL Module

3. Methodological aspects

3.1 Method of data collection

Various methods of gathering data are used in AL surveys including face-to-face interviews (f2f-interviews), telephone interviews and mail surveys. More recently, online-surveys have increased. Determining the method that will yield the most valid results is a fundamental issue when designing international AL-surveys.

At first sight, online-surveys seem to be an attractive option because of their low costs but presently they will not lead to representative population samples in any of the countries concerned.⁵ The reason for this is simply that a considerable part of the population does not use the internet. Internet users differ significantly from the total adult population with regard to a variety of important variables like age, educational level, etc.

Designing a stratified online sample in which the stratified criteria represent exactly the total population does not solve this problem, nor would ex-post-weighing procedures because variables not included in the stratifying or weighing procedures still may differ considerably. In the long-run online-surveys may become an interesting option, if the structure of online samples and the total population become very similar and other criteria are also met ⁶

In mail interviews, it is not possible to control whether the target person or another person fills in the questionnaire. Therefore, only telephone-interviews and face-to-face-interviews (f2f-interviews) are considered serious options for an AL survey.

With regard to company samples or specific "internet-related" sub-groups this may be different.

In addition to the structures of the online users and those of the population, response rates and data validity of online-surveys have to be checked, too.

One necessary condition for conducting a representative telephone survey is that the share of households without a telephone is "small". For an international AL Survey conducted by telephone it would be helpful to define a cut-off limit stating the share of households without a telephone in the population below which this method is unacceptable. Methodologically, no exact figure for a cut-off limit can be fixed. The author considers a rate of 5% or less of households without a telephone to be acceptable whereas a rate of 10% or higher would be too high.

Random digit dialling requires a conventional telephone network. If cellular phones increasingly become the only telephone extension of a household, this may seriously affect the validity of data from telephone interviews.⁷

One main difference between telephone and f2f-interviews is the possibility to give visual support in f2f-interviews to help respondents to answer complex questions. Although this is not possible in telephone interviews, it is generally agreed that most questions and answers can be "translated". So far, no information is available on whether slightly different wordings in telephone and f2f-interviews affect the results, but it is known from pre-tests and cognitive research that minor changes in wording may make a difference.

In interviews, experts from survey institutes sometimes refer to unpublished knowledge based on practical experience ("tacit knowledge").⁸ An effect based on tacit knowledge reported to the author is that there may be an influence on the response rates and the results of a telephone survey if a direct reference to the AL-topic is given to the household already in the contact phase of the interview. This reference in the introduction tends to encourage active learners to participate in the interview and to discourage people with few or no learning activities. This effect can easily be avoided by describing the survey topic in a more general way.

There is a general assumption that both of these interview methods lead to the same results. Is this assumption correct or are there systematic differences in results between the two methods?

This is a fundamental question. Studies in Finland, Sweden and Germany reveal some differences based on which method was used,⁹ but apart from this, only limited information is available.

Overall, however, evidence supporting the assumption of differing AL-results in f2f- and telephone interviews recently has increased, although no general pattern emerges. Tacit knowledge in Germany indicates that long lists of learning activities lead to higher participation rates in telephone than in f2f-interviews due to the different interview situation. In face-to-face interviews, the target person may look at an activity list whereas in a telephone interview every item has to be read by the interviewer. This might be a reason why results varied between a representative f2f-survey and a telephone survey in Germany although very similar AL-concepts were used.

In contrast, participation rates in f2f-interviews in Sweden were higher than in telephone interviews but it was not clear if this was a mode effect.

"Tacit Knowledge" is an expression for knowledge from practical experts that is not published and has not yet reached the scientific community. Often these issues become a topic in discussions of scientists with some delay, sometimes they remain tacit. Particularly when results are quite sensitive the information source often does not like to be quoted.

If valid samples of cellular phones were available, this problem would be solved.

See Kangassalo, Pertti and Heiskanen, Markku, Testing the mode effects in the Finnish consumer survey, 2002.

EDU/WKP(2008)8

Examples of results that correspond well in f2f- and telephone interviews exist too. Highly similar results for most of the major variables ¹⁰ were found in Canada.

These results illustrate the need for further research on the scope of differences and on the factors that explain the origin of these differences. They also show that the general assumption that face-to-face and telephone interviews in the area of AL lead to the same results does not seem to be certain. Although present information tends to favour the validity of f2f-results slightly, there is no clear empirical evidence to support which method is "better". This question should be a focus of further methodological research.

Last but not least, survey costs will also be an important criterion when choosing the method of data collection. Although these costs vary with regard to parameters like interview length, telephone charges or travel expenses, in most countries the costs of population surveys by telephone interviews will be lower than by f2f-interviews.

Conclusions

- 1) Presently, online-surveys or mail surveys will not lead to representative data in international population surveys on AL.
- 2) Face-to-face and telephone interviews on adult learning activities may lead to different results. There is no clear evidence which method is better.
- 3) To avoid possible method effects an international AL Survey should try to implement the same data collection method in all participating countries. If this is not possible analyses of international differences also ought to show a comparison between countries using the same data collection methods.

Computer-Aided-Interviews and Paper-and-Pencil-Interviews

In survey research the use of computer programs in controlling and assisting interviews has increased greatly. Computer Assisted Telephone Interview (CATI) and Computer Assisted Personal Interview (CAPI) are widely used. Still some countries seem to prefer paper-and-pencil-interviews. Therefore it is important to know if the results differ between computer assisted interviews and paper and pencil interviews.

Little information is available on this issue. The main effect of using computer-assisted interviews seems to be the possibility of improved data quality. Some mistakes and inconsistencies can be identified already during the interview situation and corrected by the respondent instead of using ex-post data checks. The possibility of including automatic skips in order to avoid errors regarding the routing between questions is another advantage. A third important effect is a shortened post-interview time schedule.

It is important to acknowledge, however, that specifications of the computer program may affect the results. To ensure comparability, the computer programs used in different countries should be identical or at least very similar. The programs have to be checked very carefully as mistakes will lead to a loss of information.

-

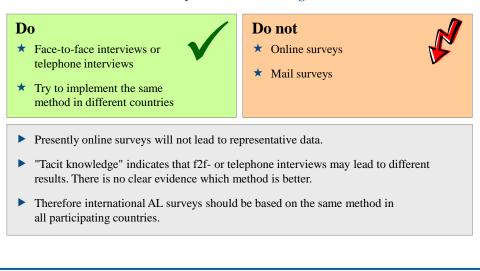
In Canada the International Adult Literacy Survey (IALS) was conducted in f2f-Interviews about the same time as an Adult Education and Training Survey by telephone interviews which was built largely on the AETS questionnaire. Differing results for course duration were likely due to the IALS practice of including only the most recent courses while AETS collected information on all courses.

Conclusions

- 1) Computer-Aided interviews potentially improve data quality.
- 2) If possible, computer-aided interviews with identical or very similar programs should be used in an international AL Survey.

Figure 4:

Data collection methods in international population surveys on Adult Learning



 $Helmut\ Kuwan\ 2008, OECD\ AL\ Module$

3.2 Reference period

The reference period is a very important issue for an international AL Survey as this influences results relating to key indicators like participation in learning activities or volume. Therefore, advantages and disadvantages of different reference periods have been discussed for a long time. Most countries carrying out AL surveys use an annual reference period. Recent discussions mainly refer to three aspects:

- 1) Should the reference period be one year or shorter?
- 2) Should an annual reference period cover the calendar year or the last 12 months?
- 3) Should a longer reference period than one year also be used?

Should the reference period of an AL survey be one year or shorter?

According to results from Statistics Sweden, a shorter reference period leads to a better recall of learning activities in non-formal education. On the other hand, serious disadvantages with regard to the preferences of statistical users and analytical limitations are connected with a shorter reference period: Most users are interested in estimates for a calendar year. Possible limitations of analytical potential are due to the fact that a shorter reference period, e.g. four weeks, probably will lead to rather low participation

rates in formal and non-formal education in many countries. If most individuals have not participated in any activity the potential for analysing differences between groups is limited very much.

In addition, short reference periods may also be strongly influenced by seasonal effects, whereas a reference period of one calendar year would avoid this bias. For these reasons, it is recommended here that a reference period of one year is used for measuring formal and non-formal education activities. In the EU AES, most countries use a reference period of the less than last 12 months from the time of the interview, or longer.

As for informal learning, the situation is somewhat different. Since participation in informal learning usually is higher than in formal or non-formal education, the problem of limiting analytical potential by using a shorter reference period is less severe. In addition, recall problems seem to be bigger for informal learning. Therefore, adding a shorter reference period than 12 months, for example the last four weeks, would probably improve the quality of results on participation in informal learning activities. However, seasonal effects will occur in informal learning, too.

Calendar year or the last 12 months?

A reference period of one year could be a calendar year, the last 12 months before the interview, or some other fixed 12-month period. In existing surveys either the last 12 months from the time of the interview or the calendar year are used. Both options have advantages and disadvantages.

Statistical users clearly prefer a calendar year. A calendar year also seems to correspond better with the time schedules of respondents than a period of the last 12 months. ¹¹ To give an example: It is easier for the respondent to think of activities in the year 2006 than of activities from September 1st 2005 to August 31st 2006. ¹²

Another disadvantage with using the last 12 months from the time of the interview as a reference period is the reduced comparability with other statistics that are based on a calendar year. Besides, the period of the last 12 months before the interviews varies between respondents depending on when the interview is conducted, so the reference period for the total sample would in fact cover a set of different 12-month periods.

The use of the calendar year will become a disadvantage, however, if data collection takes a long time. If the time between the interview and the calendar year becomes too long, recall problems may increase and thus reduce data quality.

Although there is no "objective" clue for fixing a time-line between both options, concrete suggestions may be helpful. From the author's point of view, a survey conducted in the first quarter of the following year should not cause serious recall problems in a calendar-year-approach while interviews conducted more than 6 months after the calendar year are likely to do so.

Therefore, the following pragmatic approach is advised here: A calendar-year approach is recommended whenever it is possible to conduct international surveys in the first quarter of the following

For long courses and educational programs, the school year remains a viable reference period.

Ease of recall may also vary across recall periods with regard to the type of education considered. For example, it might be easier for university students to recall credit hours earned in an academic year than in a calendar year.

year. Only if data collection takes a long time and there is no possibility of speeding up the data collection process is a period of the last 12 months before the interview considered preferable. ¹³

Should a longer reference period than one year also be used?

Some countries also use a longer reference period than the last 12 months, in addition to using a 12-month period (e.g. Canada, Finland, Germany and the United Kingdom). As mentioned before, when using longer reference periods recall problems tend to increase. ¹⁴ Therefore, it may be asked: Why should longer reference periods than one year be used in AL surveys if validity of results seems to decrease with increasing length of time periods?

In interviews, some survey experts described to the author their tacit knowledge of a "telescope effect", which can be described as follows: Respondents who participated in learning activities that were important to them and took place outside a one-year reference period tend to report these activities within the 12 months period rather than not reporting them at all. Therefore, a reference period of one year without a longer one in addition increases the risk of over-reporting learning activities in the one-year period. This may seriously affect participation rates.

To avoid the "telescope effect", the author proposes AL surveys to follow the Finnish example described in the question and answer section of chapter 5.1. Both the last 12 months and a longer reference period ought to be included in an AL survey in order to give the respondents the opportunity to report learning activities that were important to them.

A longer reference period than one year also will give information in order to evaluate the connection of the respondent to the learning system as was done in the Canadian Adult Education and Training Survey (AETS) 2003 (see Statistics Canada 2004, p. 22ff). It should be stated clearly, however, that another main purpose in adding an additional category for a longer reference period is to increase the validity of results for the one-year period.

Conclusions

 AL surveys should cover an annual reference period for measuring participation in formal and nonformal education. Unless the data collection process takes too long, we prefer a calendar year over the last 12 months before the interview, as the calendar year more adequately meets the needs of statistical users and the need for comparability with other annual data sources.

- 2) A longer reference period should be covered in addition, as this will increase the validity of results for the one-year period too.
- 3) To measure participation in informal learning it would be useful to combine data for a calendar year and a shorter reference period, e.g. the last four weeks.

This recommendation does not strictly accord with the AES Taskforce that recommended a period of the last 12 months from the time of the interview.

_

Results from the AES-survey in UK support this assumption, see Larsson 2006, S. 4.

Figure 5: Reference period

Do

- ★ Annual reference period for measuring participation in formal and non-formal education
- ★ Add a longer reference period to avoid "telescope effect"

Do not

★ Limit analytical potential by using too short reference periods only



- ▶ AL surveys should use an annual reference period for measuring learning activities and try to add a shorter reference period for Informal learning (e.g. four weeks).
- ▶ Statistical users prefer a calendar year to a varying 12-months period. Only if time between data collection and the calendar year gets too long (6 months or more) a varying 12-months period will be preferable.
- ▶ A longer reference period than 1 year should be added. Otherwise some respondents will report activities that happened longer than one year ago ("telescope effect").

Helmut Kuwan 2008, OECD AL Module

3.3 Target population

When defining the target population of an AL survey three questions need to be answered:

- Should persons living in institutions be included?
- Should foreigners / migrant workers be included?
- Which age limits should be recommended?

To include *persons living in institutions* (e.g. residential homes for the elderly, nursing homes, prisons, etc.) in an AL survey would be a very big complication in designing the sample and in conducting the survey, and would increase survey costs significantly. Since only a very small part of the population lives in institutions, we recommend that this group should not be included in an AL survey. Only people living in private households should be part of the target population.

Should an AL survey include *migrant workers and non-national residents*? In most countries, these are not just a "residual group". However, national policies among OECD members on immigration and non-national workers vary greatly as do the legal definitions (landed immigrants, permanent residents, refugees, temporary workers etc.) Countries such as Canada, the US and Australia have a large number of legal immigrants who are permanent residents and have yet to become citizens. There are also non-national workers on temporary employment visas. These groups or at least the family members selected for immigration tend to be highly educated, with a capacity in the official language.

In some other OECD-countries, it would only be possible to cover migrant and non-national workers in a fully representative approach with considerable effort due to possible language problems.¹⁵ While incurring significantly higher costs, these activities in most countries still would not result in a sufficiently high number of interviews for quantitative analysis based on nationality groups.

The final decision is a matter of national policy priorities. Some countries (e.g. Canada) would be extremely reluctant to exclude groups such as immigrants from the sample for policy reasons as well as the fact there are large numbers of non-national residents comprising a significant proportion of the population in certain areas.

One feasible possibility is to include foreign residents or migrants without changing the survey instruments. ¹⁶ In this approach, only non-nationals whose command of the resident country's language is adequate to conduct an interview are surveyed. The assumption seems justified that this group has been integrated more successfully than others. While in some countries the survey would reach only a limited group, at least some information could be collected in doing so. ¹⁷

The question of *lower and upper age limits* is controversial. In the EU AES, the final recommendation was to focus on a target population from 25 to 64 years. For countries with different priorities, it is possible to widen the target population in national surveys and quite a few countries do so (see Larsson 2006, p. 3). Since the target population is a key issue for an AL survey, this question will be discussed in some detail.

The focus on the population of 25 to 64 years chosen by the EU AES has advantages and disadvantages. The main advantage is that this pragmatic specification helps reduce some rather complicated problems. This age limit probably leads to a rather small number of persons who are in initial education. Because of this, the final EU AES questionnaire does not have to deal with the problem of separating initial from continuing education. Some countries, however, have included such questions in their national questionnaires.

On the other hand, excluding those less than 25 years of age can have serious consequences. A considerable number of 18-24 year olds are not in initial education and it is very likely that this group often will participate in adult learning activities – sometimes the same activities as those 25 years and over. To maintain an age limit of 25 years or more will prevent a comprehensive examination of adult learning activities.

In addition to this, 18-24 year olds who are not in formal education are likely to have lower levels of education. Among them are young people who dropped out of high school and those who did not pursue formal education beyond high school. Information about further non-formal or informal learning opportunities of this group is very important. ¹⁸

If possible, it is recommended here to maintain a minimum age of 18 years (younger people do not belong to the adult population) while trying to exclude initial education. Excluding specified age groups

To include foreigners whose knowledge of the language is not adequate, the following may be necessary: translating questionnaires into various languages, re-translating the answers, involving an interpreter in the interview, etc..

Germany chose this option in 1997 while in previous national AL surveys only Germans belonged to the target population.

When following this approach it will be useful to include in data sets and reports information on the number of interviews that could not be completed because of language barriers.

Thanks to Patrice de Broucker from Statistics Canada for stating this point.

that are attending high school and university will help to do so, but will not be enough.¹⁹ Some detailed questions will be necessary to identify initial education.

Should there be an upper age limit? The consequences of setting an upper age limit such as excluding those age 65 years of age and over do not appear as serious as the consequences of decisions on minimum ages discussed earlier. Although it varies by country, seniors have low rates of participation in adult learning. However, with an aging population in many OECD countries, the participation of seniors in learning activities will become of greater policy interest, given the growing recognition of the benefits that all adults, and not just those who are economically active, can gain from engaging in learning.²⁰

In September 2006, Germany started a representative study dealing with adult education among elder people from 45 to 80 years of age. This study, which is connected to the national AL survey, illustrates some of the problems of high upper age limits. Questions in which the situation of the potential work force is a major issue do not make sense for retired people. Training obtained by older persons is not as likely to be job-related but rather will reflect personal interest. As a consequence, an additional set of questions referring to the heterogeneous situation of older people has to be developed dealing particularly with issues like health and social participation as well as specific barriers and motivation.

A very high, or no, upper age limit raises other questions too. One issue is how to treat persons in institutions or persons with serious health problems. Another question concerns the readiness of very old people to participate in an AL survey.

Conclusions

- 1) Only people living in private households should be part of the target population of an AL survey.
- 2) Resident foreigners and migrants should be included in an AL survey, if this will be possible without changing the survey instruments. Although the interviewed group will be integrated more successfully than other groups, this approach is preferable to the exclusion of resident foreigners and migrants.
- 3) Age limits will vary according to each country's political preferences. It is recommended here that the lower age limit be 18 years. There should be an upper age limit, too. For the reasons described above, the author's personal recommendation for an international AL survey would be a target population from 18 to 64 years.
- 4) A pragmatic option would be to focus on the population of 25 to 64 years as suggested in the EU AES in order to reduce some problems like separating initial from continuing education.

3.4 Sample design: Address Random, Random Route and Quota design

Surveys are based on different sampling-designs. Does the choice of sample design affect the survey results in a major way?

The following section mainly refers to different sample designs of f2f surveys. In an Address-Random sample (AR), all persons belonging to the target group have the same chance to be part of the sample. The target person is fixed by a given address from a register. If the register data are up-to-date and include all

1

In Germany, for example, more than 50% of young people leaving the "dual system", which is the most frequently visited initial education there, are older than 18 years.

In addition to that, it will be important to keep an eye on the development of the average retirement age in OECD countries.

relevant groups (e.g. some registers have problems with covering migrants) this sampling principle will be the first choice from a methodological point of view. However, in some countries (e. g. Germany) where registers are organised locally this is a very expensive sampling method which is hardly ever applied, as many local administrators need support in drawing a sample and ask for rather high fees if addresses are used in surveys.

If AR samples are too expensive or register data are not up-to-date usually Random-Route samples (RR) will be applied. In RR-samples, all households with persons belonging to the target group have the same chance to be part of the sample. The interviewer first selects the household on a fixed random walk within a fixed sample-point and in a second step uses a systematic random key for selecting household members.

Contrasting with these random-sampling principles are quota samples, where the interviewer is free to choose any target person suiting the given quota criteria. Even if these criteria represent the population structure exactly, other variables may differ considerably, as some methodological studies have shown. ²¹ Therefore, an AL Survey should not be based on a quota sample.

Recently, more and more pre-selected samples of persons willing to participate in interviews have come up in surveys. Even if target persons are drawn at random on the basis of these pre-selected addresses, this is not strictly random sampling because the pre-selection prevents persons who belong to the target population from having the chance to be part of the sample.

Therefore the sampling principles we recommend for an international AL survey are Address-Random and Random-Route Samples for f2f surveys or Random Digit Dialling (RDD) for telephone surveys. RDD usually starts from existing telephone numbers and varies the last digits at random. This method avoids the regional clusters of a RR sample. However, problems may arise if cellular phones become more and more the only telephone extension of a household (see 3.1). As mentioned before, this problem could be solved if valid samples of cellular phones were available.

As samples based on register data are not feasible in every country it will not be possible to harmonise the sampling principles in an international AL survey completely in f2f interviews, because participating countries will use both AR and RR samples. Therefore, it is very important to check if differing results are to be expected because of these different sampling principles.

In an AR survey each individual has the same probability of becoming part of a sample. In contrast, in RR surveys the probability of individuals becoming sample members varies with the size of the household in step 2 of the selection. Therefore, AR surveys lead to representative data for the *population* (individuals) whereas a direct use of RR results leads to representative data for *households*.²²

⁻

One example may illustrate this problem. If the variables "age" and "sex" constitute the quota matrix, the sample usually will represent the population structure quite well with regards to these two variables while other variables like "educational level" or "labour force participation" may differ considerably from the structure of the population.

One example may illustrate this: Person A lives in a one-person household selected in step 1 of a RR survey. Her probability of being selected in step 2 is 100%. Person B lives in a household of 10 target persons. If this household is selected in step 1 of a RR-survey, the probability of person B to be selected in step 2 is only 10%. RDD samples face the same problem here.

A RR survey can be transferred from a household survey to a survey for individuals by a design adjustment, which corrects unequal selection chances varying with household size. After this design adjustment, there should be no difference between the samples theoretically. ²³

Design adjustment is a minor effort. It should be very clear, however, that comparing the results of AR and RR surveys without design adjustment will lead to a comparison of population structures (individuals) with household structures, which would be a mistake.

Conclusions

- 1) An international AL Survey should be based on a random sample (Address-Random, Random-Route or RDD in telephone surveys). Methodologically, AR (selection from registers) is considered best practice in f2f-interviews.
- 2) As national sampling frames vary, the choice between AR and RR should be left to the countries.
- 3) Results from AR and RR surveys are comparable only after design adjustment. Without design adjustment, individuals (population structures) will be compared with households.
- 4) Quota sample designs and samples based on a pre-selected population willing to participate in interviews should be avoided.

Figure 6: Target population and sample design

Do not ★ Include resident foreign nationals and migrant workers ★ Address Random (register) sample, Random Route sample or RDD Do not ★ Include population living in institutions ★ Quota sample ★ Proxy interviews

- ▶ Resident foreign nationals and migrant workers can be feasibly included by using the same survey instruments. Some information is better than none!
- Address Random is best practice in f2f-surveys, but not always feasible. RR surveys are comparable only after design adjustment.
- ▶ Age limits will vary according to country's preferences. The author's preference is 18-64 years.

Helmut Kuwan 2008, OECD AL Module

Analysing the results of a family survey in Germany showed, however, that the sample-realisation in the AR sample was better. There was a very controversial discussion whether this result represents a general pattern or not, see Alt, C., Bien, W., Krebs, D. 1991 (available in German only).

3.5 Random selection of learning activities

A remarkable number of persons take part in multiple learning activities. Average numbers vary not only between countries²⁴ but also between formal and non-formal education and informal learning. In non-formal education and informal learning, more learning activities are expected than in formal education. Only very few multiple learning activities will happen in formal education.

There is a trade-off between obtaining a maximum of information and the limits caused by response burden. Collecting detailed information on all learning activities in the reference period is not a feasible approach, as this would take too much interview time. Therefore, recommendations on this issue have to deal with two questions:

How should learning activities be selected? How many learning activities should be selected?

Statistically, a random selection of learning activities as first put into practice by Switzerland, Finland, Sweden and the USA is preferable but this option also increases the response burden since in a first step all learning activities during the reference period have to be listed. Therefore, it is discussed first if simpler approaches with a smaller response burden might be acceptable too.

A relatively small response burden would result from choosing one learning activity in a direct approach, which avoids collecting information on all learning activities. Examples of this direct approach are to choose the most recent activity or identify the 'main' training course attended — the training course on which most time was spent.

The simple non-random method of selecting the most recent activity may lead to an acceptable approximation for some aspects but will cause a bias for other important aspects. In the German national CET report system (BSW), data based on the most recent activity of non-formal learning covered aspects like providers, fields, etc. quite well whereas volume results were biased because longer activities are more likely to be selected. When selecting the main activity instead, a bias on volume is systematically inherited.²⁵

Selecting one activity at random reduces this bias and increases the response burden since all learning activities during the reference period have to be listed first. Still, this selection is not unbiased. Respondents who had attended one course only might influence the results more than other participants because this selection covers learning activities of respondents who had attended only one course at a 100%-rate while it includes only a sample of learning activities of other participants.

Recommendations have to take into account not only the varying number of learning activities in the fields of formal and non-formal education and informal learning - and policy interest - but also the interview time in a national AL Survey, which may vary. Presently, there seems to be more policy interest in non-formal education than in informal learning. Recommendations should not ignore this fact.

As stated before, only few multiple learning activities will happen in formal education. One feasible option might be to focus on two activities or the most important activity here. Covering more than two learning activities in this area probably will not lead to much better information.

_

In the Canadian AETS 67% of training participants in 1998 reported only one event, whereas Australia reports in 1997 a number of 43 %.

Another problem with using the most recent activity is related to seasonality effects.

In non-formal education the situation is different. A variety of learning activities may exist. As a basis for random selection, a list of learning activities has to be created first. In a second step, activities are selected at random. According to some recent AL survey experiences the sampling procedure itself does not seem to cause too much difficulty. However, there are problems with very high numbers of activities, as experience from the UK illustrates:

"A few people had done around 20 learning activities and were finding the section about listing non-formal activities tedious. UK provided a note to interviewers telling them that recording details of the 6 most recent activities was sufficient, as long as they recorded the total number of activities." (Larsson 2006, p. 33).

Results from Finland and Sweden in the field of non-formal education have shown that if less than three learning activities are selected the estimates for some aspects (e.g. fields of learning and learning for personal reasons) will be more uncertain.²⁶ Nevertheless, the objection based on the UK experience seems to be justified.

Considering all of the above, our preferred option is a random selection of three activities in non-formal education. Taking up the suggestion from UK experience, recording details of six most recent activities should be sufficient, as long as the total number of activities is also recorded.²⁷

For informal learning, random selection is not a feasible option as the number of learning activities in this heterogeneous field can be very high. Selection could take place by focusing on the most recent activity or the most important activity for the respondent (see 5.3.). While selecting the most recent activity reduces recall problems there seems to be bigger policy interest in selecting the most important activity. As both options have their specific advantages no recommendation is given here.

It is very important, however, to use the same criterion for selecting an activity in each country. Using different criteria, (e.g. the most recent vs. the most important or longest activity) would lead to different forms of bias and seriously affect levels of international comparability.

In countries where the response burden for a random selection is considered too high, e.g., when very short questionnaires are used, one learning activity in each field (formal and non-formal education and informal learning) could be selected in a non-random way. As mentioned before, it will be very important in this case to use the same criterion for selecting an activity in each country.

Conclusions

1) In formal education, where few multiple learning activities are to be expected within a 12 months period, it is recommended to select the most important activity instead of a random selection.

- 2) In non-formal education, information should be collected on three randomly selected learning activities. A limit for listing detailed activities, e.g. six activities, should be accepted.
- 3) Informal learning seems to be too heterogeneous for random selection. Other criteria will have to be used, e.g. selecting the learning activity considered most important by the respondent.

_

²⁶ Larsson 2006, p. 5.

²⁷ Results from Germany support the suggestion from UK. In Germany, less than 0,5 % of the population participated in more than 6 activities of non-formal education in one year.

In countries where very short questionnaires are used and little interview time is available, one learning activity in each field might also be selected in a non-random way. In this case, all countries should use the same criterion for selection since different forms of bias would result from the use of different selection criteria, and this would affect international comparability seriously.

Figure 7: Random selection of learning activities: A trade-off between maximum of information and limits caused by response burden

Do Do not Random selection of Make the response burden learning activities if it is feasible too heavy ★ If it is not feasible: Use the same List all activities of informal learning selection criteria in different countries ▶ Random selection of more than one learning activity (e.g. 3) is very useful for non-formal learning. A limit for listing activities (e.g. 6) should be accepted. In formal education only few multiple activities in one year are to be expected. Therefore, selecting the most important activity seems to be acceptable. As informal learning is very heterogeneous, selection criteria like the most recent or the most important activities may be helpful. Different countries should use the same selection criterion.

Helmut Kuwan 2008, OECD AL Module

3.6 Carrier surveys

While in 2002 the question of how to integrate an OECD AL module into a carrier survey was a main issue, the EU AES survey has changed this situation considerably. However, some aspects of this earlier discussion remain important.

Should an OECD AL module be part of a survey dealing only with AL-topics or should it be part of a more general survey dealing with several topics? Methodologically, a separate AL survey is the preferable solution.

A separate AL survey makes it possible to cover a wider range of content including more background variables that may influence participating in learning activities. However, it would be much more expensive than a multi-topic survey. Decisions will vary between countries according to policy interest and available budgets. Nevertheless, we consider a separate AL survey to be best practice because of the methodological advantages and the higher analytical potential of the survey data collected.

The OECD AL module could be part of a newly developed or an already existing survey. In the EU AES, both options exist as well. Integration into an existing survey could include national surveys or the Labour Force Survey (LFS). With the LFS, two problems exist: the LFS usually allows only a very limited set of AL questions, and in some countries it allows the use of proxy interviews, which cannot be accepted here (see 3.7).

Which other international surveys could be considered carrier surveys for an OECD AL module?

In surveys like the Adult Literacy and Lifeskills Survey (ALL) or the International Adult Literacy Survey (IALS) the response burden already is very high. An additional AL module would make it unbearable. As for Programme for the International Assessment of Adult Competencies (PIAAC), it is too early for a recommendation since key elements in the PIAAC design are yet to be defined. According to first impressions, the situation here might turn out to be similar to ALL but it is important to watch the development of PIAAC closely in order to identify possible connections early on.

A more promising alternative might be the International Social Survey Programme (ISSP) carried out in more than 30 countries where a drop-off questionnaire ²⁸ is already part of the study concept. Using a drop-off questionnaire would also somewhat reduce the response burden in other surveys.

The optimal option, however, would be to integrate the OECD AL module into the EU AES and existing national surveys in non-European countries.

Conclusions

- 1) A separate AL survey is better practice than a multi-topic survey with an AL module, as a separate AL survey supports a wider range of content.
- With regard to the OECD AL module, integration into the EU AES and national AL surveys in non-European countries would be first preference.
- Another option might be to integrate the OECD AL module as a drop-off-questionnaire in an international survey.

3.7 **Proxy** interviews

Should proxy interviews be allowed in adult education surveys?

In proxy interviews, one member of a household provides information on another household member. As some countries allow proxy response in their national labour force surveys, supplements to these labour force or general population surveys often inherit, so to speak, the use of proxy responses.

Although this is a very basic question, not much systematic information is available on the effects of proxy interviewing on AL data. Some methodological hints on this issue come from Norway and Canada and further information from Germany will be available soon.²⁹ A Norwegian study referring to the effect of proxy interviewing on employment shows that parents tend to underestimate the employment rate of students.³⁰ In Canada, evaluation based on focus groups and interviews concluded that proxy responses were the source of several serious errors. Consequently, it is no longer used in the Canadian AETS.³¹

A drop-off-questionnaire is an additional questionnaire, which the interviewer hands out to the respondent after a f2f-interview.

In Germany, a research project presently deals with the validity of proxy interviews on AL issues. Results will probably be available in 2008.

³⁰ The relative underestimation found was between 5 to 10 per cent of the published figures for students, Solheim, L., Harland I., Lagerstrom, B.: Proxy interview and measurement error of employment for the age group 16-29: The Norwegian Labour Force Survey, Statistics Norway (no year).

The assessment looked at different issues: how well respondents understood the questions, terms, and definitions such as program and courses; the ability of respondents to recall specific training events; and

Analyses of LFS-data also showed problems of inaccurate information due to proxy interviewing (see Larsson 2006, p.9).

Taking into account this information, it seems very unlikely that one member of the household would be able to give valid information on all AL participation of other household members, particularly in the field of training within companies. It is even less realistic to expect valid results on details of an AL activity (e.g. the use of technology) and on subjective items such as whether or not the course met expectations.

Conclusion

No proxy interviews should be allowed in adult learning surveys.

response burden. Summary Report: Adult Education and Training Survey Questionnaire Evaluation Thompson Lightstone May 92.

4. Discussion of basic concepts in the European Adult Education Survey

4.1 The concept of formal and non-formal education and informal learning

As mentioned before, quite a few countries in Europe have decided to use the EU AES concept of formal and non-formal education and informal learning in their national AL surveys and some use it already. Meanwhile this is the most widely applied concept in international AL surveys. Integration of this concept in national surveys is an important progress for international comparison in the AL field. Therefore, this chapter discusses the basic concept of the EU AES.

It has to be stated that this section does not investigate in detail the broad variety of issues addressed in the EU AES concept. Partly this will be done in the following chapters dealing with specific issues. These chapters will refer in some detail to Eurostat's "Classification of Learning Activities (CLA)" but not to the Single Learning Activities (SLA) also described there. According to the e-mail discussions with country experts SLA seems to be a rather abstract construct, not an operational concept that gives input for constructing a questionnaire.

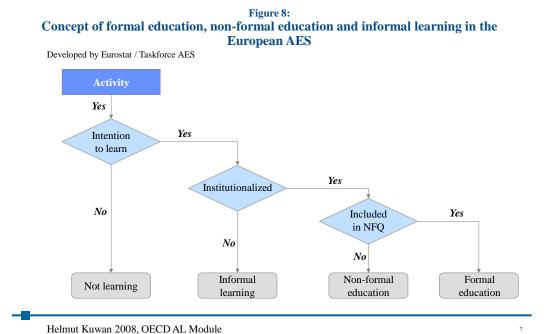
This section presents an overview of the basic conceptual elements in the EU AES, reflecting some experiences of surveys based on this concept and discussing some basic related issues.

In order to develop concepts and methods for a harmonised EU survey on participation in education and learning by adults, the Task Force on Adult Education Survey (TF AES) was created. The main conclusions in the final report ³² from this Task Force are presented in the following rather long quotation taken from the report prepared by Ann-Charlotte Larsson for the OECD AL Module (Larsson 2006, p. 2f.).

Main objective of the AES

"The main purpose of AES is to describe participation in education and learning by adults. Learning activities are defined as "any activities of an individual organised with intention to improve his/her knowledge, skills and competence". Intentional learning is defined as "a deliberate search for knowledge, skills, competences or attitudes of lasting value". The learning activities are divided into formal education, non-formal education and informal learning, which are defined according to the classification of learning activities. The criteria used for distinguishing between the three categories in the classification of learning activities are "intention to learn", "institutionalised" and "included in the national framework of qualifications (NFQ)" (see the figure below).

The final report from this task force was presented and endorsed by the group of Directors of Social Statistics in September 2004.



The purpose of the EU AES is to provide information about the adult population's participation in education, training and learning. Information is also produced about people's opinions and experiences of adult education and training, their willingness and need to participate in it, and the obstacles they face. In addition, adults' information technology skills will also be studied, along with knowledge of foreign languages and participation in cultural and social activities. For the first time, internationally comparable data will be produced on such a large area of adult education and training.

One important purpose of the EU AES is to provide information about non-learners, who are currently especially interesting for policy-makers.

The following four groups are possible to identify with the help of the AES:

- Non-learners
- Learners only in formal and/or non-formal education
- Learners combining participation in formal and/or non-formal education with informal learning activities
- Learners only in informal learning activities

Another purpose of the survey is to identify the adult learner. The adult learner is defined as a person who has left initial education. One definition of initial education that was discussed in the Task Force was that it comprises any education that the person participates in before a break of sufficient duration. It was decided that students in initial education should not be excluded from the survey.

EDU/WKP(2008)8

To be able to identify the adult learner requires questions describing the path through the educational system and reasons for long breaks from learning. This kind of information can probably be collected with sufficient quality through information from registers at statistical offices in the Nordic countries. EU AES decided that it should be possible to distinguish between students in initial education and persons participating in continuing adult education through the questions in the EU AES. It was however judged that it would be difficult to construct harmonised questions on this matter which would give comparable results between countries." (Larsson 2006, p. 2f.)

Content issues in the EU AES

The EU AES is structured in different modules which include the priority issues stated in section 3 and some other issues such as participation in social and cultural activities, and use of ICT (information and communication technology) and ICT skills (for more details see Larsson 2006, p.8). The following section is an excerpt from Ann-Charlotte Larsson's report mentioned earlier. It gives an overview on how the general concept of the EU AES was put into practice by participating countries and on survey experience with regard to key conceptual issues (Larsson 2006, p. 9f.):

"... There are both variables and questions in the questionnaire. For the variables, the wording of the questions should be adapted to national conditions. This means that the wording of the questions will be different for different countries. The questions in the AES questionnaire should be directly translated into the national language.

For each question/variable in the AES a level of preference for inclusion in the survey has been established. The questions/variables with level 0 are core questions/variables and should be included in the survey for all countries. If for any reason it isn't possible to cover all questions/variables in the survey the questions/variables with the lowest level of preference (9) should be excluded first...

Formal, non-formal and informal learning are defined according to the classification of learning activities. The EU AES contains variables for identifying formal and non-formal education and informal learning (see the EU AES manual). This means that each country has adapted the variables to national conditions when constructing questions. For formal and non-formal education the definitions in the classification of learning activities are followed. The division into classes and sub-classes for non-formal education are however not entirely followed. For informal learning some of the sub-classes suggested in the classification of learning activities are excluded from the survey. The reason for this is mainly that it would have been difficult for the respondents to make the separation, for example between learning from colleagues, on the job training and learning through a learning group.

There was also a discussion about the difficulties to separate informal learning from random learning for the respondents. It is stated in the classification of learning activities that informal learning should be a deliberate search for knowledge, skills etc of **lasting value.**"

The difference between variables and questions mentioned here is important. As for questions, the wording is fixed. Questions and categories should be directly translated into national languages. Variables allow for varying wordings of the questions and answer categories often vary strongly according to national conditions.

Although using the EU AES concept of measuring learning activities in surveys in different European countries is a very important step forward, some aspects need further discussion. Before presenting some experiences from the EU AES surveys already conducted, a more general issue will be discussed.

The fact that educational experts in different European countries welcomed the EU AES concept as a common basis for measuring learning activities does not indicate that it will be easy to communicate to persons who are not educational experts. Quite the contrary: This concept will probably be quite difficult to communicate in interdisciplinary discussions, and it will be even more difficult to communicate to respondents. For this reason, countries participating in the EU AES have tried "translating" this concept into learning activities and providing interviewers with special training. Although this seems to have been a feasible way, further effort in making the EU AES concept simpler and easier to communicate would be a very important step.

Some experiences from the EU AL surveys already conducted

So far, most countries that have implemented the EU AES have not reported major difficulties with classifying the learning activities into formal and non-formal education and informal learning although some double reporting occurred. Respondents had some problems identifying differences between certain categories (e. g. "seminars, workshops" and "courses"). Many of the problems reported refer to the separation of "guided on the job training" from other categories. Results also indicate that in general a clear separation between the work-related and personal contexts of activities would be helpful. This report presents some suggestions on this issue (see 5.3).

The survey experiences show that it is particularly difficult for the respondents to distinguish between incidental learning and deliberate learning. In the survey, interviewers need to give considerable explanation. Therefore, training of interviewers is considered very important before conducting the survey.

The EU AES surveys from 2005 to 2007 may be considered pilot surveys. Experiences during implementation will probably lead to some changes for the next EU AES surveys in 2010/2011, and in this process it should be possible to consider experiences from non-European countries as well.

As expected, these analyses show that there is still some work to be done. In the following section one of the problems often reported in the EU AES, namely the separation of informal learning and random learning will be discussed.

Conclusions

- 1) The EU AES concept of formal and non-formal education and informal learning represents remarkable progress.
- 2) However, this concept will be difficult to communicate in interdisciplinary discussions. In an AL survey, it requires "translation" into learning activities.
- 3) Separating certain categories of non-formal education from informal learning seems to be one of the major difficulties.

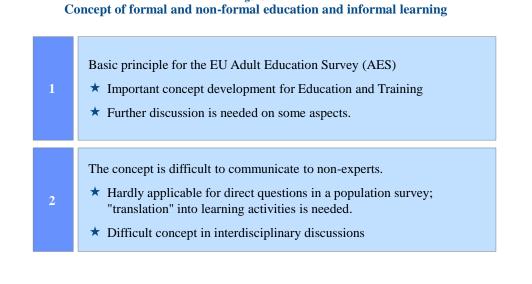


Figure 9:

Helmut Kuwan 2008, OECD AL Module

4.2 Informal learning and random learning

A remarkable part of adult learning activities takes place outside of the educational system. In a knowledge society, informal learning activities will increase further and so will policy interest in this issue. Qualitative research shows that even "learning en passant" may have big and lasting impact.

In the EU AES concept described in section 4.1, informal learning is a "residual category" for activities which are considered as neither formal nor non-formal education. One of the most important differences between non-formal education and informal learning in the EU AES is that no professional teacher is involved in the informal learning activities. In this concept, the intention to learn marks the difference with "random learning".

The EU AES tries to exclude random learning. Feedback on the EU AES shows that this is quite difficult from the point of view of the respondent. Starting from this difficulty, we would like to ask a somewhat heretical question: Is a strict exclusion of random learning necessary from a conceptual point of view?

The main reason for excluding random learning is to avoid recorded learning activities coming close to a rate of 100%. In this case, there would hardly be any analytical value resulting from this figure.

Instead of strictly excluding random learning, another option might be to include it partly and try to restrict the segment covered. This could be done by asking whether the random learning activity had a substantial effect.

There seems to be some reason for including this segment. For instance, one could reasonably ask why learning achievements should be less important than learning efforts. Presently, activities that are started with an intention to learn, and where no learning effect was achieved are included in AL surveys like the EU AES, but activities where something substantial was learned without the intention to learn are

not included. An extension of the concept in the direction of random learning with substantial effects might have two advantages:

- Problems in separating non-formal education and informal learning probably will decrease;
- The concept would shift somewhat from input to outcome orientation.

Helmut Kuwan 2008, OECD AL Module

As random learning is not covered in most AL surveys, no tested instruments on this issue are available yet. The recommendation given here is to encourage testing in this direction.

The following graph illustrates the suggested concept enlargement. Although the proposal complicates the graph, it might help in facilitating the interview situation.

Figure 10: Extended concept of formal education, non-formal education and informal learning including random learning Extended concept (based on EU AES) Activity Yes Yes Intention to learn Yes No Institutionalized Substantial Included Yes learning result in NFQ No Yes No No Substantial Informal Formal Not learning education random learning learning education

5. Participation in formal education, non-formal education and informal learning

As each country conducting the EU AES will deliver quality reports to Eurostat, it would have been very useful for the OECD AL module report if this information had been available already. Since this is not possible, the following section only refers to the limited feedback on the EU AES, which is presently available.

5.1 Participation in formal education and training

Concepts and definitions

The concept of formal education in the EU AES as explained in the CLA refers to the "educational ladder" of ISCED 97 where completing one level of education gives access to a higher level. The criterion that distinguishes formal and non-formal education is "whether the activity is designed to lead <u>upon successful completion</u> to a <u>learning achievement</u> that is possible to <u>position</u> within the National Framework of Qualification (NFQ). " (cit. from CLA-Manual, p. 18). Therefore, the NFQ is a key conceptual guide in the EU AES.

NFQ covers education and training. It is defined as "the single, nationally and internationally accepted entity, through which all learning achievements may be measured and related to each other in a coherent way and which define the relationship between all education and training awards" (cit. from CLA-manual p. 19).

One basic difficulty of international classifications in the field of formal education is that they refer (and have to refer) to general terms and definitions that will be more clear in some national contexts and less clear in others. As this problem reflects differences between educational systems, the correspondence of aggregate concepts to national system usually will vary. This is also true for the separation of initial education and continuing education.³³

Surveys are "moments of truth" following conceptual work. Surveys have to translate concepts and definitions into existing national educational systems and try to help the respondent understand their meaning. Therefore, it is very interesting to see how the results of this translation process worked in the AL surveys already conducted.

In some non-European countries reviewed here, the focus in the surveys seems to be on non-formal education and informal learning rather than formal education. Australia asks some additional questions on formal education referring to the most recent activity, while surveys from the USA mainly seem to refer to non-formal education and informal learning.³⁴ Canadian surveys cover both formal and non-formal education.

Questions and answer categories

_

Because of varying educational systems, questions used for measuring formal education vary (and have to vary) considerably between countries. While some countries ask relatively short questions, others present rather long lists of formal education activities or present lists of providers of education to measure

Separation of initial education and continuing education is an important issue which is not yet solved. Excluding 19-24 year olds reduces this problem, but will lead to a loss of information. Therefore, we do not recommend excluding this age group (see section 3.3).

For more detailed information on formal education, the USA relies on the Integrated Postsecondary Education Data System (IPEDS) and the National Postsecondary Student Aid Study (NPSAS).

formal education. These examples may show that it will not be possible to recommend identical question and answer categories for capturing formal education in different countries.

How well has the EU AES concept of formal education and training worked in country surveys so far? As expected, differences between countries exist. In some countries, most respondent understood quite well what "designed to lead to a qualification" meant, while there were considerable difficulties in other countries.

Most countries report that using lists and show cards was very helpful. Nearly all countries put great emphasis on training interviewers. Often interviewers had to explain the overall concept to the respondents. While interviewer support no doubt is an important issue, usually interviewers are not experts in a country's educational system, even after special training courses. Therefore, we recommend not relying too much on the interviewer for clarification of the issues. Concrete listings of learning activities should be helpful.

A few countries suggested that contact be made with the target persons before the interview by telephone or to send them a letter. While some active learners might prepare themselves for the interview, there will be a negative effect on non-learners. Detailed pre-announcements of survey contents will very likely reduce participation of non-learners and increase sample bias. Therefore, announcements before the interview should be avoided in AL surveys.

Methodologically, a list with clearly specified learning activities – as in the Finnish AES - seems to be very appropriate, although the response burden is rather high. However, the approach worked well in the previous AES. Using rather short questions that include pedagogical terms like "upper secondary level" probably will not make things easier for many respondents.

As stated before, no recommendation for questions and answers can be given here. The Finnish approach combining questions on formal and non-formal education is documented not as a role model but as a methodologically attractive example that worked well in practice despite its rather high response burden.

Example questions on formal education from Finland using an integrated concept (questions cover both formal and non-formal education)

F 1A Have you participated in training at the following general education institutes in the past 12 months or earlier?

Answer alternatives in question:

Never studied	()
In the past 12 months	()
Or only earlier?	()
Don't know	()

EDU/WKP(2008)8

- 01) Primary school or lower secondary school?
- 02) Comprehensive school or middle school?
- 03) Upper secondary school?
- 04) Evening school (adult or evening upper secondary school or middle school)?

F 1B Some forms of vocational training are listed below. Have you attended any in the past 12 months or earlier?

- 05) Apprenticeship training? (Periods of courses taken at vocational adult education centres or vocational education institutions.)
- 06) An employment-promoting course paid for by labour authorities (labour policy training)?
- 07) Training for youths at vocational or professional education institutions?
- 08) Training arranged specially for adults at a vocational education institution or a vocational adult education centre in order to get a vocational or professional qualification (polytechnic education and private students included)?
- 09)... for other purposes?
- 10) Military institute (not conscript service)?

F 1C The following is a list of institutes that offer both vocational and general interest courses and studies. Have you studied at:

- 11) A folk high school or folk academy in order to get a vocational or professional qualification?
- 12) A folk high school or folk academy for other purposes?
- 13) A conservatory in order to get a vocational or professional qualification or in a music school or college (not in the adult application)?
- 14) The music-school level adult department (former folk conservatory department) at a music school or college?
- 15) A college of physical education (sports institute) in order to get a professional or vocational qualification?
- 16) A sports institute in other training?

F 1D I will list different study modes of universities and summer universities. Have you studied:

- 17) For a basic degree at university?
- 18) For a post-graduate degree at university?
- 19) At university or its continuing education centre in a further training course?
- 20) At university or its continuing education centre for a separate degree or Open University courses?
- 21) At summer university?

F 1E In the following I will ask about the providers of training that take adults into account separately in the courses that they cater for.

Have you in the past 12 months or earlier attended:

- 22) An adult education centre?
- 23) A language school or institute in Finland?
- 24) A correspondence school?
- 25) Training provided by an organisation, union or association?
- 26) Courses or a study circle arranged by a study circle centre?
- 27) A separate typing or word-processing school?
- 28) A dance school or institute (modern or jazz dance or ballet)?
- 29) A driving school?
- 30) Studied by regularly following an educational programme series on the radio or television?

F 1F The following is a list of common modes of organising education and training. Have you participated in:

- 31) Training provided by your employer at your workplace, in the employer's training facilities or in other training units (also applies to secondary jobs)?
- 32) Training provided by a separate training enterprise or training centre (business-based training centres, consultants, etc.)?
- 33) Guided on the job training?
- 34) Conferences, seminars or other similar training?

F 1G Have you participated in any other training?

- (...) No
- (...) In the past 12 months
- (...) Only earlier
- (...) Don't know

Figure 11: Important issues for measuring formal education in international AL surveys

	National framework of qualifications
1	★ In some countries this concept is easily understood.
	★ In other countries, respondents find it quite difficult to grasp.
	Separation of initial and continuing education
2	★ Separation of initial and continuing education is an important issue which is not yet solved.
	★ Excluding 19-24 year olds reduces this problem, but will lead to a loss of information.
	Country questionnaires often differ considerably.
3	★ Some countries ask lists of learning activities.
	★ Other countries use lists of providers, etc.

Helmut Kuwan 2008, OECD AL Module

5.2 Participation in non-formal education

The concept of non-formal education in CLA refers to the definition of formal education. Non-formal education is defined as "any organised and sustained educational activities that do not correspond exactly to the above definition of formal education. Non-formal education may therefore take place both within and outside educational institutions, and cater to persons of all ages. Depending on country contexts, it may cover educational programmes to impart adult literacy, basic education for out of school children, lifeskills, work-skills, and general culture. Non formal education programmes do not necessarily follow the "ladder" system, and may have a differing duration." (CLA, p. 16).

Primary statistical units are "institutionalised learning arrangements (organising frames) to learn one or more subjects." (CLA, p. 24)

Non-formal education is a very heterogeneous area. Not surprisingly, measurement concepts vary. Usually, empirical concepts try to combine measuring participation and purpose of non-formal education. Different approaches are:

• The "two-step-approach" first asks about participation in different forms of non-formal education and second asks about the purpose of the learning (e.g. EU AES);

- The "two-sector-approach" first asks separately about work-related non-formal education and then about non-formal education based on personal interest (e.g. BSW); the questions are based on detailed activity lists, particularly in the field of non-formal education based on personal interest;
- Combined concepts ask about purpose (work-related) and participation in one question without using detailed activity lists in this first question (e.g. Canada, the USA, Australia).

In examining effects of different instruments, no recent experience from non-European countries was found. Therefore, the following analyses refer to:

- Experience from implementing the EU AES and;
- Results from the BSW AES pilot study and Pretest comparing two different concepts.

Quite a few problems in adapting the EU AES concept result from separating non-formal education and informal learning (see 5.3 for more detail), particularly with regard to on-the-job training.

Another important issue is to avoid double counting. Statistics Sweden therefore reminded the respondent in each question that he or she only should report learning activities in addition to those already reported (see "question and answers").³⁵

Experience from Finland indicates that an additional longer reference period than 12 months is helpful to avoid the "telescope effect" in which activities which took place outside the reference period are reported within the reference period (see 3.2).

The comparison of BSW and the AES refers to results from a pilot study in 2005 and a Pretest in February 2007. While in the pilot study (n= 715) the AES-concept lead to somewhat higher participation rates in formal education it lead to significantly lower participation rates for learning based on personal interest (14% vs. 29%, see von Rosenbladt/Bilger/Post 2005). This result corresponds with earlier findings about the importance of activity lists:

"Participation rates vary depending on the type of question used. The simplest form is the unaided, direct question, e.g. 'Have you attended any continuing education activities during the past 12 months?' The pre-defined reply categories are yes/no. However, it is also possible to enquire about participation using aided questions, which directly refer to specific continuing education activities.

A comparison of these two types of questions reveals that in unaided questions most subjects interpret the term "continuing education" as continuing vocational education. Therefore, the unaided question method is less suitable for surveying general continuing education.

In direct questions, the subject must decide what he or she considers to be continuing education. However, the precise definition of continuing education is controversial even among experts. It is thus even more uncertain how the subjects define it. Therefore, aided questions are to be preferred for content-related and methodological reasons." (Kuwan 2000, p. 12).

Therefore, BSW used 17 categories to identify learning based on personal interest.

_

The U.S. National Center for Education Statistics and Statistics Canada do the same.

As the BSW AES Pretest gathered information on more than one activity of non-formal education, it is possible not only to compare participation rates but also the share of activities allotted to the non-vocational and to the personal interest sector. The differences are striking. According to the BSW concept, about 50% of all non-formal education activities are vocational while the AES concept accounts for more than 80%.³⁶

Which figure represents the adult learning situation in Germany better? Provider statistics indicate clearly that this is the BSW concept, even though the indicators used in the data sources are not strictly the same (participants and participation cases). In Germany, the two-step-approach seriously underestimates participation based on personal interest.

These results show that at least for Germany from a strictly methodological point of view the two-sector-approach is "better". However, the use of the AES concept significantly improves international comparison in the AL field, and "platform effects" are not necessarily a major problem in international comparison if they do not vary between countries. Therefore, with regard to the criterion "international comparison" the EU AES concept will presently be considered "better". As these remarks illustrate, what "better" means in this context depends on the weighting of these two criteria. Therefore, no recommendation with regard to the two-step-approach or the two-sector-approach is given here.

Although in Germany the two-step-approach underestimates learning based on personal interest it is not known whether this will be true for other countries as well. Nevertheless, these apparent differences between the "two-step approach" and the "two-sector approach" call for further research on this important issue. If results in other countries confirm the German Pretest, the need for further discussion will increase.

The "question and answer" section presents the Swedish questions which cover the EU AES concept very well. The German BSW questions are not listed as this concept was reconstructed in 2006 in order to develop an integrated concept with the EU AES.

Questions and answer categories

Sweden, EU AES:

Examples of such education are training courses in the workplace, driving lessons, parenting course, language or computer courses, study circles in crafts or music.

34a In the last 12 months have you participated in courses or study circles in the workplace or in your free time?

□ NO → Proceed to question 35a
□ DON'T KNOW → Proceed to question 35a
□ DON'T KNOW → Proceed to question 35a
□ DON'T KNOW → Proceed to question 35a

34b Please list all courses and study circles that you have participated in, including those which are still ongoing.

If more than 6 − report the 6 most recent activities.

IN THE LAST 12 MONTHS.

Despite of the relatively small sample size, these results are remarkable.

35a	In the last 12 months, have you taken private lessons? E.G. PIANO LESSONS N.B. IN ADDITION TO THE EDUCATIONAL COURSES ALREADY REPORTED BY THE RESPONDENT	 YES → Proceed to question 35b NO → Proceed to question 36a DON'T KNOW → Proceed to question 36a
35b	Please list all types of private lessons received, including those which are still ongoing. IN THE LAST 12 MONTHS	Open question If more than 6 – report the 6 most recent activities.
36a	In the last 12 months have you participated in seminars, lectures, workshops or similar in the workplace or in your free time? N.B. THE ACTIVITY SHOULD INCLUDE SOME FORM OF EDUCATION.	 YES → Proceed to question 36b NO → Proceed to question 37 DON'T KNOW → Proceed to question 37
36b	N.B. IN ADDITION TO THE EDUCATIONAL COURSES ALREADY REPORTED BY THE RESPONDENT Please list all seminars, lectures etc. that you have participated in. IN THE LAST 12 MONTHS	Open question If more than 6 – report the 6 most recent activities.
37a	In the last 12 months have you received education, instruction or training directly in the workplace or in the work situation with the aid of advisers or other instructors? e.g. to operate a new machine or to learn new software DO NOT INCLUDE HERE CASES WHERE THE RESPONDENT ASKED A COLLEAGUE'S ADVICE TO SOLVE A WORK TASK. N.B. IN ADDITION TO THE EDUCATION ALREADY REPORTED BY THE RESPONDEN.T	 YES → Proceed to question 37b NO → Proceed to question 38 UNEMPLOYED → Proceed to question 38 DON'T KNOW → Proceed to question 38
37b	List all the education, instruction or training which you received directly at the workplace or in the work situation. IN THE LAST 12 MONTHS	Open question If more than 6 – report the 6 most recent activities.

Figure 12: Participation in non-formal education and purpose of participation

	Concept A: Two-step approach
1	★ Ask for participation in a first step
	★ Ask for purpose (job-related or personal interest) in a second step
	Concept B: Two-sector approach
2	★ Ask questions on job-related participation
	★ Ask separately questions on participation due to personal interest
	Different results of Concept A and B?
3	★ Concept A seems to cover more job-related activities than concept B.
	★ Concept A seems to cover significantly less personal interest activities than concept B.
▶ Co	ncept A seems to underestimate participation based on personal interest seriously, but
	ther research is needed.
▶ Rec	commendation: International AL surveys should be based on the same concept in
1100	ticipating countries.

Helmut Kuwan 2008, OECD AL Module

5.3 Participation in informal learning

Concepts and definitions

Despite the obvious difficulties in covering informal learning empirically it is very important to consider this form of adult learning in an AL survey as well, because excluding it might lead to false conclusions in trend analyses. If only non-formal education were considered, any potential shift to informal learning might go unnoticed and be interpreted as a decline in adult learning activities.

Inclusion of informal learning in AL surveys widens the horizon of educational statistics and brings it closer to the "real-life-situation" of individual learners rather than focussing on learning in institutions only. This makes for important progress. However, the conceptual separation of informal learning from other learning activities is rather difficult.

While Australia also used the EU AES concept for informal learning, Canada, Germany, and the USA have developed different concepts. In Canada, the key concept is "self-directed learning".

Informal learning was one of the major problem areas of the EU AES. Since feedback on the EU AES concept of separating non-formal education and informal learning from countries that conducted the survey already is not very positive and all concepts mentioned above embody useful ideas, we have tried to design a new module on informal learning combining elements of different surveys.

The approach presented here asks for information on a set of activities and it covers a broader variety of learning than the EU AES. By the wording of questions and answers, it would equally avoid an "inflation" of informal learning activities.

The EU AES does not really distinguish between job-related informal learning activities and those of personal interest. Since important aspects of the "learning situation" may differ considerably between these two fields, we consider this difference important and thus favour enlarging the AES-concept here.

EDU/WKP(2008)8

Following the enlarged concept of informal learning outlined above, we suggest at the end of this chapter a module for this topic which is based on the questionnaires of Canada, Germany, the USA, the EU AES and some suggestions of the author. The basic structure of this module:

- Draws a distinction between vocational informal learning and informal learning for personal interest. The questions for covering vocational informal learning borrow from the concepts from Canada, Germany, the USA and suggestions of the author while those for personal interest follow the EU AES:
- Asks for the most important activity in the respective field;
- Asks three questions (vocational informal learning) or two questions (personal interest) on details
 of the most important activity.

One of the major problems in the EU AES was the separation of non-formal education and informal learning. Respondents sometimes reported learning from colleagues or supervisors at the workplace as informal learning. Our suggestion is to avoid most of the problems resulting from the overlap by adjusting the questionnaire better to the perspective of the respondents. This mainly refers to two categories:

- We consider advice from colleagues or supervisors to be informal learning as this usually is a spontaneous reaction to a current problem and not a planned and structured learning activity;
- on the other hand, we suggest to consider systematic and planned instructions from colleagues or supervisors (e.g. as part of company programmes on adjustment to a new job) to be non-formal learning.

The module proposed below only covers some aspects of informal learning. Countries should be free to add further aspects according to national policy priorities.

By adding a long list of additional activities, the overall participation rate in informal learning will increase. To avoid bias resulting from varying instruments, an international comparison of participation rates of informal learning should be based on the same activities. This recommendation may seem obvious, but it is not. Results based on lists that differed very much have been used in international comparisons. Different participation rates in informal learning, based on these analyses, reflected variation in the instruments rather than "real" differences between countries.

Structure of the proposed new AL module for informal learning activities:

A: Vocational informal learning

V1: Activities in the last 12 months (6 categories)

Additional option: in the last 4 weeks

V2: Most important activity

EDU/WKP(2008)8

Additional questions (referring only to the most important activity)

V3: Volume (aggregate categories)

V4: During work-time or not

V5: Subject (field) of activity

B: Informal learning of personal interest

P1: Activities in the last 12 months (6 categories)

Additional option: in the last 4 weeks

P2: Most important activity

Additional questions (referring only to the most important activity)

P3: Volume (aggregate categories)

P4: Subject (field) of activity

Questions and answer categories

A: Vocational informal learning

V1: Apart from the activities we have just discussed: Have you done any of the following activities to develop your job skills in the last 12 months?

Additional option: in the last 4 weeks

Answer categories: Yes, no, refusal, don't know

In the past 12 months, did you ...

Additional option: in the last 4 weeks, did you ...

- a) Consult books, manuals, either audio tapes, videos or other documents with the intention of developing your job skills?
- b) Use computer-based software or the Internet specifically to gain job knowledge?
- c) Observe someone perform a task with the intention of developing your job skills?
- d) Take advice from colleagues at the workplace with the intention of developing your job skills?
- e) Take advice from supervisors at the workplace with the intention of developing your job skills?
- f) Attend job-related conferences, trade shows, or conventions?

If more than one activity:

V2 What was the most important activity for developing your job skills?

Categories from V1

In CAPI or CATI, only activities with "yes" in V1 should be listed.

V 3	How much time did you spend on this activity?
() Le	ess than 5 hours
() 5 t	to 10 hours
() 11	to 40 hours
() 41	to 160 hours
() M	ore than 160 hours
() Re	efusal
() Do	on't know
give bro	omment: An open question with exact hours is not helpful here since most persons will be able to oad estimations only. As the time spent is often rather short and probably the first two categories answered often, categories of different lengths are chosen.
The foll	lowing question is only asked for categories a, b, c and f in V2.
V4	Were you doing this activity
() on	ly during paid working hours?
() mo	ostly during paid working hours?
() mo	ostly outside of paid working hours?
() on	ly outside paid working hours?
() No	ot working at that time
() Re	efusal
() Do	on't know
	omment: Questions and answer categories on vocational informal learning are based on those in the veys of Canada, Germany and the USA, but with some variation in detail.

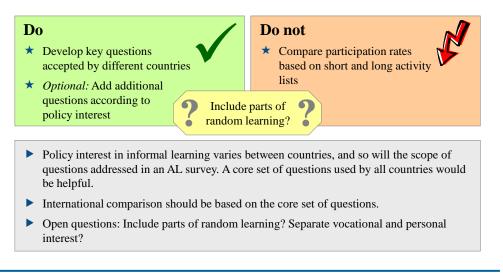
V 5 What was the main subject of this activity?	
(Open text)	
() Refusal	
() Don't know	
B: Informal learning of personal interest	
P1 Apart from the activities we have just discussed, please tell me if you have deliberately treach yourself anything that was a matter of personal interest -rather than for developing job s in the last 12 months by	
Additional option: in the last 4 weeks	
Answer categories: Yes, no, refusal, don't know.	
() Learning from a family member, friend or colleague	
() Using printed material (books, professional magazines, etc.)	
() Using computers (online or offline)	
() Through television/radio/video	
() By guided tours of museums, historical/natural/industrial sites	
() By visiting learning centres (including libraries)	
Comment: Questions and answer categories are adapted from the EU AES, but the questions here for personal interest.	us on
If more than one activity:	
P2 What was the most important activity?	
Categories from P1	
In CAPI or CATI, only activities with "yes" in P1 should be listed.	
P3 How much time did you spend on this activity?	
() Less than 5 hours	
() 5 to 10 hours	
() 11 to 40 hours	
() 41 to 160 hours	

()	More than 160 hours
()	Refusal
()	Don't know
D4	
P4	Please list the subject you taught yourself using this method.
	Please list the subject you taught yourself using this method. (Open text)

Conclusions

- 1) First results from the EU AES indicate that its concept of measuring informal learning causes some problems. Therefore, a modified module for measuring informal learning including elements from different country instruments is presented here.
- 2) Since the proposed module only covers some aspects of informal learning, countries should be free to add further aspects according to national policy priorities.
- 3) However, international comparison of participation in informal learning should refer to the same activities and not to varying instruments.

Figure 13:
Measuring informal learning in international AL surveys



Helmut Kuwan 2008, OECD AL Module

6. Volume and costs of Adult Learning

6.1 Volume

Apart from participation rates in learning activities, volume is one of the most important indicators in an AL survey. Since the volume of different learning activities varies considerably, the structures of adult education may vary with regards to the numbers of individuals participating and volume of participation. Both indicators together create a far more accurate picture than looking at them separately.

When interpreting results it has to be kept in mind that the ability to remember the volume of a learning activity is a greater problem than that of remembering the simple fact of participation. Thus, the results on volume are within a wider tolerance range than participation rates.

The statistical feasibility of a volume indicator also varies considerably between formal, non-formal and informal learning activities. While most experts agree that reasonably valid results can be expected for formal and non-formal education activities, this is far more doubtful for informal learning. The main problem is that respondents will not be able to recall the hours of informal activities learning during a 12 month reference period. For this reason, the volume of informal learning is excluded from the EU AES and most national AL surveys, while volume aspects of formal education and non-formal education in an AL survey are generally accepted.

In a shorter reference period than 12 months, the volume of informal learning might be covered. However, this indicator would not be too helpful because no comparison is possible with participation in other types of learning. Another possibility might be to cover the volume of informal learning in rather broad categories instead of open figures (see the suggestions in section 5.3). This would allow at least some comparison on an aggregate level.

The focus is on volume during the reference period. However, the learning activity may have started in the year before or end in the year after the reference period or it may take longer than one year. In these cases the volume for the reference period has to be calculated as a share of the total volume. In doing so, respondents; often will need help by the interviewer. Therefore it is important to train the interviewers in advance how to help the participants in doing volume calculations.

Volume will be estimated in hours. To make it easier for the respondents, measurement in terms of days (one day defined as 8 hours), weeks or months could also be allowed. The inclusion of homework and travelling time is suggested here as well, but this should be an additional question separated from the volume of time spent for "classroom" learning activities.

The most important issue in measuring volume seems to be training of the interviewer. As different concepts in the EU AES all had their difficulties, flexibility of instruments is important. Therefore, no recommendation on question and answers is given here.

Since volume data may refer to hours, days, weeks and months it is crucial for international comparison to develop a common understanding of recalculation. To give a concrete example: How many hours define a learning day? A learning day could be defined by 6, 7 or 8 hours. In the author's opinion, these three options all seem to be acceptable, but it is essential to use the same definition of a learning day in every country.

Conclusions

1) Apart from participation rates in learning activities, volume is one of the most important indicators when measuring adult learning. However, respondents recall volume less accurately than participation.

- 2) Volume information mostly focuses on formal and non-formal education. Using broad categories instead of open questions might lead at least to some volume information on informal learning.
- 3) Whatever the questions and answer categories, quite a few respondents will need help from the interviewer when calculating volume of learning activities in the reference period. Therefore, interviewer training on volume questions is particularly important.
- 4) AL volume data may refer to hours, days, weeks or months. In international comparison, it is essential to use the same recalculation formula (e.g. how many hours define a learning day?).

6.2 Costs

There is much policy interest in the costs of education and learning, but it has to be reinforced that individuals are not cost experts. Learners know very little about issues like indirect subsidies, incidence of costs, etc. Rather complicated cost considerations may be of high political priority, but asking about these in a population survey will lead to results of low empirical validity.

Therefore, information gathered on cost components has to be very simple and should strictly refer to the learner's perspective instead of the perspective of educational institutions or senior economists. For this reason, it is recommended here to limit information to a few aspects for which valid information can be expected:

- Volume of time spent for a learning activity. This should also include information on whether the participation was during work or not. This information can be used for developing a cost model:
- The amount paid by the participant (for tuition, registration, exam fees, books, teaching material, etc.).

According to most studies of investments in learning, the time that individuals spend in education and learning is by far the biggest part of individual learning costs. To obtain data on this issue, a question is needed on whether learning occurred during paid working time or not. Based on this information time volume can be monetarised in a cost model by combining expenditure of time and income of employees in different occupational groups, or other assumptions.

One main advantage of a cost model is that its assumptions are transparent. It also has to be noted that volume estimation of individuals are much more valid than aggregated estimations from company experts.³⁷ Therefore, the data quality of a cost model based on volume data of individuals would lead to much better results than data based on company surveys like the Continuing Vocational Training Survey (CVTS).

Beyond monetarized volume data, the scope of valid information on the costs of learning activities available from individuals seems to be rather limited. Therefore, it is recommended here that additional cost information should be focussed on one simple question: the amount contributed to a course by the participant.

Most AL surveys cover two aspects of this issue:

-

Case studies comparing answers of employees and company experts referring to participation and volume of non-formal vocational education in the same company illustrate that many company experts do not dispose of exact data on these issues. Particularly in big companies, the answers of company experts often refer to rather broad estimates that only include part of the learning activities reported by the employees.

EDU/WKP(2008)8

- Tuition, registration, exam fees,
- Books or technical study means.

Nearly all AL surveys also include questions on employer support and some country surveys like Finland and Canada ask for other sources of financial support as well.

The inclusion of employer support in the core AL module is recommended here while questions on other sources should be optional for countries. Overall, this concept follows the EU AES and includes most of the cost aspects covered in country surveys.

Asking questions on cost aspects for formal and non-formal education only is proposed.

Did any problems occur with the cost section in the EU AES? So far, participating countries did not report serious problems. However, some results of the German Pretest comparing results from the national AL survey (BSW) and the EU AES-concept for non-formal education are worth noting.

The instruments use somewhat differing wording, a different order of questions and categorical questions for costs in BSW instead of exact figures in the AES, but the content covered in both surveys is rather similar. However, results differ considerably. Using the BSW instruments, individuals have taken a share of costs more often than in the EU AES concept, while employers did so less often. One reason for this difference might be that in the BSW the rate of non-vocational learning in non-formal education activities is significantly higher than in the EU AES. However, this effect alone cannot explain the big difference in the amount paid by individuals. The overall amount paid by the group who took a share of costs below EUR 50 varies between 10% in the AES and 59% in the BSW.

These figures illustrate that the results on cost issues are highly sensitive to relatively small changes in a survey's instruments. In particular, the results seem to vary between questions with cost categories and questions asking for exact figures. We do not know which of the results above are closer to reality. Therefore, our first recommendation is to do further methodological research on this issue.

Second it is recommended here to use strictly identical instruments in international AL surveys when dealing with cost issues as even minor variations may lead to big differences.

Subject to new findings from methodological experiments, our recommendation at present is to follow the EU AES concept with one minor modification: As Statistics Sweden suggested, the order of questions on costs should be changed for formal and non-formal education so that all questions on one topic (e.g. tuition, registration, exam fees) should be asked consecutively, followed by the question on the second topic.

The following section lists the questions and answer categories proposed. "Refusal" and "don't know" categories should be included but are not shown here. Neither are technical hints for filters in CAPI or CATI.

Questions and answer categories

C1 Did this education take place

- (...) Only during paid working hours?
- (...) Mostly during paid working hours?

() Mostly outside paid working hours?
() Only outside paid working hours?
() Not working at that time
C2 Did your employer or prospective employer pay in part or in full for tuition, registration, exam fees, regarding your studies as part of this education?
() Yes, totally
() Yes, partly
() No, not at all
() There were no such costs
() Not employed at that time
C3 Did your or any member of your family pay partly or totally for tuition, registration, exam fees, regarding your studies as part of this education?
() Yes, totally
() Yes, partly
() No, not at all
() There were no such costs
C4 In the last 12 months, how much did you personally, or any member of your family, pay for tuition, registration, exam fees, regarding your studies as part of this education?
EUR
C5 Did your employer or prospective employer pay in part or in full the expenses for books or technical study means, regarding your studies as part of this education?
() Yes, totally
() Yes, partly
() No, not at all
() There were no such costs

EDU/WKP(2008)8

() Not employed at that time
C6 Did you or any member of your family pay partly or totally the expenses for books or technical study means, regarding your studies as part of this education?
() Yes, totally
() Yes, partly
() No, not at all
() There were no such costs
C7 In the last 12 months, how much did you personally or any member of your family pay for books or technical study means, regarding your studies as part of this education?
EUR
Conclusions

- 1) Questions on costs should be simple. They should strictly refer to the learner's perspective, not to an institutional perspective.
- 2) Learners know very little about issues like indirect subsidies, incidence of costs, etc. These aspects may be of high political priority but asking about them in a population survey will lead to results of low empirical validity.
- 3) The time spent in education and learning is the biggest part of individual learning costs. Therefore, one key question is whether learning took place during paid working time or not.
- 4) Following the basic concept of the EU AES and most country surveys, we suggest focusing additional cost information on the amount contributed to a learning activity by the participant. This includes two aspects: (A) tuition, registration, exam fees; (B) books or technical study means.
- 5) Cost issues seem to be highly sensitive to relatively small changes of categories and questions in a survey. For this reason, we recommend using strictly identical instruments for measuring cost aspects in international AL surveys.
- 6) Further methodological research on this issue is needed to clarify which concepts lead to results that are closer to reality.

Figure 14: Measuring cost aspects in international AL surveys

Do

- ★ Ask simple questions on cost issues
- ★ Refer to formal and non-formal learning



Do not

- ★ Ask for indirect subsidies, incidence of costs, etc.
- ★ Compare results based on varying instruments



- Questions on costs should be simple.
 They should refer strictly to a learner's perspective.
- ► There are two key issues:
 - 1) Did learning take place during paid working hours?
 - 2) How much did participants pay?
- ▶ Results seem to be highly sensitive to small changes of survey instruments.

Helmut Kuwan 2008, OECD AL Module

13

7. Providers and fields of Adult Learning

7.1 Providers

Concepts and definitions

As stated in chapter 5.3, informal learning takes place outside of the educational system; usually no professional teacher – and no provider - is involved. Formal education on the other hand varies so much between countries that this report recommended no generalised questions on participation in this field (see 5.1). Therefore, this section on providers refers to non-formal education only.

The term "provider" is used by educational experts as well as in colloquial language. The colloquial use of the term is ambiguous. It may refer to the institution providing the teacher or the learning activity as well as to the location where learning is provided. So who should be considered to be the provider of training when those two aspects differ, e.g. when an AL institute provides training in a company?

The criterion for defining a provider should be the teacher or lecturer rather than the place of learning, as stated in the EU AES manual. The EU AES uses the following definition:

"The provider of education is defined as enterprise/municipality/governmental authority/private person who provides the teacher, lecturer or instructor for the learning activity. The place for learning activity or the organisation/enterprise which paid for the learning activity should consequently not be stated." ³⁸

It is very important to communicate this concept to the respondent. The interview should be very clear on this issue (see "the "question and answers section" below).

Provider structures may differ very much between countries. Some providers will be very frequent in one country and less important or even not existing in others. Therefore it will not be possible to develop a manageable list of all important national providers for the countries involved in an international survey simply because this list would be far too long.

On the other hand, some providers exist in nearly all countries. These providers constitute a "core set" of common categories to which all countries are able to gather information. These common categories should be used as a basis for an international comparison of providers. However, these categories often will not lead to sufficient information on a national level. Therefore we suggest combining common and country-specific categories.

The methods used in a survey to gather information on providers may differ between countries. Countries may use

- A list of providers with common and country-specific categories, including a residual category for other providers or;
- A national list of providers which is transferred to the common international categories after the interview or;

EU AES manual 2005, p. 27. This definition stating that "The provider ... is defined as ... (the one) who provides." also illustrates the difficulties in defining the term. Nevertheless the difference stated in the definition seems to be appropriate.

• An open question which is post-coded according to the proposed categories after the survey;

All these methods may lead to meaningful information. The choice of the appropriate method should be left to countries. However, experience from some countries conducting the EU AES survey (e.g. Cyprus) shows that post-coding answers to an open question on providers can be quite difficult.

If lists are used in a survey, is it better to use separate lists for providers of vocational and non-vocational or to use an integrated provider list? Again, this decision depends on the provider structures of the countries.

If it is feasible we prefer to use an integrated list of providers for both sectors. In some countries, however, provider structures in these sectors may differ so much that an integrated list would be too long. In this case, the use of separate lists would be a better solution. Therefore, no general recommendation is given here.

Questions and answer categories

The following questions and answer categories show examples for the first and third method mentioned before.

Question 1 refers to a core set of common categories to which each country should add categories for country-specific providers wherever this is necessary. The listed categories refer both to vocational and non-vocational non-formal education. They could be changed into two questions with separate lists for each sector if necessary. The answer categories of question 1 combine slightly modified input from the EU AES, Australia, Canada, Finland, Germany, Sweden and the USA.

The second method used in question 2 is to ask an open question and to post-code the answers. In doing so, the question is very simple but, as stated above, the difficulties of post-coding the answers should not be underestimated. Question 2 is taken from the EU AES questionnaire from Cyprus to which a hint addressed to the interviewer were added.

Pr 1 Who was the provider of this activity?

Interviewer: In case of ambiguity, please explain to the respondent: "Provider" is defined by the teacher or coarse leader, not by the learning location.

- (...) Employer, own company
- (...) Private training institute or private business school
- (...) Other company or commercial institution where training is not the main activity

(e.g. supplier of equipment)

- (...) Employers' organisation, chamber of commerce
- (...) Trade union, labor union
- (...) Professional association or organisation
- (...) University, university college, high school

EDU/WKP(2008)8

- (...) Non-profit association, e.g. cultural society, political party, NGOs, etc.
 (...) Trade/vocational school or publicly-funded technical institute
 (...) Dance school or institute
 (...) Driving school
- (...) Private person (e.g. students or teachers giving private lessons)(...) Categories for country-specific providers (to be added by each country)
- (...) Other provider, please specify:
- (...) Don't know
- (...) Refusal

Pr 2 Who was the provider of this activity? Please give the name of the institution / service.

Interviewer: In case of ambiguity, please explain to the respondent: "Provider" is defined by the teacher, not by the learning location.

Note: The answers to question Pr 2 will be post-coded after the interview.

Figure 15: Providers of non-formal education

Do

- ★ Define "provider" by the teacher, not by learning location
- ★ Combine a "core set" of common and country-specific provider categories

Do not

★ Leave the decision what the term "provider" means to the respondent



- International AL surveys should gather information on a "core set" of common categories. In most countries, country-specific categories will have to be added.
- ▶ The methods used in a survey may differ between countries. Countries may use
 - * a list of providers
 - * an open question which is post-coded.
- Do not underestimate the difficulties of post-coding answers to an open question on providers!

Helmut Kuwan 2008, OECD AL Module

7.2 Fields of learning

Concepts and definitions

The term "fields of learning" refers to the content of learning activities. ISCED provides a classification system for not only levels of education and training but also for fields of education (see Andersson, R., Olsson A.K. 1999). Some conceptual issues on classification also were discussed in the CEDEFOP-project "Harmonised List of Learning Activities (HaLLA)" (see Gnahs et. al. 2002).

The ISCED classification of fields was developed mainly for formal education. The EU AES uses this classification also for non-formal education and informal learning. This is a very interesting approach. How well did it work in practice?

Although a few countries report problems in coding formal education activities by ISCED fields (for example, in the German pretest one out of four formal learning activities could either not be classified at all or not unambiguously) most countries had no difficulty with this classification in formal education.

In non-formal education and informal learning, the recommendation in the EU AES was to use an open question with the possibility of a three digits post coding. Several major problems were connected with post coding here.

In a methodological experiment from Statistics Sweden, two persons independently coded learning activities in non-formal education and informal learning. The reliability of the coding seriously decreases at ISCED digit level 3: "For non-formal learning activities, the quality is much better for field of education according to ISCED on 1 digit level or 2 digit level than for 'fields of education and training' on 3 digit level" (Larsson 2006, p.38). Reliability of ISCED field classification decreases particularly in non-formal education but also in informal learning.

Another problem of ISCED fields is a very unequal distribution of field codes (see below). Results from the German Pretest show that there are four field codes at the 1- digit level that individually include only 0-2 percent of learners in formal and non-formal education and in informal learning while the aggregated share of four other field codes varies between 45% and 63%. If distributions in other countries show similar results, codes will have to be revised.

When using open questions, sometimes the descriptions of the respondent are not detailed enough for coding. Training of the interviewers reduces this problem to a certain extent. In order to get more information for coding some countries ask one question on the name of the learning activity and another one on the main subject. For example, Sweden asks for the name of the programme, course or other activity and for the main content of the learning activity in formal and non-formal education while only one question about the main content is used for post coding field of informal learning. Some other countries (e.g. Finland, the USA) use a similar approach.

An alternative option would be to use a list or show cards for classification on the first digit level and to ask an open question on content afterwards. In this case, the learners would classify the fields of the learning activities. We expect a classification by the learners themselves to be more valid than an ex post classification of an open question by other persons. However, a list would have yet to be developed as the

categories recommended for the first digit of the EU AES do not appear to be a final solution for non-formal education and informal learning already.³⁹

Many learning activities refer to several subjects. If possible, classification should be based on the major field according to the rating of the learner. In addition, a separate code is needed for learning activities where the main focus is an interdisciplinary approach.

Questions and answer categories

Orientation for new employees

To pin down open questions on fields in this section would be rather easy but not very helpful. The key issue to deal with is the classification of fields.

The ISCED classification of fields seems to work acceptable in formal education. To use it also in non-formal education and informal learning is a very interesting idea, but results from the EU AES show serious difficulties when putting this classification into practice.

According to the author's opinion, there is still a need to develop a classification system of fields for non-formal education and informal learning. This task goes beyond the scope of this report and would need a separate research project to solve it. ISCED fields act as an important discussion point but probably they are not yet a conceptual solution. Alternative approaches, e.g. a combination of a common list for the first digit level followed by an open question, also should be tested.

Although this report cannot solve the classification problem, a concrete input for discussion might be helpful. The following answer categories are an example for a list of subjects or fields in vocational nonformal education that might be applicable for vocational informal learning as well. The answer categories mainly come from the Canadian Workplace and Employee Survey (WES) with a few additions from the EU AES, CVTS and the author.

F 1 What was the main subject or field of this course or training?

(1.17)
() Computer hardware or software
() Managerial or supervisory training (e.g. coaching, leadership)
() Office administration (accountancy, secretary, office equipment, etc.)
() Manufacturing, non-office machinery and equipment (e.g. forklift, truck maintenance)
() Sales and marketing (e.g. consumer service)
() Occupational health and safety, environment, sustainability
() Group decision-making, problem solving, team building, communication
() Personal development (e.g. time management, stress management, retirement)
() Personal services (tourism, security, etc.)

For telephone interviews, a long list is not appropriate. A list would have to be adapted to the needs of a telephone interview, e.g. by splitting it into two or more questions

() Education, teacher training, etc.
() Mathematics, physical sciences, biology, chemistry
() Health, medicine, dentistry
() Language training
() Apprenticeship training
() no single main subject, interdisciplinary approach
() Other field, please specify:
() Don't know

Figure 16: Fields of learning

- ► The ISCED-classification of fields was developed for formal education. Most countries did not report major difficulties when classifying formal education by ISCED fields in EU AES.
- ➤ To use ISCED fields also in non-formal education and informal learning is an interesting idea. However, in EU AES serious difficulties are reported by many countries for informal learning and by some for non-formal education.
- ▶ There is still a need for developing a classification system for fields in non-formal education and informal learning. ISCED fields are an important input but no final solution.
- ▶ Alternatives to the EU AES approach of asking an open question on fields and postcoding it should be tested. One alternative might be a common list for the first digit followed by an open question for more details on content.

Helmut Kuwan 2008, OECD AL Module

8. Obstacles and benefits of Adult Learning

8.1 Concepts and definitions

This section refers to obstacles and benefits of non-formal education only. However, most of the following comments apply for formal education and some for informal learning as well.

The basic meaning of the terms "obstacles" and "benefits" is easy to understand. This might be the reason why no specific definition was found in the manuals and papers examined. Still, a short specification of terms might be helpful. The working definition for this section is as follows:

Obstacles in adult learning are influencing factors reducing the probability of adults to participate in adult learning activities.

Benefits of adult learning are tangible outcomes or perceived personal advantages resulting from participation in adult learning activities.

AL surveys mostly gather information on both issues. In European AL surveys, the major focus often seems to be on obstacles while non-European countries, particularly the USA and Canada, tend to cover obstacles and benefits more equally. The author prefers the non-European approach here.

It should be stated clearly that it is not possible to cover the variety of discussions on obstacles and benefits within a few pages in this report. Rather than summarising the discussion broadly, the aim of this section is to point out some general and specific "empirical basics". These remarks refer to five issues:

- The limits of quantitative data;
- Limits of international surveys;
- Social desirability;
- The need to look at different target groups;
- The need to connect items with behavioral aspects.

Knowing more about obstacles and benefits of adult learning is very important for policy makers. Quantitative data alone, however, will not give enough information for designing programmes. With regard to special target groups, qualitative data are indispensable. Policy relevant studies on obstacles and benefits require the application of both quantitative and qualitative methods.

There is an important difference between the potential capacity of information in national and international AL surveys. In international AL surveys, it is only possible to cover some rather broad aspects. National surveys allow for information that is more detailed. In national surveys, information can be tailored to the national educational framework.

Social desirability may strongly influence questions on obstacles and benefits connected with participation in education and training. The majority of the population accepts the general importance of life-long learning. This does not necessarily mean that respondents equally approve the importance of life-long learning for their personal situation. Therefore, specific obstacles items connected to the personal situation of the respondents will lead to more valid information than general items. To illustrate this by an example: An item on obstacles stating "I had no time" will lead to less valid results then specific items like

"I had no time because of my family responsibilities" or "I had no time because I was too busy at work" (see question and answers for more detail).

When looking at obstacles it is also important to differentiate between participants and non-participants. The EU AES concept (see AES manual 2005, p. 28) tries to focus on four groups:

- Respondents who already participated and did not want to participate more.
- Respondents who already participated but wanted to participate more;
- Respondents who did not participate but wanted to participate;
- Respondents who did not participate and did not want to participate;

For our discussion the last three groups appear to be more relevant than the first one;

There are many different ways of classifying obstacles. From an empirical perspective, the following seven aspects seem to be particularly important:

- 1) General attitudes towards life-long learning;
- 2) Learning dispositions (e.g. fear of failure, self-confidence);
- 3) Individual preference for learning methods;
- 4) Personal life situation (e.g. family situation, health problems, etc.);
- 5) Learning environment (at work and private);
- 6) Institutional framework (time-schedule of courses, costs, regional disparity etc.);
- 7) Transparency (need for more information or consultancy on life-long learning).

Wherever possible, a questionnaire should *connect obstacles to behavioural aspects*. Affirmation of an obstacles item by someone who made an effort to participate in non-formal education but did not succeed is "harder evidence" than affirmation by someone who never tried.

These general remarks may help the reader to find orientation in the "ocean of items" connected with obstacles. Further discussion on specific items is found in the question and answer section.

As for benefits, a variety of aspects exists, too. In addition to short-time benefits, the discussion also includes social outcomes of learning such as social participation, mental and physical health, intergenerational effects, etc. It will not be possible to take up most of these aspects in this report. The questions and answers stated below mainly deal with short-time output effects, not with outcome.

Methodologically, panel studies would be particularly interesting to measure benefits of adult learning, but presently, international AL studies do not usually take the form of panel studies. Therefore, we suggest asking no questions that would require a panel design to answer them.

(...) No

If Q1 was yes proceed to Q4 B

If Q2 was yes proceed to Q5 A

8.2 Questions and answer categories

The following questions and answer categories refer to vocational non-formal education only. In order to keep the instrument rather simple, no questions on obstacles are asked for persons who already participated and did not want to participate more. Also, no questions are asked on specific obstacles that participants had to overcome. The questions are addressed to the three major target groups of this section:

- Respondents who already participated but wanted to participate more;
- Respondents who did not participate but wanted to participate;
- Respondents who did not participate and did not want to participate.

The obstacle items lean on the EU AES questions with a few modifications of answer categories, part of them resulting from Finnish item testing. The suggestion below also simplifies the splits used in the EU AES.

In addition to the questions from the EU AES, question and / or answer categories from Canada, the USA and suggestions of the author were added.

The questions on benefits mainly refer to questionnaires from Canada and the USA, with a few additions from the EU AES (particularly from Finland) and the German BSW.

Question to non-participants in the last 12 months

Q1 In the last 12 months, did you want to participate in education and training?
() Yes → Proceed to question Q3
$()$ No \rightarrow Proceed to question Q4 A
Question to participants in the last 12 months
Q2 Would you have liked to participate in some additional education or training during the last 12 months?
() Yes → Proceed to question Q3
$()$ No \rightarrow Proceed to question Q6
Q3 Did your interest lead you to actually look for any information about training, workshops, seminars, courses, or classes?
() Yes

Target group for Q4 A: Non-participants who did not wish to participate

Q4 A What were the reasons why you did not wish to participate in any education or training during the last 12 months?

Target group for O 4 B: Non-participants who wished to participate

Q4 B Do any of the following reasons explain why you did not participate in any education or training during the last 12 months?

		YES	NO	NOT WORKING AT THAT TIME
a)	You did not need it for your job			
b)	You did not need it for your personal (not job related) reasons			
c)	You did not have the prerequisites to be accepted to participate			
d)	Training was too expensive for you			
e)	Lack of employer support			
f)	You did not have time because you were too busy at work			
g)	You did not have time because of your family responsibilities			
h)	There was no training offered within a reachable distance			
i)	You were not confident with the idea of going back to something that is like school			
j)	Your health or age did not allow you to participate			
k)	You could not find the training you wanted to take			
1)	Lack of confidence			
m)	Was there another important reason? If yes, please specify			

If respondent marked more than one obstacle:

Q4 C Which reason was most important?

Repeat categories from Q4 A

(...) Don't know

All respondents in Q4 B and C proceed to Q6!

Target group: Participants who wanted to participate more

Q5 A Do any of the following reasons explain why you did not participate in any additional education or training during the last 12 months?

		YES	NO	NOT WORKING AT THAT TIME
a)	You did not have the prerequisites to be accepted to participate			
b)	Training was too expensive for you			
c)	Lack of employers support			
d)	You did not have time because you were too busy at work			
e)	You did not have time because of your family responsibilities			
f)	There was no training offered within a reachable distance			
g)	You were not confident with the idea of going back to something that is like school			
h)	Your health or age did not allow you to participate			
i)	You could not find the training you wanted to take			
j)	Lack of confidence			
k)	Was there another important reason? () If yes, please specify			

If respondent marked more than one obstacle:

Q5 B Which reason was most important?

() D	on't know		
------	-----------	--	--

Repeat categories from Q5 A

(...) Yes

(...) No

Target group: participants and non-participants

Q6 In the last 12 months, was there any education or training that you needed to take for a current or future job but did not?

()	Refusal
Q7	Do you have a good overview of training which is useful for you?
()	Yes
()	No

() Refusal
Q8 Would you like to have more information and advice on training which is useful for you?
() Yes
() No
() Refusal
Comment: A combined analysis of the simple questions 07 and 08 on transparency obstacles had proved to be very helpful in examining problems during the German reunification.
Benefits
$B\ 1$ How much have you used (or do you expect to use) the skills or knowledge that you acquired from this activity?
() A lot
() A fair amount
() not too much
() Very little
() Not at all
Comment: B1 can be asked either as a summarized question with regard to all vocational non-formal education in the last year or more specifically with regard to one activity. In this case, very short activities (e. g. less than 8 hours) should be excluded.

B 2 Up to now, has the training in which you participated actually helped you to

(mark all that apply)

	YES	NO
Do your job better?		
keep your job?		
Help you find or change a job?		
Change your occupational field?		
Increase your income?		
Get a promotion?		
Learn entirely new skills?		
Start your own business?		
Improve your self-confidence?		
Improve your self-confidence		
other important benefit, please specify		
Refusal		
Don't know		

If respondent marked more than one benefit:

B 3 Which benefit was most important?

Repeat categories from B 2

(...) Don't know

B 4A Did this activity lead to a certificate or license which is required for your current or planned job or profession?

- (...) Yes \rightarrow Proceed to question B 4B
- (...) No \rightarrow End of questions on benefits
- (...) Don't know

B 4B What kind of a certificate or license did this activity lead to?

Comment: Add country-specific codes

B 5 Did you receive this certificate or license?

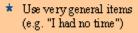
- (...) Yes
- (...) No
- (...) Not finished yet
- (...) Refusal
- (...) Don't know

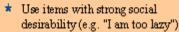
Figure 17: Obstacles and benefits of Adult Learning

Dο

- Use specific items (e.g. "no time because of my family responsibilities")
- Try to connect obstacles with behavior instead of asking for attitudes only
- * Ask for benefits as well

Do not







- Items on obstacles should be tailored to specific situations.
- Obstacle items connected to real behavior will lead to more meaningful information than
 questions on attitudes.
- Information should be gathered on benefits as well. Questions on benefits should not be restricted to economic benefits only.

Helmut Kuwan 2008, OECD AL Module

9. Background variables

The focus of this section is to state which background variables should be included in an international AL survey. Quite a few of these variables are more or less self-explanatory (sex, year of birth, etc.), but discussions on some items are controversial.

The first part of this section lists the background variables that should be included in an international AL survey. The second section deals with an example of a controversial issue: the occupational status one year before the survey as recommended by the EU AES.

9.1 Overview of background variables

We consider the following background variables as very important for an AL survey:

- Sex
- Year of birth
- Nationality
- Years of residence in this country
- Country of birth
- Degree of urbanisation⁴⁰
- Number of persons living in the same household (including the respondent)
- Highest level of education or training successfully completed
- Field of highest level of education or training successfully completed
- Main current labour status
- If possible: Labour status at the time of the learning activity (see 9.2)
- Professional status; occupation
- Economic sector
- Economic activity of the local unit
- Number of persons working at the local unit
- Permanency of the job
- Full-time / part-time distinction

This information is usually taken from AR-registers or from sample-points in RR-samples.

- Existence of more than one job or business (currently)
- Income group based on the monthly (take home) pay from main job

9.2 A controversial example: Professional situation one year before a survey

Among the background variables recommended with highest priority for the EU AES is the professional situation of the respondent one year before the survey. This includes a few variables like professional status, occupation, permanency of job etc. How much useful information is gained from these variables?

The intention of the EU AES is to connect these variables with learning activities. However, the occupational status one year before the survey may differ from the one at the time of the interview. In fact, the link between these variables and learning activities is not too close. Capturing at least some information on the labour situation at the time of the learning activity will raise the validity of data on the link between occupation and learning. Therefore, the German AES decided to ask for information on occupational events instead of the occupational status one year before the survey. The Canadian AETS goes one step further and asks for the labour status at the time of the learning activity.

Although it will not be possible to cover a one-year job history of respondents in detail in an AL survey, it is possible to get some valid information with little response burden. For example, the simple addition of the category "not employed at this time" to a question on employer's cost share would bring on a closer connection already as this answer reveals the occupational situation at participation time (see question C2 in section 6.2).

Questions referring to events in professional life will lead to information connected closer to participation in learning activities than the occupational status one year before the survey. This approach causes a rather small response burden and allows capturing the occupational situation at the time of the learning activity for quite a few groups.

When asking directly for the labour status at the time of the learning activity this information will be available for all groups of learners. However, as this question will refer to several learning activities the response burden is also somewhat higher. Methodologically, this approach is recommended if the survey scope allows its use.

Questions and answer categories

The following examples on questions and answers refer to two different approaches:

- Information on occupational events (B1);
- Information on the labour status at the time of the learning activity (B2 to B 4).

The categories of the following example question on events come from the ALL survey, from Canada and the German AES.

B 1 During the last 12 months, were you ...

- (...) always working at the same job or
- (...) did you change your job, but were never unemployed or

EDU/WKP(2008)8

() did you change your job, and were unemployed for some time or
() were you unemployed all the time or
() did you retire during the year?
() Refusal
() Don't know
The following questions and answers are taken from the Canadian AETS with a slight condensation.
B 2 While you were taking this program/course last year, were you
() self-employed?
() an employee?
() temporarily laid off?
() not working and looking for work?
() not working and not looking for work?
() Refusal
() Don't know
If respondent was not working at time of training, go to next block. If respondent was working while training and is currently unemployed, go to B4Else go to B3
B 3 Is your current job the same as the one you held while taking this program/course?
() Yes
() No
() Refusal
() Don't know
Go to next block
B 4 Is your most recent job the same as the one you held while taking this program/course?
() Yes
() No
() Refusal

(...) Don't know

Conclusions

- 1) We do not recommend to ask for the professional situation one year before the survey because this information is not linked very closely to learning activities.
- 2) Event-orientated questions seem to be a better solution.
- 3) Methodologically, the best solution would be to ask directly for the labour status at the time of the learning activity. However, the response burden of this alternative is also somewhat higher.

10. Final note: A word on imputation in the AL field

Since this report deals with international comparison, some aspects beyond survey scope are very important. One is imputation.

Often, analyses in international comparisons work with imputed data. This may improve data quality but it may also lead to serious hazards.

Only if very stable correlations exist will imputation lead to useful additional information. In this case, different countries have to use common rules and imputation models.

Two more aspects are crucial: the use of imputation models should remain transparent, and it should be possible for different groups of researchers to check these models. Transparency is also needed with regard to other aspects:

- Datasets have to indicate whether imputation was applied for a variable or not;
- Data should make it possible to analyse data before and after imputation.

So far, acceptance of these principles is far from evident for international comparisons in the AL field. It is recommended that imputation be used very restrictively and that it be combined consistently with very straightforward documentation.

Figure 18: Prospects and hazards of imputation

Do not ★ Use imputation only when referring to proven correlation ▶ Imputation should be used restrictively. Only if very stable correlations exist will imputation increase options for analyses. ▶ Imputation without common standards or without documentation of models increases imponderability of analyses. Datasets should include variables before and after imputation.

Helmut Kuwan 2008, OECD AL Module

ANNEX 1: ACRONYMS USED IN THIS REPORT

ΑE	Adult Education
AL	Adult Learning

ALL Adult Literacy and Lifeskills Survey

AES Adult Education Survey

AETS Adult Education and Training Survey

AR Address Random

BSW Berichtssystem Weiterbildung (Germany's Reporting System on Continuing

Education)

CAPI Computer Assisted Personal Interview
CATI Computer Assisted Telephone Interview
CET Continuing Education and Training
CLA Classification of Learning Activities
CVTS Continuing Vocational Training Survey
EU AES European Adult Education Survey

F2f Face-to-face

HaLLA Harmonised List of Learning Activities IALS International Adult Literacy Survey

ICT Information and Communication Technology
IPEDS Integrated Postsecondary Education Data System
ISCED International Standard Classification of Education

ISSPInternational Social Survey Programme

LFS Labour Force Survey LLL Life-long Learning

NFQNational Framework of Qualifications

NPSAS National Postsecondary Student Aid Study

OECD Organisation for Economic Co-operation and Development

PIAAC Programme for the International Assessment of Adult Competencies

RR Random Route

SLA Single Learning Activities

WES Canadian Workplace and Employee Survey

ANNEX 2:REFERENCES

- AES-questionnaires from different European countries, different years.
- Alt, C., Bien, W., Krebs, D.: Wie zuverlässig ist die Verwirklichung von Stichprobenverfahren? Random route versus Einwohnermeldeamtsstichprobe, in: ZUMA-Nachrichten 28/1991, S. 65ff (available in German only).
- Andersson, R., Olsson A.K.: Fields of Education and Training Manual, Ed. by Eurostat, December 1999.
- Australian Bureau of Statistics 2006: Survey of Adult Learning, 2006.
- Eurostat: Classification for Learning Activities. Draft manual, 2005.
- Eurostat: EU AES manual. Draft manual, 2005.
- Giddings, D., Kuwan, H.: Development of an international Continuing Education and Training Module (OECD-Module), based on 16 countries. Report on Phase 2. OECD, Paris 2002
- Gnahs D., Ioannidou A., Pehl, K., Seidel, S. (Edited by: Descy P., Moussoux, A.F. and Pilos, S.): Harmonised List of Learning Activities (HALLA). Final version. 2002.
- Instituto Nazionale di Statistica: Multi-purpose statistical household survey. Citizens and Leisure Time 2006.
- Kangassalo, Pertti and Heiskanen, Markku, Testing the mode effects in the Finnish consumer survey, 2002.
- Kuwan, H.: Reporting System on Continuing Education VII. Initial results of the 1997 BSW survey on the present status of and trends in continuing education in the western and eastern Laender of the Federal Republic of Germany. Published by: Federal Ministry of Education and Research, Bonn 2000
- Larsson, Ann-Charlotte, Statistics Sweden: Experiences from implementing EU Adult Education Survey, 2006
- Rosenbladt, B., Bilger, F., Post, J.: Konzeptstudie BSW-AES. Nationale und europäische Bildungsberichterstattung im Themenfeld Weiterbildung: Übereinstimmungen und Differenzen. TNS Infratest (available only in German), 2005.
- Solheim, L., Harland I., Lagerstrom, B.: Proxy interview and measurement error of employment for the age group 16-29: The Norwegian Labour Force Survey, Statistics Norway (no year).
- Statistics Canada: Adult Education and Training Survey, 2003.
- Statistics Canada, Peters, V.: Working and training. First results of the 2003 Adult Education and Training Survey, Ottawa 2004. http://www.statcan.ca/english/research/81-595-MIE/81-595-MIE2004015.pdf
- Statistics Finland: Adult Education Survey 2006
- UNESCO and UNESCO Institute for Statistics: International Standard Classification of Education (ISCED 1997). November 1997.
- US-Adult Education for Work-Related Reasons Survey of the 2003 National Household Education Surveys Program. (AEWR-NHES: 2003).

ANNEX 3: EXISTING OECD EDUCATION WORKING PAPERS

- No.1 Teacher Demand and Supply: Improving Teaching Quality and Addressing Teacher Shortages (2002), Paulo Santiago.
- No.2 Teacher Education and the Teaching Career in an Era of Lifelong Learning (2002), John Coolahan.
- No.3 Towards an Understanding of the Mechanisms That Link Qualifications and Lifelong Learning (2003), Friederike Behringer, Mike Coles.
- No.4 Measuring Educational Productivity in Standards-Based Accountability Systems: Introducing the SES Return on Spending Index (2005), Martin Hampel.
- No. 5 PISA 2000: Sample Weight Problems in Austria (2006), Erich Neuwirth.
- No. 6 Funding Systems and their Effects on Higher Education Systems . International Report (2007), Franz Strehl, Sabine Reisinger and Michael Kalatschan.
- No. 7 On the Edge: Securing a Sustainable Future for Higher Education (2007), OECD/IMHE-HEFCE.
- No. 8 Globalisation and Higher Education (2007), Simon Margison and Marijk van der Wende.
- No. 9 *Understanding the Regional Contribution of Higher Education Institutions:* A Literature Review (2007), Peter Arbo and Paul Benneworth.
- No. 10 Effects of Tertiary Expansion. Crowding-out Effects and Labour Market Matches for the Higher Educated (2007), Bo Hansson.
- No. 11 *Skilled Voices? Reflections on Political Participation and Education in Austria* (2007), Florian Walter and Sieglinde K. Rosenberger.
- No. 12 Education and Civic Engagement: Review of Research and a Study on Norwegian Youths (2007), Jon Lauglo and Tormod Oia.
- No. 13 School Accountability, Autonomy, Choice, and the Level of Student Achievement: International Evidence from PISA 2003 (2007), Ludger Wössmann, Elke Lüdemann, Gabriela Schütz and Martin R. West.
- No. 14 School Accountability, Autonomy, Choice, and the Equity of Student Achievement: International Evidence from PISA 2003 (2007), Gabriela Schütz, Martin R. West, Ludger Wössmann.
- No.15 Assessment of learning outcomes in higher education: a comparative review of selected practices. (2008), Deborah Nusche.
- No.16 Approaches and Challenges to Capital Funding for Educational Facilities (2008), Ann Gorey.
- No. 17 Recent Developments in Intellectual Capital Reporting and their Policy Implications (2008), W. Richard Frederick.

EDU/WKP(2008)8

No. 18 Employers' Perspectives on the Roles of Human Capital Development and Management in Creating Value (2008), L. Bassi & D. McMurrer.

No. 19 *Job-related Training and Benefits for Individuals: A Review of evidence and explanations* (2008), Bo Hansson.

No. 20 A Framework for Monitoring Transition Systems (2008), Rolf van der Velden.

The OECD Education Working Papers Series On line

The OECD Education Working Papers Series may be found at:

The OECD Directorate for Education website: www.oecd.org/edu/workingpapers

The OECD's online library, SourceOECD: www.sourceoecd.org

The Research Papers in Economics (RePEc) website: www.repec.org

If you wish to be informed about the release of new OECD Education working papers, please:

Go to www.oecd.org

Click on "My OECD"

Sign up and create an account with "My OECD"

Select "Education" as one of your favourite themes

Choose "OECD Education Working Papers" as one of the newsletters you would like to receive

For further information on the OECD Education Working Papers Series, please write to: edu.contact@oecd.org.