



**WORLD DECLARATION ON HIGHER EDUCATION
FOR THE TWENTY-FIRST CENTURY:
VISION AND ACTION**

adopted by the

WORLD CONFERENCE ON HIGHER EDUCATION

UNESCO House, Paris, France, 9 October 1998

PREAMBLE

On the eve of a new century, there is an **unprecedented demand for and a great diversification in higher education, as well as an increased awareness of its vital importance for sociocultural and economic development**, and for building the future, for which the younger generations will need to be equipped with new skills, knowledge and ideals. Higher education includes 'all types of studies, training or training for research at the post-secondary level, provided by universities or other educational establishments that are approved as institutions of higher education by the competent State authorities'.^{*} Everywhere higher education is faced with great challenges and difficulties related to financing, equity of conditions at access into and during the course of studies, improved staff development, skills-based training, enhancement and preservation of quality in teaching, research and services, relevance of programmes, employability of graduates, establishment of efficient co-operation agreements and equitable access to the benefits of international co-operation. At the same time, higher education is being challenged by new opportunities relating to technologies that are improving the ways in which knowledge can be produced, managed, disseminated, accessed and controlled. Equitable access to these technologies should be ensured at all levels of education systems.

The second half of this century will go down in the history of higher education as the period of its most spectacular **expansion**: an over sixfold increase in student enrolments world-wide, from 13 million in 1960 to 82 million in 1995. But it is also the period which has seen the gap between industrially developed, **the developing countries and in particular the least developed countries** with regard to access and resources for higher learning and research, already enormous, becoming even wider. It has also been a period of increased socio-economic stratification and greater difference in educational opportunity within countries, including in some of the most developed and wealthiest nations. Without adequate higher education and research institutions providing a critical mass of skilled and educated people, no country can ensure genuine endogenous and sustainable development and, in particular, developing countries and least developed countries cannot reduce the gap separating them from the industrially developed ones. Sharing knowledge, international co-operation and new technologies can offer new opportunities to reduce this gap.

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^{*} Definition approved by the General Conference of UNESCO at its 27th session (November 1993) in the Recommendation on the Recognition of Studies and Qualifications in Higher Education.

Higher education has given ample proof of its viability over the centuries and of its ability to change and to induce change and progress in society. Owing to the scope and pace of change, society has become increasingly **knowledge-based** so that higher learning and research now act as essential components of cultural, socio-economic and environmentally sustainable development of individuals, communities and nations. Higher education itself is confronted therefore with formidable challenges and must proceed to the most radical **change and renewal it has ever been required** to undertake, so that our society, which is currently undergoing a profound crisis of values, can transcend mere economic considerations and incorporate deeper dimensions of morality and spirituality.

It is with the aim of providing solutions to these challenges and of setting in motion a process of in-depth reform in higher education world-wide that UNESCO has convened a World Conference on Higher Education in the Twenty-First Century: Vision and Action. In preparation for the Conference, UNESCO issued, in 1995, its *Policy Paper for Change and Development in Higher Education*. Five regional consultations (Havana, November 1996; Dakar, April 1997; Tokyo, July 1997; Palermo, September 1997; and Beirut, March 1998) were subsequently held. The Declarations and Plans of Action adopted by them, each preserving its own specificity, are duly taken into account in the present Declaration - as is the whole process of reflection undertaken by the preparation of the World Conference - and are annexed to it.

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We, participants in the World Conference on Higher Education, assembled at UNESCO Headquarters in Paris, from 5 to 9 October 1998,

Recalling the principles of the Charter of the United Nations, the Universal Declaration of Human Rights, the International Covenant on Economic, Social and Cultural Rights, and the International Covenant on Civil and Political Rights,

Recalling also the Universal Declaration of Human Rights which states in Article 26, paragraph 1, that 'Everyone has the right to education' and that 'higher education shall be equally accessible to all on the basis of merit', and endorsing the basic principles of the Convention against Discrimination in Education (1960), which, by Article 4, commits the States Parties to it to 'make higher education equally accessible to all on the basis of individual capacity',

Taking into account the recommendations concerning higher education of major commissions and conferences, *inter alia*, the International Commission on Education for the Twenty-First Century, the World Commission on Culture and Development, the 44th and 45th sessions of the International Conference on Education (Geneva, 1994 and 1996), the decisions taken at the 27th and 29th sessions of UNESCO's General Conference, in particular regarding the Recommendation concerning the Status of Higher-Education Teaching Personnel, the World Conference on Education for All (Jomtien, Thailand, 1990), the United Nations Conference on Environment and Development (Rio de Janeiro, 1992), the Conference on Academic Freedom and University Autonomy (Sinaia, 1992), the World Conference on Human Rights (Vienna, 1993), the World Summit for Social Development (Copenhagen, 1995), the fourth World Conference on Women (Beijing, 1995), the International Congress on Education and Informatics (Moscow, 1996), the World Congress on Higher Education and Human Resources Development for the Twenty-First Century (Manila, 1997), the fifth International Conference on Adult Education (Hamburg, 1997) and especially the Agenda for the Future under Theme 2 (Improving the conditions and quality of learning) stating: 'We commit ourselves to ... opening schools, colleges and universities to adult learners ... by calling upon the World Conference on Higher Education (Paris, 1998) to promote the transformation of post-secondary institutions into lifelong learning institutions and to define the role of universities accordingly',

Convinced that education is a fundamental pillar of human rights, democracy, sustainable development and peace, and shall therefore become accessible to all throughout life and that measures are required to ensure co-ordination and co-operation across and between the various sectors, particularly between general, technical and professional secondary and post-secondary education as well as between universities, colleges and technical institutions,

Believing that, in this context, the solution of the problems faced on the eve of the twenty-first century will be determined by the vision of the future society and by the role that is assigned to education in general and to higher education in particular,

Aware that on the threshold of a new millennium it is the duty of higher education to ensure that the values and ideals of a culture of peace prevail and that the intellectual community should be mobilized to that end,

Considering that a substantial change and development of higher education, the enhancement of its quality and relevance, and the solution to the major challenges it faces, require the strong involvement not only of governments and of higher education institutions, but also of all stakeholders, including students and their families, teachers, business and industry, the public and private sectors of the economy, parliaments, the media, the community, professional associations and society as well as a greater responsibility of higher education institutions towards society and accountability in the use of public and private, national or international resources,

Emphasizing that higher education systems should enhance their capacity to live with uncertainty, to change and bring about change, and to address social needs and to promote solidarity and equity; should preserve and exercise scientific rigour and originality, in a spirit of impartiality, as a basic prerequisite for attaining and sustaining an indispensable level of quality; and should place students at the centre of their concerns, **within a lifelong perspective**, so as to allow their full integration into the global knowledge society of the coming century,

Also believing that international co-operation and exchange are major avenues for advancing higher education throughout the world,

Proclaim the following:

MISSIONS AND FUNCTIONS OF HIGHER EDUCATION

Article 1 - Mission to educate, to train and to undertake research

We affirm that the core missions and values of higher education, in particular the mission to contribute to the sustainable development and improvement of society as a whole, should be preserved, reinforced and further expanded, namely, to:

- (a) educate highly qualified graduates and responsible citizens able to meet the needs of all sectors of human activity, by offering relevant qualifications, including professional training, which combine high-level knowledge and skills, using courses and content continually tailored to the present and future needs of society;
- (b) provide opportunities (*espace ouvert*) **for higher learning and for learning throughout life**, giving to learners an optimal range of choice and a flexibility of entry and exit points within the system, as well as an opportunity for individual development and social mobility in order **to educate for citizenship and for active participation in society**, with a world-wide vision, for endogenous capacity-building, and for the consolidation of human rights, sustainable development, democracy and peace, in a context of justice;

- (c) **advance, create and disseminate knowledge** through **research** and provide, as part of its service to the community, relevant expertise to assist societies in cultural, social and economic development, promoting and developing scientific and technological research as well as research in the social sciences, the humanities and the creative arts;
- (d) help **understand, interpret, preserve, enhance, promote and disseminate national and regional, international and historic cultures**, in a context of cultural pluralism and diversity;
- (e) help protect and enhance **societal values** by training young people in the values which form the basis of democratic citizenship and by providing critical and detached perspectives to assist in the discussion of strategic options and the reinforcement of humanistic perspectives;
- (f) contribute to the development and improvement of education at all levels, including through the training of teachers.

Article 2 - Ethical role, autonomy, responsibility and anticipatory function

In accordance with the Recommendation concerning the Status of Higher-Education Teaching Personnel approved by the General Conference of UNESCO in November 1997, **higher education institutions and their personnel and students** should:

- (a) preserve and develop their crucial functions, through the exercise of ethics and scientific and intellectual rigour in their various activities;
- (b) be able to speak out on ethical, cultural and social problems completely independently and in full awareness of their responsibilities, exercising a kind of intellectual authority that society needs to help it to reflect, understand and act;
- (c) enhance their critical and forward-looking functions, through continuing analysis of emerging social, economic, cultural and political trends, providing a focus for forecasting, warning and prevention;
- (d) exercise their intellectual capacity and their moral prestige to defend and actively disseminate universally accepted values, including peace, justice, freedom, equality and solidarity, as enshrined in UNESCO's Constitution;
- (e) enjoy full academic autonomy and freedom, conceived as a set of rights and duties, while being fully responsible and accountable to society;
- (f) play a role in helping identify and address issues that affect the well-being of communities, nations and global society.

SHAPING A NEW VISION OF HIGHER EDUCATION

Article 3 - Equity of access

- (a) In keeping with Article 26.1 of the Universal Declaration of Human Rights, admission to higher education should be based on the merit, capacity, efforts, perseverance and devotion, showed by those seeking access to it, and can take place in a lifelong scheme, at any time, with due recognition of previously acquired skills. As a consequence, no discrimination can be accepted in granting access to higher education on grounds of race, gender, language or religion, or economic, cultural or social distinctions, or physical disabilities.

- (b) Equity of access to higher education should begin with the reinforcement and, if need be, the reordering of its links with all other levels of education, particularly with secondary education. Higher education institutions must be viewed as, and must also work within themselves to be a part of and encourage, a seamless system starting with early childhood and primary education and continuing through life. Higher education institutions must work in active partnership with parents, schools, students, socio-economic groups and communities. Secondary education should not only prepare qualified candidates for access to higher education by developing the capacity to learn on a broad basis but also open the way to active life by providing training on a wide range of jobs. However, access to higher education should remain open to those successfully completing secondary school, or its equivalent, or presenting entry qualifications, as far as possible, at any age and without any discrimination.
- (c) As a consequence, the rapid and wide-reaching demand for higher education requires, where appropriate, **all policies concerning access to higher education** to give priority in the future to the approach based on the merit of the individual, as defined in Article 3(a) above.
- (d) Access to higher education for members of some special target groups, such as indigenous peoples, cultural and linguistic minorities, disadvantaged groups, peoples living under occupation and those who suffer from disabilities, must be actively facilitated, since these groups as collectivities and as individuals may have both experience and talent that can be of great value for the development of societies and nations. Special material help and educational solutions can help overcome the obstacles that these groups face, both in accessing and in continuing higher education.

Article 4 - Enhancing participation and promoting the role of women

- (a) Although significant progress has been achieved to enhance the access of women to higher education, various socio-economic, cultural and political obstacles continue in many places in the world to impede their full access and effective integration. To overcome them remains an urgent priority in the renewal process for ensuring an equitable and non-discriminatory system of higher education based on the principle of merit.
- (b) Further efforts are required to eliminate all gender stereotyping in higher education, to consider gender aspects in different disciplines and to consolidate women's participation at all levels and in all disciplines, in which they are under-represented and, in particular, to enhance their active involvement in decision-making.
- (c) Gender studies (women's studies) should be promoted as a field of knowledge, strategic for the transformation of higher education and society.
- (d) Efforts should be made to eliminate political and social barriers whereby women are under-represented and in particular to enhance their active involvement at policy and decision-making levels within higher education and society.

Article 5 - Advancing knowledge through research in science, the arts and humanities and the dissemination of its results

- (a) The advancement of knowledge through **research** is an essential function of all **systems** of higher education, which should promote postgraduate studies. **Innovation, interdisciplinarity and transdisciplinarity** should be promoted and reinforced in programmes with long-term orientations on social and cultural aims and needs. An appropriate balance should be established between basic and target-oriented research.

- (b) Institutions should ensure that all members of the academic community engaged in research are provided with appropriate training, resources and support. The intellectual and cultural rights on the results of research should be used to the benefit of humanity and should be protected so that they cannot be abused.
- (c) Research must be enhanced in all disciplines, including the social and human sciences, education (including higher education), engineering, natural sciences, mathematics, informatics and the arts within the framework of national, regional and international research and development policies. Of special importance is the enhancement of research capacities in higher education research institutions, as mutual enhancement of quality takes place when higher education and research are conducted at a high level within the same institution. These institutions should find the material and financial support required, from **both public and private sources**.

Article 6 - Long-term orientation based on relevance

- (a) Relevance in higher education should be assessed in terms of the fit between what society expects of institutions and what they do. This requires ethical standards, political impartiality, critical capacities and, at the same time, a better articulation with the problems of society and the world of work, **basing long-term orientations on societal aims and needs, including respect for cultures and environmental protection**. The concern is to provide access to both broad general education and targeted, career-specific education, often interdisciplinary, focusing on skills and aptitudes, both of which equip individuals to live in a variety of changing settings, and to be able to change occupations.
- (b) Higher education should **reinforce its role of service to society**, especially its activities aimed at eliminating poverty, intolerance, violence, illiteracy, hunger, environmental degradation and disease, mainly through an **interdisciplinary and transdisciplinary approach** in the analysis of problems and issues.
- (c) Higher education should enhance its contribution to the **development of the whole education system**, notably through improved teacher education, curriculum development and educational research.
- (d) Ultimately, higher education should aim at the creation of a new society - non-violent and non-exploitative - consisting of highly cultivated, motivated and integrated individuals, inspired by love for humanity and guided by wisdom.

Article 7 - Strengthening co-operation with the world of work and analysing and anticipating societal needs

- (a) In economies characterized by changes and the emergence of new production paradigms based on knowledge and its application, and on the handling of information, the links between higher education, the world of work and other parts of society should be strengthened and renewed.
- (b) Links with the world of work can be strengthened, through the participation of its representatives in the governance of institutions, the increased use of domestic and international apprenticeship/work-study opportunities for students and teachers, the exchange of personnel between the world of work and higher education institutions and revised curricula more closely aligned with working practices.

- (c) **As a lifelong source of professional training, updating and recycling**, institutions of higher education should systematically take into account trends in the world of work and in the scientific, technological and economic sectors. In order to respond to the work requirements, higher education systems and the world of work should jointly develop and assess learning processes, bridging programmes and prior learning assessment and recognition programmes, which integrate theory and training on the job. Within the framework of their anticipatory function, higher education institutions could contribute to the creation of new jobs, although that is not their only function.
- (d) Developing entrepreneurial skills and initiative should become major concerns of higher education, in order to facilitate employability of graduates who will increasingly be called upon to be not only job seekers but also and above all to become job creators. Higher education institutions should give the opportunity to students to fully develop their own abilities with a sense of social responsibility, educating them to become full participants in democratic society and promoters of changes that will foster equity and justice.

Article 8 - Diversification for enhanced equity of opportunity

- (a) Diversifying higher education models and recruitment methods and criteria is essential both to meet increasing international demand and to provide access to various delivery modes and to extend access to an ever-wider public, in a lifelong perspective, based on flexible entry and exit points to and from the system of higher education.
- (b) More diversified systems of higher education are characterized by new types of tertiary institutions: public, private and non-profit institutions, amongst others. Institutions should be able to offer a wide variety of education and training opportunities: traditional degrees, short courses, part-time study, flexible schedules, modularized courses, supported learning at a distance, etc.

Article 9 - Innovative educational approaches: critical thinking and creativity

- (a) In a world undergoing rapid changes, there is a perceived need for a new vision and paradigm of higher education, which should be student-oriented, calling in most countries for in-depth reforms and an open access policy so as to cater for ever more diversified categories of people, and of its contents, methods, practices and means of delivery, based on new types of links and partnerships with the community and with the broadest sectors of society.
- (b) Higher education institutions should educate students to become well informed and deeply motivated citizens, who can think critically, analyse problems of society, look for solutions to the problems of society, apply them and accept social responsibilities.
- (c) To achieve these goals, it may be necessary to recast curricula, using new and appropriate methods, so as to go beyond cognitive mastery of disciplines. New pedagogical and didactical approaches should be accessible and promoted in order to facilitate the acquisition of skills, competences and abilities for communication, creative and critical analysis, **independent thinking and team work in multicultural contexts**, where creativity also involves combining traditional or local knowledge and know-how with advanced science and technology. **These recast curricula should take into account the gender dimension and the specific cultural, historic and economic context of each country.** The teaching of human rights standards and education on the needs of communities in all parts of the world should be reflected in the curricula of all disciplines, particularly those preparing for entrepreneurship. Academic personnel should play a significant role in determining the curriculum.

- (d) New methods of education will also imply new types of teaching-learning materials. These have to be coupled with new methods of testing that will promote not only powers of memory but also powers of comprehension, skills for practical work and creativity.

Article 10 - Higher education personnel and students as major actors

- (a) A vigorous policy of staff development is an essential element for higher education institutions. Clear policies should be established concerning higher education teachers, who nowadays need to focus on teaching students how to learn and how to take initiatives rather than being exclusively founts of knowledge. Adequate provision should be made for research and for updating and improving pedagogical skills, through appropriate staff development programmes, encouraging constant innovation in curriculum, teaching and learning methods, and ensuring appropriate professional and financial status, and for **excellence in research and teaching**, reflecting the corresponding provisions of the **Recommendation concerning the Status of Higher-Education Teaching Personnel approved by the General Conference of UNESCO in November 1997**. To this end, more importance should be attached to international experience. Furthermore, in view of the role of higher education for lifelong learning, experience outside the institutions ought to be considered as a relevant qualification for higher educational staff.
- (b) Clear policies should be established by all higher education institutions preparing teachers of early childhood education and for primary and secondary schools, providing stimulus for constant innovation in curriculum, best practices in teaching methods and familiarity with diverse learning styles. It is vital to have appropriately trained administrative and technical personnel.
- (c) **National and institutional decision-makers should place students and their needs at the centre of their concerns**, and should consider them as major partners and responsible stakeholders in the renewal of higher education. This should include student involvement in issues that affect that level of education, in evaluation, the renovation of teaching methods and curricula and, in the institutional framework in force, in policy-formulation and institutional management. As students have the right to organize and represent themselves, students' involvement in these issues should be guaranteed.
- (d) Guidance and counselling services should be developed, in co-operation with student organizations, in order to assist students in the transition to higher education at whatever age and to take account of the needs of ever more diversified categories of learners. Apart from those entering higher education from schools or further education colleges, they should also take account of the needs of those leaving and returning in a lifelong process. Such support is important in ensuring a good match between student and course, reducing drop-out. Students who do drop out should have suitable opportunities to return to higher education if and when appropriate.

FROM VISION TO ACTION

Article 11 - Qualitative evaluation

- (a) **Quality in higher education is a multidimensional concept**, which should embrace all its functions, and activities: teaching and academic programmes, research and scholarship, staffing, students, buildings, facilities, equipment, services to the community and the academic environment. Internal self-evaluation and external review, conducted openly by independent specialists, if possible with international expertise, are vital for enhancing quality. Independent

national bodies should be established and comparative standards of quality, recognized at international level, should be defined. **Due attention should be paid to specific institutional, national and regional contexts in order to take into account diversity and to avoid uniformity.** Stakeholders should be an integral part of the institutional evaluation process.

- (b) Quality also requires that higher education should be characterized by its international dimension: exchange of knowledge, interactive networking, mobility of teachers and students, and international research projects, while taking into account the national cultural values and circumstances.
- (c) To attain and sustain national, regional or international quality, certain components are particularly relevant, notably careful selection of staff and continuous staff development, in particular through the promotion of appropriate programmes for academic staff development, including teaching/learning methodology and mobility between countries, between higher education institutions, and between higher education institutions and the world of work, as well as student mobility within and between countries. The new information technologies are an important tool in this process, owing to their impact on the acquisition of knowledge and know-how.

Article 12 - The potential and the challenge of technology

The rapid breakthroughs in new information and communication technologies will further change the way knowledge is developed, acquired and delivered. It is also important to note that the new technologies offer opportunities to innovate on course content and teaching methods and to widen access to higher learning. However, it should be borne in mind that new information technology does not reduce the need for teachers but changes their role in relation to the learning process and that the continuous dialogue that converts information into knowledge and understanding becomes fundamental. Higher education institutions should lead in drawing on the advantages and potential of new information and communication technologies, ensuring quality and maintaining high standards for education practices and outcomes in a spirit of openness, equity and international co-operation by:

- (a) engaging in networks, technology transfer, capacity-building, developing teaching materials and sharing experience of their application in teaching, training and research, making knowledge accessible to all;
- (b) creating new learning environments, ranging from distance education facilities to complete virtual higher education institutions and systems, capable of bridging distances and developing high-quality systems of education, thus serving social and economic advancement and democratization as well as other relevant priorities of society, while ensuring that these virtual education facilities, based on regional, continental or global networks, function in a way that respects cultural and social identities;
- (c) noting that, in making full use of information and communication technology (ICT) for educational purposes, particular attention should be paid to removing the grave inequalities which exist among and also within the countries of the world with regard to access to new information and communication technologies and to the production of the corresponding resources;
- (d) adapting ICT to national, regional and local needs and securing technical, educational, management and institutional systems to sustain it;

- (e) facilitating, through international co-operation, the identification of the objectives and interests of all countries, particularly the developing countries, equitable access and the strengthening of infrastructures in this field and the dissemination of such technology throughout society;
- (f) closely following the evolution of the ‘knowledge society’ in order to ensure high quality and equitable regulations for access to prevail;
- (g) taking the new possibilities created by the use of ICTs into account, while realizing that it is, above all, institutions of higher education that are using ICTs in order to modernize their work, and not ICTs transforming institutions of higher education from real to virtual institutions.

Article 13 - Strengthening higher education management and financing

- (a) The management and financing of higher education require the **development of appropriate planning and policy-analysis capacities** and strategies, based on partnerships established between higher education institutions and state and national planning and co-ordination bodies, so as to secure appropriately streamlined management and the cost-effective use of resources. Higher education institutions should adopt **forward-looking management practices** that respond to the needs of their environments. Managers in higher education must be responsive, competent and able to evaluate regularly, by internal and external mechanisms, the effectiveness of procedures and administrative rules.
- (b) Higher education institutions must be given autonomy to manage their internal affairs, but with this autonomy must come clear and transparent accountability to the government, parliament, students and the wider society.
- (c) The ultimate goal of management should be to enhance the institutional mission by ensuring high-quality teaching, training and research, and services to the community. This objective requires **governance that combines social vision, including understanding of global issues, with efficient managerial skills**. Leadership in higher education is thus a major social responsibility and can be significantly strengthened through dialogue with all stakeholders, especially teachers and students, in higher education. The participation of teaching faculty in the governing bodies of higher education institutions should be taken into account, within the framework of current institutional arrangements, bearing in mind the need to keep the size of these bodies within reasonable bounds.
- (d) The promotion of North-South co-operation to ensure the necessary financing for strengthening higher education in the developing countries is essential.

Article 14 - Financing of higher education as a public service

The funding of higher education requires both public and private resources. The role of the state remains essential in this regard.

- (a) The diversification of funding sources reflects the support that society provides to higher education and must be further strengthened to ensure the development of higher education, increase its efficiency and maintain its quality and relevance. **Public support for higher education and research remains essential** to ensure a balanced achievement of educational and social missions.
- (b) Society as a whole must support education at all levels, including higher education, given its role in promoting sustainable economic, social and cultural development. **Mobilization for this**

purpose depends on public awareness and involvement of the public and private sectors of the economy, parliaments, the media, governmental and non-governmental organizations, students as well as institutions, families and all the social actors involved with higher education.

Article 15 - Sharing knowledge and know-how across borders and continents

- (a) The principle of solidarity and true partnership amongst higher education institutions world-wide is crucial for education and training in all fields that encourage an understanding of global issues, the role of democratic governance and skilled human resources in their resolution, and the need for living together with different cultures and values. The practice of multilingualism, faculty and student exchange programmes and institutional linkage to promote intellectual and scientific co-operation should be an integral part of all higher education systems.
- (b) The principles of international co-operation based on solidarity, recognition and mutual support, true partnership that equitably serves the interests of the partners and the value of sharing knowledge and know-how across borders should govern relationships among higher education institutions in both developed and developing countries and should benefit the least developed countries in particular. Consideration should be given to the need for safeguarding higher education institutional capacities in regions suffering from conflict or natural disasters. Consequently, an international dimension should permeate the curriculum, and the teaching and learning processes.
- (c) Regional and international normative instruments for the recognition of studies should be ratified and implemented, including certification of the skills, competences and abilities of graduates, making it easier for students to change courses, in order to facilitate mobility within and between national systems.

Article 16 - From 'brain drain' to 'brain gain'

The 'brain drain' has yet to be stemmed, since it continues to deprive the developing countries and those in transition, of the high-level expertise necessary to accelerate their socio-economic progress. International co-operation schemes should be based on long-term partnerships between institutions in the South and the North, and also promote South-South co-operation. Priority should be given to training programmes in the developing countries, in centres of excellence forming regional and international networks, with short periods of specialized and intensive study abroad. Consideration should be given to creating an environment conducive to attracting and retaining skilled human capital, either through national policies or international arrangements to facilitate the return - permanent or temporary - of highly trained scholars and researchers to their countries of origin. At the same time, efforts must be directed towards a process of 'brain gain' through collaboration programmes that, by virtue of their international dimension, enhance the building and strengthening of institutions and facilitate full use of endogenous capacities. Experience gained through the UNITWIN/UNESCO Chairs Programme and the principles enshrined in the regional conventions on the recognition of degrees and diplomas in higher education are of particular importance in this respect.

Article 17 - Partnership and alliances

Partnership and alliances amongst stakeholders - national and institutional policy-makers, teaching and **related** staff, researchers and students, and administrative and technical personnel in institutions of higher education, the world of work, community groups - is a powerful force in managing change. Also, non-governmental organizations are key actors in this process. Henceforth,

partnership, based on common interest, mutual respect and credibility, should be a prime matrix for renewal in higher education.

We, the participants in the World Conference on Higher Education, adopt this Declaration and reaffirm the right of all people to education and the right of access to higher education based on individual merit and capacity;

We pledge to act together within the frame of our individual and collective responsibilities, by taking all necessary measures in order to realize the principles concerning higher education contained in the Universal Declaration of Human Rights and in the Convention against Discrimination in Education;

We solemnly reaffirm our commitment to peace. To that end, we are determined to accord high priority to education for peace and to participate in the celebration of the International Year for the Culture of Peace in the year 2000;

We adopt, therefore, this World Declaration on Higher Education for the Twenty-First Century: Vision and Action. To achieve the goals set forth in this Declaration and, in particular, for immediate action, we agree on the following Framework for Priority Action for Change and Development of Higher Education.

FRAMEWORK FOR PRIORITY ACTION FOR CHANGE AND DEVELOPMENT OF HIGHER EDUCATION

I. PRIORITY ACTIONS AT NATIONAL LEVEL

1. States, including their governments, parliaments and other decision-makers, should:
 - (a) establish, where appropriate, the legislative, political and financial framework for the reform and further development of higher education, in keeping with the terms of the Universal Declaration of Human Rights, which establishes that higher education shall be ‘accessible to all on the basis of merit’. No discrimination can be accepted, no one can be excluded from higher education or its study fields, degree levels and types of institutions on grounds of race, gender, language, religion, or age or because of any economic or social distinctions or physical disabilities;
 - (b) reinforce the links between higher education and research;
 - (c) consider and use higher education as a catalyst for the entire education system;
 - (d) develop higher education institutions to include lifelong learning approaches, giving learners an optimal range of choice and a flexibility of entry and exit points within the system, and redefine their role accordingly, which implies the development of open and continuous access to higher learning and the need for bridging programmes and prior learning assessment and recognition;
 - (e) make efforts, when necessary, to establish close links between higher education and research institutions, taking into account the fact that education and research are two closely related elements in the establishment of knowledge;
 - (f) develop innovative schemes of collaboration between institutions of higher education and different sectors of society to ensure that higher education and research programmes effectively contribute to local, regional and national development;
 - (g) fulfil their commitments to higher education and be accountable for the pledges adopted with their concurrence, at several forums, particularly over the past decade, with regard to human, material and financial resources, human development and education in general, and to higher education in particular;
 - (h) have a policy framework to ensure new partnerships and the involvement of all relevant stakeholders in all aspects of higher education: the evaluation process, including curriculum and pedagogical renewal, and guidance and counselling services; and, in the framework of existing institutional arrangements, policy-making and institutional governance;
 - (i) define and implement policies to eliminate all gender stereotyping in higher education and to consolidate women’s participation at all levels and in all disciplines in which they are under-represented at present and, in particular, to enhance their active involvement in decision-making;
 - (j) establish clear policies concerning higher education teachers, as set out in the Recommendation concerning the Status of Higher-Education Teaching Personnel approved by the General Conference of UNESCO in November 1997;

- (k) recognize students as the centre of attention of higher education, and one of its stakeholders. They should be involved, by means of adequate institutional structures, in the renewal of their level of education (including curriculum and pedagogical reform), and policy decision, in the framework of existing institutional arrangements;
 - (l) recognize that students have the right to organize themselves autonomously;
 - (m) promote and facilitate national and international mobility of teaching staff and students as an essential part of the quality and relevance of higher education;
 - (n) provide and ensure those conditions necessary for the exercise of academic freedom and institutional autonomy so as to allow institutions of higher education, as well as those individuals engaged in higher education and research, to fulfil their obligations to society.
2. States in which enrolment in higher education is low by internationally accepted comparative standards should strive to ensure a level of higher education adequate for relevant needs in the public and private sectors of society and to establish plans for diversifying and expanding access, particularly benefiting all minorities and disadvantaged groups.
3. The interface with general, technical and professional secondary education should be reviewed in depth, in the context of lifelong learning. Access to higher education in whatever form must remain open to those successfully completing secondary education or its equivalent or meeting entry qualifications at any age, while creating gateways to higher education, especially for older students without any formal secondary education certificates, by attaching more importance to their professional experience. However, preparation for higher education should not be the sole or primary purpose of secondary education, which should also prepare for the world of work, with complementary training whenever required, in order to provide knowledge, capacities and skills for a wide range of jobs. The concept of bridging programmes should be promoted to allow those entering the job market to return to studies at a later date.
4. Concrete steps should be taken to reduce the widening gap between industrially developed and developing countries, in particular the least developed countries, with regard to higher education and research. Concrete steps are also needed to encourage increased co-operation between countries at all levels of economic development with regard to higher education and research. Consideration should be given to making budgetary provisions for that purpose, and developing mutually beneficial agreements involving industry, national as well as international, in order to sustain co-operative activities and projects through appropriate incentives and funding in education, research and the development of high-level experts in these countries.

II. PRIORITY ACTIONS AT THE LEVEL OF SYSTEMS AND INSTITUTIONS

5. Each higher education institution should define its mission according to the present and future needs of society and base it on an awareness of the fact that higher education is essential for any country or region to reach the necessary level of sustainable and environmentally sound economic and social development, cultural creativity nourished by better knowledge and understanding of the cultural heritage, higher living standards, and internal and international harmony and peace, based on human rights, democracy, tolerance and mutual respect. These missions should incorporate the concept of academic freedom set out in the Recommendation concerning the Status of Higher-Education Teaching Personnel approved by the General Conference of UNESCO in November 1997.

6. In establishing priorities in their programmes and structures, higher education institutions should:
- (a) take into account the need to abide by the rules of ethics and scientific and intellectual rigour, and the multidisciplinary and transdisciplinary approach;
 - (b) be primarily concerned to establish systems of access for the benefit of all persons who have the necessary abilities and motivations;
 - (c) use their autonomy and high academic standards to contribute to the sustainable development of society and to the resolution of the issues facing the society of the future. They should develop their capacity to give forewarning through the analysis of emerging social, cultural, economic and political trends, approached in a multidisciplinary and transdisciplinary manner, giving particular attention to:
 - high quality, a clear sense of the social pertinence of studies and their anticipatory function, based on scientific grounds;
 - knowledge of fundamental social questions, in particular related to the elimination of poverty, to sustainable development, to intercultural dialogue and to the shaping of a culture of peace;
 - the need for close connection with effective research organizations or institutions that perform well in the sphere of research;
 - the development of the whole education system in the perspective of the recommendations and the new goals for education as set out in the 1996 report to UNESCO of the International Commission on Education for the Twenty-first Century;
 - fundamentals of human ethics, applied to each profession and to all areas of human endeavour;
 - (d) ensure, especially in universities and as far as possible, that faculty members participate in teaching, research, tutoring students and steering institutional affairs;
 - (e) take all necessary measures to reinforce their service to the community, especially their activities aimed at eliminating poverty, intolerance, violence, illiteracy, hunger and disease, through an interdisciplinary and transdisciplinary approach in the analysis of challenges, problems and different subjects;
 - (f) set their relations with the world of work on a new basis involving effective partnerships with all social actors concerned, starting from a reciprocal harmonization of action and the search for solutions to pressing problems of humanity, all this within a framework of responsible autonomy and academic freedoms;
 - (g) ensure high quality of international standing, consider accountability and both internal and external evaluation, with due respect for autonomy and academic freedom, as being normal and inherent in their functioning, and institutionalize transparent systems, structures or mechanisms specific thereto;
 - (h) as lifelong education requires academic staff to update and improve their teaching skills and learning methods, even more than in the present systems mainly based on short periods of

higher teaching, establish appropriate academic staff development structures and/or mechanisms and programmes;

- (i) promote and develop research, which is a necessary feature of all higher education systems, in all disciplines, including the human and social sciences and arts, given their relevance for development. Also, research on higher education itself should be strengthened through mechanisms such as the UNESCO/UNU Forum on Higher Education and the UNESCO Chairs in Higher Education. Objective, timely studies are needed to ensure continued progress towards such key national objectives as access, equity, quality, relevance and diversification;
- (j) remove gender inequalities and biases in curricula and research, and take all appropriate measures to ensure balanced representation of both men and women among students and teachers, at all levels of management;
- (k) provide, where appropriate, guidance and counselling, remedial courses, training in how to study and other forms of student support, including measures to improve student living conditions.

7. While the need for closer links between higher education and the world of work is important world-wide, it is particularly vital for the developing countries and especially the least developed countries, given their low level of economic development. Governments of these countries should take appropriate measures to reach this objective through appropriate measures such as strengthening institutions for higher/professional/vocational education. At the same time, international action is needed in order to help establish joint undertakings between higher education and industry in these countries. It will be necessary to give consideration to ways in which higher education graduates could be supported, through various schemes, following the positive experience of the micro-credit system and other incentives, in order to start small- and medium-size enterprises. At the institutional level, developing entrepreneurial skills and initiative should become a major concern of higher education, in order to facilitate employability of graduates who will increasingly be required not only to be job-seekers but to become job-creators.

8. The use of new technologies should be generalized to the greatest extent possible to help higher education institutions, to reinforce academic development, to widen access, to attain universal scope and to extend knowledge, as well as to facilitate education throughout life. Governments, educational institutions and the private sector should ensure that informatics and communication network infrastructures, computer facilities and human resources training are adequately provided.

9. Institutions of higher education should be open to adult learners:

- (a) by developing coherent mechanisms to recognize the outcomes of learning undertaken in different contexts, and to ensure that credit is transferable within and between institutions, sectors and states;
- (b) by establishing joint higher education/community research and training partnerships, and by bringing the services of higher education institutions to outside groups;
- (c) by carrying out interdisciplinary research in all aspects of adult education and learning with the participation of adult learners themselves;
- (d) by creating opportunities for adult learning in flexible, open and creative ways.

III. ACTIONS TO BE TAKEN AT INTERNATIONAL LEVEL AND, IN PARTICULAR, TO BE INITIATED BY UNESCO

10. Co-operation should be conceived of as an integral part of the institutional missions of higher education institutions and systems. Intergovernmental organizations, donor agencies and non-governmental organizations should extend their action in order to develop inter-university co-operation projects in particular through twinning institutions, based on solidarity and partnership, as a means of bridging the gap between rich and poor countries in the vital areas of knowledge production and application. Each institution of higher education should envisage the creation of an appropriate structure and/or mechanism for promoting and managing international co-operation.

11. UNESCO, and other intergovernmental organizations and non-governmental organizations active in higher education, the states through their bilateral and multilateral co-operation programmes, the academic community and all concerned partners in society should further promote international academic mobility as a means to advance knowledge and knowledge-sharing in order to bring about and promote solidarity as a main element of the global knowledge society of tomorrow, including through strong support for the joint work plan (1999-2005) of the six intergovernmental committees in charge of the application of the regional conventions on the recognition of studies, degrees and diplomas in higher education and through large-scale co-operative action involving, *inter alia*, the establishment of an educational credit transfer scheme, with particular emphasis on South-South co-operation, the needs of the least developed countries and of the small states with few higher education institutions or none at all.

12. Institutions of higher education in industrialized countries should strive to make arrangements for international co-operation with sister institutions in developing countries and in particular with those of poor countries. In their co-operation, the institutions should make efforts to ensure fair and just recognition of studies abroad. UNESCO should take initiatives to develop higher education throughout the world, setting itself clear-cut goals that could lead to tangible results. One method might be to implement projects in different regions renewing efforts towards creating and/or strengthening centres of excellence in developing countries, in particular through the UNITWIN/UNESCO Chairs Programme, relying on networks of national, regional and international higher education institutions.

13. UNESCO, together with all concerned parts of society, should also undertake action in order to alleviate the negative effects of 'brain drain' and to shift to a dynamic process of 'brain gain'. An overall analysis is required in all regions of the world of the causes and effects of brain drain. A vigorous campaign should be launched through the concerted effort of the international community and on the basis of academic solidarity and should encourage the return to their home country of expatriate academics, as well as the involvement of university volunteers - newly retired academics or young academics at the beginning of their career - who wish to teach and undertake research at higher education institutions in developing countries. At the same time it is essential to support the developing countries in their efforts to build and strengthen their own educational capacities.

14. Within this framework, UNESCO should:

- (a) promote better co-ordination among intergovernmental, supranational and non-governmental organizations, agencies and foundations that sponsor existing programmes and projects for international co-operation in higher education. Furthermore, co-ordination efforts should take place in the context of national priorities. This could be conducive to the pooling and sharing of resources, avoid overlapping and promote better identification of projects, greater impact of action and increased assurance of their validity through collective agreement and review. Programmes aiming at the rapid transfer of knowledge, supporting institutional development

and establishing centres of excellence in all areas of knowledge, in particular for peace education, conflict resolution, human rights and democracy, should be supported by institutions and by public and private donors;

- (b) jointly with the United Nations University and with National Commissions and various intergovernmental and non-governmental organizations, become a forum of reflection on higher education issues aiming at: (i) preparing update reports on the state of knowledge on higher education issues in all parts of the world; (ii) promoting innovative projects of training and research, intended to enhance the specific role of higher education in lifelong education; (iii) reinforcing international co-operation and emphasizing the role of higher education for citizenship education, sustainable development and peace; and (iv) facilitating exchange of information and establishing, when appropriate, a database on successful experiences and innovations that can be consulted by institutions confronted with problems in their reforms of higher education;
- (c) take specific action to support institutions of higher education in the least developed parts of the world and in regions suffering the effects of conflict or natural disasters;
- (d) make renewed efforts towards creating or/and strengthening centres of excellence in developing countries;
- (e) take the initiative to draw up an international instrument on academic freedom, autonomy and social responsibility in connection with the Recommendation concerning the Status of Higher-Education Teaching Personnel;
- (f) ensure follow-up to the World Declaration on Higher Education and the Framework for Priority Action, jointly with other intergovernmental and non-governmental organizations and with all higher education stakeholders, including the United Nations University, the NGO Collective Consultation on Higher Education and the UNESCO Student Forum. It should have a crucial role in promoting international co-operation in the field of higher education in implementing this follow-up. Consideration should be given to according priority to this in the development of UNESCO's next draft Programme and Budget.