New Skills for New Jobs: Action Now

A report by the Expert Group on New Skills for New Jobs prepared for the European Commission
The New Skills for New Jobs expert group

Mission statement

‘New Skills for New Jobs’ is the policy initiative developed at EU level to build stronger bridges between the world of education and training and the world of work. In December 2008, the European Commission proposed a strategy(1) to help ensure a better match between skills and labour market needs and to organise the assessment of the Union’s future skills and jobs requirements on a permanent basis.

As a result a group of experts was set up in March 2009. Their mandate was to provide independent advice on developing the initiative further in the context of the EU's future 2020 strategy for growth and jobs through a series of key recommendations. The expert group met five times from April 2009 to January 2010 when it presented this report to the Commission.

Composition of the group

The group brought together ten independent experts from the fields of education and training, skills and employment:

- Professor Mike Campbell, Director of Research and Policy at the UK Commission for Employment and Skills, former advisor in the Leitch review of skills;
- Jim Devine, expert on e-skills, President of Dun Laoghaire Institute of Art, Design and Technology (Dublin);
- Professor Julia González, University of Deusto (Bilbao), joint co-ordinator of the ‘Tuning: Educational Structures in Europe’ project;
- Professor Gábor Halász, University Eötvös Loránd (Budapest), member, and former Chair, of the Governing Board of the OECD Centre for Educational Research and Innovation;
- Caroline Jenner, CEO of the NGO ‘Junior Achievement Young Enterprise’ Europe promoting education in entrepreneurship, skills for employability and financial capability;
- Arnold Jonk, Director at the Ministry of Education, Culture and Sciences in the Netherlands;
- Göran Hultin, CEO of Caden Corporation, former Executive Director of the Employment Sector, ILO and former Director of the Confederation of Finnish Industry and employers;
- Professor Dr Rainer Münz, Hamburg Institute of International Economics, Head of Research & Development Erste Group Bank AG, Member of the EU-Reflection Group;
- Dr Markus Schmitz, Head of Directorate ‘Basic Security System’, Headquarters of the German Public Employment Service (Bundesagentur für Arbeit);
- Olga Strietska-Iliina, expert on skills policies and forecasting systems, ILO.

The expert group benefited from contributions from Aviana Bulgarelli, Director of the European agency CEDEFOP (European Centre for the Development of Vocational Training) and Jorma Karppinen, Director at EUROFOUND (European Foundation for the Improvement of Living and Working Conditions).

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# Table of contents

**Key messages** 4  

**Section 1. Skills for jobs: shaping the present and the future** 7  

1. Our Ambition 8  
2. Skills already make a big difference today… 10  
3. … and challenges are becoming more urgent 12  
4. Are we prepared for the future? 15  

**Section 2. Action now: key recommendations** 17  

The case for skills 18  

1. Provide the right incentives to upgrade and better use skills for individuals and employers 19  
   • Better incentives and services for individuals 19  
   • Better incentives for employers to invest in, and make the best use of people’s skills 20  
   • Incentives for education and training institutions 21  
2. Bring the worlds of education, training and work closer together 22  
   • Make education and training more flexible and more open for innovation and enhance relationships between skills providers and employers 22  
   • Establish skills–based qualifications 22  
   • From initial education and training to continuing and lifelong learning – an opportunity for all 24  
3. Develop the right mix of skills 25  
   • The right skills portfolio 25  
   • Adapt curricula content, teaching, delivery methods and assessment to the intended learning outcomes 26  
   • The learning sector: a provider of skills, but also an employer with its own skills needs 27  
4. Better anticipate future skill needs 29  
   • Better labour market intelligence developing early-warning and matching systems 29  
   • Open up to talent, widening access to skills development for all 31  

In conclusion… 32  

References 32
Throughout this report, the term ‘skill’ subsumes knowledge, skill and competence defined in the European Qualifications Framework, where ‘skills’ means the ability to apply knowledge and use know-how to complete tasks and solve problems, and ‘competence’ means the proven ability to use knowledge, skills and personal, social and/or methodological abilities, in work or study situations and in professional and personal development.

Key messages

Upgrading, adapting and widening the skills portfolio of individuals to create and fill the jobs of tomorrow is one of the greatest challenges facing Europe today. Everyone needs to step up and be more ambitious for their futures — individuals, private and public employers, the education sector and governments at all levels.

Improving people’s skills is a real ‘win, win’ for all — for the economy, for society, for employers and, of course, for individuals themselves. In every single EU country, unemployment rates systematically vary with qualification levels. The employment rate for those with high skill levels across the EU as a whole is approximately 85%, for medium skill levels 70% and for low skill levels it stands at 50%.

And yet, it is an inconvenient truth that, despite progress in recent years, much of Europe is still not sufficiently skilled. Nearly one third of Europe’s population aged 25-64 – around 77 million people – have no, or low, formal qualifications and only one quarter have high level qualifications. Those with low qualifications are much less likely to upgrade their skills and follow lifelong learning.

Another major challenge is to ensure that people have the right skills. This is not just a question of short-term employability, but of our capacity to adapt to and shape the jobs of tomorrow. During the last decade education and training systems in Europe have become more relevant and responsive to the needs of society; but labour market mismatches still exist and create the painful and wasteful situation of both skill shortages and skill gaps co-existing with unemployment: an economic and social exclusion.

Future demographic trends will add further pressure to tackle this challenge. Fewer and fewer young people will graduate from schools and universities, and the only growth of the labour force is likely to be amongst those aged over 50. The numbers of over-65s in relation to those aged 15-64 will increase from 26% in 2008 to 38% by 2030. Clearly, with an increasing old-age dependency ratio, those in work also need to become more productive in order to support those outside the labour market.

These challenges, and opportunities, come at a time of serious fiscal restraint facing most, if not all, Member States as well as the EU itself. This requires explicit and sensible choices about priorities for public funding of education and training. We must strongly encourage individuals and employers to invest more heavily in their skills development, not only to secure the best ‘value for money’ but to reap the benefits of people’s potential.

Our vision for 2020

We want to see a Europe where citizens have more and better skills. Where people as well as organisations are able to make better-informed choices about which education or training to invest in, depending on which jobs they have, would like to develop in, or apply for. Where education and training systems propose innovative and equitable approaches such as flexible learning pathways, and focus on developing essential skills as well as intellectual and job-specific skills.
We want to see a Europe where these efforts will have helped the EU not only to recover successfully from the crisis, but also to fundamentally change the way Europeans think about ‘education and training’, about ‘work’ and about the relation between them. ‘Education and training’ and ‘work’ will no longer be two separate worlds, but will be much more integrated into a single lifelong learning process, open to innovation and open to all.

The foundation stone for success is to ensure that more, many more, people, businesses and public bodies recognise the value of skills. We need to persuade more people and organisations that their future prosperity depends on broadening skills and raising skill levels. Overall investment in education and training must increase, even if fiscal constraints are present, and must be efficient and well targeted. This can be achieved only if Member States promote a stronger, shared responsibility between government, employers and individuals for investing in skills.

How can this be achieved?

1. Investment in skills must be massive and smart. It requires the right incentives to upgrade and better use skills for individuals and employers: we need better incentives and services for citizens of all abilities, and better incentives for firms of all types to invest in, and make the best of, people’s skills.

2. We need to bring the worlds of education, training and work closer together. We need innovation to make education and training more flexible and open as well as to develop more effective relationships between providers, employers and guidance and placement services. More interaction will promote more skills-based qualifications and ensure continuing and lifelong education and training for all.

3. We must develop the right mix of skills. Specific job related competences learned throughout education and training must be underpinned by transversal competences, especially digital and entrepreneurial competences, in order to both encourage initiative rather than simple reproduction of received knowledge and to better adapt to learners and employers’ needs.

4. We need to better anticipate future skills needs, through improved labour market information, developing early-warning systems and opening up to global talent.

These four priorities are detailed in 34 specific recommendations. These will not be achieved without the sustained commitment and engagement of governments, local authorities, employers, education and training providers and individuals.

This is both a powerful and a challenging ambition and one which we must achieve if we are to secure prosperity in Europe in the decade ahead.
Section 1.
Skills for jobs: shaping the present and the future
1. Our Ambition

Upgrading, adapting and widening the skills portfolio of individuals to create and fill the jobs of tomorrow is one of the greatest challenges facing Europe today. Everyone needs to ‘step up’ and be more ambitious for their futures – individuals, ‘private and public employers’, the education sector and governments at all levels. There are great benefits in stepping-up – for ourselves, our communities, our economies and for society as a whole.

Our prosperity, today and tomorrow, depends on how many people are in work and how satisfied and productive they are when they are in work. Skills, the right skills, are the key to moving us out of recession into recovery, and the best guarantee of our ability to sustain our growth and secure lasting economic success. Skills also underpin personal development and well being.

A more highly skilled workforce is a more employable workforce (e.g. across the EU, those with medium level qualifications are 40% more likely to be employed than those with low level qualifications). A more highly skilled workforce is also a better paid workforce and a more productive and satisfied workforce.

And yet, it is an inconvenient truth that, despite progress in recent years, much of Europe is still not sufficiently skilled. Nearly one third of Europe’s population aged 25-64, around 77 million people, have no, or low, formal qualifications and only one quarter have high level qualifications. And those with low qualifications are much less likely to participate in upskilling and lifelong learning. Furthermore, of the five European benchmarks in education and training set for 2010, only one is likely to be reached. Worryingly, the latest figures show that 14.9% of pupils leave school early with several countries suffering from extremely high drop-out rates; the performance in reading literacy is actually deteriorating. This is not only unacceptable but means that we are way off meeting the 10% European target of early school leavers (3). We are, indeed standing on a ‘burning platform’. Europe aims to be amongst the most highly skilled regions in the world, yet many European countries are not even in the top 20.

We can, we must, do better: the countries that succeed in their exit strategies from the current crisis will be those that best educate and train their people for the future. Old certainties are largely gone, many of the jobs in 2020 do not exist today and cannot be foreseen yet; this requires the development of broader and better knowledge, skills and competences. It can mean individuals moving up one step within a formal qualifications framework, it can mean individuals acquiring additional qualifications related to other occupational fields, it can mean better recognition of skills acquired outside formal contexts. Most of the 2020 workforce is already in work, so raising skill levels is not just about our young people in school, college and university, but is about all of us – employed and unemployed, young and old, men and women, employees and managers at all levels.

Working life for individuals should be an active and continuing process of skills development, where there are high stakes to keep up with the pace of change and to be able to move easily...
from one job to another. Government, employers and individuals should see training and upskilling as an investment in a sustainable future, rather than as a cost to be minimised. People’s skills are essential to social and economic success. Employers should encourage their staff to achieve the ‘one step up’. More and better jobs will only be possible if we also raise the demand for skills by raising employer ambition and create a ‘virtuous circle’ where more skills are both available and utilised in the workplace. Working environments need to encourage people to use their potential to the full to the benefit of their work and their own development. Leadership is crucial.

We envision a Europe where citizens have more and better skills, where people have shifted from job seekers to job shapers. We want to see a Europe which is known as one of the most highly skilled parts of the world. People will be able to apply their skills in jobs where they are needed. Citizens as well as organisations will be able to make better-informed choices about which education or training to invest in, depending on which jobs they have, would like to develop in, or apply for. Education and training systems will propose innovative and equitable approaches such as flexible learning pathways, and focus on the development of essential skills (4) as well as job-specific skills. These are needed to help adapt to rapidly changing circumstances, to seize new opportunities, but also to shape the future, to innovate, to turn ideas into actions and to create new jobs.

Our schools, universities, training and workplaces will foster equal opportunities, entrepreneurship, trust, co-operation, and a sense of responsibility, creativity and innovation that will contribute to economic prosperity, societal good, engaged citizenship and personal well-being.

To achieve this vision, we need to be much more ambitious. Coherent efforts and policies for our education and training systems as well as labour markets are needed, where all stakeholders will raise their game. We want to see a Europe where these efforts will have helped the EU not only to recover successfully from the crisis, but also to fundamentally change the way we think about ‘education and training’, about ‘work’ and about the relation between them. ‘Education and training’ and ‘work’ will no longer be two separate worlds, but will be much more integrated into a single lifelong learning process, open to innovation and open to all.

Education and training systems will need to take into account people’s prior learning as well as their life situations, including gender, educational disadvantage and age, in order to enable education and training to cater to all kinds of learners and to pursue both excellence and inclusion – equally important goals for European society. Education and training especially needs to respond to the requirements of the labour market, just as employers should commit to investing in professional and competence development and how skills are best deployed in the workplace. A highly skilled and well organised workforce will certainly contribute to improved business performance.

Improving the level, quality and relevance of citizens’ skills is not an end in itself. It will promote job creation, technological and social innovation, economic growth and greater competitiveness. Our societies will be more cohesive, as everyone will, irrespective of their background, nationality or education, have the chance at every stage of their life to enhance their skills and competencies. So everyone can make better use of their potential, both within and outside work. The best way to include the more vulnerable, including migrants and minorities, is through better skills and employment opportunities. As people’s skills will match much better the needs of the labour market, unemployment levels will be lower, skill shortages will be fewer and employees, employers and the self-employed will greatly benefit.

This is both a powerful and challenging ambition, and one which we must achieve to secure prosperity in Europe in the decade ahead.

(4) These essential, transversal, skills are well summarised in the European framework of eight key competences: mother tongue; foreign language; maths, science and technology; digital competence; learning to learn; social and civic competences; sense of initiative and entrepreneurship; and cultural awareness/ expression.
2. Skills already make a big difference today...

We have to think about skills in the context of a ‘skills ecosystems’ in which individuals, employers and the broader economic and social context are in permanent dynamic interaction.

Improving people’s skills is a real ‘win, win’ for all – for the economy, for society, for employers and, of course, for individuals themselves (Figure 1). Improved skill levels help you ‘get in’ (to work in the first place, from education or from unemployment), ‘stay in’ (keep in work after entering the labour market) and ‘get on’ (progress through the labour market into better jobs).

In every single EU country, unemployment rates systematically vary with qualification levels. The more highly qualified you are, the greater the likelihood there is of you being in work. The employment rates, for those with high skill levels across the EU as a whole is 83,9 %, that for medium skill levels is 70,6 % and that for low skill levels is 48,1 % (5). And, in just about every EU country, the more highly qualified you are, the more you earn on average. It is perhaps no surprise that, over the last three years, in the EU the number of jobs employing people with higher level skills has actually increased, while the number of jobs employing people with low level skills has decreased.

Figure 1: The Benefits of Skills

**Society**
- Health improvements
- Increased participation
- Greater social cohesion and mobility

**Individuals**
- Improved job entry and job sustainability, ability to move between jobs, higher rate of successful start-ups
- Increased wage return
- High job quality and satisfaction

**Employers**
- Enhanced productivity
- Better business performance
- Greater profitability

**Economy**
- Increased productivity and competitiveness
- Increased employment and entrepreneurship and reduced economic inactivity

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(5) Eurostat, LFS, 2008
Adequate skills and competences are crucial to participate in working life, but also in social and civic life. They are the basis of community cohesion, based on democracy, mutual understanding, respect for diversity and active citizenship. Creativity, openness and interpersonal competences are also necessary for personal fulfilment and happiness.

According to recent research, the reform of an education system providing adequate skills for all citizens could increase GDP by as much as 10% in the long term (6). A better-trained workforce also benefits the economy as a whole and increases its competitiveness. It makes it easier for enterprises to adopt new technologies, innovate in products and services, processes or work organisation. Companies that train their staff are 2.5 times less likely to go out of business compared to those that do not (7). The lack of foreign language skills, and not just English, in small and medium-sized European enterprises alone results in a loss of more than €100,000 per year for each business on average (8).

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(6) Bertelsmann Foundation, The economic costs of inadequate education: a macroeconomic calculation of the dynamic growth effects of lacking education competence, 2009


3. …and challenges are becoming more urgent

While upgrading the skill levels of our citizens is a key challenge, ensuring that people have the right skills is just as important to increase employability and help create today’s and tomorrow’s jobs.

It is both lack of knowledge about and visibility of the current and future supply and demand of skills, and the inertia of education and training systems alongside labour market failures, that prevents a better match between supply and demand, i.e. between the skills we have available and those that are required by the labour market. Too many individual education and training decisions are made in the absence of competent career guidance and counselling, with a lack of understanding of people’s strengths or of the real dimensions and opportunities of different careers, labour market realities and employment prospects – a situation which often leads to inappropriate training and career choices.

There are also too many schools, training programmes and tertiary education institutions where the content of the curriculum and teaching methods could do much more to prepare people for the world of work. Too many vocational training programmes focus too much on obsolete skills and knowledge and too little on transversal key competences. During the last decade education and training systems in Europe have become more relevant and responsive to the needs of society, but the extraordinary potential of skills development to contribute to sustainable growth is not yet fully harnessed.

Moreover, workers’ skills are too often under-utilised in the workplace. When workers have acquired skills, it is essential that these are effectively put to work in the right jobs which draw on these skills and maximise their impact. Many companies could use their skilled workforce more productively if they moved up the value chain, moved into higher value added products and services or altered work organisation, human resource or management practices to get the best out of people, for example, through greater employee engagement. A lack of equal opportunities also prevents skills from being fully used. For instance, regardless of their educational attainment, migrants – especially female – are likely to end up in jobs that are well below their educational level.(9)

In order to rise to these challenges, education and training must be made more relevant to labour market needs, and more responsive to learners’ needs. This requires more than tinkering with systems and institutions: it compels us to rethink what we want from education, training and employment.

Future demographic trends will add further pressure to tackle this challenge. Europe is witnessing a shift to a society in which the older segment of the workforce and the elderly will form a new majority. And, in terms of the labour force, the only expected actual growth is amongst those aged over 50.

The numbers of those aged over 65 in relation to those aged 15-64 will increase from 26% in 2008 to 38% by 2030. The growing number of older people will require more care and medical support and therapies in their homes or in senior citizen residences. By 2020, the largest number of job vacancies – both newly created jobs and vacancies to replace people leaving for retirement – is expected to come from this sector, the so-called ‘white jobs’.

But the biggest impact of demographics is on the supply side: on people and their skills. Fewer and fewer young people will graduate from schools and universities, and the working age population will start to actually decline from 2013 onwards. Between 1985 and 2007, the numbers of people in the EU aged under 30 fell by nearly 30 million (or 14%): the overall population of working age in the period between 2007 and 2020 is likely to decline by 6 million. Clearly, with an increasing dependency ratio, those in work also need to become more productive in order to support those outside the labour market. To help compensate for this, we need to secure an increase in labour market participation – in particular of women and of older workers. Proactive immigration policies, ‘reaching out’ to talent and skills, will need to be another component of a long-term solution to the threat of labour shortages in Europe. And, critically, it is vital to get the unemployed back to work, not only as an aim in itself but to reduce the waste of talent, skills and human capital that it represents.

It will be crucial to make the most of our people’s skills, but it will also be necessary to adapt them. People in work will need to be more adaptable and productive, which does not necessarily mean working longer and harder but working better, and this is only possible through increasing skills levels and ensuring that these are appropriate to social and labour market needs. An older workforce also means a growing risk of skills obsolescence. The possibility of renewing and expanding skills throughout careers in order to have the possibility to stay employable, work longer and make career changes, will be crucial. At the same time, an older workforce means that there will be a greater mix of older and younger people in the workplace, and such diversity of experience can have a positive impact on innovation. Similarly, language training and skills adaptation will be necessary to enhance the skills of migrants. Adult education and continuing training will need to seize upon the opportunity to adapt and acquire a greater role.

Employment, education and training policies should also think globally and act at all levels. Increased global competition means that European countries will not be able to compete on cost and price, but need to produce higher quality products and services, delivered by higher skilled people. In Europe, as in the rest of the developed world, the widespread penetration of information and communication technologies will also lead to less routine manufacturing and office jobs. This powerful combination of globalisation, increased competition, technological and organisational change substantially increases the need to raise skill levels as consumer expectations rise and require ever more sophisticated and personalised products and services. The world
of work requires continual adaptation of competences, especially digital competence, communication skills and adaptability to changes in work organisation. In terms of technology and communication, the spikes of places with skills and talent will increasingly be the key differentiating factor in competitive success, especially in high-wage economies.

In the global race for talent Europe is currently losing part of its highly skilled workforce, as many high-skilled individuals migrate to the US, Canada and Australia. This global competition for talent is likely to grow in the future; in spite of the abundance of labour in both countries, Indian and Chinese companies are now reporting a lack of high level skills in, for example, product expertise, R&D and programme management, that they could find in Europe.

In the short term, more needs to be done to avoid the coexistence of unemployment and labour shortages and mismatches. With high levels of unemployment, one might expect that companies looking to recruit employees would find appropriate jobseekers to fill their posts: not so when the skills job seekers have are not those that employers seek. With no action taken, the mismatch between skills demand and supply can perpetuate itself even after economic recovery sets in.

The crisis is also accelerating the pace of economic restructuring, which will have a lasting structural effect on the volume and pattern of skills demand. Some industries will not bounce back to pre-crisis growth levels and sectors like car manufacturing, steel production, construction and other industries that are experiencing temporary plant closures may eventually face permanent job losses. At the same time, the crisis will breathe new life into other sectors. New investments in job creation, also supported through stimulus packages, will create new jobs, with potentially radically different skill needs, for example, in low carbon sectors, care of the elderly, life/biosciences and some professional/business services. Anticipating future challenges and establishing early warning systems should become a priority as and when labour demand will be revitalised, the composition of jobs and skills needs will have changed, with new drivers of growth in jobs and sectors that do not exist today.

These challenges and opportunities need to be addressed in a period of serious fiscal restraint facing most, if not all, Member States as well as the EU itself: explicit and sensible choices about priorities for public funding of education and training are essential: individuals and employers must be encouraged to take greater responsibility for the quality of their skills portfolios.
4. Are we prepared for the future?

There are 22.9 million unemployed people in the EU, including more than 5 million young people\(^{(10)}\). This is an economic, social and personal burden which falls particularly heavily on the low skilled. In the current crisis, too many young people leave school too soon, and fall straight into long-term unemployment. Many people lose their jobs through redundancy or remain unemployed for a time as they seek to change their jobs; others finish school, college and university every year and enter the market place, with an uncertain prospect to find work that secures their future. At the same time, many if not most employers are developing their companies, changing their products and services, as well as how they do things, looking for new markets and new sources of competitive edge, all are fighting for people with the right skills to help them get there.

The latest projections up to the year 2020 show that due to the crisis we can expect a smaller number of new job opportunities to become available. It is not all doom and gloom: in the next decade, we expect some 80 million job opportunities to arise, including almost 7 million new additional jobs. Most of these jobs will require a more highly skilled workforce. As we can see in Figure 3 and 4, the ‘skill intensity’ of jobs has been rising in recent years and is expected to continue to do so. Most job creation is projected for higher level occupations but also for occupations involved in service activities. As a result we expect the proportion of jobs employing high qualified people to increase to over a third, the proportion employing those with low qualifications to decrease to 15 %. Those requiring medium level qualification will continue to constitute half of all jobs.

![Figure 3: Future job opportunities by occupational groups, 2010-2020 (EU-27 + Norway and Switzerland)](source: CEDEFOP, 2010)

\(^{(10)}\) Eurostat, November 2009
So what needs to be done? The challenges ahead can only be overcome with a much more concerted and dedicated effort by individuals, private and public sector employers, trade unions, education and training providers, public services and governments at all levels, working closely together towards a common agenda. In the second section of the report we therefore suggest a number of urgent areas of action. Some are relatively new; others less so, although their impact so far may have been limited by weak implementation, something – with the crisis and the urgency of the challenges – we can no longer afford.
Section 2.
Action now: key recommendations
The case for skills

Skills matter. The foundation stone for success is to ensure that more and more people, businesses and public bodies recognise the value of skills. We need to persuade more people and organisations that their future prosperity depends on raising skill levels. But, in the end, people and organisations will only prioritise increasing skills if they believe it to be worthwhile to do so.

Key actions:

- It is essential that the European Commission, Member States and employer organisations, in close co-operation with education and training providers and trade unions, ‘make the case’ for skills and use modern information, communication and marketing techniques to encourage greater commitment to skills upgrading by individuals, employers and public agencies.

There has to be a higher scale of effort from all concerned. Now is the time for building and consolidating by integrating on-going efforts. It is essential that investment in skills is seen by all stakeholders as a key part of the solution to overcoming the crisis and sowing the seeds for sustainable recovery; it will help to keep the workforce in work, support strategically important sectors and lay the basis for future sustainable job creation. The crisis has also hit some groups particularly hard, including young people and migrants: ensuring their employability is also a matter of social justice.

Prioritisation and effective choices are the key to the targeting of skills development. The pressure on public expenditure and the importance of skills as a means to secure prosperity require rethinking the share of responsibilities between the government and public institutions, employers and individuals. It will be crucial that both employers and individuals ‘raise their game’ in terms of demand for skills acquisition. Public institutions have a key role to play, not least by acting as enablers in the system and by influencing the attitudes and behaviour of the key players, but also because public institutions are sizeable employers themselves. Measures to increase the benefits – or diminish the costs – of skills investment in the workforce are likely to increase the volume of skills investment by employers and individuals. National governments have the overall responsibility of improving their employment, education and training systems. The efficiency of funding streams will be especially important in these difficult economic times which put pressure on public expenditures. Governments therefore need to consider the responsiveness of the system to learners’ and employers’ needs; the effectiveness and sustainability of integration between employment, education and training; and the potential for achieving greater impact. The performance and responsiveness of our education and training systems will be a decisive factor in helping to overcome the current crisis and creating a solid basis for long-term growth.

We have organised our further recommendations into four streams. Each one is necessary, and taken together they make up, we believe, a coherent and balanced action programme to match the urgency of the agenda and the benefits that can be achieved:

1. Provide the right incentives to upgrade and better use skills for individuals and employers.
2. Bring the worlds of education, training and work closer together.
3. Develop the right mix of skills.
4. Better anticipate future skills needs.
1. Provide the right incentives to upgrade and better use skills for individuals and employers

Investment in skills must be massive and smart, so we need the right incentives to encourage governments, local authorities, individuals, employers, and education and training providers to take action. Without the commitment of all players this ambition will fail.

**Better incentives and services for individuals**

Incentives need to be designed to attract people into training, and to help individuals complete their learning for life and for work; they also need to be coupled with initial and ongoing advice to encourage ‘non-learners’ to demand skills development, and to help learners make more informed choices. Individuals need to take over more responsibility for lifelong learning and develop ‘career management’ skills. They need adequate support – including at school – to learn how to do so. The aim is to increase individual choice and make education and training providers more responsive to learners’ needs. Two tools to do this are learning vouchers and learning accounts; in the latter an employee can save and accumulate public and private funding and time off from work in order to undertake periodical training (11). Both have been tried as pilot projects in several countries, with promising results.

The systematic recognition of prior learning, as well as knowledge and competences acquired in work and life outside the school system, is still the exception in Europe. Validating this learning experience may help individuals to better understand their own capabilities and encourage further learning, employability and career development.

Public institutions, education and training systems and Public Employment Services (PES) should set an example by transforming themselves into modern, flexible and adaptable service providers and establish transparency with respect to their performance in order to help to effectively direct their resources. Public spending on labour market programmes, education and training should not be reduced in times of uncertainty, but rather directed to effective preventive and curative measures. When the number of job seekers greatly exceeds the number of job openings, the two basic functions of Active Labour Market Policies (to match and retrain workers to jobs and to maintain the participation of the unemployed in society) are seriously challenged. The participation of job seekers in successive rounds of programmes which do not lead to a job is as wasteful as long-term unemployment. PES should consistently design their training schemes according to market needs as well as to stimulate entrepreneurship and self-employment.

In order to make the most of people’s skills, traditional matching processes focusing solely on occupations will no longer be sufficient. A systematic matching of job profiles, breaking down job vacancies to their individual components (both of job specific and generic skill requirements), can serve as the basis for effective and efficient matching. PES should incorporate these techniques into the design of active labour market programmes to increase the employability of members of...
Better incentives for employers to invest in, and make the best use of people’s skills

More employers need to act in a more sustainable, non-cyclical way with respect to skills. In an economic downturn there is temptation to reduce investments in training, and more alarmingly risk a drain on skills through lay-offs. It is crucial for companies to maintain their human capital. With the beginning of recovery and employment growth, skill shortages become more acute. Companies that can identify emerging business needs and skill demands at an early stage, should be encouraged to invest in skills in times of crisis.

Companies that invest in the skills of their workforce do reap the benefits. And the best way to encourage other companies to invest in their workforce is through peer pressure and peer learning. Collaboration between companies, the use of competitive pressure and the establishment of employer networks, on a sectoral, geographical or supply chain basis, can inform companies not only of the benefits of skills development but of best practices. They can encourage innovation and change.

Having better skills is important. But, how these skills are then managed, more effectively mobilised and made use of in the workplace, is equally important. Even if a person has the best skills possible, it does not guarantee that they will achieve their goal or that the organisation employing them will benefit. Only when the best possible match is made between the skills of an individual and a job vacancy and only when, within an organisation, skills are put to their best use, will skills bring out their full potential.

Good management and leadership practices among businesses are particularly important. Improving skills utilisation in the workplace is to a large degree a matter of work management and organisation. Work organisation is often based on ‘fitting’ an individual and his/her skills or professional qualifications to a job. New ways of work organisation and management can make better use of people’s skills as well as to encourage employees to develop their skills.

Key actions:

- Develop and implement cost-efficient approaches to identify and validate prior learning and practical experience, and make this an enforceable element of collective agreements and work contracts. Raise awareness about schemes for recognition and certification and guidance and counseling and assist jobseekers with analysing their own skills better – including key competences. Improve the integration of existing tools, e.g. develop further Europass[12], by including enhanced self assessments tools, raising awareness and encouraging its broader use and acceptance across multiple sectors and at all levels of education and training to make qualifications, skills and competences visible.

- Make greater use and better evaluate the impact of learning accounts or learning vouchers, especially for low-skilled workers, based on the principle of ‘co-investment’ by government, individuals and employers, as appropriate. Use tax relief or lower interest rates on borrowing to provide investment by individuals/employers at preferential rates. Establish co-investment as part of collective agreements and work contracts for people in work, and via counseling/PES for the unemployed.

- Prioritise guidance and counselling services and motivational support for individuals, improve the quality of these services and ensure that they tackle stereotypes. Publicise in a visible and comparable format on the web the opportunities and offers, as well as the prices and returns, of public and private education and training courses, so that individuals can make informed choices. Further develop in Public Employment Services profiling systems including internet and skill-based matching tools such as the EU tool ‘Match and Map’.

[12] Europass is a framework to support citizens to communicate in a transparent manner their qualifications and skills, including a CV tool (http://www.europass.cedefop.europa.eu)
There is scope therefore, to improve business performance by encouraging the take-up of established good management practices especially in SMEs and owner-managed organisations. They are the backbone of most national economies in Europe, but often lack human resources expertise. Public Employment Services will also have to re-invent their services, building up professional Labour Market Information Services and special counselling services to help SMEs, for instance, to optimise skills utilisation.

Incentives for education and training institutions

Incentives are also needed to enhance the adaptation of all schools, universities and training places, encourage dialogue with the world of work and make them more effectively concentrate on the development of relevant competences. Although there are many valuable and relevant initiatives this is far from being enough. The accelerating changes in the skill needs of workplaces, especially in the light of the expected post-crisis restructuring processes, require further and more dynamic adaptation. Future efforts should build on the achievements of the last decades and on the results of already existing programmes. All incentives should convey a more coherent and stronger message. Their aim should be to accelerate the shift of education systems towards achieving greater relevance and more openness.

Key actions:

- Enhance skills development policies through public procurement, and promote tax incentives to stimulate targeted investment in low-skilled and older workers, avoiding redundant spending.

- Explore further the benefits of treating capital investments and investments in training on an equal basis. Consider knowledge and skills acquired by employees during the course of their duties as adding value to the company, so that part of the expenditure on training and salaries during the training period can be depreciable in tangible fixed assets and transferred accordingly on the balance sheet.

- Provide incentives for companies to encourage skills upgrading in their suppliers.

- Communicate the benefits of a skilled, adaptable workforce and on how to improve skills utilisation in the workplace, involving key intermediaries such as education and training providers, social partners or PES, and disseminate the results of successful skills investments by companies, for example through awards schemes or other recognition.

- Support the further development of employer collaboration networks to share information and good practices in skills development and skill use.

- Provide better support for SMEs: a) in leadership stratégic planning and training for management including in effective skill utilisation, and b) in training for staff in effective skill development. Support SME by building up regional qualification infrastructure to enable them to pursue skill upgrading.

Managing and leading an ‘organisation of skills’ as opposed to running an ‘organisation of job posts’ requires a fundamental managerial rethink and new ways of leadership. It is employers who decide how jobs are designed, filled and executed. The skill levels of managers themselves are also a key to success.
2. Bring the worlds of education, training and work closer together

Make education and training more flexible and more open for innovation and enhance relationships between skills providers and employers

Education and training can be effective and innovative if the institutions themselves are innovative, ‘learning organisations’ open to interactions with the world of business and work. There is a need to make regulatory environments, incentives and support mechanisms more coherent, so that schools, higher education and training institutions can adapt to changing conditions.

Priority should be given to the development of institutional leadership, capacity building and quality improvement efforts enhanced including in human resource development.

Key actions:

- Encourage greater collaboration between education and training providers, employers and professional bodies, including through partnerships between their national bodies and through national/regional tripartite and/or multi-stakeholder arrangements and bodies wherever they are available.

- Give priority to the development of institutional leadership across the board, and to the enhancement of quality assurance efforts including in human resource development.

- Ensure the responsiveness of education and training systems at all levels, including through legal frameworks, institutional structures and financing mechanisms which facilitate openness, co-funding and stakeholders’ involvement. Encourage employers to co-invest and participate in the activities of education and training institutions in professional or governance and advisory board roles. Develop criteria to measure, monitor and evaluate progress.

The structural funds and in particular the European Social Fund of the European Union are already widely used to upgrade skills and to enhance the modernisation of education and training systems. There is a need to consider how the structural funds can better support the goal of bringing education, training and work closer together as well as modernising education and training systems overall.

Establish skills-based qualifications

In order to ensure that the qualifications people obtain are actually of value to them on the labour market, and so that employers can employ people who possess the skills they need, cooperation between ‘work’ and ‘education and training’ should be much more intensive and more substantial. These two worlds need to address and overcome existing barriers between them and understand that only a joint approach will deliver what people really need and want, be it in transitions from initial education and training to work or in training or education during their careers.
‘Learning outcomes’: a new way to approach qualifications

Qualifications have traditionally been defined in terms of (a) the time spent by an individual to complete them; and (b) the level required to enter the programme (for instance a tertiary education programme requires completion of secondary education and has a duration of 2 years at least).

Qualifications can be developed in terms of outcomes: the European Qualifications Framework (EQF) and European tools such as the European Credit Transfer System (ECTS), the European Credit Transfer System for Vocational Education and Training (ECVET), Europass, help to define courses, programmes and qualifications in terms of learning outcomes i.e. what an individual knows, is able to do and/or understands after having completed a learning process. Applying the learning outcomes approach to define, for example, training standards not only broadens the scope of ‘recognised knowledge’ but also increases the transparency of national systems and makes it easier to judge what is offered by education and training systems and institutions. Standards that clearly state what is expected from the learner at the end of the process, but do not specify a single route to this goal, also offer individuals at different ages and life situations a greater range of options, and make education and training more flexible.

The learning outcomes approach can serve best the needs of both the learner and the labour market, provided that employers are involved in defining, designing, certifying and recognising learning outcomes. It can help to develop a common language: instead of classifying jobs by occupational type and required qualification, as has been the case so far, we can now move toward describing both in terms of skills and competences. The consequence is better designed and delivered programmes – curricula, teaching, learning and assessment – which should lead to better employment, as well as learning, outcomes.

Both need to understand that educating and training people is their shared responsibility.

A more flexible, responsive education and training system is good for learners, good for employers, good for the economy and good for the community(ies) it serves. It will help balance the labour market and ensure that individuals and employers acquire the skills they need. And, a focus on ‘learning outcomes’ can encourage this relationship.

A focus on learning outcomes is potentially profound in its implications. The rapid development of national qualifications frameworks in all Member States creates bridges between education and training and work, and makes traffic on these bridges permanent and more intensive. The European Union should continue to support these developments and reforms. Communication, trust building and increasing transparency should become key elements of the reforms of qualifications systems. This requires leadership from the highest political level and commitment of all, including trade unions and employers’ organisations. Consultation must also be reinforced at the local level.

Key actions:

- Develop outcome-based qualifications and a common language between education/training and the world of work, communicate the potential of European Qualifications Framework and national qualification frameworks, and ensure the involvement of all actors, including PES, employers and social partners. Encourage and facilitate the use of learning outcomes in planning and delivering educational and training programmes at all levels, including higher education institutions.

- Adapt pedagogy and training and assessment methods, to align them more clearly to learning outcomes. Make labour market needs analysis and the definition and implementation of appropriate learning outcomes a priority in institutional leadership and strategy, as well as in institutional level information and quality management.
Even within the education and training system different parts such as vocational education and training and higher education have too limited links to each other. This makes it difficult to combine courses, programmes and qualifications in the best way and may limit participation and progression. Current reforms across Europe should continue to support more flexible learning paths, foster motivation and value individual learning.

Key actions:

- Break down barriers and widen access to education for a variety of audiences, including adults and vulnerable groups, through accreditation of prior learning and flexible pathways

Bridging the worlds of education and work aids the transition of the individual to the labour market, brings innovation and diversity to the two worlds and helps makes the right mix of skills happen.
3. Develop the right mix of skills

The right skills portfolio

Job and subject specific competences learned throughout education and training need to be underpinned by transversal competences in order to both encourage initiative rather than a simple reproduction of received knowledge and to better match learners’ and employers’ needs.

Employers are interested not only in a person’s academic or vocational qualification, but also in other competences that would add value to their organisation. Moreover, young people often complain that they feel unprepared for the world of work when they get there. The missing link, in part, lies in a set of desirable skills such as the ability to work quickly, analyse and organise complex information, take responsibility, handle crisis, manage risk and take decisive action. This calls for the development of ‘T-shaped’ individual skills profiles: individuals should combine such transversal core skills (the horizontal bar) with the specific skills needed for a job (the vertical bar). These competences should be acquired as soon as possible, but they could also be developed throughout life.

Digital skills showcase the importance of the right mix of generic competences and technical skills. E-Skills range from the informally acquired functional digital skills to specialist practitioner skills. At one end of the spectrum, it is almost universally true that any job will require some level of e-skills. Digital and media literacy will be crucial both for life and work, and we should tend to the new goal of digital fluency. For an increasing number of jobs, indeed, digital fluency is increasingly required.

New jobs in the low-carbon economy will require heterogeneous skills portfolios. Environmental awareness will also need to become a component of core skills the same way as IT skills have become in the past, as every workplace and job has the potential, and the need, to become greener. Other growing areas of jobs will require new curricula, such as in the ‘white economy’ linked to the ageing of the population.

Key actions:

- Develop the integration of the key enabling competences such as creativity, innovation, entrepreneurship, and citizenship, in schools, in higher education and initial and continuous vocational education and training. Develop and provide tools for individual self-assessment.
- Embed digital and media literacy at all levels in education and training, and map competences towards a goal of digital fluency for all citizens.
- Develop Europe-wide indicators to measure levels of transversal key competences. Set quantitative targets (e.g., access to entrepreneurship education; or digital literacy), and provide the metrics to monitor progress.
- Ensure an adequate flow of qualified workers to facilitate the transition to the low-carbon economy. Include environmental awareness in all curricula irrespective of the level of education or training.
Building entrepreneurial competence in school

It is widely recognised in EU reports that our school systems can do much more to stimulate the entrepreneurial mindsets of young people. Learning-by-doing programmes encourage innovation and foster the changes of attitude and behaviour that this new century is demanding. These programmes can be successfully applied at any level of the curriculum, from pre-school upwards.

The ‘mini-company’ is one best practice in entrepreneurship education that is highly adaptable with proven results in many countries around the world. The method involves a clear set of steps and learning outcomes. Educators guide their students as they set up their enterprise, come up with an idea, raise capital through shares, produce their product and take it to market. The students are mentored by adult volunteers from the local business community. At the end of the exercise, students liquidate the company. Annual competitions reward team success in a variety of areas, but also test individuals’ knowledge and understanding of the process. The method emphasises experience and interaction with others (teaming) as a way of learning. It favours the application of knowledge in new ways, the improvement of transversal skills such as problem-solving and decision-making together with the development of other aspects of our development such as creativity, innovation and self-confidence.

The mini-company approach responds to our need to bring the education and business communities closer together. It exposes young people directly to real world situations, empowering them with the skills to cope with complex problems and allows them to better understand the connection between their studies and the world outside. Studies show that employability and career satisfaction is improved: 15% of past participants between the age of 21 and 29, and 26.6% aged 29 or over, have started their own business. The EU average start-up rate is between 6 and 10%. Mini-companies are globally recognized and running in 125 countries (37 in Europe).

Adapt curricula content, teaching, delivery methods and assessment to the intended learning outcomes

There is little point in setting relevant learning outcomes and developing innovative qualification frameworks, if education and training institutions lack the capacity to create appropriate learning environments to achieve the intended outcomes. Consistency between the formulation of learning outcomes, assessment, pedagogy and the initial education and continuous professional development of teachers and trainers is required. Schools, universities and training places can more effectively concentrate on the development of the competences that are the most relevant for work, adult life and lifelong learning. Too often, modes of formal assessment and evaluation are too narrowly defined and do not capture the range of outcomes desired; a situation compounded by ‘teaching to the test’ which results in a narrowing of the taught curriculum. We should develop ways to assess, test and recognise whether people have acquired and improved transversal and key competences and whether our institutions are successfully encouraging them.

Key competences require different kinds of teaching and learning methods than those traditionally applied. The skills and competences needed today and in the future cannot only be learned through subject teaching but also require more cross-curricular and innovative approaches, such as, learning-by-doing or project-based learning. Learning through experience is seen as one of the most efficient learning methods for professionalisation and stimulating creativity and innovation. Workplaces could play a more active role in providing real spaces for learning in real life projects, as is already the case for work-based VET systems. All education and training can better promote a culture of receiving students in the workplace for field and project work, internships or apprentices.
good practice on teachers’ professional development. Encourage teachers and institutional leaders to spend time in workplaces in industry or other services and apply the experiences made, as it is already the case in vocational education and training.

The learning sector: a provider of skills, but also an employer with its own skills needs

The learning sector, a major value-producing sector, has become one of the main employers and is expected to expand further in the future. It comprises not only the traditional areas of formal education but also an increasing number of profit and non-profit companies providing or producing various education related services, teaching materials, digital educational resources, educational technologies and other products. It may also include other services related with education and personal development, such as guidance services, company based human resource development and community development.

Major upcoming challenges for the sector include making more effective use of on-line learning and teaching increasingly heterogeneous groups of pupils. Teachers will need to take on the role of trainers to serve lifelong learning, while the population of young cohorts will start to shrink. The ageing of the learning sector workforce itself is a major challenge: for instance, 53 % of primary teachers in Germany, and 59 % of lower secondary teachers in Italy are over 50.

Unless appropriate action is taken, shortages may increase as more teachers retire. Countries should anticipate by training and recruiting more teachers, and work to improve the teaching profession’s attractiveness. Gender imbalances should also be tackled to bring more men into the teaching profession: if 97 % at pre-primary school teachers in OECD countries are women, they are only 39 % in tertiary education. Women are under-represented in positions of responsibility and management at many levels in the sector.

Updating skills, knowledge and motivation among teachers, trainers, other educational...
However, all these developments in gaining a better mix of skills amongst learners, occur as it were, from ‘within’ the education and training sector, albeit with enhanced engagement with the world of work. A further more radical means of aligning the skills that are available and acquired with those required by the labour market is to seek to identify the major ‘imbalances’ between the skills people have and those needed by the labour market and then find mechanisms to encourage the stakeholders – providers of education and training, learners and employers – to adapt their behaviour in order to secure a better balance of skills available with skill needs, to the benefit of all. This is in line with encouraging changes in behaviour so as to reduce skill shortages, and skill gaps on the one hand, and unemployment and under-employment on the other. This leads us directly onto the issue of the better anticipation of skill needs as a key means of better aligning skills supply and demand.

Key actions:

- Strengthen continuing training of teachers, in particular by facilitating placements outside the education and training sector, strengthening communication with enterprises and other users of qualifications. Make similar efforts to develop the skills of other key actors in the ‘learning sector’ such as specialists in pedagogical support, curriculum development, assessment, career guidance and providers of other education related services.

In the OECD Teaching and Learning International Survey (TALIS) Survey on lower secondary school teachers more than half respondents reported that they would like to have access to more regular professional development offer. Three quarters of stated that they currently do not receive rewards or recognition for improving the quality of their work; on the other hand, almost the same share reported that they would not be penalised because of sustained poor performance.

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However, staff and especially those who have been engaged in teaching or training for a long time should become a priority. Effective and innovative pedagogies can only flourish if teachers and trainers have the incentives and opportunities to develop their own skills. Indeed, teachers call for it(17).

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28

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4. Better anticipate future skill needs

Better labour market intelligence developing early-warning and matching systems

Clarity is vital to better inform individual learners, skills providers, employment services, employers and public policy. A more over-riding message that has emerged from these difficult times is the fact that skills supply and demand need to be closer aligned. Labour Market Information (LMI) can help to create market transparency on skills, raise placement efficiency and support a more balanced market. It provides helpful ‘signals’ to all stakeholders – individuals, employers and education and training providers, as well as government and public agencies – of how well the ‘market’ is working, where the problems are, and what the trends are. And, by informing everyone, LMI itself encourages adaptive behaviour from participants. Most Member States have started to develop and refine the methods for collecting and analysing LMI to effectively direct the efforts of employers, employees, social partners and policy makers on the field of upskilling and prevention of skills and labour market imbalances.

The role of LMI is to assess both the existing skills needs and to provide a longer term perspective, so that we not only anticipate future requirements but also actively shape them. Traditionally, the focus has been on Member States for coordinating and gathering their own LMI. But in order to make the most of the free movement of labour within Member States and to inform labour mobility from third countries, we need to develop tools which enable us to make cross-national assessments of sectoral, regional and national progress on these issues.

LMI systems should also be developed so that the qualitative information they provide can be easily accessed and used by education and training providers. They should provide better qualitative information about the nature of competences needed, which can be translated into relevant learning outcomes and orientate education and training decision-makers.

The simple availability and communication of this intelligence will inform all parties and potentially lead to some changes in decisions and choices, especially if made easily available on a comparable basis e.g. employment outcomes and wage gains associated with the successful completion of programmes and courses. However, Member States could also consider further encouragement in the form of financial incentives/disincentives (e.g. course fees, bursaries or awards) as a means of increasing or decreasing skills availability in key areas of shortage or surplus, respectively.

At a more ‘macro’ level, evidence could be made available of the employment/wage gains associated with different levels of qualification or type of provider.

There is a strong need to establish EU-wide, national and local labour market monitoring based on reliable data, in order to assess current and prospective employment opportunities and challenges by sector and region, and be informed about trends regarding skill requirements for different sectors and regions. Data collection needs to be done in close
cooperation with employers. Top class labour market intelligence should also allow us to identify where upcoming changes in the industrial environment (e.g., technological breakthrough) or the existing labour market (e.g., ageing workforce) will lead to a need for a major change, or where the capability of our economies to sustain a leading position in a sector or enter emerging areas could be undermined by critical shortages, without a major development in skills supply.

There is much valuable work underway at both the European and national levels which should be more widely known and used\(^\text{18}\).

In order to respond to the identified needs, it is necessary to build strong provider/employer partnerships through institutions such as national tripartite bodies and Sector Councils. These institutions, managed by the social partners often in cooperation with, or even led by, governments, are emerging as centres of expertise in labour market and training issues, carrying out activities such as research, consulting and mediation and can help align training to the needs of the economy and labour market.

There are some common elements that need to be considered across Europe when using LMI to help shape investment in skills. In the past, a great part of the centrally-directed activity revolved around attempts at planning for different levels and types of education and training provision, often with the aim of getting skills supply to ‘match’ demand. However, this type of rigid planning approach at a national sectoral or regional level is very complex and deeply problematic and it has to be doubted whether it is possible or even desirable.

Instead, the emphasis should be on building an agile system that responds to market signals and where LMI informs consumers, providers and funders, helping them to make more informed decisions, rather than the state ‘planning’ provisions at a micro level. LMI’s primary function is to help independent actors (employers, individuals and education and training providers of all kinds and policy makers) decide on investment in skill formation and career choice. The better informed they are about the labour market, the more effective their decisions will be, allowing European citizens to acquire the right skills sets required by employers, and Member States to develop responsive and strategic policies to encourage/discourage labour market and skill trends through information, incentives or priorities, rather than attempting to centrally plan supply to match demand. In any case, it is dangerous to take ‘demand’ as given, especially in economic circumstances where it may be desirable to restructure/develop/reposition an economy for the future.

The key is therefore excellent information, outstanding intelligence (interpretation and analysis of the information) and accessibility to it. Citizens, employers, and policy makers could all benefit from a re-focusing and ‘opening up’ access to labour market information. Young people in particular would benefit as students’ decisions are too often made in the absence of competent career guidance and lack understanding of labour market realities. However, career guidance later in life is also crucial. LMI-supported counselling can help adults in making the choices that allow them to enter into promising fields. Moreover, guidance can break down traditional barriers, like those, for instance, that arise due to gender stereotyping.

Wider availability of appropriate LMI would also benefit employers (in their recruitment and human resource development functions); education and training providers (in their strategic and business planning); as well as Government and public agencies (in their policy development and priority setting).

**Key actions:**

- Improve the capacity to anticipate future skill requirements, using a combination of different methods at European and national level in a coordinated way, combining skill supply and demand forecasts with qualitative information on actual skills needed (e.g., EU-wide employer surveys, sectoral studies and scenarios, advisory sectoral bodies and/or groups of experts analysing emerging, evolving and changing occupations and labour market conditions). Ensure good quality statistical data on jobs and skill/
competence requirements, especially at EU level.

- Develop measuring tools of structural imbalance between skills supply and demand (shortages, surpluses, skill gaps, over- and under education, skill obsolescence). Make the resulting information widely available, and establish labour market monitors by exploiting the full potential of digital media, both to link the existing LMI sources and to make the LMI available in targeted, user-friendly and accessible formats.

- Involve potential contributors, including statistical offices, employment agencies, research organisations, NGOs, sectoral bodies and tripartite employment and skills bodies, in the anticipation of skills needs, and create and disseminate good practices on better production and use of LMI at European, national and regional level, including its policy function and relevance for education and training offer, migration policy and activation measures.

- Develop comprehensive systems to track and monitor learners’ success on the labour market, and make this part of quality criteria for education and training institutions.

- Create EU sectoral councils, bringing together existing national networks at EU level for the analysis of the skills needs and the development of proposals for updated qualifications in each sector. Encourage the emergence of a new and specific body representing all key stakeholders of the learning sector at EU level.

Open up to talent, widening access to skills development for all

We need to open up to talent, inside and outside. One example made is to high lack of employment of Roma whose talent is clearly wasted and where restricted access to learning is one source of this. There is clear evidence that the potential of migration is not fully valorised. Employment rates of immigrants are not satisfactory particularly for some immigrants with lower skills levels, in particular women and those who have come to the EU most recently. Migrant workers are more likely to work in jobs where their skills and qualifications are under-utilised than citizens of host countries. Taking into account future global competition for talent and likely future labour shortages in some occupations, one of the top priorities will be to effectively manage the human capital represented by migrants not only by recognising and improving their skills but also by managing labour migrant inflows according to the skills needed and encouraging them to become entrepreneurs.

Key actions:

- Share information on surplus and shortages of skills across EU countries, and take it into account in immigration policies, on the basis of the expanding legal framework on admission schemes both at EU and Member State level.

- Set clear and transparent rules for the recognition of degrees and qualifications to better recognise migrants’ skills.
In conclusion…

Skills really can, and do, make a difference – to people’s lives, to people’s futures. Better skills can do much to help the EU become more prosperous and more successful, with more and better jobs, more and new businesses and greater competitiveness.

Increasingly, there is nowhere to hide for low skilled communities, low skilled workers or low skills companies. And the EU is not yet highly skilled enough to guarantee its future success. ‘Business as usual’ is not an option. We need the right skills and we need to skill Europe up on a massive scale and in quick time. We require a step change in our thinking about skills. It is a challenge we can transform into an opportunity.

We hope that this report and recommendations will play a part in moving us into an ‘era of common sense’ informing the skills agenda of the European Commission and Member States as well as that of employers, trade unions and education and training providers. The responsibility for progress on the initiative New Skills for New Jobs initiative lies with each of us as individuals and as stakeholders inside our various organisations. The future is in our hands.

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**Links**

Cedefop (European centre for the development of VET)
http://www.cedefop.europa.eu

Eurofound (European Foundation for the improvement for Living and Working conditions)
http://www.eurofound.europa.eu

European Commission New Skills for New Jobs: