TODAY'S OVERALL PICTURE OF DISTANCE EDUCATION

cation, sometimes supplemented by face-to-face contacts, no other students. group interaction, i.e. for individual students communicating with in the world. In some cases arrangements are also made for peerof pre-produced course materials and non-contiguous communidoubt represents the praxis of most distance-teaching institutions distance-teaching school or university, which - following Delling communication between students and tutors and others in the materials but also for correspondence, telephone and computer students printed and recorded courses but no mediated comgroups. There are distance-teaching universities that offer their (1987b) and earlier - I call the supporting organization. This use British Open University, make provision not only for course Open Universiteit and the Colombian Unisur. Others like the face-to-face teaching. This applies, for example, to the Dutch munication, although they sometimes provide supplementary mediated contacts between students and tutors, individually or in system including specially prepared study materials and regular, without special study guides, to others, it is a teaching-learning education is identical to private study of prescribed texts with or is universal agreement about its characteristics. To some, distance take part in classroom teaching. This does not mean that there study opportunities for those who cannot - or do not want to -Distance education is practised in all parts of the world to provide

Usually students learn entirely individually and at their own pace. They then neither belong to a group or class, nor feel that they do so. A great number of exceptions to this rule occur, however. Universities sometimes teach some groups of students by distance-education methods and other groups face-to-face -

they are so-called dual-mode organizations. Even single-mode organizations -- like distance-teaching universities -- in many cases endeavour to some extent to keep students together in groups and do so by imposing regulations of various kinds. Nevertheless, individual study basically characterizes distance education.

THE DISTANCE-EDUCATION CONCEPT

The concept of distance education that this book is based on implies consistent non-contiguous communication between the supporting organization and its students. This communication is of two kinds:

- 1 One-way traffic in the form of pre-produced course materials sent from the supporting organization and involving students in interaction with texts; this can be described as simulated communication
- 2 Two-way traffic, i.e. real communication between students and the supporting organization.

As far as it is non-contiguous, this communication must be mediated. The media used for the one-way traffic are in most cases the printed and recorded word and for the two-way traffic correspondence and telephone interaction. More sophisticated media are now widely used (telefax and electronic mail, for example). They are discussed in Chapter 6.

Distance education thus has two constituent elements, the teaching exposition referred to as one-way traffic and the real communication by means of which students have access to personal tutoring and counselling. With this understanding of its two constituent elements I would define distance education as covering the various forms of study at all levels which are not under the continuous, immediate supervision of tutors present with their students in lecture rooms or on the same premises but which, nevertheless, benefit from the planning, guidance and teaching of a supporting organization.

The term distance study is sometimes used in the sense of distance education (no doubt a translation of German Fernstudium, which means university-stage distance education), but should be limited to denoting the activity of the distance students while distance teaching denotes that of the supporting organization, particularly its writers, editors and tutors. Others have gone

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further in their descriptive definitions of distance education, thus including the role of possible supplementary face-to-face sessions and organizational-administrative aspects. See Keegan (1980a, b and 1990) as well as Bååth (1981).

The addressees of distance education are usually individual students although it sometimes also serves group learning, by tele-conferencing, for example.

THE EVOLUTION OF DISTANCE EDUCATION

Teaching and learning by correspondence is the origin of what is today called distance education. Correspondence education has been known for several generations, mainly as part of adult education. References to what was probably correspondence education occur as early as the 1720s and to what was indisputably correspondence education in the 1830s (Battenberg 1971: 44; Bratt 1977: 161; Holmberg 1986: 6-7). Correspondence education is taken to denote teaching in writing, by means of so-called self-instructional texts, combined with communication in writing, i.e. correspondence between students and tutors.

cation occurred in 1982 when the International Council for cation. A degree of formal recognition of the term distance eduof Distance Education, and the US American Journal of Distance Eduthe Australian journal, Distance Education, the Canadian Journal in the very first issue of the British Open University journal, iodicals concerned with this type of education. 'Distance' occurs internationally. Usage in this context can be studied in the perland, and other parts of the English-speaking world, as well as Correspondence Colleges), in North America, Australia, New Zeadom and Ireland (though resisted by the Association of British designation that has gradually been adopted in the United Kingies Association. Since the early 1970s, distance education is the study (Lambert 1983) have been used as competing terms. The hence the name, the Australian and South Pacific External Studsame applies to external study in Australia and New Zealand; spondence education was felt by many to be too narrow. In North Teaching at a Distance (1974: 1, 35 and 55), and in the names of America, independent study (cf. Wedemeyer 1981) and home word became common and grew in importance, the term corre-As, for both of these elements, media other than the written

Correspondence Education (ICCE) changed its name to the International Council for Distance Education (ICDE).

edged type of education, far from seldom acclaimed as an mable but little respected endeavour to one of a publicly acknowleducation in many countries changed from one of possibly estiin their appraisal of this kind of education. The image of distance recognition of distance education. With few exceptions, as in the beginning of the new era. It gradually created general public a distance-teaching university through a governmental decree of Scandinavia, educational authorities had until then been sceptical the University of London. It started teaching at a distance in emerged as a development of the University of Good Hope, teaching organizations was the University of South Africa, which standing pioneer heralding the influence of public distanceof methods and media (see Holmberg 1986 Chapter 3). An outnumerous and important while the private organizations coninnovative promise for the future. University in the United Kingdom in 1970 that above all marks 1962 (Boucher 1973). However, it was the founding of the Open 1946. The University of South Africa was definitely established as founded in 1873 as an examining body based on the model of tinued their development with gradually more sophisticated use established universities and schools becoming more and more body for its own students), a new era saw publicly supported and Hermods in Sweden, had in 1958 become an official examining Lighty - been private correspondence schools (one of which, tions, among them the University of Chicago under William Harper and the University of Wisconsin inspired by William 1960s the distance-teaching organizations had - with few excep Whereas from the end of the nineteenth century up to the

DISTANCE EDUCATION AND OPEN LEARNING

The adjective 'open' occurs frequently in connection with distance education, no doubt because of the strong influence of the British Open University and other distance-teaching organizations that have adopted practices corresponding to and names containing this adjective (see pp. 9-10). In these names, 'open' originally referred to access and to the avoidance of certain restrictions; in itself it has nothing to do with distance education, as Dewal makes clear:

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As distance education refers mainly to mode of delivery, open education refers to structural changes. A distance education institution can also be an open institution but not necessarily so. Open education refers to structural changes so as to make an institution open: open with respect to place; time; content of learning; mode of learning; etc... A distance teaching institution could also be a 'closed' one. (Dewal 1986: 8)

This contradicts a statement by Lewis and Spencer (1986: 17) to the effect that 'distance learning is a sub-category of open learning', which was derived from the frequent use of 'some features of distance learning' in open learning (ibid.). To judge from the use made of the term open learning in the UK, this seems to be a fairly common interpretation. However, see Foks (1987):

Open learning is not synonymous with distance education; nor is distance education a sub-set of open learning. Distance education is a mode of learning with certain characteristics which distinguish it from the campus-based mode of learning. (p. 74)

Open learning is a state of mind. It is an approach taken to the planning, design, preparation and presentation of courses by educators, and an approach taken to the selection and use of learning strategies and associated resources by students. This approach seeks to provide students with as much choice and control as possible over content and learning strategies. (p. 76)

See also Cirigliano 1983; Keegan 1986: 23–24; Lewis 1986; Northcott 1986; Boot and Hodgson 1987; Cunningham 1987; Holmberg 1989a. Cunningham equates open learning with self-managed learning (p. 41).

In today's usage the distinction between open and distance learning is blurred. Mary Thorpe testifies to this development: 'Undoubtedly "correspondence education" as a term has been overtaken by "distance education", which, in the United Kingdom at least, has in turn been overtaken by "open learning" (Thorpe 1987: 56).

Frequent references to what are called open-learning methods seem to indicate that a change of meaning in this direction is a distinct possibility, however undesirable it may be from the point

open learning. tance education a forbidding term may feel like replacing it by makes it acceptable to common usage. Educators who find dis-Dewal and Foks were observed. But perhaps its very vagueness really a helpful term. It would be if the distinctions made by Against this background it seems doubtful if open learning is

MODES OF TEACHING AND LEARNING IN DISTANCE EDUCATION

elements possible. nology has made a number of useful developments of both porting organization with its tutors and counsellors. Modern technon-contiguous communication between students and the suptwo constituent elements described: a pre-produced course and Teaching and learning in distance education are based on the

supporting organization are usually referred to as assignments. work for correction and comment. Tasks for submission to the etc. (see pp. 71-2). They are usually divided into units, at the translate, solve problems, write essays, etc. and to submit this end of which students are invited to answer questions, compute, data/videotex and other supplementary media are used (see tion as guides to the study of set or suggested texts, recordings, p. 79ff.). Pre-produced courses may be self-contained or may funcprogrammes (radio and/or television), video recordings, viewplemented by recorded audio presentations. Sometimes broadcast self-instructional type. They are usually in print and often sup-The pre-produced courses used are, or are meant to be, of a

interaction as a subsidiary procedure. For instance, on the one are various intermediary positions, acknowledging face-to-face hand, the British Open University, though catering for complete cises and/or face-to-face sessions. Between these extremes there others it is partly or even largely replaced by self-checking exerin distance-education systems. In some it is the basic element, in telephone, on audio tape, by computer, or in any other way, varies primarily student-tutor interaction), whether in writing, on the communication (by which, of course, is meant two-way traffic, The role of the second constituent element, non-contiguous

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on the other hand, many private distance-teaching organizations non-contiguous two-way communication, systematically organizes mainly by non-contiguous means but make occasional use of facein Europe, the USA and elsewhere, offer two-way communication face-to-face contacts in study centres and during summer courses; to-face sessions.

seen as the prototype of small-scale distance-education organizaother hand, find it important to keep within the main stream of of scale, etc.; see p. 16). The small-scale organizations, on the working methods (division of labour, rationalization, economies innovations outside the traditional educational systems in that sented by the British Open University, the German FernUniversisively for their own students, so that the course author is identical scale approach implies causing teachers to develop courses exclucomment on students' work and teach in other ways, the smallas a result of team work, and then engage groups of tutors to develop courses for hundreds and thousands of students, often and small-scale systems of distance education. Whereas the former typical of well-known distance-teaching organizations. There are vary. Two opposite, general approaches should be mentioned as teaching are usually required also of the external, 'distant' are considered desirable and are effected. Periods of residential students. Far-reaching parallels between these two forms of study activities for resident students and external study for distance versities, i.e. universities with both traditional, on-campus tions, which commonly occur among Australian 'dual-mode' unieducation. The University of New England in Australia can be they apply what Otto Peters (1973 and 1983) calls industrial tat and the large correspondence schools, can be regarded as with the tutor. The large-scale organizations, as typically reprewhat I have elsewhere (Holmberg 1985a: 9-10) called large-scale offer it and the ways in which it is provided and supported also The role of distance education within the organizations that

cations are further concerned in the differences between the two sent different views of distance education: the latter often funcapproaches, as investigated on p. 201. discussed later on pp. 137 and 161. Important financial implitraditional types of teaching and learning. This aspect will be tions merely as a form of distribution, replacing, when necessary, The two approaches outlined, large-scale and small-scale, repre-

Distance education is often regarded as an innovation which gives students a high degree of independence. This has been expressed by, among others, Charles A. Wedemeyer (1981: 36), a leading representative of American independent study, in a list of desiderata:

- I Instruction should be available any place where there are students or even only one student whether or not there are teachers at the same place at the same time.
- 2 Instruction should place greater responsibility for learning on the student.
- 3 The instructional plan or system should free faculty members from custodial duties so that more of the teacher's and learner's time can be given to truly educational tasks.
- 4 The instructional system should offer learners wider choices (more opportunities) in subjects, formats, methodologies.
- 5 The instructional system should use, as appropriate, all the teaching media and methods that have been proven to be effective.
- 6 The instructional system should mix and combine media and methods so that each subject or unit within a subject is taught in the most effective way.
- 7 The media and technology employed should be 'articulated' in design and use; that is, the different media or technologies should reinforce each other and the structure of the subject matter and teaching plan.
- 8 The instructional system should preserve and enhance opportunities for adaptation to differences among individual learners as well as among teachers.
- 9 The instructional system should evaluate student achievement not by raising barriers concerning the place where the student studies, the rate at which he studies, the method by which he studies, or even the sequence in which he studies, but instead by evaluating as directly as possible the achievement, of learning goals.
- 10 The system should permit students to start, stop, and learn at their own paces, consistent with learner short- and long-range goals, situations, and characteristics.

This quotation can be regarded as a summarizing declaration of intent with which many distance educators can identify.

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FACTS AND NUMBERS

Distance teaching primarily serves professional/occupational training, secondary and tertiary education. There can be little doubt that the former two applications are much more widely spread and also exert stronger social influence than the last-mentioned field of action. However, university education at a distance seems almost everywhere to enjoy a higher degree of prestige than applications in the other two areas. As shown above, this particularly applies to the official distance-teaching universities offering duly authorized degrees. In comparison with the many highly professional correspondence schools and other, often private, distance-teaching organizations, this may seem unjustified; nevertheless this impact of the distance-teaching universities is a historical fact.

Organizations offering distance education

It would be almost as difficult to say how many distance-teaching institutions exist in the world as to state the number of conventional schools or universities. A comparative study of international distance education carried out at the FernUniversität in West Germany in 1986 listed some 1,500 distance-teaching institutions. Well-known distance-teaching universities are:

Open Universiteit, The Netherlands Nalanda Open University, Bihar, India Kyongi Open University, South Korea Korea Air and Correspondence University, South Korea Indira Gandhi National Open University, New Delhi, India FernUniversität, Hagen, Germany Athabasca University, Alberta, Canada Andhra Pradesh Open University, Hyderabad, India Allama Iqbal Open University, Pakistan Sri Lanka Open University Sri Lanka Institute of Distance Education Ramkhamhaeng University, Thailand The Open University of Israel The Open University, United Kingdom Tha National Open University of Taiwan Kota Open University, Rajasthan, India Central Broadcasting and Television University, Beijing, China

Télé-Université (part of the network of the University of Sukhothai Thammathirat Open University, Thailand Québec, Canada)

Unisur (Unidad Universitaria del Sur), Colombia

Universidad Estatal a Distancia, Costa Rica

Universidad Nacional Abierta, Venezuela

Universidad Nacional de Educación a Distancia, Spain

Universidade Aberta, Portugal

Universitas Terbuka, Indonesia

University of Distance Education, Union of Myanmar, Burma

University of the Air, Japan

University of South Africa

Yashwantrao Chavan Maharashtra Open University, Nashik

have been included in the list, among them the following: do work similar to that of these universities and which might There are a number of distance-teaching organizations which

The Open Learning Institute of Hong Kong The Open Learning Agency, British Columbia, Canada The Open Education Faculty of Anadolu University, Turkey North Island College, British Columbia, Canada The National Distance Education Centre, Ireland The International University Consortium, Maryland, USA

work Australia has had, since 1989, eight distance-education centres, as follows: For university distance education within a dual-mode frame-

Deakin University and Monash University, Victoria

The University of New England and Charles Stuart University, New South Wales

The University College of Central Queensland and The University College of Southern Queensland

The University of South Australia

The Western Australia Distance Education Centre (Murdoch University)

University. It is called the Open Learning Agency of Australia A central brokering company was founded in 1993 at Monash (King 1993).

In the USA many universities offer distance courses as well as

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a creation of the late 1980s, has produced a range of 'training packs' serving open learning. their regular teaching on campus. The Open College in the UK,

and South Pacific External Studies Association (ASPESA). of Australia (ODLAA), which until 1993 was called the Australian until 1994 called the National Home Study Council (NHSC) them are members of national and/or multinational professional dation-financed distance-teaching organizations, university departties (EADTU), the Distance Education and Training Council, bodies, such as the International Council for Distance Education distance education are active in various parts of the world. Some of ments, colleges of advanced education, and schools offering (based in the USA), the Open and Distance Learning Association (AECS), the European Association of Distance Teaching Universi-(ICDE), the Association of European Correspondence Schools A great number of other private, state-owned, church or foun-

with dates of foundation: older. Among traditional, still leading distance-teaching organizaat the secondary level or offer professional training are much tions of this kind can be mentioned the Australian TAFE colleges Africa) many distance-teaching organizations which teach mainly (TAFE = technical and further education) and the following 1970s and 1980s (with the exception of the University of South Whereas the distance-teaching universities are creations of the

American School, USA (1897) Wolsey Hall, England (1894) International Correspondence Schools, USA (1891)

Hermods, Sweden (1898)

NKS, Norway (1914)

officially established universities and private distance-teaching management, for example) with a total student body of one or organizations vary to an extreme extent, as already shown in the of students. While in the 1990s the British Open University and organizations which simultaneously teach hundreds of thousands two hundred people. At the other end of the scale are both p. 7). There are small, highly specialized institutions (teaching presentation of the two opposing approaches (mentioned on the German, FernUniversität have student bodies of between 120,000 and 40,000 participants, the French Centre National Both the size and the working methods of the distance-teaching

numbers of students (Walter Perry 1984 and Doerfert, Schuemer uin and Clark 1991: 19) and their European counterparts in the students 'are enrolled at any given time' in schools accredited by enrolled (Dieuzeide 1985: 32), the big home-study schools in the and Tomaschewski 1989). ing and Television University in China work with even larger tance-teaching universities in Thailand and the Central Broadcast private sector have about a million students together. The disthe American National Home Study Council according to Verd-USA each register 200,000-300,000 students (about four million d'Enseignement à Distance has more than 250,000 students

computers is on the whole limited to the more affluent countries. audiences, whereas the use of both mainframe and personal not only in the developed parts of the world, and serve mass vision and satellite communications are available in many areas, services. Radio is often either used or considered desirable. Teleable and communication is frequently hampered by faulty postal developing countries, the written word is the only medium avail-The methods and media used also vary greatly. In some

and partly explanatory surveys of the international state of dis-Rumble and Harry (1982); Sewart, Keegan, and Holmberg (1980); Doerfert, Schuemer and Tomaschewski 1989; Minnis Keegan (1990); Kaye and Rumble (1981); Jenkins and Perraton tance education are available, among them Walter Perry (1984); found principally in detailed case studies. A number of descriptive (1983); Graff and Holmberg (1988); Henri and Kaye (1985) 1990; Peters 1990; Khoul and Jenkins 1990; Rumble (1985); Descriptions of the situation in individual countries can be

Facts about distance students

mobility. Gradually older students too, not only those around 40 tions. Distance study evidently contributes to upward social quently are gainfully employed and/or look after their families. is that, with few exceptions, these students are adults and consebe regarded as a homogeneous group. The only common factor and 50 but also old-age pensioners, seem to show a preference The 25-35 age group seems to be the largest in most organiza-There is no evidence to indicate that distance students should for distance education

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studies, among them Glatter (1968); Glatter and Wedell (1971); McIntosh, Calder, and Swift (1976); Ansere (1978); Flinck withdrawn their applications to university study at a distance. (1980) and Woodley (1983) of the reasons why applicants have 1983); Woodley (1986b). Of interest also are the studies by Fritsch (1980); McIntosh, Woodley, and Morrison (1980); Bartels (1982, These general statements are borne out by a great number of

distance education (Flinck 1980: 6-9). zation as an important reason to choose distance education; 73 referred to the support given by the distance-teaching organiliked working on their own at the same time as they largely cent of the population investigated (about 4,000) stated that they vidual work is frequently referred to. In Flinck's study, 63 per to individual students' needs. A predilection for entirely indiconvenience, flexibility and adaptability of this mode of education found to be an even more important argument in favour of pacing, although a privilege not given to all distant students, was per cent of the students mentioned this second reason. Free in both the sources mentioned and others, are primarily the The reasons why adults choose distance education, as shown

social commitments make face-to-face teaching, bound by a fixed course, to be expected from adults whose family, professional and because they genuinely prefer it to other modes. This is, of countries, which do offer real choices, choose distance education ground factors, but apparently a majority of students in developed caps, hospitalization, and even imprisonment occur as backopportunities as a background for distance study. Physical handitimetable, less attractive or unrealistic. Many distance students mention poor previous educational

achievement oriented and assertive' than the average general selves independent and capable. An investigation by Göttert before list of contents). Nevertheless, quite a few university diswith academic and social demands' (Göttert 1983: summary portrayed themselves as more competent and successful in coping year in distant study): the persisters (before enrolment) had ences were found between dropouts and persisters (after one population and student groups investigated. 'Only small differthis context. These people 'saw themselves as more competitive, 500 FernUniversität prospective and real students, is interesting in (1983), in which he reports on an interview study of more than There are indications that distance students consider them-

tance students seem to doubt their ability to cope. This has produced counselling activities and various attempts to understand the distance learner as a 'whole person' (Kelly and Shapcott 1987: 7).

THE ASSUMED POTENTIAL OF DISTANCE EDUCATION

It is often assumed that distance education is suitable exclusively or mainly for subjects wholly relying on printed study material, i.e. cognitive learning, mainly in arts subjects. Through the use of audio and video recordings, laboratory kits, computer programs, telephone contacts, and other media, a great number of other subject areas have shown themselves teachable and learnable at a distance. In fact, the results of language learning by means of distance-education courses have in some cases proved extraordinarily good, even as far as pronunciation (for which phonetic transcription has proved vital) is concerned.

Evidently work requiring equipment that individual distance students do not have available or experiments that could be dangerous if not performed under the supervision of a subject specialist have to be arranged face to face; also, in other cases supplementary face-to-face sessions can be useful (see pp. 113–16).

Experience shows, however that there is no need to exclude certain subjects from the possible application of distance education; even some aspects of medicine and surgery have proved to be subjects suitable for this form of education. The distance-education work done by the Centre for Medical Education of the University of Dundee in Scotland testifies to this.

The training of skills in the so-called psychomotor domain is often seen as more of a problem in distance education than it actually need be, above all at fairly elementary stages, in developing countries and elsewhere (see *About Distance Education* 23 1986: 6).

Distance education claims to serve students who are not situated or willing to benefit from comprehensive face-to-face instruction. Unless special measures are taken, it is thus an individual activity and mainly a means of study for adults mature enough to decide on their own ways of learning and to study on their own. Teleconferencing makes it possible to 'assemble a class of students who may interact not only with the teacher but with

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each other' (Garrison 1990: 15). Educators tend to regard this as a considerable advantage, whereas many students claim that they prefer individual study. Distance education above all attracts mature people with professional, social and family commitments and facilitates recurrent and permanent education. It is true that distance-education procedures are also used in schools for young people but, as this is a special application, it is disregarded here (see, however, pp. 146-9).

In a paper reflecting the position of distance education in the early 1990s Ljoså describes 'several roles which distance education should fill', i.e. balancing 'inequalities between age-groups', offering 'second-chance upgrading', providing 'information and education campaigns for large audiences', training 'key target groups', speedily and efficiently, catering for 'otherwise neglected target groups', offering education 'in new areas', extending 'geographical access to education', facilitating the combination of study 'with work and family life', developing 'multiple competencies' and offering 'trans-national programmes' (Ljoså 1992a: 28–29).

The repeated reference above to the maturity of distance students is indicative of the relevance of student independence in our context. At the very least, students are independent in carrying through a programme of study, i.e. in deciding where and when to learn, how much of a course to undertake at a time, when and how much to rest, when and how often to revise texts and exercises, etc. The independence can go much further, via entirely free pacing, free choice of examination periods, if any, to independent selection of learning objectives and course elements. How far student independence can and should go is a bone of contention which will be discussed further on pp. 165–72. Suffice it to say here that distance education undoubtedly has special potentials for student independence.

This brings to the fore the possibility of catering by distance education for academic socialization, which belongs to so-called affective learning (see p. 42). In the affective domain, which is concerned with values, emotions and attitudes, it is usually taken for granted that non-contiguous communication has less power to influence students than face-to-face meetings. However, experience shows that distance education can be effective in bringing about attitude change. This is borne out by studies of distance-education programmes in health and welfare work in, for

example, Sweden and the United Kingdom (Rogers 1986). Sparkes rightly points to unforgettable television programmes as one of 'the most effective external influences in the affective domain' (Sparkes 1982: 7).

even when computerized communication occurs. vent personal communication of a conversational character from compatible with individualization (see pp. 125-7). In preparing a paradox. Personal approaches and a conversational style are being a basic characteristic of effective distance study. This applies 1973, 1983). The implied technological approaches do not preeducation as an industrial form of teaching and learning (Peters made a systematic study of these methods. He describes distance and controlling and checking. Peters, as already referred to, has izing procedures, division of labour, mechanizing, automation, practical to apply industrial methods including planning, rationala mass communication programme, on the other hand, it is ization and mass communication may appear as something of often is, a form of mass communication. This union of individualdeveloped can easily, and to great financial advantage, be used by great numbers of students. Distance education can be, and in the cognitive, affective and psychomotor domains, courses serve individual learners in the study they do on their own While it is thus in the nature of distance education that it car

course. This style of presentation stimulates activity and implies loquial style of presentation and the personal atmosphere of the the students, created by an easily readable and reasonably colcalls internalized conversation caused by the study of a text (Lewis simulated. The simulated conversation is not only what Lewis tents with themselves. The conversation is thus both real and with the students) and causes the students to discuss the conis characterized by a personal approach (as it were, conversing about by the presentation of study matter if this one-way traffic institution. A kind of conversation in the form of two-way traffic reasoning, discussing for and against, referring to the student's the supporting organization. Indirectly, conversation is brought between the students and their tutors and others belonging to occurs through the written or otherwise mediated interaction 1975: 69) but a relationship between the course developers and the supporting organization constituted by the distance-teaching she benefits from a course and from interaction with tutors and Distance study is self-study but the student is not alone; he or

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previous experience and thus avoiding omissions in chains of thought.

As will be evident from the following remarks, the present author finds the personal character of both real and simulated communication a most important characteristic of distance education, and indeed regards organized distance education as a mediated form of guided didactic conversation.

The picture that emerges shows distance education to have vast application potentials not only for independent study attractive to adults but also for mass education, through what has been described as industrial methods, and for highly individualized study and personal approaches with a great deal of rapport between the teaching and learning parties.