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PREFACE

Education and training is a key component of Europe 2020 and plays a fundamental role in supporting smart, sustainable and inclusive growth in Europe.

Vocational education and training (VET) holds a priority place as contributor to human capital development, to economic growth, to reduction of unemployment, to better employment and social cohesion in the Republic of Macedonia. Such demands on VET policy show no sign of abating as the economic crisis persists and challenges the world and all our policies.

The system of vocational education and training shall meet the needs of the individual citizens and skills demand of the labour market – now and in the future.

At a time when demand for new skills is growing as never before, VET ought to encourage innovation, competitiveness, new partnerships, and prepare citizens for employment in the domestic and global labour markets.

The European dimension in vocational education and training in the Republic of Macedonia is translated through development of key competencies, the application of quality criteria, enhanced transparency of the system, networks for cooperation and high-quality teachers and trainers.

Reforms in vocational education and training intend to strengthen lifelong learning, to make mobility a reality, to improve the quality, effectiveness and efficiency of education and training. Moreover, VET shall promote equity, social cohesion and active citizenship.

Imperative challenges incited the development of this Strategy for Vocational Education and Training in a lifelong learning context (2013-2020): the rapid development of new knowledge and technologies, frequent changes in the labour market, growing demand for highly qualified labour, aging of the population, impact of globalisation, and the process of accession of the Republic of Macedonia to the European Union.

The strategy emphasises development of vocational education and training oriented to the common European goals, the priorities formulated in the Bruges Communiqué (2010) and the strategic framework for European cooperation “Education and Training 2020”.

The strategy and action plan for vocational education and training in the context of lifelong learning 2013-2020 build on a comprehensive collaborative analysis of the existing system of vocational education and training, included consultation with all relevant stakeholders in the Republic of Macedonia.

The strategy intends to improve the effectiveness of the functioning of the existing system of vocational education and training in terms of quality and output, i.e. in terms of its effectiveness and relevance for youth and adults, for the market labour and continuing education.

The strategy addresses the following priority areas:

- vocational education and training and its role in strengthening social inclusion and cohesion;
- the attractiveness of education and training as an aware choice for youth and adults;
- the quality and relevance of vocational education and training, as guarantee for competitiveness;
- good governance, resources, capacity and accountability in the future system education and training.

The strategic objectives of vocational education and training contemplate:

- enhancing the attractiveness, relevance and quality of vocational education and training, allowing it to play a major role in promoting business performance, competitiveness and innovation;
- providing youth and adults with diverse and flexible learning opportunities to acquire skills that will be needed for career development and to stimulate entrepreneurial attitude, promoting their participation in further education and training and contributing to active citizenship and personal fulfilment;
- promoting the highest quality and social inclusion, contributing to better employability, mobility and safety in the workplace, improving anticipation and management of change in the labour market and enhancing business competitiveness.
The strategy and action plan for vocational education and training in the context of lifelong learning (2013-2020) provide a comprehensive basis for further reforms in key areas: curriculum, infrastructure, capacity of teachers and trainers, management teams, collaboration with higher education, development of social partnership, competitiveness, entrepreneurship and innovation, as factors for development.

It provides a framework and direction for donors’ assistance in education and training, and for subsequent planning activities and implementation of IPA II, in the period up to 2020.

The ownership of the whole process by the authorities and all social partners was demonstrated through the support, expert advice and leadership provided by the Ministry of Education and Science, the Centre of Vocational Education and Training, and the Council of the VET strategy.

The European Training Foundation (ETF), through continuous support, expertise, advice and recommendations, contributed to seeking coherence with the relevant EU policies and good practices. The support of ETF allowed this long-standing plan to become a reality.

The strategy will serve policy makers in education, the social partners, providers of education and training and all stakeholders engaged in supporting the vocational education and training system.

Our gratitude and congratulations to the experts’ team and all those who participated in the development of the strategy, as well as in coordination and monitoring the whole process.

Our gratitude to all involved for their dedication, hard work and contribution in producing this document, as a step in the reform of vocational education and training.

The new strategy is designed and focused on what is relevant for all stakeholders and provides responses to the question of where we are now and where we want to be in the future.

_Pance Kralev, M.Sc._
Minister of Education and Science
ABBREVIATIONS

2-y. VET Secondary vocational education of 2-year duration
3-y. VET Secondary vocational education of 3-year duration
4-y. VET Secondary vocational education of 4-year duration
AE Adult education
AEC Adult Education Centre
ALM Active Labour Measures
BDE Bureau for Development of Education
Cedefop European Centre for the Development of Vocational Training
ECTS European Credit Transfer System
ECVET European credit system in vocational education and training
EPR European Peer Review
EQAVET European framework for quality assurance in VET (previously EQARF)
EQF European Qualifications Framework
ESARM Employment Service Agency of the Republic of Macedonia
ETF European Training Foundation
EU European Union
GDP Gross domestic product
HE Higher education
HEAEB Higher Education Accreditation and Evaluation Board
HVS Higher vocational specialisation
LLL Lifelong learning
LM Labour market
M&E Monitoring and evaluation
ME Master exam
MoE Ministry of Economy
MoES Ministry of Education and Science
MoF Ministry of Finance
MoLSP Ministry of Labour and Social Policy
NAEPM National Agency for European Education Programmes and Mobility
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>NDC</td>
<td>Nansen Dialogue Centre</td>
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<tr>
<td>NFIL</td>
<td>Non-formal and informal learning</td>
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<td>QA</td>
<td>Quality assurance</td>
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<td>RM</td>
<td>Republic of Macedonia</td>
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<tr>
<td>SE</td>
<td>Secondary education</td>
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<tr>
<td>SEC</td>
<td>State Examination Centre</td>
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<td>SEI</td>
<td>State Education Inspectorate</td>
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<tr>
<td>SEN</td>
<td>Special education needs</td>
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<tr>
<td>SSO</td>
<td>State Statistical Office</td>
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<tr>
<td>TVET</td>
<td>Technical vocational education and training</td>
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<tr>
<td>VET</td>
<td>Vocational education and training</td>
</tr>
<tr>
<td>VNFIL</td>
<td>Validation of non-formal and informal learning</td>
</tr>
<tr>
<td>ZELS</td>
<td>Association of Units of Local Self-government</td>
</tr>
</tbody>
</table>
The authors of the Strategy for Vocational Education and Training would like to use this opportunity to thank the institutions and individuals who took active part in the research carried out as part of this study and made an invaluable contribution to its formulation.

Special gratitude is due to Pance Kralev, Minister of Education and Science, and to Eduarda Castel Branco, ETF Country Manager and Coordinator of this Project, and Manfred Wallenborn, ETF expert. We extend special thanks also to Elena Ivanovska, Chairperson of the Stakeholder Steering Group, to the members of the Stakeholder Steering Group, and to Igor Nikoloski, Adviser to the Minister, and also to the Director of the Centre for Vocational Education and Training, Zeqir Zeqiri and the staff from the Centre, for their contribution in the coordination of and support to the process of development of the VET Strategy and Action Plan.

The Strategy would not have been so comprehensive and exhaustive, if not for the contribution of the staff from the VET Centre, the representatives of the ESARM and of the Chamber of Commerce of Macedonia. We would like to thank them for their efforts in data collection and facilitation of conditions for efficient field work.

We would like to acknowledge the immense efforts of the Expert Team Members Avzi Mustafa, PhD, Natasha Angeloska-Galevska, PhD, Elizabeta Tomeska-Ilievska, PhD, Elena Rizova, PhD, and Sonja Andonova, MA. Recognition is also due to Elena Misik, MA, for the successful coordination of the process and her expert contribution. We would like to extend our gratitude to the international experts, Bostjan Zgonc-Rozman, Elido Bandelj and Mirjana Kovac, MA.

Our gratitude goes to the Expert Team Leader, Zoran Velkovski, PhD, thanks to whom the Strategy comes to us in its present form.
EXECUTIVE SUMMARY

The Macedonian vocational education and training as a system has been under enormous pressure for modernisation in the last decades. In addition to economic and political globalisation, technological innovations brought about fast changes in the types of jobs and content of work in the national economy, with permanent changes in the demand for qualifications and new skills; the open market caused expansion of the opportunities for successful transition to work both on a national and on an international level, and the complexity of the demand for new skills at the labour market strongly determine the structure, organisation and content of vocational education and training.

The current system of vocational education and training in the country demonstrates both systemic and programmatic shortcomings. A huge number of persons without qualifications, problems in the relevance of syllabi and curricula, VET which is unattractive to youth and adults, poor collaboration between education institutions and the business sector, the need for new profiles and skills for continuation of education and/or successful transition to the labour market and euro-integration processes highlight the need for modernisation of the country’s VET.

This Strategy should help VET grow into a key agent in the development of the workforce, in the creation of an economy that uses its human capital better and becomes increasingly information and knowledge based, in strengthening individual and social productivity, in the economic development and growth of the country, in the improvement of the quality of life, in ensuring full social participation, in employment, in strengthening the employability and professional development of youth and adults and realisation of mobility on national and international level.

The Strategy and measures proposed therein should enable VET to strengthen its attractiveness, relevance and quality and be the driving force in promoting business success, competitiveness and innovations. VET should offer more diversified and flexible learning opportunities for youth and adults to acquire skills that are necessary for their career development and that stimulate entrepreneurial spirit, whilst fostering participation in further education and training, and contributing to active citizenship and personal fulfilment, as well as promote excellence and social inclusion, contribute to greater employability, mobility and job security, enhance anticipation and management of labour market changes and encourage business competitiveness.

The coming period should see measures and activities undertaken in four key areas which are expected to contribute to the realisation of the desired situation in vocational education and training, namely:

- strengthening the role of vocational education and training in achieving social cohesion in the country and preventing social exclusion of youth and adults which is due to lack of qualifications and skills for achieving participation in the labour force and improvement of quality of life in general;
- strengthening the attractiveness of vocational education and training through raising public awareness on the opportunities it offers, building diverse and flexible pathways for learning and professional guidance in a lifelong learning context, and development of key competences for lifelong learning;
- improving the quality of vocational education and training through establishing a system for quality assurance and application of a new pedagogy, and its relevance to the needs of the labour market, as a guarantee for competitiveness;
- strengthening and innovating the mechanisms for good governance, utilisation of resources, the capacities and accountability in the future VET system and the social dialogue.
1. BACKGROUND

The Strategy for Vocational Education and Training in a Lifelong Learning Context with the thereto annexed Action Plan is a result of a systematic analysis of the vocational education and training system, on the basis of which the future development of this education subsystem is defined. The Strategy aims at improving the performance of the existing VET system from the perspective of quality of delivery and educational outcomes, effectiveness and relevance for learners (young and adult), as well as for the labour market and further education.

Following negotiations between the VET Centre and ETF and in consultation with the Ministry of Education and Science, it was agreed in 2011 to develop a VET Strategy and Action Plan, based on a comprehensive collaborative research of the current VET system, including consultation with relevant stakeholders and interest groups. Coordination Group¹ was established to support and coordinate the process. Later, MoES launched the Stakeholder Steering Group², which met regularly to monitor the process and ensure its harmonisation with other actions of the Government of the Republic of Macedonia. The activities of the Stakeholder Steering Group contributed to strengthening ownership over the VET Strategy development process as well as to building capacity for the further enhancement of the VET system in the country.

The European Training Foundation supported the process of development of the VET Strategy and Action Plan in its entirety and provided funding for the work of the independent team of local experts, who carried out the activities leading to the final draft of the VET Strategy and Action Plan. These activities included a comprehensive and participatory consultation process across the country, involving all key stakeholders, relevant state bodies, donors, experts, social partners, and the business and VET communities.

The research phase encompassed analysis of relevant reform documentation, reports, analyses, previous evaluations, statistical data as well as data collected through field research carried out by the Expert Team. Special attention was given to international cooperation in VET and tendencies and practices in VET in Europe and the world. The Strategy provides an overview of the situation and analysis of critical points, and offers possible solutions for establishment of a sustainable and efficient system of vocational education and training in the Republic of Macedonia.

The Strategy is a product of collaborative research focused on perceptions of stakeholders on the situations in VET and its impact on the social, economic and education sphere in the country, including: VET teachers and students, VET school directors, university professors and students, professional associations, education authorities, non-governmental organisations, representatives of the business sector, representatives of local authorities, international institutions with vested interest in VET, and a number of other individuals directly or indirectly involved in VET or benefiting from its results. The research is primarily qualitative in nature and uses, in addition to the analysis of reform documentation and statistical data, data and information collected by way of interviews, questionnaires and focus groups (for details on the Methodology, see Annex 1).

1.1 WHY DO WE NEED A VET STRATEGY

In its efforts to resolve some of the problems of the country and to create a strong and functional, not only national but also European “architectures,” the VET system faces a most serious challenge in having to respond to questions such as: how should it be designed, what mechanisms should it have at its disposal, and which goals should it strive to achieve in order of the youth and adults for all changes and challenges they face and will face throughout their lives? Education today, unlike in the past, is required to achieve two basis goals: the first one is based on global values and supports the main developments characteristic of the contemporary globalised world, namely collaboration, compatibility, competitiveness, integration, etc., and the second one is based on the national culture and values and supports the resolution of national problems and development issues. It must do so with consistent respect for the principles of solidarity and social justice and through combining efficiency, adaptability and creativity.

Moreover, VET does not only contribute to individual development through educational achievement, but at the same time also to enhanced labour market opportunities for the learners and greater competitiveness of the economy. VET innovation and reform is addressed within this socio-economic context.

¹ The Coordination Group comprises representatives of the Expert Team and the advisers and Director of the VET Centre.
² Stakeholders represented on the Stakeholder Steering Group are MoES, MoLSP, MoE, VET Centre, AEC, BDE, SSD, ZELS, ESARM, Chamber of Commerce, as well the Expert Team Leader.
1.2 LIFE AND WORK EVOLVE

What will be the characteristics of education and training, which we can expect in the coming years but that is not yet visible to us all? The near future surrounds us with all its social and technological connections in the country and abroad. Quick, dynamic change is all around us and transforms the way we live, think, work and learn on a daily basis.

Processes of economic, political, educational, cultural and environmental globalisation confront us with the fast expansion of scientific achievements and innovations, dynamic progress of technics and technology and development of the economy, the business sector and organisational structures. The daily onrush of innovations with a shrinking shelf-life and time periods in between the emergence of technological innovations, their integration and uptake, their application and replacement by new technologies, makes them out-dated and obsolete faster than ever before, faster than the world expected. What we call evolution in technics and technology causes in fact a revolution in our everyday life and work. The one thing that is certain is that nothing is certain, permanent and easily predictable. We are constantly surrounded by various embodiments of changes and we must rise to the challenges.

We live in times of pronounced economic turbulence, accompanied by crises which are hard to predict. In 2012, the world faced serious employment challenges and a huge job deficit. The three years of continuous crisis on the global workforce markets generated increase in unemployment by 27 million at the beginning of the crisis, which, according to an ILO projection will in 2016 reach 206 million unemployed throughout the world.3

In 2011, 74,800,000 young people aged 15-24 were unemployed globally, which is an increase of over 4 million from 2007. The global unemployment rate of young people of 12.7% is a full percentage higher than its pre-crisis level. Globally, young people are almost three times more likely to be unemployed than adults. Black scenarios, in the context of current developments, forecast little hope for significant increase in employment opportunities for young people in the near future.4

Due to the interdependence of the economies of the European countries, the crisis caused a chain reaction which spared no country from unwanted consequences in all sectors. As is highlighted in “Europe 2020”, the economic crisis erased the stable values of economic growth and creation of jobs, which were a result of the efforts of European countries made in the last decade. EU GDP fell by 4% in 2009, whereas industrial production fell back to the level it had had in the nineteen-nineties. This triggered unemployment of 23 million people, or 10% of the active population in the countries of the European Union. Public finances suffered a heavy blow, with an average deficit of 7% of the GDP and debt levels of over 80% of the GDP. In simple terms, two years of crisis wiped out the fiscal consolidation of the last twenty years.5

It is widely acknowledged that present times are characterised by intellectualisation of the profession and of labour. In the past, the economy fought for competitiveness through mass production, cheap labour force, raw materials, energy, technology and later automation. The economy of today pursues its competitiveness through digital technology, knowledge and innovations. It is entrepreneurship oriented and thrives through alliance between businesses and strategic partnerships.

Information technology developments, especially in mobile technologies, made it possible for work to be less dependent on time and space. We are all witnessing dynamic changes in the structure, contents and processes of work. Work is today more complex from a cognitive aspect, necessitating team work and collaboration, and more dependent on social skills and technological competences. It is more mobile and less dependent on geography that in the past. Hence, there is a need of fast reforming of the workforce market in order for it to function better, and of devoting special attention to upgrading of skills.

Another trend is stirring commotion among the public and policy-makers throughout the world. The trend in question relates to the expansion of the workforce, which exerts additional pressure on education and training systems and job offers. Reports of the United Nations indicate that in the last decade, working age population has increased globally by about 600 million.6 At the same time, the number of those working in the informal sector is on the rise, in direct relation to the economic situation.7 This situation, despite declining birth-rates, is a result of raising the retirement age limit and increase in life expectancy.

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3 OECD (2009): Development Centre Studies Is Informal Normal?: Towards More and Better Jobs in Developing Countries
4 Ibid.
6 Ibid.
8 Ibid.
A similar trend is evident in our country. As can be seen from Table 1, the participation rate of the working age population (15-64 years) was 68.29% in 2002, increasing gradually each year to reach 71.10% in 2012.

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
<th>Working age population</th>
<th>Men</th>
<th>Women</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>2 059 794</td>
<td>1 464 629</td>
<td>742 418</td>
<td>722 210</td>
<td>71.10</td>
</tr>
<tr>
<td>2011</td>
<td>2 058 539</td>
<td>1 457 219</td>
<td>738 210</td>
<td>719 009</td>
<td>70.78</td>
</tr>
<tr>
<td>2010</td>
<td>2 055 004</td>
<td>1 447 957</td>
<td>733 393</td>
<td>714 564</td>
<td>70.46</td>
</tr>
<tr>
<td>2002</td>
<td>2 022 547</td>
<td>1 381 352</td>
<td>698 997</td>
<td>682 355</td>
<td>68.29</td>
</tr>
</tbody>
</table>

This trend should sound alarm in education and training. The older population will evidently participate at a higher rate in the workforce, which affirms the significance of adult education and the need to better integrate non-formal education into the overall educational system. On the other hand, problems arise also in the process of creating new jobs and employment, especially for adults who have lost their jobs or are returning to the labour market.

The new age requires resoluteness and perseverance. Changes in life and work present serious challenges we need to respond to adequately and timely. Instead of waiting for change to come upon us, we need to rise and undertake all actions necessary to ensure development of our economy and wellbeing for all. As stated in the foreword to the European Strategy 2020, “The crisis is a wake-up call, moment where we recognise that “business as usual” would consign us to a gradual decline, to the second rank of the new global order. This is Europe’s moment of truth. It is the time to be bold and ambitious.”

In such unpredictable future which is, the prosperity of our country must undoubtedly be pursued in a global competition of ideas, knowledge and skills. We must improve the skills of the people and adapt them to the specific demands of the new economy, and strengthen our capacities for research and development. These are the pillars on which our future should rest.

1.3 NEW AGE – NEW SKILLS

High unemployment, technical progress and globalisation, on one hand, and reorganisation of production processes and aging of the population, on the other, have significantly changed the demand for skills in the last decades. As a result of these long-term trends, according to Cedefop analyses, it is not certain that skills and qualifications acquired in the education system will be in able to meet current and emerging needs, which means that mismatch and gaps will possibly persist in the chain of skills supply and demand.

The transformation of knowledge about the work into skills for performing the work highlights the need for a workforce which not only possesses specialised knowledge, relevant for the jobs, but also possesses developed generic knowledge and skills necessary to adapt to new technologies and to change the reality in which it operates. Today, more than ever, it is of crucial importance for all citizens to receive high quality education and training to be equipped with key competences they need to be economically active and employable and improve life overall.

Consequently, each country should focus on continuous strengthening of the workforce with knowledge, skills and attitudes that cannot be acquired only through the formal education system.

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9 SSO, Labour Market, News Release – Active population in the Republic of Macedonia, Results from the Labour Force Survey, IV trimester 2012, 18.03.2013
11 SSO, Labour Market, News Release – Active population in the Republic of Macedonia, Results from the Labour Force Survey, IV trimester 2011, 18.03.2013
13 SSO, Census of the population, households and dwellings in the Republic of Macedonia, 2002
16 Competences are taken to signify the ability to apply learning outcomes adequately in a defined context (education, work, personal or professional development). The entire professional terminology used in VET is available in: Cedefop (2008): Terminology of European education and training policy, Luxembourg: Office for Official Publications of the European Communities, 2008
In order to overcome disparities between education supply and education demand, the European Commission launched in 2008 the initiative “New Skills for New Jobs.” The goal of this initiative was to improve anticipation of future skills needs, to develop better matching between available skills and labour market needs, and to bridge the gap between the worlds of labour and education. Anticipation and matching of the labour market and the skills needs has emerged as a top priority for the EU. To this end, the European Commission will support in the coming period the establishment of sectoral councils for skills on a European level for initiatives coming from social partners or appropriate observatories. In this context, many EU countries have established offices, councils or observatories tasked with anticipation and forecasting of skills that the labour market needs, through pooling the efforts of representatives of the labour market and of providers of educational and training services.

Ensuring the right mix of skills is another one of EU’s priorities. For this commitment to come to fruition, it is necessary for the education and training system to deliver the right combination of skills, including digital and transversal key competences, media literacy and communication in a foreign language. In the process, the system must ensure that young people graduating from secondary or higher education possess skills and competences necessary for making a speedy and successful transition towards employment.

The fight against early termination of schooling and low educational achievements in basic skills such as literacy, numeracy/mathematics and science, including of adults, is an essential element for inclusion, employment and growth. Continuing training must reach the benchmark of 15% of all adults participating in lifelong learning.

Adults with low education attainments are seven times less likely to continue their education and training than those with higher education attainments, thus missing out on opportunities for acquiring much needed new skills. This approach necessitates better collaboration between all stakeholders, especially labour market and education, and moving away from traditional approaches of appraising skills only through formal learning.

Special emphasis is increasingly devoted to enhancing entrepreneurial competences of youth and adults. Entrepreneurship is more and more seen as an agent of future development. “If Europe wants to stay competitive, it must invest in its people, in their skills, in their ability to adapt and in their ability to innovate. This means that we need to encourage a real change of mind-set in Europe towards entrepreneurial attitudes and this starts by instilling a spirit of entrepreneurship from early education onwards.”

Implementation of approaches based on competences and skills will bring comprehensive changes in the education system, the labour market, as well as in their interaction. Changes are expected in the operation of employment services, in skills assessment, design of profiles, in delivery of training, collaboration between education and training providers, work of career centres, etc. It is necessary to strengthen the collaboration between employment service agencies and centres for career/professional guidance, in order to ensure that clients (young people and adults) receive genuine information on the labour market and opportunities for further education and training.

It is important to ensure in the coming period that employers are encouraged to cooperate, invest and participate in education and training activities, especially in vocational education and training and higher education. Such a partnership should result in continuing development and innovation of educational profiles, implementation of multidisciplinary curricula and qualifications, and facilitation of work-based learning. To this end, activities must be undertaken that entail efficient implementation of legislative, institutional and funding arrangements for continuing TVET, and encouraging enterprises and individuals, through incentives, to invest in the development of skills, including validation of prior learning, and using appropriate approaches to lifelong career guidance and counselling.

Various analyses indicate that applied skills, such as reading comprehension and mathematics, outweigh basic knowledge on all educational levels; whilst they are still fundamental for the abilities of the new workforce to efficiently perform their respective tasks, employers emphasise that applied skills, such: foreign language command, knowledge on all educational levels; whilst they are still fundamental for the abilities of the new workforce to efficiently perform their respective tasks, employers emphasise that applied skills, such: foreign language command, knowledge on all educational levels; whilst they are still fundamental for the abilities of the new workforce to

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17 European Commission (2010): Agenda for new skills and jobs: EU sets out actions to boost employability and drive reform, Strasbourg, 23 November 2010
19 European Commission (2010): Agenda for new skills and jobs: EU sets out actions to boost employability and drive reform, Strasbourg, 23 November 2010
20 Council conclusions on the “Strategic Framework for European cooperation in education and training ET(2020)” (doc. 9845/09)
21 European Commission (2010): Agenda for new skills and jobs: EU sets out actions to boost employability and drive reform, Strasbourg, 23 November 2010
22 European Commission - Press release, Entrepreneurship education on the increase, Brussels, 13 April 2012
23 European Commission (2010): Agenda for new skills and jobs: EU sets out actions to boost employability and drive reform, Strasbourg, 23 November 2010
1.4 THE VET STRATEGY IN AN INTERNATIONAL CONTEXT

Latest pertinent European Union documents provide the framework in which the VET Strategy is designed and implemented. Special attention is given to the Copenhagen Process and the Bruges Communiqué, which outline general objectives for all European VET systems. As a signatory, the Republic of Macedonia needs to take due account thereof and ensure that its VET Strategy is in close harmony, esp. as regards the goals of the VET system. Given that the Republic of Macedonia is part of Europe and shares the problems in VET, the recommendations provided in EU documents and related trends underpinning VET reforms in EU countries, create the foundation on which solutions provided in this Strategy rest.

The VET Strategy in a LLL perspective is based on all national actors directly or indirectly linked to VET assuming responsibility for implementation of global policies governing this education segment. In this sense, the state needs to assume responsibility for the implementation of the goals, principles and recommendations enscribed in European and global documents focusing on development of education. Strategic approaches, priorities and recommendations contained in: “Education for All” (2000)26, the UN Millennium Development Goals (2000)27, the Lisbon Agenda (1997 and 2001)28, the Copenhagen Declaration (2002)29, the Memorandum on Life-long Learning (2000)30, the Maastricht Communiqué (2004)31, the Bordeaux Communiqué (2008)32, the Bruges Communiqué (2010)33, the European Commission’s “Education and Training – 2020”34 and the Bologna Process35 present a reference framework which presents goals which the state, and thus its education system, should pursue in the coming period.

The VET Strategy of the Republic of Macedonia emerges in an environment of intensive activities in this area in the broader European environment. Building on the fundamental goal of the Lisbon Strategy, “Europe to become the most competitive and dynamic knowledge-based economy in the world, capable of sustainable economic growth with more and better jobs and greater social cohesion”36, the members of the European Union developed a dynamic process of initiatives for reforming VET systems. The starting point was that “although national governments are responsible for education and training, some challenges are common to all member countries: aging societies, skills deficit among the workforce and global competition need common responses and for the countries to learn from each other.” The focus was placed, in the process, on lifelong learning which is to become reality throughout Europe and which is seen as key to growth and jobs as well as to opportunities for the individual’s full participation in social life.

The VET Strategy rests on the conclusions and recommendations of the Copenhagen declaration which underscores that “the transition towards a knowledge based economy capable of sustainable economic growth with more and better jobs and greater social cohesion brings new challenges to the development of human resources”37. In these efforts, “the development of high quality vocational education and training... notably in terms of promoting social inclusion, cohesion, mobility, employability and competitiveness” is key.38 The European Commission highlights the importance of strengthening management of institutions for education and training and developing effective systems for quality assurance. It similarly emphasises the significance of taking into account future skills requirements and labour market needs in education and training planning processes.39 The Lisbon goals, as stated in the Maastricht Communiqué, can be achieved through “strengthening the contribution of VET systems, institutions, enterprises

27 UNDP (2000), Millennium Development Goals (MDG) - United Nations Millennium Declaration, Millennium Summit in New York, 6-8 September
39 Ibid.
and social partners” through: use of common instruments, incentive effects of tax systems, greater participation of persons with diverse needs, partnerships for quality assurance, etc.”

The Bordeaux Communiqué recommendations (2008) placed into the spotlight initiatives for implementation of tools and schemes for promoting collaboration in the area of VET on a national and European level, the improvement of the quality and attractiveness of national VET systems and the links between VET and the labour market, as well as strengthening European collaboration arrangements.

The Ministers of Education of the member countries revised the future priorities for VET established in Copenhagen, by adopting the Bruges Communiqué and defining the goal to make by 2020 the European VET systems more attractive, relevant, career-oriented, innovative, accessible and flexible and excellent than in 2010.

The priorities emerging from the Copenhagen process are an inherent part of the EU fundamental strategy “Education and Training 2020”, where member states clearly present their vision for education and training in the year 2020, expressed through the commitments for:

- making lifelong learning and mobility a reality;
- improving the quality and efficiency of education and training;
- promoting equality, social cohesion and active citizenship;
- enhancing creativity and innovation, including entrepreneurship, at each level of education and training.

In this sense, one of the major priorities of each country, including the Republic of Macedonia, is the strengthening of the system of VET to respond to the challenges it faces by establishing a flexible organisational structure and developing mechanisms and instruments which will enable it to offer timely the skills demanded by the labour markets and life in general, and to contribute in the realisation of the benchmarks set in “Education and Training 2020” (see Box 1).
1. BACKGROUND

**BOX 1** EU EDUCATION AND TRAINING 2020 BENCHMARKS – STATUS: 21/03/2013

1. By 2020, at least 95% of children between four years old and the age for starting compulsory primary education should participate in early childhood education. Participation in early childhood education lies at 29.6% against the EU-27 average of 92.3%, pointing out that additional efforts need to be made to reach the EU level.

2. By 2020, the share of low-achieving 15-years-olds in reading, mathematics and science should be less than 15%. Through participating in PISA 2015, the country will be able to establish its achievement level against this benchmark.

3. By 2020, the share of early leavers from education and training should be less than 10%. Early school leaving with a remarkable improvement of 10.8 percentage points between 2006 and 2012 (from 22.8 to 12.0%), the country performs better than the EU-27 average (12.9%). The female indicator is slightly worse than the male.

4. By 2020, the share of 30-34 year olds with tertiary educational attainment should be at least 40%. In the period between 2006 and 2012, with an increase by 10.3 percentage points, the country reached 21% (against the EU-27 average of 35.5%, 2012). In line with trends elsewhere the female indicator is higher.

5. By 2020, an average of at least 15% of adults (25-64 years old) should participate in lifelong learning. Participation in adult learning lies at 3.3% against the EU average of 9.3%. The country registered an increase from 2.3% to 3.3% between 2005 and 2009 (outperforming many other Southeast European countries as well as Turkey). Data for 2011 show an increase to 3.4%.

6. At least 20% of higher education graduates and 6% of 18-24 years-olds with an initial VET qualification should have had a period of study abroad. The European Commission’s Education and Training Monitor 2012 specifies that graduate data are not yet available for many countries and it is not possible to indicate the level at which the benchmark currently lies. Looking at enrolment data, the country performs relatively well, with 6.6% (2010) of all higher education students enrolled in another EU member state, EEA or candidate country.

7. Share of employed graduates (20-34 year-olds) having left education and training no more than three years before the reference year should be at least 82%. In 2011, the total country employment rate (population 20-64) was 48.4% (and only 38.8% for females), which compares low to the EU-27 average of 75.2% (and 62.3% for females).

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47 http://epp.eurostat.ec.europa.eu/portal/page/portal/europe_2020_indicators/headline_indicators
49 European Commission. 2001 c, p. 35. European Commission. 2001 c, p. 35. Bulgaria: 1.4%; Croatia: 2.3%; Romania: 1.5%; Slovakia: 2.8%; Turkey: 2.3%. Data source: Eurostat LFS database, May 2010. This indicator refers to persons aged 25 to 64 who stated that they received education or training in the four weeks preceding the survey (numerator). The denominator consists of the total population of the same age group, excluding those who did not answer to the question ‘participation to education and training’. Both the numerator and the denominator come from the EU LFS. The information collected relates to all education or training regardless of relevance to the respondent’s current or possible future job.
50 SSO, Situation from 16.11.2012; According to the SSO, participation in LLL represents participation of persons aged 25-64 who take part in the process of education and training in the total population from the same age group.
2. VET SYSTEM – MAIN FEATURES, OPPORTUNITIES AND CHALLENGES

Today’s global economic crisis triggered and is expected to generate additional pressure on the country’s vocational education and training system. A great challenge for VET is expected to lie in the adaptability of those who lose their jobs in an environment of reduction of public and private funding, and the ability of VET to provide sufficient competences and aptitude for mobility in work and learning to those young people and adults who are or will be in the process of education and training. To what extent can VET fulfil its new role depends primarily on education policies, on the commitment and capacities of those implementing the best possible solutions and on the ability to efficiently utilise the resources and capacities available to the country.

In parallel to economic and political interventions and reforms, the country stands is faced with a challenge to improve the quality and efficiency of vocational education and training. It strives towards harmonising and adapting this system to the standards intrinsic for the EU member countries.

In the last two decades, a number of reform interventions and activities were carried out in VET in the Republic of Macedonia, with the following features:

- efforts to strengthen the legislative environment in VET;
- changes in the structure of vocational education and training, through:
  - increase of the duration of compulsory education through introduction of compulsory secondary education;
  - introduction of curricula with different durations and for different levels of qualifications;
  - establishment of adult education as an inherent element of the overall education system;
  - complementing the network of public education institutions with privately owned institutions;
- introduction of the State Matura and external assessment;
- first steps towards defining the National Qualifications Framework;
- enhancing (in 2012) the work of developing new standards of occupations, qualifications and revised syllabi for certain profiles mainly in 2-y. and 3-y. VET;
- commencement of decentralisation in management and governance and transfer of competences and responsibilities from the central to the local level;
- changes in the system of funding;
- certain improvements in the equipment and physical facilities in VET schools;
- attempts to strengthen social partnership through signature of concrete Memoranda between the ministries and professional bodies responsible for VET and chambers, as well between individual VET schools and companies;
- strengthening the institutional capacities for support to VET (establishment of VET Council and Centre, Adult Education Council and Centre, etc.);
- initiatives for modernisation of VET institutions;
- curriculum innovations (change of goals, introduction of new subjects, interdisciplinary approach, and adaptation of the curriculum to the needs of clients, etc.);
- training of teachers from VET schools;
- attempts to create inclusive schools;
- efforts for active involvement of stakeholders in development and decision-making processes;
- entry of private capital in vocational education and training;
- orientation towards efficient education policies.

Issues such as: How to develop an efficient curriculum which meets the needs of a wider group of clients (students, parents, employers, educational facilities, society in general, etc.)? What kind of initial education teachers need and how to position an efficient and dynamic system for professional in-service training of teachers? How is the school administration to be reorganised? What is the role of the education inspection? How are data to be collected on the work of schools and destinations of students upon graduation? How are relevant stakeholders to be involved not only in the work and decision making of schools, but also in the development of educational policies? How is high quality learning to be ensured? How is an efficient education dialogue to be established and who is to take part in it? How is efficient management of reforms to be set up? etc., still exhaust the attention of the expert community and competent institutions.
2.1 THE ENVIRONMENT IN WHICH VET OPERATES

Vocational education and training operates in an environment strongly affected by a number of factors that presents challenges for its change and improvement of its functioning.

The most pronounced problem the country faces is high unemployment. The official unemployment rate, according to the Workforce Survey (ILO definition), amounted in the third trimester of 2012 to 30.6%\(^{53}\) and is the highest in Europe.\(^{54}\)

In the third trimester of 2012, the activity rate was 56.3%, with an activity gender gap of 22.2%.\(^{55}\) The share of women in the total active population in the RM in the third trimester of 2012 is 38.9%, with men making up for the remaining 61.1. The activity rate of women is lower than that of men, primarily as a result of the traditional family role of women in society, especially among women of ethnic minorities, hence their employment rate is well below the employment rate of men of (47.4%) at 30.8%.\(^{56}\)

Unemployment is most pronounced among youth aged 15-24, with a rate as high as 52.1%.\(^{57}\)

Within the total number of unemployed, the dominant group are those with completed secondary education of four-year duration (42.00%) and those with lower education attainments\(^{58}\) (42.27%).\(^{59}\) Unemployment is especially high in urban areas (65.75%)\(^{60}\), which is understandable given the fact that the economic crisis and the transition impacted most strongly the large industrial capacities which had previously catered for the majority of the workforce. Persons with low skills have a higher participation rate in the group of unemployed (63.0%), and those with high skills a lower rate (37.0%).\(^{61}\)

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**TABLE 2** KEY INDICATORS ON THE LABOUR MARKET IN MACEDONIA\(^{54}\)

<table>
<thead>
<tr>
<th>Year</th>
<th>Working age population</th>
<th>Active population</th>
<th>Activity rate</th>
<th>Employment rate (15-64)</th>
<th>Unemployment rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Employed</td>
<td>Unemployed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2004</td>
<td>1 594 557</td>
<td>832 281</td>
<td>522 995</td>
<td>309 286</td>
<td>52.2</td>
</tr>
<tr>
<td>2005</td>
<td>1 607 997</td>
<td>869 187</td>
<td>545 253</td>
<td>323 934</td>
<td>54.1</td>
</tr>
<tr>
<td>2006</td>
<td>1 618 482</td>
<td>891 679</td>
<td>570 404</td>
<td>321 274</td>
<td>55.1</td>
</tr>
<tr>
<td>2007</td>
<td>1 628 635</td>
<td>907 138</td>
<td>590 234</td>
<td>316 905</td>
<td>55.7</td>
</tr>
<tr>
<td>2008</td>
<td>1 633 341</td>
<td>919 424</td>
<td>609 015</td>
<td>310 409</td>
<td>56.3</td>
</tr>
<tr>
<td>2009</td>
<td>1 638 869</td>
<td>928 775</td>
<td>629 901</td>
<td>298 873</td>
<td>56.7</td>
</tr>
<tr>
<td>2009/IV</td>
<td>1 642 360</td>
<td>921 534</td>
<td>622 720</td>
<td>298 814</td>
<td>56.1</td>
</tr>
<tr>
<td>2010/IV</td>
<td>1 652 026</td>
<td>954 928</td>
<td>659 557</td>
<td>296 371</td>
<td>57.8</td>
</tr>
<tr>
<td>2011/IV</td>
<td>1 659 180</td>
<td>937 326</td>
<td>639 340</td>
<td>297 986</td>
<td>56.5</td>
</tr>
<tr>
<td>2012/III</td>
<td>1 670 550</td>
<td>940 657</td>
<td>652 498</td>
<td>288 159</td>
<td>56.3</td>
</tr>
</tbody>
</table>

Source: SSO

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\(^{54}\) Ibid.

\(^{55}\) Ibid.

\(^{56}\) Ibid.

\(^{57}\) Ibid.

\(^{58}\) Ibid.

\(^{59}\) SSO: Labour Market, Active Population in the Republic of Macedonia, Results from the Labour Force Survey, III trimester 2012

\(^{60}\) Source: ESARM, Situation from 08.01.2010

\(^{61}\) Source: ESARM, Situation from 31.10.2012
In regard to length of unemployment, 82.6% of all unemployed are long-term unemployed; further 62.21% have been waiting for over 4 years. According to data from the end of 2009, this percentage is highest among persons with incomplete primary education (72.40%) and persons without education (61.16%).

In an environment of educational abstinence, fast outdating of knowledge and rapid dynamics of technological development, long-term unemployment becomes a serious problem. It results with out-dated competences and declining work abilities. The percentage of long-term unemployment is much higher than the average of the Central and Eastern Europe countries of 55.3% in 2002 and than the EU average of 40.2%. It is concerning that close to two thirds of the unemployed have been waiting for over four years. This is extremely detrimental to their working competence and employment chances.

In 2011, the country’s employment rate of persons with tertiary education, although the highest, dropped by 1.5% in comparison to 2010. The employment rate of persons with secondary education, which is regarded as the minimum level necessary for successful integration in society, was 58.3%, with the lowest employment rate of 34.3% found among persons with at most completed primary education.

The majority of those with a job (51.86%) are employed in the services sector, whereas 29.04% are employed in industry and 19.09% in the agriculture sector. Although precise data are not available, the general assumption prevails that a large portion of the registered unemployed are active in some form of economic activity in the so-called “grey economy”. Research of the Employment Services Agency of the RM reveals that a sizeable portion of the unemployed register only for the purpose of being eligible for social welfare.

In 2011, ESARM registered a total of 225 347 new employments – permanent and temporary and seasonal work. From the total number of newly employed, 38.20% are permanent employments, whereas the rest are temporary employments or seasonal hire. In comparison to the previous year, an increase of 3.07% in new employments can be noted.

Data on education attainment of the employed reveal that 24.50% have completed primary education at most; 12.36% are with three-year secondary education and further 42.17% of the employed have completed four-year secondary education; 20.96% of the employed hold a two or three-year post-secondary degree or a higher education degree. In comparison with 2009 and 2010, an increase is noticeable in the number of employed having completed four-year secondary education and of those with higher education degrees, at the expense of those employed with a lower educational attainment.

The development of small and medium enterprises, as well as the growth in the industry and services sector impacts to a small degree the increase of the employment rate, due to the slow economic development of the country and the poor financial potential of the population.

In recent time, the private sector has been offering the population limited opportunities for employment compounded with a sense of insecurity among the employed. Although the rate of persons employed in the private sector grew from 41.6% in 1999 to 74.96% in 2011, the private sector has failed to absorb the individuals who had lost their jobs as a consequence of the economic crisis and the transition.

Companies with 1-9 employees make up 78.51% of all registered companies. Companies without any employees (or companies that do not reveal the number of employees) make up for 14.24% of all companies, followed by companies with 10-19 employees with 3.29%, companies with 20-49 employees with 2.08%, companies with 50-249 employees with 1.6% and companies with over 250 employees with 0.27%. The majority of companies with 1-9 employees are concentrated in the trade, crafts and services sector.

A high number of rural inhabited places (of a total of 1728) are either fully depopulated (141) or have extremely low population numbers, and very soon, due to the age composition of their inhabitants are highly likely to become depopulated (465 settlements have under 50 inhabitants and additional 180 under 100 inhabitants). On the other hand, in a relatively small number of villages (dominantly situated in the western and north-eastern part of the country) the concentration of the population is very high.

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63 ESARM, Situation from 31.12.2009
64 SSO, Sustainable development, 2012, Skopje, 2012
65 Calculated according to: SSO, Labour Market, Labour Force Survey, 2010
66 ESARM: Review of registered applications for employment from the register and from outside the register for unemployed persons in the period 01.01.2010-31.12.2010 and 01.01.2011–31.12.2011
67 SSO, Labour market, Active population III trimester, 2012
68 Ibid.
69 SSO, Business entities (situation: 29.02.2011)
70 SSO, Macedonia in numbers 2011
In regard to population aging, in the period 2000-11, the share of the young population (0-14) in the total population decreased from 22.28% in 2000\(^{71}\) to 17.3 % in 2011\(^{72}\), whereas the share of the older population (65 and over) increased from 9.98% in 2000\(^{73}\) to 11.8% in 2011.\(^{74}\)

The education attainment of a significant portion (41.67%) of the population over 15 is low; 2.24% have no education at all, 8.01% did not complete primary education, and 31.41% completed only primary education.\(^{75}\) Of the remaining population, 9.42% completed three-year and 34.39% four-year secondary education, whereas only 2.47% two-year or three-year post-secondary and 12.05% higher education\(^{76}\). In the period between 2002 and 2011, the number of persons with low education attainment decreased by 8.23%, whereas the number of those with higher education increased by 5.02%. On the other hand, the participation of persons with higher education in the body of unemployed increased in the same period by 8.23%, whereas the participation of persons with lower educational attainment decreased by 11.05%.\(^{77}\) This trend clearly indicates that in the coming period, persons with high skills levels will put additional strain on the labour market and employment processes.

In regard to the participation of adults in the processes of lifelong learning, little progress has been made in the last period. In 2011, 3.4% of adults participated in forms of adult education.\(^{78}\) This is very low in comparison with the EU-27, which has an average of 8.9%. Certain EU countries have exceeded the 2020 benchmark of participation in lifelong learning of 15%, such as: Denmark (32.3%), Switzerland (29.9%), Sweden (25.0%) and many others, whereas some countries, such as Bulgaria (1.2%), Greece (2.4%), Hungary (2.7%) and Romania (1.6%), like Macedonia, need to invest significant efforts in reaching the said benchmark.\(^{79}\)

### 2.2 THE STRUCTURE OF THE VET SYSTEM

Every system for vocational education and training in the world comprises more or less organised or structured education levels and activities that aim to provide people with the knowledge, skills and competences necessary to perform a job or a set of jobs, whether or not they lead to a formal qualification. VET is independent of venue, age or other characteristics of participants and previous level of qualifications. Vocational education and training may be job-specific or directed at a broader range of occupations. The major importance of VET for individuals, enterprises and society is widely acknowledged, and is perceived as a key element of lifelong learning.\(^{80}\)

VET takes a variety of forms in different countries and also within a given country. It can be organised as prevocational training to prepare young people for transition to a VET programme at upper secondary level. Initial VET normally leads to a certificate at upper secondary level. It can be school-based, enterprise-based, or a combination of both (as in the dual system).\(^{81}\)

VET education and qualifications are acquired in the Republic of Macedonia through: vocational skilling (acquisition of low-level vocational skills)\(^{82}\), secondary vocational education with 3 or 4 year duration, post-secondary vocational education (specialist education and master exam) and higher vocational education (public and private higher vocational schools and vocational university study programmes which are not part of academic programmes).

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75 SSO, MAKStat Base: Working age population according to economic activity, gender and educational attainment, Situation from 04.12.2012

76 Ibid.

77 Ibid.

78 SSO (situation: from 16.11.2011); according to SSO, participation in LLL is the participation of persons aged 25-64 who partake in education and training processes, in the total population from the same age group.


81 Ibid.

82 This form of VET is realised through examination for low-level qualification (ISCED 3 level) carried out by the regional chambers of crafts or the chambers of commerce, respectively.
In the last two decades, the system of vocational education and training in the country has been subject to reform and under constant social and market pressure for further modernisation. The achievement of the goals set in the National Programme for Development of Education 2005-15 formed the framework of the following interventions in VET.

- **Legislation**: the law on VET was adopted; compulsory secondary education was introduced.
- **Policies**: the concept for State Matura, School Matura and Final Exam was adopted and introduced in secondary VET; Concept for vocational skilling with two-year duration, Concept for secondary vocational education for occupation (three-year VET) and Concept for post-secondary education were adopted.
Institutional strengthening: VET Centre and VET Council and Adult Education Centre and Adult Education Council were established; training and exams of candidates for directors of secondary schools.

Programmatic: Part of curricula and syllabi for educational profiles in TVET were revised; allotment of practical training in TVET was increased to up to 20%; occupational areas in technical education were redefined and decreased (from 24 to 14) and also educational profiles (from 64 to 45), as a continuation of the PHARE reforms; Methodology for standards of occupations was developed, as well as 30 standards of occupations for four-year and 51 standards of occupations for three-year and two-year secondary VET; Methodology for development of curricula was developed; standards for practical training of students at employers were developed.

System: Innovation of curricula for three-year and two-year VET is underway. The new Methodology for development of standards of occupations developed in 2009 was the basis for the standards of occupations for 13 occupational areas and is a novelty in secondary VET. Unlike the approach pursued in the past, it applies a competence based approach through a dynamic process of social dialogue with active participation of a large number of key partners on a national level and special focus on the needs of the labour market in coming years. This approach is in tune with the efforts of the country for practicing the standards common to the European Union and for modernisation of secondary VET.

2.2.1 VOCATIONAL SKILLING

The lowest level of vocational education is vocational skilling (VS), aimed at adults and providing low levels of qualifications or training for a job. Most often, beneficiaries of this education offer are persons without qualifications. In the course of 2011, 163 persons took part in this VET form, or 0.29% of all VET users for the given year.

2.2.2 SECONDARY VOCATIONAL EDUCATION

The basic platform on which the country’s VET system is built is secondary vocational education of four-year duration (TVET) and three-year duration (three-year VET), whereas two-year VET is being currently developed following the new VET Concept.

Secondary education is carried out in 99 public (10 state schools, 21 schools of the City of Skopje, and 68 municipal schools) and 13 private schools.

According to the type of secondary education and curricula delivered in the public schools, 16 are general education schools and 40 vocational schools, whereas 34 schools offer both general and vocational education; 4 are vocational schools for students with special education needs and 5 are art schools.

The number of secondary vocational schools by occupational areas is as follows: agriculture-veterinary 11, forestry-wood processing 8, geology-mining and metallurgy 7, machine engineering 25, electro-technical 20, chemistry-technology 15, textile-leather fabrication 17, graphic 4, personal services 9, construction-geodetics 8, traffic 11, catering-tourism 12, economy-law and trade 17, medical 16, sports general school 3, and art education 6.

Some 13 private secondary school operate in the Republic of Macedonia, of which 6 schools offer vocational education (in the economy-law and trade, medical, personal services, traffic and catering-tourism occupational areas).

The low educational attainment of part of the country’s population and the large number of students leaving or not continuing their education after the compulsory primary education were the reason for the Government of Macedonia to extend in 2006 the duration of compulsory education into secondary education.

2.2.3 POST-SECONDARY VOCATIONAL EDUCATION

The Law on VET establishes two forms of post-secondary VET, namely the Master Exam and Specialisation. The Master Exam (for which training takes 2 years) allows the successful candidate to act as trainer of students in the formal VET system. However, the Master Exam mechanism has for some years been inactive and is used less and less as a way of upgrading education. Specialisation (which takes one year) enables candidates to enhance vocational knowledge and acquire sets of operational skills. This kind of education has been plagued by weaknesses for a number of years and is carried according to curricula developed in 1989. Most frequent motivation for uptake of this form of post-secondary education is the possibility for promotion or for new employment on a better job.

See: VET Centre (2012): Results from the Twinning project “Support to the modernisation of the education and training system.”

According to: Public call for enrolment of students in public secondary schools for the school year 2012/2013 in the Republic of Macedonia, MoES.

Ibid.

Ibid.

Number of schools indicating where respective occupational areas/capacities are taught; one school can offer training in several occupation areas.

SSO, Primary and secondary schools at the beginning of the school year 2011/12, 2.4.12.04/718.
In 2011, 449 persons (45 women) completed specialisation.\(^9\) Data on Master Exam are not readily available, but the consultation process revealed that after the revision of the relevant procedures in 2010, no Master Exam has been organised.

### 2.2.4 HIGHER VOCATIONAL EDUCATION

The Law on Higher Education provides for the existence of universities and higher vocational schools.\(^9\) Higher vocational educational schools (Високи стручни школи) are either independent private higher vocational schools or public higher vocational schools which are organisational units of existing universities. The small number of higher vocational schools does not provide sufficient opportunities for greater participation of youth in higher vocational education; 2102 persons enrolled in higher vocational school in the academic year 2010/11, of whom 1 853 in public higher vocational schools and 249 in private higher vocational schools, or 3.32% of the total number of students in higher education.\(^9\)

In parallel to higher vocational schools, there are also a number of vocational study programmes which are offered as part of university study programmes and are with three-year duration as opposed to the academic programmes of four-year duration. There is no clear picture on the number of students attending higher vocational education within respective faculties. In its endeavours to make vocational education and training more accessible to young people, the state has increased the enrolment quota for higher vocational study programmes. According to the number of enrolment places in the first study cycle 2011/12, vocational study programmes of three-year duration represented 5.01% of the total number of available enrolment places at the public universities.\(^9\)

Shorter forms of vocational education and training on a higher education level do not exist. Most often the vocational study programmes in higher education provide a higher vocational qualification and are aimed at transition to the labour market.

The system of vocational education and training is evidently poor in its offer. A huge gap exists in the space between secondary vocational education and higher vocational education, both in regard to institutions and to users/students. Master exam and specialisation, as only representatives in this area, with all their shortcomings are only a mere reflection of a system for post-secondary vocational education and training.

It is also evident that post-secondary VET has not yet established itself in higher education. Although higher vocational schools exist, independent or as part of universities, they are regulated by the Law on Higher Education, which makes no clear distinction between vocational and academic institutions and programmes. The same is true of vocational studies with three-year duration within universities. The implementation of the recommendations of the Bologna process has not managed to make a clear distinction between academic and vocational programmes. In the process of their reform, universities put the main focus on academic programmes, whereas the vocational often lack clear direction and are less numerous than in the past. Given the increasing demands for employment of workers who possess higher skills and qualifications, the development of a system of post-secondary and higher vocational education emerges as one of future priorities.

### 2.3 PROGRESSION AND TRANSITION

In regard to vertical mobility/transition, VET users are given the opportunity to progress vertically (from lower into higher education level) after meeting specific preconditions, i.e. taking equalising exams. For example, students who have completed three-year VET may continue their education, after passing equalising exams, and acquire a technical qualification and take the State Matura or Final Exam, which entitles them to apply for enrolment at a university. The same applies to higher education, with the difference that progression is carried out through recognition of credits. Graduates from first cycle of vocational studies (three years) can progress to second cycle of studies – one-year vocational specialist studies. They are also entitled to transitioning into academic study programmes, after taking equalising exams.

Horizontal mobility in secondary education is problematic; there are lack of mechanisms for facilitating the process. Thus, a large number of students have no opportunities for transitioning from vocational into general education, and vice versa. Secondary education syllabi have not been modularised and their design does not take into account credits. This is a great obstacle for those students wishing to change their type of education. A lot of time and resources are wasted and knowledge gained through prior learning remains invalidated.

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89. SSO, News release, 2012
90. It needs to be mentioned that higher vocational schools and higher vocational programmes in higher education, although aimed at the labour market, are not treated in the legislation as part of the VET system.
91. SSO, News release, 2012
92. Government of the Republic of Macedonia, Decision on number of students to be enrolled in year 1 at the public higher education institutions, 2011/12, 1.03.2011
Horizontal mobility in higher education follows recognition of credits. Unlike secondary education, the process of transitioning is more transparent and more dynamic, in both national and international context.

Transition from secondary into higher education remained until 2006 at 46%, only to increase in 2009 to 85% (according to the News release of the Ministry of Education and Science from 29 July 2009), reaching, according to latest information over 90% in 2012. This increase is due to national policies within which comprehensive action was undertaken to increase the number of higher education institutions in the country. This same period saw the establishment of a large number of private universities and higher vocational schools. The expansion of the network of higher education institutions and the GoM/MoES measures to decrease the private costs of studying, i.e. the tuition fees, are the main reasons for the improvement of the transition rate of secondary school graduates into higher education.

Modularisation is a relative novelty in our country. Higher education embarked on curricular reform in this direction by modularising its study programmes and introducing ECTS. Nevertheless, 10 years down the line, problems in the correct implementation of the Bologna recommendations still persist. There are still study programmes that are not designed according to student workload and the characteristics of the final qualification, and are not based on learning outcomes.

### 2.4 ATTRACTIVENESS OF VET

To what degree is the VET system attractive to youth and adults? Table 3 shows that the highest concentration of persons participating in the system for vocational education and training is in secondary vocational education of four-year duration (85.85%), whereas secondary vocational education of three-year duration reveals a declining trend of enrolment. In comparison with 2007 when 7052 students attended this type of education, their number in 2011 dropped by 28.27% to 5058 students. At post-secondary VET level, specialisation shows small coverage, with no participation whatsoever in the master exam in 2011.

<table>
<thead>
<tr>
<th>Level</th>
<th>Type of VET</th>
<th>Number of students</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary vocational education</td>
<td>Vocational skilling</td>
<td>163</td>
<td>0.29</td>
</tr>
<tr>
<td></td>
<td>3-year secondary VET</td>
<td>5,058</td>
<td>8.88</td>
</tr>
<tr>
<td></td>
<td>4-year secondary VET</td>
<td>48,882</td>
<td>85.85</td>
</tr>
<tr>
<td></td>
<td>Special secondary schools</td>
<td>287</td>
<td>0.50</td>
</tr>
<tr>
<td>Post-secondary vocational education</td>
<td>Specialisation</td>
<td>449</td>
<td>0.79</td>
</tr>
<tr>
<td></td>
<td>Master exam</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Higher vocational education</td>
<td>Higher vocational schools</td>
<td>2,102</td>
<td>3.69</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>56,941</td>
<td>100.00</td>
</tr>
</tbody>
</table>

The overview of the number of students in higher vocational education presents data only on students in public and private higher vocational schools. In 2011 public vocational schools were attended by 1853 students and private higher vocational schools by 249 students. As no clear picture is available on the number of students in university vocational programmes of three-year duration, they are not presented.

This overview allows for a conclusion that post-secondary vocational education does not provide the desired service. Both forms comprising this sub-system have shortcomings and are evidently not sufficiently attractive for youth and adults.

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93 ETF (2010) : Collaborative Evaluation of the Impact of Reformed 4-year VET, Skopje
94 SSO, Primary and secondary schools at the end of the school year 2006/07, Statistical Review No 2.4.8.03, Skopje, June 2008
95 SSO, Primary and secondary schools at the end of the school year 2010/11, Statistical Review No 2.4.12.06/720, Skopje, June 2012
96 The part on higher vocational education lacks students enrolled in vocational study programmes at universities who are not among the students of the vocational higher schools.
The ratio of students in vocational as opposed to general education in 2001 was 70% to 30% in favour of vocational education. In the meantime, the interest in, and hence the offer of, general education has increased, changing the ratio. Today, this ratio is only 58.39% to 40.45% in favour of vocational education.

From the data presented, one might get a false impression of the interest of students for learning and for the selection of their secondary education destination. There has been an evident trend for increasing the interest and pressure of students for enrolling into secondary general schools in the last decade. However, due to the limited enrolment quota in general education schools, those students failing to enrol, most often due to poorer achievements in primary education, as a rule enrol into secondary vocational schools. Given that the network of secondary schools is predominantly intended for vocational education, a remnant from the past, the public capacities are limited to 1390 general education classes and 2047 vocational education classes. If possibilities existed for greater enrolment quota in general education, it would be logical to assume that the ratio between general and vocational education would turn in favour of the former.

Is vocational education an attractive destination for young people? The answer is unfortunately no. With few exceptions, namely the medical and economy/law occupational areas, the other areas are less attractive. This has consequences for VET programmes of shorter duration (2 or 3 years). The low value attributed on the labour market to these qualifications contributes to the practice for young people to enrol in technical programmes with the intention to continue their education. A strong economy can make lower level qualifications attractive, but a weak one has an adverse effect on their attractiveness for enrolment.

One more feature additionally distorts the impression about the interest of youth in vocational education. Youth in some smaller towns do not have the opportunity to choose between general and vocational education or to choose a vocational school according to their propensity or interest, because in that location only one type of vocational school exists. They always have the option to travel to or reside in another town where there is a secondary school in line with their interests. However, given the declining finances available to families, the majority of these young people opt for using the services of the schools that operate in their hometowns, although they do not offer areas or profiles they are truly interested in. This has negative effects on the transition of graduates into higher education. Most often, these graduates opt for study programmes that are not in continuation of their secondary vocational education, but reflect their true interest. Statements by university students and unemployed, offered during the research, only confirmed this conclusion. Despite the positive measures undertaken to remedy this situation, such as free transportation, free textbooks, housing in student dormitories, scholarships, etc., it still affects the selection process. Thus, the issue of the nature of secondary schools in smaller town and of the curricula that attract small number of students is brought to the forefront of the debate.

In the period between 1998 and 2011, the number of schools increased, whereas the number of students remained stable, with slight fluctuations. The ratio between male and female students shows equitable representation of female students of 45-48% throughout the entire period. In parallel to the expansion of the network of schools, there has been increase in the number of teaching staff.

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**TABLE 4 STUDENTS IN SECONDARY EDUCATION ACCORDING TO THE TYPE OF EDUCATION**

<table>
<thead>
<tr>
<th>Type of education</th>
<th>2007/08</th>
<th>2008/09</th>
<th>2009/10</th>
<th>2010/11</th>
<th>2011/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary education – total</td>
<td>94 545</td>
<td>93 843</td>
<td>95 343</td>
<td>94 155</td>
<td>93 064</td>
</tr>
<tr>
<td>General education</td>
<td>38 214</td>
<td>38 373</td>
<td>38 527</td>
<td>38 013</td>
<td>37 646</td>
</tr>
<tr>
<td>Art education</td>
<td>854</td>
<td>1 015</td>
<td>1 221</td>
<td>1 071</td>
<td>1 080</td>
</tr>
<tr>
<td>Vocational education</td>
<td>55 477</td>
<td>54 455</td>
<td>55 595</td>
<td>55 071</td>
<td>54 338</td>
</tr>
<tr>
<td>VET students as % of total</td>
<td>58.7</td>
<td>58.0</td>
<td>58.3</td>
<td>58.49</td>
<td>58.39</td>
</tr>
</tbody>
</table>

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97 SSO, News release: Population and social statistics, 2.4.12.04/718
98 SSO, Primary and secondary schools at the beginning of the school year (for 2008, 2009 and 2010)
99 Ibid., 2009.
100 Ibid., 2010.
101 SSO, News release: Population and social statistics, 2.4.11.04/683
102 SSO, News release: Population and social statistics, 2.4.12.04/718
103 SSO, Primary and secondary schools at the beginning of the school year 2011/2012, News release 2.4.12.04/718
### TABLE 5 REGULAR SECONDARY SCHOOLS, CLASSES, STUDENTS AND TEACHERS

<table>
<thead>
<tr>
<th></th>
<th>Schools</th>
<th>Classes</th>
<th>Students</th>
<th>Total</th>
<th>Female</th>
<th>Female</th>
<th>Graduates</th>
<th>Total</th>
<th>Female</th>
<th>Total</th>
<th>Female</th>
<th>Teachers</th>
<th>Total</th>
<th>Female</th>
<th>Full-time</th>
<th>Total</th>
<th>Female</th>
<th>Part-time</th>
<th>Total</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998/99</td>
<td>96</td>
<td>2 902</td>
<td>89 775</td>
<td>43 653</td>
<td>21 510</td>
<td>5 557</td>
<td>3 012</td>
<td>4 891</td>
<td>2 716</td>
<td>972</td>
<td>562</td>
<td>3 553</td>
<td>3 553</td>
<td>3 553</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2003/04</td>
<td>96</td>
<td>3 032</td>
<td>93 791</td>
<td>44 887</td>
<td>23 621</td>
<td>11 341</td>
<td>5 863</td>
<td>3 278</td>
<td>4 891</td>
<td>2 716</td>
<td>972</td>
<td>5 553</td>
<td>3 360</td>
<td>2 292</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2004/05</td>
<td>100</td>
<td>3 134</td>
<td>94 053</td>
<td>44 701</td>
<td>24 225</td>
<td>11 312</td>
<td>5 946</td>
<td>3 375</td>
<td>5 107</td>
<td>2 875</td>
<td>839</td>
<td>5 913</td>
<td>3 742</td>
<td>2 171</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2005/06</td>
<td>101</td>
<td>3 184</td>
<td>93 908</td>
<td>44 530</td>
<td>25 588</td>
<td>11 763</td>
<td>6 136</td>
<td>3 432</td>
<td>5 277</td>
<td>2 930</td>
<td>869</td>
<td>5 992</td>
<td>3 902</td>
<td>2 090</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2006/07</td>
<td>104</td>
<td>3 219</td>
<td>93 763</td>
<td>44 334</td>
<td>25 629</td>
<td>11 794</td>
<td>6 280</td>
<td>3 541</td>
<td>5 311</td>
<td>2 961</td>
<td>969</td>
<td>5 954</td>
<td>3 793</td>
<td>2 161</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2007/08</td>
<td>107</td>
<td>3 237</td>
<td>92 753</td>
<td>44 387</td>
<td>24 700</td>
<td>11 463</td>
<td>6 438</td>
<td>3 714</td>
<td>5 529</td>
<td>3 149</td>
<td>909</td>
<td>5 978</td>
<td>3 902</td>
<td>2 076</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2008/09</td>
<td>110</td>
<td>3 295</td>
<td>93 164</td>
<td>44 643</td>
<td>24 210</td>
<td>11 543</td>
<td>6 832</td>
<td>3 953</td>
<td>5 810</td>
<td>3 342</td>
<td>1 022</td>
<td>5 915</td>
<td>3 852</td>
<td>1 063</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009/10</td>
<td>111</td>
<td>3 372</td>
<td>95 343</td>
<td>45 820</td>
<td>25 345</td>
<td>11 941</td>
<td>7 008</td>
<td>4 041</td>
<td>6 001</td>
<td>3 404</td>
<td>1 007</td>
<td>5 994</td>
<td>3 947</td>
<td>1 047</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010/11</td>
<td>114</td>
<td>3 441</td>
<td>92 848</td>
<td>44 773</td>
<td>24 846</td>
<td>11 613</td>
<td>7 197</td>
<td>4 225</td>
<td>6 113</td>
<td>3 574</td>
<td>1 084</td>
<td>5 999</td>
<td>3 955</td>
<td>1 044</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


### CHART 2 STUDENTS IN SECONDARY VOCATIONAL SCHOOLS ACCORDING TO OCCUPATIONAL AREAS AND PERIOD

![Chart showing distribution of students across different vocational areas in 2001 and 2011]
Data indicate that occupational areas which cater for highest numbers of students are the medical, economy-law and trade, electro-technical and machine engineering occupational areas. This does not necessarily mean that these are more attractive than other occupational areas. This may also be due to the available capacities for delivery of education and training in a respective occupational area. Within the school network, the occupational area with the highest representation and the one offering most enrolment places is machine engineering. However, the most pronounced decline in interest for enrolment is noted precisely in the machine engineering occupational area. Interest is also evidently declining in agriculture-veterinary, geology-mining and metallurgy, graphic, chemistry-technology, construction-geodetics and partly electro-technical occupational areas, whereas there is slight increase in personal services, traffic and forestry-wood processing. Restructuring the network of facilities in VET is a complex process and may bring about negative effects in VET schools due to possible loss of jobs, need for requalification, recruitment of new staff, new equipment, additional funding, etc. Herein lies the reason why it has not yet been tackled. However, the evident disparity between offer and interest and between offer and uptake merits further analysis of the entire school network in regard to the questions to what extent does it reflect the interests and needs of young people and the economy, and to the question of its cost-effectiveness. The advantages that this process might bring by far outweigh possible negative effects.

The decision to make secondary education compulsory for all children, starting from 2008, has had positive effects not only on progression rates from primary into secondary education, which improved significantly to 95% in 2011, but also on the decrease of the drop-out rate in secondary education. Data from 2010/2011 reveal that 1496 (1.61%) secondary school students discontinued their education, which in a four-year schooling cycle amount to 4-5% on a multi-cohort level. This decline in early leaving was expected, given that the amendments to the Law on Secondary Education provide for fines for parents who do not send their children to secondary education, and also given the positive measures for support to groups at risk (free transportation, scholarships, free textbooks, etc.).

Despite of the efforts made to decrease the number of students who discontinue their education, including improvement of infrastructural facilities, provision of free textbooks and scholarships and conditional cash transfers to vulnerable students and families, incomplete coverage and drop-out, although at a lower rate, still continue to plague the country’s VET system.

### 2.5 LEGISLATION

Although certain changes in the legislative framework were made recently, some of the old shortcomings are still present today. The majority of changes focused on systemic issues; we can single out the following as most significant developments: the establishment of professional institutions for support to education such as the VET Centre, the State Examination Centre and the Adult Education Centre, which came out of the Pedagogical Institute of Macedonia; the operation of the Bureau for Development of Education (formerly Pedagogical Institute) is regulated through separate law, for the first time separate Laws on VET and on Adult Education were adopted, State Matura was introduced in secondary education, the duration of compulsory education was firstly extended to nine years (from eight) and later with the proclamation of secondary education as compulsory in 2007 to even 13 years; external assessment as a form of assessment of quality in primary and secondary education was introduced, a new Law on Higher Education was adopted in line with the Bologna recommendations, etc. However, despite the great number of successful interventions, specific issues in the area of education remain unregulated or inappropriately regulated.

The Law on VET leaves many gaps and needs to be revised. In this form, it resembles a Law on the VET Centre, rather than a law regulating VET, than a law on vocational education and training. The competences of different VET relevant bodies and institutions are regulated in different other laws, which leaves ample room for inconsistencies in regard to their functioning. Its relation to the Law on Secondary Education and Law on Adult Education is inconsistent and incomplete.

A review of the legislation reveals partial inconsistency and overlap of competences of different bodies and institutions operating in this sector. Most often, legislative amendments and supplements were not accompanied by timely revision of by-laws, especially those regulating competences on national, local and school level, creating contradictions and inconsistencies in the implementation of legal provisions and slow implementation of interventions. A most obvious example of this lack of harmonisation lies in the detailing of the competences of the VET Centre, BDE, AEC and SEI.

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105 SSO, Primary and secondary schools at the end of the school year 2010/11, Skopje, June 2012
106 Students who drop-out are those students who have deregistered officially, i.e. have withdrawn their documents in the course of the respective school year.
The VET Centre, as the most important body in VET is not clearly hierarchically positioned and defined. It still lacks financial and institutional autonomy and is weak in regard to its physical and staffing capacities. This situation is highly detrimental for the planning and implementation of its activities and fulfilment of its responsibilities.

2.6 CHALLENGES

2.6.1 NEED FOR NEW SKILLS

The labour market in the Republic of Macedonia is only beginning to demand higher skills and education. According to the ESARM Skills Need Analysis on the Labour Market for 2011/12, the majority of new employments expected in the next 12 months, according to the level of required knowledge (education), will require persons with completed secondary education (67.3%), predominantly in processing, trade, transportation and construction; persons with completed primary education (15.7%), primarily in the processing industry, agriculture, hunting and forestry and construction. Small demand exists for persons with higher education (9.9%), primarily in the processing industry, in professional, scientific and technical activities, trade and finance and insurance.

The same analysis reveals that employers highlight the need for command of foreign languages (English, German, Italian), familiarity with basic computer applications, as well as advanced knowledge and skills in IT, communication skills, ambition, responsibility, confidentiality, precision, tram work, data entering and reading skills, flexibility, sales, marketing and management skills.

The research carried out in 2012 for the needs of this Strategy, set out, among other things, to refresh the information on required skills desirable for work and employment by the country’s business sector. In one of the research instruments, the business community was provided with a list of 32 desirable qualities, and was asked to assess them for priority in the company’s respective work and recruitment processes. Results reveal that in our economy, the diploma still strongly impacts the processes of employment and work. Close to 96% of employers believe that the candidate for employment/the worker must possess a diploma for appropriate education.

It is evident that the business sector in our country still puts its faith in certificated qualifications and expects the formal system of education and training to bridge the gap between supply and demand of skills. Opportunities for implementation of mechanisms for validation of skills acquired outside of the formal system have still not found their rightful place.

In addition, the business sector puts higher values on the fundamental (for the occupation area) and the specific (for the respective occupation) vocational competences. Small and medium enterprises list the following qualities as having dominant priority for them: possession of driving license, problem solving abilities, good communication abilities, foreign language command, professional attitude towards work, ability to work under pressure, ability to detect errors, ability to take criticism and learn from it. The other qualities are ranked in the category “least needed”. Unlike them, the large companies strongly emphasise the need for candidates/workers to demonstrate confidence, teamwork abilities and adaptability.

Qualities such as: mathematical skills, entrepreneurial skills, broad general culture, leadership skills and IT knowledge and skills, are assessed as having a very low priority. This is only seemingly surprising, as we need to keep in mind the features of the sample covered in the research, as well as the general picture of the country’s economy. The companies in question are mainly small and medium sized companies, representative of companies with small and medium-sized companies which make up for over 90% of the total number of companies in the country. As a rule they have a small number of staff and are engaged in production or services.

On the other hand, we need to keep in mind that the bulk of the country’s production (measured as gross output at basic prices) is based on low technology content (45%), 43% is medium technology production and only 1% falls in the category of high technology production. In such an environment, when domination of high technology production, which most often assumes application of IT and sophisticated technology is absent, the position of mathematical, entrepreneurial and IT skills should hardly surprise us. However, this does not diminish the necessity of developing these competences/skills, because there is only one path for the development of the country’s economy – high technology production. Therefore, education and training, by its nature focused on the future and preparing individuals for the future, will have to ensure the development of these desired competences.

110 Survey carried out in 2011, based on a sample of 2996 business entities (companies).
111 The representative sample included 110 small, medium and large companies covered by the research in 6 locations with different techniques and instruments.
In addition to skills needed for successful transition to work, it is extremely important to also develop skills for continuation of education. The analysis demonstrated that graduates continuing to university lack a number of skills necessary for successful continuation of their education. In the opinion of university professors, they have not developed and/or acquired sufficiently time management abilities, leadership skills, strong work ethics, abilities to accept criticism and learn from it, research abilities, problem solving skills, logical thinking abilities, error recognition skills, ability to work under pressure, general broad culture, independence, presentation skills, professional ethics and ability to handle stressful situations. Half of the surveyed professors also stated that VET graduates completely lack above all entrepreneurship skills. Their interpersonal skills, communication skills, mathematical abilities and foreign language command were also assessed as missing.

Although the satisfaction percentages given are not very high, tertiary education is satisfied with the following skills and qualities of graduates: self-confidence (61.5%), team work abilities (53.8%), IT knowledge and skills (53.8%), obedience (46.2%) and positive attitude (46.2%).

The results point to the shortcomings of secondary vocational education in the satisfactory imparting of skills and qualities necessary for successful continuation of education. In an environment where higher education is the dominant destination for secondary school graduates, there is a clear need for improving and strengthening the students’ acquisition of skills/qualities they require.

The Strategy needs to highlight this fact and recommend measures for overcoming the gap between skills supply and demand, i.e. between the three types of skills: certificated (skills represented by the certificate/diploma), personal (skills that the person actually possesses) and market (skills demanded by the labour market).

2.6.2 COLLABORATION WITH THE BUSINESS SECTOR

The collaboration with the business sector and the realisation of practical teaching are the most challenging aspects of VET. This question must receive fullest attention in future. The problems and obstacles are diverse: business sector partners are difficult to find, the dynamics of realisation of practical training is difficult to plan, resources (consumables and materials) for effective carrying out of practical teaching in the schools are scarce, the equipment and technology students use in the process of practical teaching in schools is out-dated and obsolete and differs greatly from the one used in companies, the motivation of companies for enhanced collaboration with schools is poor, etc.

The collaboration between educational institutions and the business sector on policy and regulatory levels has been yielding results recently. However, it is unfortunate that a number of provisions focusing on this topic contained in the regulations have not been fully operationalized, thus limiting their applicability in the practice. For example, the VET Centre has signed a number of Memoranda for collaboration with VET stakeholders, but this initiative has not resulted in anything concrete yet. The Law on vocational education provides in Article 11 for the possibility for the Chambers to submit proposals to the VET Centre for innovation of VET syllabi and curricula and proposals for design of new standards of occupations. This possibility is not used in practice. Article 15 of the same law entitles employers to use incentives (financial, tax and customs benefits) if they take part in the realisation of practical training of VET students. This option has also not been used due to the lack of defined mechanisms for its implementation.

The education and the business sectors achieve more dynamic and strategic collaboration in higher education. Motivated by the legal obligations and needs for new skills for the new jobs, universities are investing enhanced efforts in the intensification of the collaboration with the business community. This includes development of mechanisms to bring students closer to the world of labour and improve their employability. The efforts for a systemic approach have been yielding effects lately through the conclusion of agreements between universities, chambers of commerce and the business sector.

2.6.3 PRACTICAL TEACHING AND TRAINING

Vocational education and training consists of general education, vocational-theoretic education, practical teaching (theoretical part of the practical training) and practical training.

The allotment and share of practical teaching/training in the syllabi needs to undergo change. Its scope has been revised in the two-year and three-year VET, but needs to be revised also in technical vocational education and training, which caters for the greatest number of students in VET. The time allotted currently to practical teaching and training in TVET lies between 9% and 20%, and merits increasing. Global tendencies indicate that employers are increasingly inclined to hiring secondary school graduates with technical qualifications, thus improving the chances for their successful transition to the labour market. To this end, it is necessary to strengthen, in addition to the acquisition of competences for continuation of education, also the acquisition of competences/skills necessary for transitioning to the labour market.
Planning of practical training is a problem in itself. The rigidity of the syllabus makes it hard to plan efficiently and effectively the concentration and time distribution of practical training, which are closely linked to the character of the respective profile, and companies are not always ready and able to adapt to the schedule foreseen in the syllabus. A higher degree of flexibility needs to be introduced to enable schools to decide more independently on the timing when practical training is to be carried out and to harmonise the schedule with their business partners, respecting in the process the requirements for quality realisation of practical training.

Infrastructural capacities in VET present an additional problem. It is necessary to improve the situation in secondary VET through provision of laboratories, workshops, demonstration facilities, equipment and consumables. This improvement will facilitate strengthening the practical teaching in schools and ultimately improvement of the quality of learning. We also need to keep in mind the possibility for utilising existing infrastructure and capacities of companies, with a view to their greater involvement in the process of students’ acquisition of practical-vocational competences, thus decreasing the costs for this purpose.

Internship is included in the educational programmes and is part of the active labour measures at national and local level. Internship is primarily focused on students and the unemployed. The internship programmes enable employers to identify suitable future personnel. Therefore, national and developmental programmes targeting this issue include initiatives to encourage this process.

Gaining work experience by training through volunteering marginalises VET students. The current form of volunteering allows for the practice to be carried out only in non-profit organisations, thus limiting opportunities for graduates/students to volunteer in companies corresponding to their occupational area, which are as a rule profit companies, to enhance their skills and gain working experience that carries significant weight in the process of employment.

2.6.4 SYLLABI AND CURRICULA

Analyses show weaknesses in the development of syllabi and defining of profiles in VET due to the lack of a quality analysis of the labour market and its needs. The relevance of the profiles produced by the VET system for the labour market and types of competences graduates possess and their applicability in an environment of technologies are key challenges facing VET.

The current set-up of the VET system does not allow for fast and timely reaction to the changes in the demand for new profiles and skills. The absence of quick procedures for changes in the syllabi and curricula, introduction of new and deletion of unnecessary profiles, and mechanisms for forecasting the needs of the labour market are “bottlenecks” in the functioning of the VET system.

In this sense, the research identified need for changing the procedures for syllabus and curriculum innovation and amendment. They are said to be slow and long, adversely affecting the possibility for the curricula to timely respond to the changing demands for skills of the labour market. The current procedures hamper quick reaction of VET to the developments in the business sector and achievement of a higher degree of relevance.

2.6.5 QUALITY

Control of quality in VET is regulated with the provisions of the Law on amendments and supplements to the Law on secondary education, Law on amendments and supplements to the Law on secondary education, Law on amendments and supplements to the Law on secondary education, Law on education inspection and Rulebook on integral inspection, Law on vocational education and training and Indicators for quality of the work of school.

Although quality assurance in VET is partly regulated through laws and by-laws, the impression remains that it is one of the most pronounced weaknesses in VET. For example, the Law on vocational education and training makes no reference to the issue of quality assurance.

Control of the quality in VET is carried out internally (self-evaluation) and externally (integral evaluation). Self-evaluation as regular practice for defining the development directions of the secondary VET schools has still not come to life and still serves the purpose and is carried out only as part of the integral evaluation.

114 Official Gazette of the RM No. 67/04 from 04.10.2004, art. 50 to amend art. 108
115 Official Gazette of the RM No. 35 from 23.03.2006, art.89-b
116 Official Gazette of the RM No. 33 from 9.03.2010, art. 29, para 2
117 Official Gazette of the RM No.52 from 04.07.2005
118 Official Gazette of the RM No. 86/06, Skopje
119 Official Gazette of the RM No. 71 from 08.06.2006
120 RM, MoES, SEI, Skopje.
The external quality control is defined through the role of the State Education Inspectorate. By carrying out the external integral evaluation, it carries out the obligation for conducting supervision/control of the quality in the VET institutions. The Rulebook on the manner and procedure for conducting the inspection supervision of the education inspection makes reference only to the integral evaluation, without addressing the issue of quality assurance, with special focus on indicators developed for assessing the quality of the work of the schools. Unfortunately, some of the quality indicators are not appropriate for the specificities of VET, are too general and in poor communication with the European Quality Assurance Reference Framework for VET.

Apart from the system for quality control in VET, there is no system for support and/or system for quality assurance, which would decentralise the issue of quality assurance through active participation of a broad base of stakeholders in the process of strengthening the quality in VET.

In addition to systems for control/quality assurance, teaching and learning play a central role in strengthening the quality in VET, as well as the teachers as implementers of this activity.

The consultation process demonstrated that the in VET is less than satisfactory both from the viewpoint of employability and vocational competences of graduates, and also of their competences for continuation of education. Teaching and learning in VET are plagued by weaknesses in the area of use of contemporary learning models and strategies and assessment of student achievements.

The initial education of VET teachers and instructors in VET does not provide future and current teachers and instructors with appropriate pedagogical-didactic and andragogical competences. The pedagogical qualification VET teachers and instructors, as part of the initial training system of those studying at teacher training but also non-teacher training faculties has been inconsistent in the last several decades. It does not nearly satisfy the requirements for training a competent and effective teachers or trainers for VET.

During the consultation process, the VET teachers themselves identified as areas in greatest need of attention: the improvement of practical teaching/collaboration with the business sector (57.57%), innovation of syllabi and curricula (51.51%), changes in the educational profiles (48.48%), improvement of textbooks and equipment/didactic aids (48.48%) and strengthening the school budget (45.45%).

The issue of textbooks is a frequently highlighted problem in VET. Too much time is wasted in discussions how many and what kind of textbooks the VET system needs. Too great a focus and dependence on the textbooks is connected to the unyielding idea that teaching and learning serve the purpose of delivering the contents of the textbooks instead of developing the competences of students. Without wanting to marginalise the important of textbooks, it must be said that teaching based on learning objectives and outcomes makes use of the textbook as only one of the many teaching and learning resources. This approach puts at the forefront the competences that students need to acquire and eases the tension around textbooks and the too great teacher focus and dependence on them.

The teaching and learning approach needs to move away from the traditional notion of focusing on fundamental vocational and specific vocational competences. New pedagogical approaches take into account the skills of the workforce that are constantly evolving and the respective emphasis on the flexibility and importance of transversal competences, such as: problem solving, change management, entrepreneurial skills, communication skills, pair work, relations with co-workers and clients, IT literacy, creativity, self-confidence, professional ethics, etc. These demands need to find their answer in the goals and contents of teaching and learning in vocational education and training.

### 2.6.6 FINANCING AND DECENTRALISATION

Problems in the financing of VET are one of the most important topics affecting its stockholders. The costs of financing VET fall mostly on the Ministry of Education and Science, on the basis of its work programmes and annual budget approved by the Government. Financing of VET schools follows a methodology for establishing criteria for allocation of block/lump sum grants for secondary education to municipalities and the city of Skopje. The municipalities receive block grants from the Ministry of Education and Science which are in general used for salaries, student transportation and heating costs. Part of the funds is allocated to development issues. Part of the operational costs is covered by the schools themselves or by the respective municipality.

Municipalities maintain on-going dialogue with the institutions of the government around increasing their financial resources and improving the methodology of determining the criteria for allocation of block grants, with special emphasis on the differences between and specificities of municipalities and education institutions. To this end, in

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121 Official Gazette of the RM No. 86/2006

122 Budget of the RM for 2011 and 2012, Directive on the methodology for allocation of dedicated and block grants in secondary education, Official Gazette of the RM 176/2011; interviews with directors, review of school budgets

123 ZELS, Glasilo, July 2012
2. VET SYSTEM – MAIN FEATURES, OPPORTUNITIES AND CHALLENGES

the period between 2009 and 2013, The Government undertook measures for strengthening the financial power of the municipalities, through\(^{124}\):

- permanent increase of the percentage of the revenues from the VAT that is allocated to municipalities from 3% (in 2009) to 3.4% in 2010, 3.7% in 2011, 4% in 2012, and to 4.5% in 2013, ensuring increase in the municipality budget revenues;
- increase in the distribution of the revenues from sale of construction land to a 20 : 80 ratio in favour of the municipalities;
- increase in the distribution of the revenues from mineral ore concessions to a 22:78 ratio in favour of the municipalities;
- introduction as of 2013 of new revenues from concessions to use water resources for production of electrical energy, which are to be distributed to a 50%:50% ratio (until 2016 the ratio will be 25% for municipalities and 75% for the state budget).\(^ {125}\)

To complement these systemic measures, the Government, through loans from international financial institutions, carries out intervention projects in education, aimed at reconstructing primary and secondary schools, equipping classrooms, constructing and reconstructing school gyms, tennis playgrounds, opening and equipping laboratories, etc.\(^ {126}\)

It is expected that these measures will contribute to strengthening the financial power of municipalities, and thus help create dynamic and quality support to vocational training and education. It is especially important for the municipalities to strengthen their capacities for utilisation of local sources to enhance their potentials for support.

The country’s allocation of resources for education has been between 5% and 6% of the GDP in recent years, which is at the level of OECD developed countries.\(^ {127}\) The amount of the state expenditures and overall expenditures for initial VET is difficult to calculate, because they fall into the overall funding of secondary, post-secondary and higher education, or are part of intervention measures and international projects, and because there is no clear distinction between general and vocational education at the respective level.

Public financing of continuing VET is mainly carried by the Ministry of Education and Science through, the work of the Centre for Adult Education, and the Ministry of Labour and Social Policy, through the Active Labour Market Programmes. The ESARM, funded by the state budget and resources it generates (membership fees, user charges, etc.), covers most of the costs of training for employment, new qualifications and training for acquisition of skills demanded by the labour market for persons without any or with low qualifications levels.

In addition to funding allocated from the state budget, VET receives additional funds through projects, most often implemented by international donors, and special funds from different Government ministries. Some schools organise income generating activities, such as training for outside users, provision of diverse services and production and sale of products. Unfortunately, such practices are rare.

Recent developments indicate that decentralisation does not entail mere redistribution of power, but also devolution of responsibilities which directly determine the status and role of local political and administrative centres of power. Assuming responsibilities in education requires also assuming responsibility for its financing.

In an environment of increased allocation of resources from the state to the municipalities, it is to be expected that the financial support of local authorities for VET should also increase. However, despite this, the consultative process revealed dissatisfaction on the part of schools with the financing system. Most often, this dissatisfaction is focused on the lack of resources for developmental issues, equipment and expendables, pointing to the existence of open issues between the state, local governments and VET schools in the area of financing, highlighting the need for strengthening the social dialogues between these stakeholders.

\(^{124}\) Ministry of Finance – Sector for budgets and funds, Opinion following the letter from the Ministry of Education and Science from February 2013, 21 March 2013
\(^{125}\) Ibid.
\(^{126}\) Ibid.
\(^{127}\) Ibid.
3. STRATEGY FRAMEWORK

The VET Strategy represents further operationalization of the strategic goals and objectives defined in the “National Programme for Development of Education in the Republic of Macedonia 2005-2016” and the country “Vocational Education and Training Policy”. These documents reflect the recommendations contained in the European initiatives for development of vocational education and training, such as Lisbon (2000), Copenhagen (2002), Maastricht (2004), Helsinki (2006), Bordeaux (2008) and Bruges (2010). The recommendations adopted in and governing the actions in the European Union in the area of modernisation and reform of vocational education, with special emphasis on the Bruges Communiqué, present the basic platform on which the solutions offered in this Strategy rest.

The VET Strategy pays due attention to the solutions presented in other strategic documents adopted by the Government of the Republic of Macedonia, which address different sectors, such as: employment, economic development, poverty reduction and elimination, etc. It takes also into account the experiences from the reforms carried out in the education system in the Republic of Macedonia, as well as the results of internationally funded projects in this area, initiated and implemented with the assistance of the European Training Foundation, the PHARE, CARDS and IPA Programmes, GTZ, USAID and other programmes and projects implemented by the Government of the Republic of Macedonia and the Ministry for Education and Science, in cooperation with the Bureau for Development of Education and the Centre for Vocational Education and Training.

The foundations of the VET Strategy are rooted in the consultation process with the expert and policy-making communities on the future of VET in the country.

The VET Strategy outlines a system well positioned to adequately respond to the established current and future challenges. The proposed harmonisation is founded on flexible institutional set-up and development of mechanisms and instruments that will enable it to timely offer skills and demanded by the labour markets, and necessary for continuation of education and life in general. VET needs to be in a constant dynamic relation with the labour market and society as a whole. Changes occurring in all areas impose the need for establishing such a system that can timely react to and implement change for this relation to be maintained and for VET to fulfil its role of a distributor of competent workforce, on one hand, and individuals prepared for continuation of their education, on the other.

3.1 GUIDING PRINCIPLES

The basic principles on which the reform and modernisation of vocational education and training in a lifelong learning context is to rest, must reflect the contemporary situation and tendencies in VET, the economic, political and cultural development of the country, trends resulting from globalisation processes and the international context, as well as the interests of stakeholders.

Vocational education and training is founded on the following principles.

**Quality:** The principle of quality is a key principle in vocational education and training. VET must be in tune with the standards of quality developed applied in the international environment and with the mechanisms for quality assurance relevant for this tier of education and training. Improvement of the quality of VET will have as its outcome increased attractiveness of and confidence in VET.

**Relevance:** VET must be relevant to the successful transition to and performance of young people and adults in the areas of work, further education and life in general, and respond to demands coming from the labour market and society.

**Collaborative approach:** Vocational education and training must develop in partnership with stakeholders: the Government, the business sector, unions, employer associations and chambers, research institutes and institutions, VET service providers, local government, sectoral committees, parents and students. The collaborative approach to creating education policies and to delivery of VET is the only possible approach in an unpredictable future.

**Decentralisation:** Decentralisation in VET is a necessity which improves its efficiency, agility and alertness, and enables it to timely react to changes in the economic and overall social sector. Any VET system able to timely
adapt to changing demands is and will remain a recognised priority sector. Decentralisation in education facilitates redistribution of competences and responsibilities for the main education issues, such as:

- control and quality of education,
- teacher professional development,
- allocation and distribution of funds,
- development of VET,
- (mis)match between workforce and local job offer, and learning opportunities available to young people and adults,
- improvement and efficient use of research and innovation results,
- quality collaboration between education and the economy,
- management of human and material resources,
- speedier revision of standards of occupations, education profiles, curricula and modules,
- openness of syllabi and curricula,
- better coordination in the revision and functionality of the network of VET providers, etc.

**Inclusiveness and equity:** VET must be accessible to all regardless of age, sex, social background, religion, physical or mental disability, political or ideological affiliation, etc. This implies realising the right of all individuals to education in line with his/her potentials, interests and needs. VET reflects the measures and qualities for better integration of all citizens in the economy and society in general.

**Institutional and programme diversity:** VET must be designed so as to meet the needs of all groups at risk, including: the employed and the unemployed; persons returning to the labour market, the long-term unemployed, persons with developmental challenges, early leavers, etc. The VET system must develop a network of diverse institutions and programmes aimed at: (1) addressing economic and social demands, and (2) meeting the needs of diverse groups of users.

**Effectiveness and accountability:** Proper monitoring of progress in VET should result in transparent and easily accessible evidence for the general public and stakeholders. Accountability, based on the realisation of short-term and long-term goals, should be an inseparable feature of VET and institutions involved in it. The future VET system requires competent management and transparency of results and achievements. Efficient utilisation of available funding and diversification of funding sources (national and international, private and public, central and municipal, and such as obtained through income generation activities of providers themselves) is the only way to achieve the desired better results in an environment of scarce resources.

### 3.2 Vision and Goals of the VET Strategy

Interventions in the country’s vocational education and training will result in a system which reflects the demands and visions of all its citizens and the intentions for the future vocational education and training to be an attractive destination for young people and adults, operating at a level of quality that enables all to adapt to and transform the quickly changing future.

VET will become a key factor in the development of the workforce, in the establishment of an economy that makes better use of its human capital and evolves towards an information and knowledge-base, in strengthening individual and social productivity, in the economic development and growth of the country, in the improvement of the quality of life, in achieving full social participation, in employment, in strengthening the employability and professional development of young people and adults, and realisation of mobility on national and international level.

What is the goal of VET? There is more than one answer to this question. The business community demands that the goal of VET should be to train and prepare students and learners for successful transition to the labour market (*Homo faber, Homo technologicus*), to provide them with necessary knowledge and skills that employers demand. For universities, the goal of VET should be to prepare students for successful continuation of their education and mastering of scientific knowledge (*Homo scientificus, Homo educanus*). For parents, it is important that VET meet the wishes and inclinations of their children and ensure them a quality and safe future. For politicians, the goal of VET varies often and depends on their interests. If they speak from an economic viewpoint, then, in their opinion, VET should prepare capable workers. In this sense, there are continuing appeals for youth to enrol in VET. If the topic is higher education, then VET should prepare them for successful continuation of education. Very rarely do we hear that VET should develop an independent and creative person (*Homo sentimentalis, Homo creator*), with potentials that enable him/her to successfully accomplish his/her civil and societal role (*Homo politicus, Homo socius*) and with competences for developing an appropriate culture of living (*Homo amans*). Rarely, extremely rarely, are these goals spoken of in combination.
VET must be viewed and defined in the context of lifelong learning, i.e. educating a man capable to learning in continuation (*Homo discens*).

VET needs to become an attractive and credible option for youth, and an effective opportunity for skills refreshment/retraining of youth and adults in urban and rural communities, contributing to competitiveness of the employed and for employability of job seekers.

In order to make the vision for VET in the country a reality, the Strategy for VET in a lifelong learning context aims to meet the following goals:

- to enhance the attractiveness, relevance and quality of VET and enable it to play a key role in the improvement of professional performance, competitiveness and innovation;
- to offer more diversified and flexible learning opportunities to young people and adults to acquire the skills that are necessary for their career development and that stimulate entrepreneurial spirit, whilst fostering participation in further education and training, and contributing to active citizenship and personal fulfilment;
- to promote excellence and social inclusion, contribute to greater employability, mobility and job security enhance anticipation and management of labour market changes and encourage business competitiveness.
4. THE FUTURE VET SYSTEM

The analysis of the challenges and trends in the country’s VET system, which is the basis of this Strategy, reveals different levels of development in separate parts of the VET system, bottlenecks and critical intervention points. If we want vocational education and training to reach the desired development level and to assume in future the role of generator of change and “factory” for production of educated and with skills armed young people and adults, that not only adapt to the future unpredictable reality, but are also able to change and innovate it, then the priority areas for implementation within the proposed Strategy are as follows:

1. VET in the function of strengthening social cohesion and social inclusion;
2. Attractiveness vocational education and training;
3. Quality and relevance – guarantee for competitiveness;
4. Good governance, resources, capacities and accountability in the future VET system.

The following elaboration of each goal provides for the measures that need to be implemented in the coming period.

4.1 VET IN THE FUNCTION OF STRENGTHENING SOCIAL COHESION AND SOCIAL INCLUSION

Vocational education and training must strengthen its function for prevention of possible social exclusion. The number of persons without any qualification is a very high (41.67% of the working age population\(^1\)). If we add to this number those persons with low qualifications that are not in demand at labour market any more, and also the persons who have completed four-year general education, then the percentage becomes alarming, as they are not competitive at the labour market and can hardly be regarded as employable. This puts them at a very high risk of exclusion from work, and thus of social exclusion. This population group must in the coming period be at the forefront of concern in the development and implementation of education and training and employment policies.

Within this diverse category of persons at risk of social exclusion are persons with low skills who have left school/dropped out or have not continued their education and training after the completion of compulsory education.\(^2\) Decreasing the number of early school leavers is an important measure for enhancing the skills of the population, increasing the employment rate and promoting social inclusion. In 2011, early leavers made up for 13.5% of the total number of persons with primary education or less for the same age group.\(^3\) In the period from 2002 (when it was 30.1%) to 2011, this percentage dropped by 16.6%. This decrease is mainly due to the extension of duration of compulsory primary and introduction of compulsory secondary education.\(^4\) Drop-out is more pronounced among the female population (15%) than among the male population (12%).\(^5\) The EU Strategy 2020 requires that by 2020 the percentage of early leavers should not exceed 10%.\(^6\)

In addition to the attention that needs to be devoted to early leavers and persons with low basic skills levels, care must be also taken of other groups at risk of social exclusion, which include: women (in regions and among ethnic groups with a high unemployment rate), persons who have lost their job and are looking for work again, the long-term unemployed, members of ethnic minorities, migrants/persons returning from abroad who have acquired qualification/skills, persons with education handicap on account of industrial reorganisation, older workers, young people facing problems during the transition towards work, persons with developmental challenges, etc. It is necessary to undertake measures that will decrease the threat of their exclusion.

There is growing awareness of the importance of recognition and validation of competences in a number of countries in Europe. It is often the case that an individual embarks on a process of learning without completing it. During that period, specific knowledge and skills are acquired which are then lost in educational abstinence. Young people and adults acquire knowledge and skills in a formal, non-formal and informal way. Significant resources, energy and time are invested in this process, which are not valued and validated and which do not help the individual in question meet

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2. **Persons schooled in the system where compulsory education lasted eight years.**
3. **SSO, Situation from 16.11.2012; According to SSO, this indicator is defined as participation of persons aged 18-24 who have no or at most primary education in relation to the total population from the same age group.**
4. **SSO, Macedonia in numbers, 2012**
5. **SSO, Women and men in the Republic of Macedonia, 2012**
the formal requirements for employment and/or work. This reality and fact, that knowledge and skills are created outside of the confines of formal education and training has challenged almost all European countries to develop legal provisions for their recognitions irrespective of whether they were acquired in the formal, non-formal or informal sector. This new policy enhances employment and inclusion, strengthening at the same time the self-confidence of the respective beneficiaries.

On the other hand, the new framework for recognition of non-formal learning require reforms for the introduction of a quality assurance system and strengthening the necessary trust; for developing new forms of assessment based on competences and flexible and modularised training; and for strengthening individuals and institutions willing to participate in and benefit from this new paradigm.

Undertaking measures in this respect will respect the set-up of the system for vocational education and training in the country; initial focus will be placed recognition and validation of lower levels of skills acquired by way of non-formal and informal learning.

To strengthen this priority area, in the period until 2020 the following goals and measures shall be realised:

**A1. Strengthening the monitoring of secondary VET early leavers**
- By 2015 introduce a system for monitoring VET students
- By 2015 to establish school-based mechanisms and practices for detection of students under risk of leaving school early

**A2. Strengthening career guidance services in VET schools**
- By 2015 hire and train staff for career guidance in VET schools

**A3. Preventing early leaving**
- By 2015 link social welfare to the obligation for regular attendance and completion of compulsory education
- By 2014 strengthen scholarships to students from socially vulnerable groups
- By 2015 introduce educational mediators as additional assistance in primary education to ensure Roma students stay at school and graduate, and transition into secondary education
- By 2015 introduce educational mediators as additional assistance in secondary VET to ensure Roma students stay at school and graduate, and transition into higher education or to the labour market

**A4. Supporting students with special education needs**
- By 2015 provide training for VET teachers for working with students with SEN in mainstream schools
- By 2020 adjust syllabi and curricula in mainstream VET schools to students with SEN
- By 2016 improve the physical infrastructure in mainstream VET schools for students with SEN

**A5. Strengthening interethnic integration and cohesion in VET**
- By 2015 commence implementation of joint curricular and extracurricular activities in VET schools aimed at strengthening inter-ethnic integration and cohesion, including practical training (practical teaching, vocational practice and summer internships)

**A6. Strengthening the employability of the workforce**
- By 2020 train youth and adults without qualifications at ISCED 3 level and higher
- By 2016 prepare and commence with the implementation of short, dynamic and flexible courses for acquiring skills that respond to the needs of the labour market for youth and adults with qualifications

**A7. Establishing a system for validation of non-formal and informal learning**
- By 2015 analyse the possibilities for establishing a system for validation of non-formal and informal learning
- By 2018 develop procedures, mechanisms and programmes for VNFIL within the NQF, following competence/learning outcome based curricula and appropriate assessment procedures
- By 2020 ensure implementation of the system for VNFIL

### 4.2 ATTRACTIVE VOCATIONAL EDUCATION AND TRAINING

There are evident weaknesses in the process of curriculum development. Strong criticism and requests can be heard also in regard to practical teaching, the need for introduction of new subjects, revision of the ratio between general education and vocational subjects, the need for introduction of new profiles, strengthening of the students’ acquisition of skills with special emphasis on soft skills (communication skills, team work, interpersonal skills, leadership skills, time management, etc.), need for textbooks, etc.
Vocational education and training needs to grow into an attractive destination for youth and adults and increase its significance in the eyes of the general public as an instrument for individual and social development. In this context, system must be developed that entails diverse pathways for learning for youth and adults, that is open and accessible for all, irrespective of gender, physical condition and social background, ethnic and religious origin, that collaborates with the labour market and serves the function of development of the country, etc.

VET must become a pleasant place and environment for learning, innovation, research and acquisition of key skills imperative for successful transition to further learning and/or work and life in general.

To strengthen this priority area, the following goals must be achieved by 2020.

Goal B1. Raising public awareness on the attractiveness and opportunities offered by VET

To make VET attractive, strong mechanisms need to be built will improve and enhance practical teaching and work-based training and learning of students in order to prepare them for integration into the world of labour. It is exceptionally important to introduce incentives for the business sector to ensure its greater involvement in and collaboration with VET, and also to introduce different models of practical training, such as apprenticeship (learning a trade/craft as an apprentice).

Student workload is another factor that determines the attractiveness of VET. Syllabi and curricula are extensive, and the workload of VET students is far greater than that of general education students. The research revealed significant dissatisfaction among VET students, teachers and management with the workload and volume of teaching prescribed by the VET syllabi and curricula. This situation marginalises the efforts for application of contemporary teaching models, extracurricular activities, learning based on research and investigative procedures, as well as greater interaction in the teaching and learning processes.

Possibilities for transitioning into higher education also affect the attractiveness of VET. Problems arise in the realisation of the State Matura. Due to differences in duration of periods certain subjects, eligible to be selected in the State Matura, are studied, students in technical VET are at a disadvantage in comparison to secondary general students. In addition, the Law on higher education, which regulates the transition of students from secondary VET to higher education, allows for enrolment into university studies with School Matura and even Final Exam. The importance of the State Matura is marginalised in this way, calling into question its role and function within the education system.

In the absence of a well-developed system of post-secondary and higher vocational education and training, the main pressure of VET graduates continuing their education is in higher academic education. This practice, despite our commitment to increasing the number of persons with higher education, causes a number of problems, such as: the importance of the State Matura, which was designed as a condition for transition into higher education is marginalised and its application is undervalued; the motivation of students for taking the State Matura declines because of the option to continue into higher education also with completed School Matura or Vocational Exam; a vacuum appears on the workforce market of persons with secondary school qualification which puts additional stress on the processes of employment and meeting the demands of the labour market; the transition of persons with lower competences directly leads to decline of the quality in higher education, etc.

This situation must be remedied by on one hand revising the concept for the State Matura as it relates to VET and undertaking measures to align it with the specificities of technical VET, and on the other introducing mechanisms that will enhance both the attractiveness of higher education and the adequacy of the transition. Introduction of higher levels of vocational education and training, namely post-secondary and higher vocational education and training will ease the pressure on university academic programmes and will enable young people to build a professional career, to advance in their occupation, outside of university academic programmes.

These shortcomings have an adverse effect of the attractiveness of VET to young people and adults; it is not an attractive destination and the pressure for enrolment in secondary vocational education is far smaller than for enrolment in general education. The only way to change this is to undertake coordinated measures for increasing its attractiveness.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- In 2014 establish the optimal student workload in secondary VET
- In 2013 carry out revision of the State Matura and adapt it to the specificities of secondary VET
- In 2013 analyse the effects and application of the legal possibility for enrolment into university education with School Matura or Final Exam
- By 2015 undertake activities to raise public awareness on the importance and attractiveness of VET
- By 2020 continuing modernise the equipment and laboratories in VET schools
By 2016 conclude agreements for increasing the attractiveness of research and innovation through systematic and structured collaboration between university laboratories, new laboratories in VET schools and industry research centres

Between 2014 and 2020 continuously organise regional/national innovation competitions for VET students by occupational area

By 2018 establish of a system for monitoring processes (progression of students and work of VET schools) and tracking outcomes (destinations of graduates)

Goal B2. Building diverse and flexible pathways for learning and professional guidance in the context of lifelong learning

Vocational education and training is expected to meet the needs and interests of different groups of clients. Globalisation, aging of the population, the economic crisis and the humbling dynamics of technical-technological development, and the dynamics of everyday life in general, keep generating new target groups, such as: older workers, persons returning to the labour market, long-term unemployed, etc. These groups differ from the young VET users in their education history, prior knowledge, experiences, ambitions, desires and motives. Their education and training cannot follow the traditional set-up of the VET system and learning models practiced therein. Therefore, it is necessary to develop diverse pathways and opportunities for education and training that will help these groups acquire new or upgrade existing qualifications/competences, and this can be achieved through introduction of a high degree of flexibility in the approach and delivery of education and training services. These flexible pathways for learning and training presuppose integration of formal, non-formal and informal learning and development of an institutional basis for delivery of learning and training. They will be invaluable and irreplaceable to the said groups and will help increase the attractiveness, efficiency and cost-effectiveness of vocational education and training. This approach makes the concept of lifelong learning a reality. In addition, flexible learning pathways can make a fundamental contribution to improving the relevance of VET also for youth students.

Education supply can be strengthened by adapting the curricula to regional and local demands and individual needs, by introduction of modularised programmes for learning and training, establishment of new programmes based on competences, accumulation and transfer of credits and setting up and putting into operation a system of post-secondary vocational education and training. In the process, care should be taken to enhance opportunities for skills acquisition by means of fast and short courses, as an addition to secondary VET or as part of the non-formal system of education and training. Installing such programmes will increase the flexibility of the VET system as well as educational offer and the capacities of the system to quickly respond to and meet the demands of the labour market with the necessary skills.

Of supreme importance is the completion of the process of development of the National Qualifications Framework; it will serve as the foundation for revision of qualification level, development of standards of competences, new programmes, syllabi and curricula, improvement of the vertical mobility of students and learners, delineation between academic and vocational higher education study programmes, etc.

The state needs to broaden the scope of its interest to not only students in the formal education process, but also those who are employed. It is necessary to focus attention in vocational education and training to workers in small and medium sized companies and to older workers. The potentials of companies must be used for their transformation into “learning organisations.” The working place needs to develop into an environment for offering services for professional orientation and training, and social partners must give due attention and priority to information, support and professional guidance.

Future focus should also cover skills for career and learning management. How young people choose their future profession is a process with many shortcomings. Broad, timely and relevant data and information on opportunities available for transitioning to the labour market and for continuing education are lacking. Introduction of professional orientation in primary education, expansion and development of career centres and student services in secondary and higher education, respectively, as well as human resource development centres in the local self-government, is a pertinent action for the future. Support must be provided to young people in the development of their identity from the very start of primary education and in the planning of their career during secondary education, as well as assistance to adults for career change. This should result in early detection of interests and inclinations and timely acquisition of skills, knowledge and attitudes necessary for planning and management of life, work and career.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- By 2015 develop and implement a methodology for revision of curricula following the principles of outcome/competence based learning and modularisation with the aim of their harmonisation with European trends for implementation of ECVET
- By 2016 complete the process of development of standards of occupations and curricula for 2-γ., 3-γ. and 4-γ. VET
- By 2014 evaluate the effects of the work of the existing career centres in VET schools
Goal B3. Developing key competences for lifelong learning – visa for the future

Current research reveals that the development of vocational competences linked to an occupation is a key dimension for the innovativeness in vocational education and training. Changing conditions impose integration of the general and vocational competences so they become an inherent element of VET curricula, and the context in which learning takes place has its reflection in learning outcomes.

Curricula are required to develop the necessary vocational competences sought by the labour market or sectors beyond national borders. Timely identification and/or forecasting of competences and skills demanded on the labour market is invaluable for the development of the economy, workforce and society. They must be identified and taken into account in the process of redesigning and reforming of VET curricula and the continuing training of young people and adults.

Curricula must ensure the acquisition and development of key competences for lifelong learning, which enable young people and adults acquire basic skills that create the foundation for future life and work, namely: Competence for communication in the mother tongue; Competence for communication in a foreign language; Mathematical competence and basic competences for science and technology; Digital competence; Competence for learning how to learn; Social and civic competences, Sense of initiative and entrepreneurship\(^\text{136}\); and Cultural awareness and expression.

It is especially important to strengthen entrepreneurship in education and training at all levels, including schools, universities and VET in general. The Rethinking Education Initiative of the European Commission states that "This will encourage education institutions to develop more entrepreneurial approaches in areas including leadership, teacher development as well as curriculum delivery."\(^\text{137}\) Development of entrepreneurial skills and spirit must not depend only on the quality of realisation of a separate subject taught in primary and secondary education. It is a process which is to be realised in a cross-curricular manner and become a constituent part of the work of all teachers irrespective of the level of education (primary, secondary, post-secondary, higher) and irrespective of the manner of realisation (regular teaching, extracurricular activities, project work, research, etc.). Its presence must be strengthened also in initial training which prepares teachers for all tiers of education.

The future procedures for validation and assessment of teaching and learning outcomes in VET must promote a process of identification of the level of development and acquisition of key competences among VET students. To this end, we must ensure that teachers possess the necessary competences for imparting and developing key competences for lifelong learning among young people and adults in the teaching and learning process, and apply appropriate learning strategies and assessment and validation practices.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- By 2016 revise study programmes for initial education of VET teachers to integrate key competences for lifelong learning
- By 2016 revise secondary VET curricula to include key competences for lifelong learning and career management skills
- By 2018 train VET teachers in development of key competences for lifelong learning career management skills in curricular and extracurricular activities
- From 2014 to 2020 introduce a cross-curricular approach and strengthen entrepreneurial learning that enhances self-confidence, critical thinking, creativity, economic and financial literacy, knowledge of the world of labour, communication skills, etc.

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136 Sense of initiative and entrepreneurship refers to an individual’s ability to turn ideas into action. It includes creativity, innovation and risk-taking, as well as the ability to plan and manage projects in order to achieve objectives. This supports individuals, not only in their everyday lives at home and in society, but also in the workplace in being aware of the context of their work and being able to seize opportunities, and is a foundation for more specific skills and knowledge needed by those establishing or contributing to social or commercial activity. This should include awareness of ethical values and promote good governance. In Key Competences for Lifelong Learning – A European Framework, annex to the Recommendation of the European Parliament and of the Council of 18 December 2006 on key competences for lifelong learning, Official Journal of the European Union of 30 December 2006/L394.

137 Commissioner Vassiliou’s press statement on Rethinking Education, Strasbourg, 20 November 2012
4.3 QUALITY AND RELEVANCE – GUARANTEE FOR COMPETITIVENESS

Improving the attractiveness, accessibility and quality of VET is of paramount importance in order to allow vocational education and training to play a major role in the strategies for lifelong learning and to facilitate enhancement of equality, business performance, competitiveness and innovation, and to create opportunities for young people and adults to acquire skills that are necessary for their career development, that enable them to participate in training, to be active citizens and achieve personal fulfilment. This entails improvement of the quality of VET, through enhancement of the quality and competences of school teachers, trainers and management, through introduction of flexible pathways in all education levels and through improving the public awareness on the opportunities offered by VET.

Quality as an overarching value in any education system and subsystem, including VET, permeates all goals and measures presented in this Strategy, but also embraces specific ones, aimed at improving practical teaching and training, ensuring delivery and acquisition of key competences, improving management of and support to the VET system, etc. In order to assure that quality is sought and achieved, we must develop appropriate procedures, mechanisms and instruments, organised in a system for quality assurance.

To strengthen this priority area, the following goals need to be achieved by 2020.

Goal C1. Quality assurance

In addition of highly motivated and high quality teachers and trainers, quality in VET requires the establishment of a quality assurance system, which includes a sustainable monitoring and evaluation system based on processes and outcomes in VET, which assess the situation in VET, the impact of new programmes on students, on the labour market and higher education, registers and timely responds to feedback from VET beneficiaries - students, employers, universities, schools and other stakeholders.

The quality assurance system to be instituted in support of improving the quality of VET as a guarantee for employability and competitiveness, must take into account specific requirements and principles.

- QA should be constituent and integral part of the management and development of VET providers and foster accountability and transparency.
- Policies and procedures for QA should be harmonised with the NQF and the national ECVET system, and with EQAVET (EQARF) on an EU level, and address adequately input, context, process and output dimensions and pay special attention to outcomes, including destinations of graduates.
- QA procedures in VET should bring together internal and external mechanisms, and serve as a platform for stakeholder involvement and empowerment.
- The Republic of Macedonia should join and actively participate in the EQAVET Network.

QA affects all stakeholders in that it by facilitates on-going insight into the quality of VET identifies ways for its improvement. To this end, the state will undertake measures for establishing procedures, mechanisms, instruments and collaboration practices for monitoring, evaluating and enhancing quality in VET, to ensure competitiveness not only on an individual, but also on a general socio-economic level.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- By 2015 define a system and framework for quality assurance in VET, which integrates internal and external mechanisms and involves stakeholders, in line with EQAVET
- In 2013 redefine indicators and procedures for quality assurance in VET, in line with EQF, EQARF and NQF
- By 2015 develop instruments and mechanism for monitoring and control of the delivery of practical training
- By 2015 establish a system for professional and career development of teachers and trainers in secondary VET
- By 2016 deliver didactical training of SEI inspectors
- From 2014 to 2020 ensure on-going participation of RM in international assessments of quality of education (PISA)
- From 2014 to 2020 strengthen the technological competences of the employed in all strategic sectors defined in the Strategy for promotion of export 2011
Goal C2. New skills through new pedagogy

The demands for new skills require changes in the current ways of teaching and learning – they require a new pedagogy. If the new demands are focused on strengthening different kinds of competences, i.e. fundamental, specific vocational and transversal competences, then it is questionable whether the current organisation of teaching and learning and the learning models respond to the new demands.

Inclusion of VET-appropriate IT in the teaching, work and business processes is of special importance for the future of the VET system. IT supported learning enhances innovativeness in teaching and learning, both in initial and continuing VET. It not only aids understanding, but also enhances the development of IT competences of students in a given context. IT cannot and must not be simply a subject of theoretical learning and application of basic operations. It must "come to life" in the everyday work of teachers and students, and must reflect the reality or simulate the future destinations of students, above all the jobs towards which they aspire.

In order to harness this potential, the role of support mechanisms for teachers and trainers need to be revised, new models of creating and using learning contents must be designed, new pedagogical methods need to be developed and greater involvement of the business sector needs to be ensured. Teaching and learning must not be left to lag behind changes in work and everyday life, they must develop alongside. They need to take into account the lifestyles of the young people and properly and cleverly use them in the processes of learning. Application of teaching models based on young people's lifestyles, such as use of social networks, of the internet, preoccupation with mobile telephony, non-formal associations, value preferences, etc., which differ from the lifestyles of the older generation, can lead to greater attractiveness of VET, better outcomes from learning and training and higher motivation among young people for learning.

Assessment of student achievements is one area in need of substantive changes. Current assessment is focused on verification to what extent the students can reproduce the contents of the textbook, mostly through tests of knowledge. This approach favours memorising on the part of students and debases the functionality of learning. The future must bring greater focus on development of models for assessment which take into account student competences (knowledge, skills and attitudes) and which reflect the goals of VET, demonstrating greater connectivity with the labour market and life in general.

All these shortcomings necessitate interventions in the initial education and training of teachers and trainers. This system needs to prepare teachers and trainers to efficiently work with young people and adults in an environment of evolving conditions for work and life. Teacher training must inevitable include training in companies, during their initial education and their work in the VET system. This requirement is especially valid for teachers responsible for practical teaching.

The new approach to pedagogy requires that appropriate support and assistance services are provided by professional institutions mandated with curriculum development and monitoring. In this sense, the capacities of the VET Centre, the AEC and the BDE need to enhanced through further building the skills of advisers for innovative curriculum development, including introduction of ECVET and distance learning programmes for adults, and for competence-based student/learner assessment.

The concept "learning organisation" stresses the need for companies and their employees to be actively involved in a dynamic process of learning as a source of and place for improving performance. This concept can ensure that teaching and learning in VET are carried out through innovative way of links and collaboration between companies and education and training providers. Promotion of team work, learning partnerships, and more extensive presence and involvement of employees in the teaching and learning processes in education institutions will to a large extent improve the quality of learning.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- From 2014 to 2020 continuously strengthen andragogical competences of teachers in secondary VET
- From 2013 to 2020 continuously enhance innovativeness and entrepreneurial spirit through training of VET teachers on learning through research
- From 2014 by 2020 continuously strengthen the competences of VET teachers for development and application of new models for developing of student competences through teaching and learning adapted to their lifestyles
- By 2015 modernise assessment in secondary VET
- By 2016 improve the quality of VET textbooks and teaching/learning resources that encourage development/acquisition of competences
- By 2016 strengthen the quality of trainers and teachers delivering practical teaching in VET
- By 2020 develop distance learning in VET
Goal C3. VET relevant for the labour market

The analysis of the labour market needs to be created through an open dialogue with the business community, as a starting point for the development of the curriculum. VET curricula are over a decade old. That is too long; things have changed greatly in the meantime. The need for new knowledge and skills, for new profiles and new technologies has changed to a large degree. It is the opinion of the business sector that the profiles produced by the VET system do not meet its needs, not only in regard to necessary skills, but also in regard to types of profiles. This directly and adversely impacts also the attractiveness of VET. In future, each syllabus needs to be aligned with the tendencies in the given vocational area and achieve high compatibility with the syllabi delivered in the education systems of EU countries.

The network of VET schools must correspond to the economic, demographic and cultural environment in which it operates. Forecasts of workforce development and skills needed should be in tune with local development and the local economy in the context of the wider economic development of the country. The planning of education profiles and skills that will be required in the future should primarily stem from local needs and development plans.

In regard to mechanisms for curriculum interventions, it is evident that the VET Centre, as institution competent for curriculum development, needs to strengthen its presence and work in the field; only through more frequent contacts with schools and employers can it find out how the curriculum functions and what are the proposals and demands of the stakeholders.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- In 2013 introduce the National Qualifications Framework in VET
- By 2018 harmonise current syllabi and curricula and study programmes in VET with the adopted NQF
- By 2015 improve the process of development and application and stakeholder involvement of the annual analysis of the labour market and necessary profiles, knowledge and skills
- By 2016 strengthen the capacities of VET Centre and ESARM for anticipation of necessary skills
- By 2016 establish a system collaboration between ESARM, VET Centre and higher education for continuing monitoring of skills needs and availability/dissemination of information on labour market needs and employability/abilities for further education of graduates
- From 2014 to 2020 continuously strengthen the relevance of VET syllabi and curricula
- From 2013 to 2020 strengthen the relevance and functionality of the network of secondary VET schools with operational plan for gradual adjustment to the needs of the local economy and development plans
- By 2015 improve the quality and relevance of practical teaching and training of students in secondary VET
- In 2013 increase the share of practical teaching and training in technical VET
- In 2013 establish mechanisms for strengthening the participation of companies in practical teaching and training of VET students

4.4 GOOD GOVERNANCE, RESOURCES, CAPACITIES AND ACCOUNTABILITY IN THE FUTURE VET SYSTEM

The operationalization of the VET Strategy and the building of the future VET system in the country is directly dependent on the systems of governance in VET, available resources, physical and human capacities of the institutions and professional bodies directly involved in VET, who should shoulder the burden of the implementation of the Strategy, as well as on the decisions for delegating competence and responsibility.

The improvement in this priority area will directly depend on the successful realisation of the following goals.

Goal D1. Improving the efficiency of the national VET governance and support framework

The institutional set-up of VET is adversely affected by insufficient capacities and lack of clarity and overlap in the real execution of the functions. Delineation of competences and of the interaction related to VET policies is of key importance in the improvement of the collaboration between the key bodies and in their accountability. Consolidation of the institutional set-up and operation should follow an appropriate analysis of the legal foundation and an assessment of its impact.

138 At the moment, education profiles in three-year VET are being revised, and standards are being developed for every profile. Educational profiles in TVET and post-secondary are out-dated and in need of revision and designing following the new methodology.

139 This conclusion was arrived at in the Evaluation of reformed four-year VET in 2010, and was confirmed through the research carried out for the needs of the Strategy.
The VET Centre lacks the necessary physical capacities in comparison with the responsibility it has for vocational education and training in the country. Conditions regarding space, equipment, materials, vehicles, IT equipment, etc., must be improved if this Centre is to provide the quality services it is expected to. In addition, the number of professional staff employed in the Centre is symbolic given the volume and nature of assignments it is expected to perform. An increase in their number is more than imperative; this increase must respect the necessity for any newly employment to follow the logic of professional competence. Also, the work of the Centre needs to be organised following criteria for establishment of goal-oriented services. In practice, this will result in establishment of institutional and individual planning and reporting procedures, which is expected to improve the institutional and individual performance and accountability. It will also help eliminate the practice of staff performing a wide spectrum of assignments, which in the present situation of understaffing is a great burden for them.

A need has also been identified for establishing a special department tasked with monitoring and tracking of the situation in vocational education and training and on the labour market. At the moment, the Centre lacks such a department or service, or a person responsible for this, for the purpose of professional execution of its tasks, necessary activity. A possible solution, in line with the latest developments in the EU e.g.: Cedefop research, Skills Panorama and other actions linked with the New Skills and New Jobs initiative) and using funding from accessible EU programme, could be the establishment of a Qualifications Council, which would establish and maintain a dynamic collaboration with the business sector and would carry out regular analyses of the relevance of the education supply to the labour market demands for qualifications / skills.

It is of paramount importance for the VET Centre to obtain financial independence from the BDE, in line with its professional autonomy. The current situation creates a multitude of problems in the operation of the VET Centre and impedes its development into an active partner in the processes of consultation, collaboration, research and implementation, as well as international collaboration and networking.

Some of the problems plaguing the VET Centre are common to the Adult Education Centre as well. Given the high expectations from this Centre in the future VET system, additional efforts need to be invested in strengthening its physical and human resources. Competence-based employments and goal-oriented services, enhancing in a similar way institutional and individual planning, reporting and accountability of this institution, and enhanced collaboration with the VET Centre are crucial for the future of this institution.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- By 2014 harmonise the domestic VET terminology with the terminology in the EU
- In 2013 strengthen the legislative support to VET and eliminate overlaps in competences of institutions and professional bodies and speed up procedures for changes in educational profiles
- By 2018 strengthen the material and human resources of the VET Centre in line with the Strategy for development of the VET Centre
- By 2018 strengthen the material and human resources of the AEC
- By 2014 establish mechanisms and instruments for improving the strategic advisory function in VET
- From 2014 to 2018 carry out activities for raising the awareness of VET clients and service providers on the work of the VET Centre and the AEC
- In 2013 improve the capacities of competent institutions for their own capacity assessment and development planning

**Goal D2. Strengthening social dialogue**

Governance in VET throughout the world operates on a multi-level and between multi-stakeholders, with the latest improvements in the legal framework of the country testify for the efforts for systematic involvement of key stakeholder communities, municipalities/local government and the relevant state bodies and agencies in VET policy.

For the country, it is especially important for the social dialogue to be enhanced in the VET governance and management processes. The role of stakeholders currently limited to use of results of the functioning of the VET system needs to expand through participation in decision-making processes and governance in VET. This will help increase the level of their accountability for the interventions in VET and their effects, and provide a broader spectrum of opportunities for their active involvement in the functioning of VET.

The participation of the business sector in management and decision-making in secondary vocational schools and in quality assurance processes requires legislative measures and development and implementation of new collaboration models and mechanisms, to aid the transformation of the business sector as a stakeholder into a partner in VET.
Successful implementation of the Strategy requires further strengthening of the legislative framework and mechanisms for implementation and effectuation of partnership incentives at all levels in order to ensure effective relations between schools, students and employers, and the expected reduction of the mismatch of qualifications and skills that adversely affect transition to employment in the country.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- By 2018 introduce the European Peer Review Model for quality assurance in secondary VET
- By 2015 establish a Council for Qualifications at the VET Centre
- By 2015 establish Occupational Councils for VET
- By 2015 establish Municipal Centres for Human Resource Development Planning (on pilot basis)
- In 2013 create conditions for improved collaboration participation of the business community in management of VET schools through legislation amendment

**Goal D3. Improving the efficiency of local VET governance and support**

Funding for the public secondary VET system is provided by the Government. Enhanced efforts are needed and recommendable for seeking out and benefiting from diverse funding sources and schemes, and mechanisms should be developed for their utilisation as “models of cost-sharing between different partners in the educational process – the state, businesses and individuals, foundations and alumni – with public investment helping to leverage private sector match-funding”[140] In the context of devolution of responsibilities, local governments should be encouraged, and on their part be interested, to secure additional resources to support local VET development, and companies “should increase investment in initial VET notably through their involvement in alternate training models, but also by supporting schools with adequate equipment”[141]. Education providers themselves should be encouraged to, and rewarded for, initiating and developing additional income generation activities, which whilst ensuring staff are remunerated and motivated for additional efforts, should also be used to improve the quality and relevance of education and training provided to all beneficiaries throughout the institution.

Similarly, it is necessary for measures to be undertaken to intensify the links between financing, strategic priorities and management of the planned changes. Change management must include mechanisms and procedures that guarantee that results from implemented activities reflect and are also assessed against planned goals. Efficient change management can be achieved through establishment of transparent goals and objectives, monitoring and evaluation of outcomes, and establishment of clear procedures for reporting achievements and mechanisms guarantee accountability for outcomes and results.

To achieve this goal, the following measures need to be undertaken and realised by 2020:

- By 2015 strengthen the capacities of VET management structures
- In 2013, through legislative amendments provide opportunity for VET schools themselves to allocate the time provided for in the syllabus for practical teaching/training according to the needs of the occupational area
- In 2013 through legislative amendments strengthening the role of local government in VET
- In 2013 through legislative amendments increase the funding from the local government to VET
- By 2018 create conditions for strengthening the financial support of the business sector to secondary VET

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141 Ibid.
5. EFFICIENT AND EFFECTIVE IMPLEMENTATION OF THE VET STRATEGY AND ACTION PLAN

The VET Strategy is part of the overall efforts of the state for strengthening its economy and improving the quality of social development. Thus, the Strategy should be viewed as an integral component of the state development plans in the coming period and as one of a number of strategies for attracting foreign aid and donations. For this to actually happen, coherent intersectoral/interagency collaboration and agreements are necessary to ensure its implementation, supported by capacity building of national VET experts. The implementation of the Strategy and the overall development of vocational education is a complex process, determined by a multitude of factors and highly dependent on the professionalism and competence of those responsible for the implementation of the planned goals and measures. Its monitoring requires pooling of capacities.

In order for the Strategy for Vocational Education and Training in a Lifelong Learning Context to be implemented efficiently and effectively, it is necessary to realise the following objectives at the very beginning of the process:

- In 2013 establish a Council for implementation of the VET Strategy
- In 2013 organise a donor conference aimed at ensuring coordination and support to the implementation of the VET Strategy and Action Plan
6. STAGES IN THE IMPLEMENTATION OF THE STRATEGY

The implementation of the Strategy and Action Plan for Vocational Education and Training in a Lifelong Learning Context will be carried out in several stages.

1. Presentation and dissemination of the VET Strategy
   This stage entails development of informational and promotional materials (slogans, posters, fliers, video presentations, dedicated website, etc.) to facilitate transparency and timely availability of information related to and/or contained in the VET Strategy. The aim is to raise awareness among VET clients and the general public on the importance of the expected outcomes and planned measures, as well to mobilize them and rally their support. This activity will be implemented through the information services of the MoES/GoM with support from the VET Centre.
   In addition, regional meetings and roundtables will be held with VET providers with participation of stakeholders, especially the business sector. The aim of these meetings is to share the vision and goals of the VET Strategy with the groups that will implement the activities and measures and will benefit from the expected outcomes. The VET Centre will be responsible for this activity. School managers, teachers and trainers, learners and other stakeholders must be timely informed and actively included in order to avoid a top-down perception of the proposed innovation and reform and strengthen the sense of ownership.

2. Establishment of a Council for monitoring the implementation of the VET Strategy
   This Council is an intersectoral body at a high decision-making level and comprises representatives of the key institutions directly responsible for respective aspects of VET, i.e. MoES, MoLSP, MoE, MoF, VET Centre and AEC, complemented by the business community. It is necessary for the members of this Council to have at their disposal the time, skills and systems necessary for performance of their assignments. The Council is tasked with coordination and monitoring of the implementation of the VET Strategy, collection of feedback from the field and maintaining links between all sectors, harmonization with respective sectoral strategies that have impact of the VET System or that the VET Strategy impacts, its review and revision (if necessary), and addressing of emerging obstacles (if any). This Council, on the basis of the goals and measures provided for in the Strategy and operationalized in the Action Plan delegates the responsibility for implementation of actions to respective institutions and/or individuals. On the basis of reports submitted by the designated implementers and based on the outcomes of the realization of the work plans for each goal and/or measure, it adopts decisions on completion, extension, revision or amendment of the interventions.
   The Council may invite representatives of key donors and other relevant international partners to its meetings and discussions.

3. Implementation of the VET Strategy
   The responsibility for this component rests with the institutions/individuals mandated with the implementation of respective goals/measures.

4. Monitoring of the implementation of the VET Strategy
   The monitoring is based on review of regular written and oral reports submitted by designated implementers to the Council. Reports are to be submitted on a quarterly basis.

5. Mid-term review of the implementation of the VET Strategy
   The Review, carried out by independent experts, will evaluate the results of the interventions half way into the implementation period, preferably in 2017. It is expected also to provide recommendations for possible amendments to the Action Plan, if any are deemed necessary, to improve the quality of interventions in the second half of the implementation period.

6. Evaluation of the implementation of the VET Strategy
   The evaluation will seek to appraise the final results and outcomes of the interventions. Under the guidance of the Council, the Evaluation will be carried out by independent experts, with logistical support from the VET Centre.
It is important to ensure that this process makes good and effective use of available EU programmes and funding in the areas of education as well as in employment, research and entrepreneurship. Moreover, capacity building opportunities accessible within the framework of EU cooperation in education and training, e.g. in the areas of quality in VET and qualifications/NQF, should be pursued and utilised.

This Strategy offers for the first time a long-term perspective for sector-wide reforms in VET and harmonization of the contribution and plans of international partners in the area of VET. The coordination between donors can be coherently structured and their interventions in and financing of VET reforms can be harmonised with the general sectoral policies and priorities set out in this Strategy. Its implementation will greatly benefit from coordinated and harmonised donor involvement and assistance. It is however, a responsibility of the institutions of the VET system to ensure preconditions for coherence and sustainability of project achievements and results.

The final outcomes and achievements of the VET Strategy will depend on the professionalism and dedication of all stakeholders mandated with implementation of its activities. Given the huge significance currently attributed to vocational education and training in the country, we expect strong support, commitment and constructive approach from all, regardless of any existing differences. The goals larger than any of us.
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ACTION PLAN

STRATEGY FOR VOCATIONAL EDUCATION AND TRAINING IN A LIFELONG LEARNING CONTEXT 2013-20

ACTION PLAN

A. VET in the function of strengthening social cohesion and social inclusion

Outcome indicators:

- Number of early school leavers decreased to 10%
- Number of persons with low skills levels and from other at risk groups who are in the process of learning and acquire skills increased
- Inclusive nature of VET schools strengthened
- Procedure for VNFIL for persons in need of certification of acquired skills developed and tested
<table>
<thead>
<tr>
<th>Goal</th>
<th>Target group</th>
<th>Measure</th>
<th>Activities</th>
<th>Output indicators</th>
<th>Responsible institution</th>
<th>Time frame</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A1. Strengthening monitoring of secondary VET early leavers</strong></td>
<td>Early school leavers</td>
<td>1. Introducing a system for monitoring VET students</td>
<td>- Develop indicators for monitoring&lt;br&gt;- Develop a software solution&lt;br&gt;- Develop rulebook on tracking&lt;br&gt;- Amend/supplement Law on VET and Law on SE in regard to tracking</td>
<td># of established indicators</td>
<td>VET Centre</td>
<td>2013</td>
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<td>2. Establishment of school-based mechanisms and practices for detection of students under risk of leaving school early</td>
<td>- Develop manual&lt;br&gt;- Train school support services&lt;br&gt;- Train VET teachers</td>
<td>Manual developed&lt;br&gt;# of trained support service members&lt;br&gt;# of trained teachers</td>
<td>VET Centre&lt;br&gt;BDE&lt;br&gt;VET schools</td>
<td>2013&lt;br&gt;2014&lt;br&gt;2014</td>
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<tr>
<td><strong>A2. Strengthening career guidance services in VET schools</strong></td>
<td>Students at risk of early leaving</td>
<td>1. Allocation/hiring of staff and their training</td>
<td>- Develop programme for guidance support to parents and students at risk of early leaving&lt;br&gt;- Train pedagogues and psychologists from VET schools</td>
<td>Programme developed&lt;br&gt;# of trained pedagogues and psychologists</td>
<td>MoES&lt;br&gt;VET Centre&lt;br&gt;BDE&lt;br&gt;Pedagogical Service&lt;br&gt;VET schools&lt;br&gt;USAID</td>
<td>2013&lt;br&gt;2014</td>
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<td></td>
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<td>3. Introducing educational mediators as additional assistance in primary education to ensure Roma students stay at school and graduate, and transition into secondary education</td>
<td>- Introduce mentoring system for supporting Roma students&lt;br&gt;- Develop manual for mentoring&lt;br&gt;- Establish criteria for meeting conditions for mentor&lt;br&gt;- Publish open call&lt;br&gt;- Select candidates for mentors&lt;br&gt;- Develop instruments and mechanisms for M&amp;E</td>
<td>Mentoring system introduced and operational&lt;br&gt;Manual developed&lt;br&gt;Criteria established and operational&lt;br&gt;Open call published&lt;br&gt;# of selected candidates&lt;br&gt; Instruments and mechanisms developed</td>
<td>MoES&lt;br&gt;BDE&lt;br&gt;MoF&lt;br&gt;MoLSP&lt;br&gt;Directorate for Communities&lt;br&gt;NGOs</td>
<td>2013&lt;br&gt;2013&lt;br&gt;2013&lt;br&gt;2014&lt;br&gt;2014&lt;br&gt;2013</td>
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<td>4. Introducing educational mediators as additional assistance in secondary VET to ensure Roma students stay at school and graduate, and transition into higher education</td>
<td>- Introduce mentoring system for supporting Roma students&lt;br&gt;- Develop manual for mentoring&lt;br&gt;- Establish criteria for meeting conditions for mentor&lt;br&gt;- Publish open call&lt;br&gt;- Select candidates for mentors&lt;br&gt;- Develop instruments and mechanisms for M&amp;E</td>
<td>Mentoring system introduced and operational&lt;br&gt;Manual developed&lt;br&gt;Criteria established and operational&lt;br&gt;Open call published&lt;br&gt;# of selected candidates&lt;br&gt; Instruments and mechanisms developed</td>
<td>MoES&lt;br&gt;VET Centre&lt;br&gt;BDE&lt;br&gt;MoF&lt;br&gt;MoLSP&lt;br&gt;Directorate for Communities&lt;br&gt;NGOs</td>
<td>2013&lt;br&gt;2013&lt;br&gt;2013&lt;br&gt;2014&lt;br&gt;2014&lt;br&gt;2013</td>
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<td></td>
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<td>2. Providing scholarships to students from socially vulnerable groups</td>
<td>- Establish criteria for awarding and keeping scholarships&lt;br&gt;- Publish open call&lt;br&gt;- Select candidates</td>
<td>Criteria established&lt;br&gt;Open call published&lt;br&gt;# of selected candidates</td>
<td>MoES&lt;br&gt;MoLSP</td>
<td>2013&lt;br&gt;2014&lt;br&gt;2014</td>
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<td>2013&lt;br&gt;2013&lt;br&gt;2013&lt;br&gt;2014&lt;br&gt;2014&lt;br&gt;2013</td>
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<td>4. Introducing educational mediators as additional assistance in secondary VET to ensure Roma students stay at school and graduate, and transition into higher education</td>
<td>- Introduce mentoring system for supporting Roma students&lt;br&gt;- Develop manual for mentoring&lt;br&gt;- Establish criteria for meeting conditions for mentor&lt;br&gt;- Publish open call&lt;br&gt;- Select candidates for mentors&lt;br&gt;- Develop instruments and mechanisms for M&amp;E</td>
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<td>MoES&lt;br&gt;VET Centre&lt;br&gt;BDE&lt;br&gt;MoF&lt;br&gt;MoLSP&lt;br&gt;Directorate for Communities&lt;br&gt;NGOs</td>
<td>2013&lt;br&gt;2013&lt;br&gt;2013&lt;br&gt;2014&lt;br&gt;2014&lt;br&gt;2013</td>
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<td>Time frame</td>
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</table>
| **A4. Supporting students with SEN** | Students with SEN | 1. Training of VET teachers for working with students with SEN in mainstream VET schools | - Develop teacher training programme for development and implementation of individual learning programmes  
- Establish training dynamics/plan  
- Train 100 teachers annually | - Training programme developed  
- Training dynamics/plan established  
- 100 teachers trained annually | VET Centre  
BDE  
University | 2013  
2013  
2014 |
|  |  | 2. Introduction of syllabi and curricula for technical qualifications for special schools for students with SEN | - Develop syllabi and curricula for technical qualifications for students with SEN | - Syllabi and curricula for technical qualifications developed | MoES  
BDE  
VET Centre  
VET schools | 2014-20 |
|  |  | 3. Improvement of physical infrastructure in mainstream VET schools for students with SEN | - Conduct analysis of necessary physical infrastructure in VET schools  
- Improve necessary physical infrastructure on the basis of results from the analysis | - Analysis conducted  
- Infrastructure improved | MoES  
BDE  
VET Centre  
Local government | 2014  
2015-6 |
| **A5. Strengthening interethnic integration and cohesion in VET** | Students and teachers from different ethnic groups | 1. Implementation of joint curricular and extracurricular activities in VET schools aimed at strengthening inter-ethnic integration and cohesion, including practical training (practical teaching, vocational practice and summer internships) | - Develop programme for curricular and extracurricular activities  
- Publish open call for supporting projects on intercultural dialogue  
- Selection of projects  
- Evaluation of effects | - Programme developed  
- Open call published  
- # of selected projects  
- # of participating VET schools  
- # of participating students  
- Participant satisfaction level  
- Intercultural dialogue improved | VET Centre  
BDE  
MoES  
SEI  
Local government | 2014  
2014  
2014  
2015-6 |
|  | Youth  Adults | 2. Delivery of short, dynamic and flexible courses for acquiring skills that respond to the needs of the labour market for youth and adults with qualifications | - Conduct analysis of the real educational needs of persons without qualifications on national and regional level  
- Establish desirable low level qualifications and/or skill sets  
- Develop ISCED 3 project  
- Develop programmes  
- Accredit programmes  
- Select training providers  
- Publish open call for training  
- Deliver training | - Analysis conducted  
- Desirable low level qualifications and/or skill sets agreed and established  
- Project developed  
- # of selected training providers  
- Open call published  
- # of persons having acquired a qualification | VET Centre  
AEC  
MoES  
ESARM  
MoLSP  
Companies | 2014  
2014  
2014  
2014  
2014  
2014  
2015-20 |

**Note:** The table above outlines the strategy for vocational education and training in a lifelong learning context for the period 2013-2020, focusing on specific goals, target groups, measures, activities, output indicators, responsible institutions, and time frames. Each row represents a distinct action plan with clear objectives and responsibilities, contributing to the overall goal of enhancing educational opportunities and workforce employability.
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>A7. Establishing a system for validation of non-formal and informal learning (VNFIL)</td>
<td>VET Centre, AEC, institutions partaking in VNFIL Persons with competences acquired through NFIL</td>
<td>1. Review on possibilities for establishing a system for VNFIL</td>
<td>■ Conduct study (SWOT) analysing the possibilities for establishing a system for VNFIL</td>
<td>■ Study conducted&lt;br&gt;■ Recommendations for system for VNFIL identified</td>
<td>VET Centre&lt;br&gt;AEC&lt;br&gt;MoES</td>
<td>2014-5</td>
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<td>2. Development of procedures, mechanisms and programmes for VNFIL within the NQF, following competence/learning outcome-based curricula and appropriate assessment procedures</td>
<td>■ Develop rulebook on procedures and mechanisms for VNFIL&lt;br&gt;■ Identify competent institutions&lt;br&gt;■ Form commissions</td>
<td>■ Rulebook developed&lt;br&gt;■ Procedures and mechanisms established&lt;br&gt;■Competent institutions identified&lt;br&gt;■ # of commissions formed</td>
<td>VET Centre&lt;br&gt;AEC&lt;br&gt;MoES&lt;br&gt;MoLSP</td>
<td>2016-8</td>
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<tr>
<td></td>
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<td>3. Implementation of the system for VNFIL</td>
<td>■ Piloting of the system for VNFIL in one occupational area (following the interest identified in the study)</td>
<td>■ System for VNFIL piloted&lt;br&gt;■ # of persons whose NFIL has been validated</td>
<td>VET Centre&lt;br&gt;AEC&lt;br&gt;ESARM</td>
<td>2018-20</td>
</tr>
</tbody>
</table>
B. Attractive vocational education and training

Outcome indicators:

- Students are capable of making informed decisions on their future career and learning
- Students at all levels have better opportunities to reach their potential and meet their needs through flexible curricula programmes and learning pathways
- Number of students considering secondary VET attractive and increased enrolment
- Local economy meets better its demand for workers
- Comprehensive post-secondary and higher VET introduced on system level
- Increased interest and enrolment in post-secondary education and training
- Key competences for LLL integrated in study programmes for initial teacher training and secondary VET curricula
- Key competences for LLL acquired and appropriately assessed in secondary VET
<table>
<thead>
<tr>
<th>Goal</th>
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<th>Responsible institution</th>
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<tbody>
<tr>
<td><strong>B1. Raising public awareness on the attractiveness and opportunities offered by VET</strong></td>
<td>VET students</td>
<td>1. Establishing optimal student workload in secondary VET</td>
<td>Revision of syllabi and curricula in secondary VET and harmonisation of student workload in secondary VET students with that in general secondary education, creating a common standard of workload</td>
<td>Syllabi and curricula in secondary VET revised</td>
<td>VET Centre BDE</td>
<td>2014</td>
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<tr>
<td></td>
<td>VET students</td>
<td>2. Revision of state matura to take into account the specificities of secondary VET</td>
<td>Conduct analysis of the relevance of the state matura concept for VET students</td>
<td>Analysis conducted</td>
<td>MoES</td>
<td>2013</td>
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<td></td>
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<td></td>
<td>Establish commission for amendments/changes in the state matura concept</td>
<td>Commission established and operational</td>
<td>VET Centre BDE SEC</td>
<td>2013</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Amend/supplement pertinent legislation</td>
<td># of laws reviewed and amended/supplemented</td>
<td>MoES Universities</td>
<td>2013</td>
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<tr>
<td></td>
<td>VET students</td>
<td>3. Revision of the possibility for enrolment into university education with school matura or final exam</td>
<td>Conduct analysis of the effects from the possibility for enrolment into university education with school matura or final exam</td>
<td>Analysis conducted</td>
<td>MoES</td>
<td>2013</td>
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<td></td>
<td></td>
<td></td>
<td>Undertake measures in line with the results of the analysis</td>
<td># of laws and rulebooks reviewed and amended/supplemented</td>
<td>MoLSK VET Centre ESARM Companies Chambers</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td>Students, parents, employers, broader public</td>
<td>4. Raising public awareness on importance and attractiveness of VET</td>
<td>Develop campaign programme</td>
<td>Programme developed</td>
<td>MoES</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Organise/carry out campaign</td>
<td>Campaign realised</td>
<td>MoLSK</td>
<td>2014</td>
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<td></td>
<td>Perceptions improved</td>
<td>VET Centre ESARM Companies Chambers</td>
<td>2014</td>
</tr>
<tr>
<td></td>
<td>VET students, VET teachers</td>
<td>5. Modernisation of equipment and laboratories in VET schools</td>
<td>Conduct analysis of needs of VET schools</td>
<td>Analysis conducted</td>
<td>MoES</td>
<td>2013-20 (ongoing)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Procure didactic equipment</td>
<td># of VET schools receiving new didactic equipment</td>
<td>VET Centre BDE Municipalities Companies</td>
<td>2014</td>
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<td></td>
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<td>Equip laboratories for practical teaching in VET schools</td>
<td># of new laboratories</td>
<td>VET schools</td>
<td>2014</td>
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<td>Amount of funds invested per year</td>
<td>Companies</td>
<td>2014</td>
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<td>Professors, university students, VET schools, companies</td>
<td>6. Increasing attractiveness of research and innovation through agreements for systematic and structured collaboration between university laboratories, new laboratories in VET schools and industry research centres</td>
<td>Sign cooperation protocols</td>
<td># of protocols</td>
<td>VET Centre</td>
<td>2013</td>
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<td></td>
<td></td>
<td></td>
<td>Publish open call for innovative projects</td>
<td>Open call published</td>
<td>Universities</td>
<td>2014</td>
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<td>Sector support by the government of the RM for development of joint innovation and research projects</td>
<td># of applications submitted</td>
<td>VET schools</td>
<td>2014</td>
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<td></td>
<td>Select applications</td>
<td># of applications accepted and finances</td>
<td>Companies</td>
<td>2014</td>
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<td>Support of government of the RM to the selected projects</td>
<td>Stakeholder satisfaction level increased</td>
<td>MoE</td>
<td>2014-5</td>
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<td>MoF Chambers</td>
<td>2014-5</td>
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<td>Goal</td>
<td>Target group</td>
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<td>Activities</td>
<td>Output indicators</td>
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</table>
| VET students | 7. Organisation of regional/ national innovation competitions for VET by occupational area | - Open call published  
- # of received proposals  
- # of accepted proposals  
- # of contestants  
- Training organised  
- # of competitions organised  
- # of prizes awarded | - VET Centre  
- VET schools  
- Business community | 2014-20 (ongoing) |
| VET students | 8. Establishment of a system for tracking processes (progression of students and work of VET schools) and outcomes (destinations of graduates) | - Establish tracking indicators  
- Develop rulebook on tracking  
- Develop software solution  
- Sign protocols for transfer of information in line with Law on Data Protection  
- Develop integrated base of quantitative and qualitative data on VET, higher education and the labour market | - MoES  
- VET Centre  
- MoLSP | 2016-8 |
| VET students | 1. Development and implementation of methodology for revision of curricula following the principles of outcome/ competence based learning and modularisation | - Develop methodology syllabus and curriculum development based on competences/learning outcomes and modularisation  
- Train advisers from VET Centre, BDE and AEC, VET providers, teachers, companies  
- Develop new syllabi and programmes  
- Accreditation of the new syllabi and programmes | - VET Centre  
- BDE  
- AEC  
- Chambers | 2014–6 |
| Advisers from the VET Centre, BDE and AEC, VET providers, teachers, companies | 2. Completion of the process of development of standards of occupations and curricula for 2-y., 3-y. and 4-y. VET | - Complete standards of occupations for 2-y. VET  
- Complete standards of occupations for 3-y. VET  
- Develop standards of occupations for 4-y. VET  
- Complete curricula for 2-y. VET  
- Complete curricula for 3-y. VET  
- Develop curricula for 4-y. VET | - VET Centre  
- MoES  
- Business community  
- BDE | 2013-4  
2013-4  
2014-5  
2013-4  
2013-4  
2014-5 |
| VET students | 3. Review of the network of career centres in VET schools | - Conduct analysis of the work of career centres existing in VET schools  
- Insight in work of centres available | - MoES  
- VET Centre | 2014 |
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<tr>
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<tbody>
<tr>
<td>VET students</td>
<td>4. Opening of new career centres in VET schools</td>
<td>Establishment of 51 career centres in VET schools</td>
<td>51 career centres established and operational</td>
<td>MoES VET Centre BDE USAID</td>
<td>2013-5</td>
<td></td>
</tr>
<tr>
<td>VET students</td>
<td>5. Provision of career guidance to VET students and information on career opportunities</td>
<td>Training of delegated/appointed teachers for work in the centres</td>
<td># of trained teachers</td>
<td>MoES VET Centre BDE USAID</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td>Primary school students</td>
<td>6. Establishment of mechanisms for provision of information and career guidance to primary school students, acquainting them with career possibilities</td>
<td>Develop manual for career guidance</td>
<td>Manual developed</td>
<td>MoES BDE VET Centre</td>
<td>2013-4</td>
<td></td>
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<tr>
<td>VET students</td>
<td>7. Introduction of apprenticeship as a model for practical training in secondary VET</td>
<td>Conduct study to analyse possibilities for introducing apprenticeship in secondary VET</td>
<td>Study conducted</td>
<td>VET Centre Social partners, esp. crafts chambers</td>
<td>2014</td>
<td></td>
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<tr>
<td>Persons without qualifications</td>
<td>8. Introduction of apprenticeship as a model combining training and practical work as a practice leading to a recognised qualification in line with current ALM, skills training and other forms of non-formal training</td>
<td>Conduct Study to analyse possibilities for introducing the Apprenticeship model</td>
<td>Study conducted</td>
<td>MoES MoLSP VET Centre ESARM AEC VET providers</td>
<td>2014</td>
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<td>9. Revision of laws, bylaws, procedures and programmes for post-secondary education in accordance with the Concept for Post-secondary Education and the NQF (level 5 of the EQF or higher)</td>
<td>Unemployed and employed graduates, other groups at risk</td>
<td>Develop rulebook on levels and qualifications in post-secondary education</td>
<td>Rulebook developed</td>
<td>MoES, VET Centre</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Establish commission (1) for amendments and supplements to the Laws on VET and HE (level 5 of the EQF or higher)</td>
<td>Commission (1) established # of amendments and supplements to the laws</td>
<td>MoES, VET Centre, MoLSP, Companies Civil society</td>
<td>2014</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Establish commission (2) for amendments and supplements to by-laws regulating licencing and accreditation of training providers</td>
<td>Commission (2) established # of amendments and supplements to the by-laws</td>
<td>MoES, VET Centre, MoLSP, Companies Civil society</td>
<td>2014</td>
<td></td>
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<td></td>
<td></td>
<td>Develop programmes for post-secondary education</td>
<td># of developed programmes # of licenced institutions # of accredited programmes</td>
<td>MoES, VET Centre, MoLSP, Companies Civil society</td>
<td>2015</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Licence institutions and accredit programmes for post-secondary education</td>
<td># of developed programmes # of licenced institutions # of accredited programmes</td>
<td>MoES, VET Centre, MoLSP, Companies Civil society</td>
<td>2015</td>
<td></td>
</tr>
<tr>
<td>10. Enhancing mobility of VET teachers, trainers and students through international cooperation, learning and work in partner VET schools and companies, including practical training (practical teaching, vocational practice and summer internships abroad)</td>
<td>Teachers, trainers, managers, students</td>
<td>Develop school applications for opportunities offered by the NAEEPM</td>
<td># of developed applications # of accepted applications for EU structural funds</td>
<td>NAEEPM, VET schools, MoES</td>
<td>2013-20</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td>Develop applications for accessible EU structural funds</td>
<td># of developed applications # of accepted applications for EU structural funds</td>
<td>NAEEPM, VET schools, MoES</td>
<td>(ongoing)</td>
<td></td>
</tr>
<tr>
<td>11. Establishment of the national Europass Centre</td>
<td>Teachers, trainers, managers, students</td>
<td>Amend/supplement relevant existing laws to ensure legal framework for the operation of the centre</td>
<td># of amendments/supplements to existing laws National Europass Centre open # of employed persons Rulebook developed Europass documents accessible to the public also in printed form</td>
<td>MoES, NAEPPM</td>
<td>2013-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select location for the centre</td>
<td>National Europass Centre open # of employed persons Rulebook developed Europass documents accessible to the public also in printed form</td>
<td>MoES, NAEPPM</td>
<td>2013-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Employ staff at the centre</td>
<td># of employed persons Rulebook developed Europass documents accessible to the public also in printed form</td>
<td>MoES, NAEPPM</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Develop rulebook for the work of the centre</td>
<td>Rulebook developed Europass documents accessible to the public also in printed form</td>
<td>MoES, NAEPPM</td>
<td>2014</td>
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<tr>
<td></td>
<td></td>
<td>Implement Europass documents at national level</td>
<td>Rulebook developed Europass documents accessible to the public also in printed form</td>
<td>MoES, NAEPPM</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td>12. Establishment of the national Eurydice Office within the NAEEPM</td>
<td>Teachers, trainers, managers, students</td>
<td>Amend/supplement relevant existing laws to ensure legal framework for the operation of the office</td>
<td># of amendments/supplements to existing laws National Eurydice Office open Two persons with relevant qualifications employed # of instruments and mechanisms developed # of comparative analyses and thematic reports carried out</td>
<td>MoES, NAEPPM</td>
<td>2013-4</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Develop rulebook for the work of the office</td>
<td>National Eurydice Office open Two persons with relevant qualifications employed # of instruments and mechanisms developed # of comparative analyses and thematic reports carried out</td>
<td>MoES, NAEPPM</td>
<td>2013-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Employ additional staff at the NAEEPM</td>
<td>National Eurydice Office open Two persons with relevant qualifications employed # of instruments and mechanisms developed # of comparative analyses and thematic reports carried out</td>
<td>MoES, NAEPPM</td>
<td>2014</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Develop instruments and mechanisms for collecting, creating and disseminating relevant statistical education-related data</td>
<td># of instruments and mechanisms developed # of comparative analyses and thematic reports carried out</td>
<td>MoES, NAEPPM</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Collect data</td>
<td># of comparative analyses and thematic reports carried out</td>
<td>MoES, NAEPPM</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carry out comparative analyses and thematic reports</td>
<td># of comparative analyses and thematic reports carried out</td>
<td>MoES, NAEPPM</td>
<td>2015-20</td>
<td></td>
</tr>
<tr>
<td>Goal</td>
<td>Target group</td>
<td>Measure</td>
<td>Activities</td>
<td>Output indicators</td>
<td>Responsible institution</td>
<td>Time frame</td>
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</tbody>
</table>
| B3. Developing key competences for lifelong learning – visa for the future | Future secondary VET teachers | 1. Revision of study programmes for initial education of VET teachers to integrate key competences for LLL | - Adopt regulation for mandatory integration of key competences for LLL in the study programmes for initial education of VET teachers  
- Revise study programmes  
- Accredit study programmes | - Regulation adopted  
- # of revised study programmes  
- # of accredited study programmes | MoES  
HEAEB  
Universities | 2013  
2014-5  
2014-5 |
| Advisers from VET Centre, BDE, AEC, teachers, experts | 2. Revision of secondary VET curricula to include key competences for LLL and career management skills | - Adopt regulation for mandatory integration of key competences for LLL and career management skills in secondary VET  
- Revise secondary VET curricula | - Regulation adopted  
- # of revised curricula for secondary VET | MoES  
VET Centre  
BDE  
AEC | 2013  
2014-5 |
| VET teachers | 3. Training of VET teachers in development of key competences for LLL and career management skills in curricular and extracurricular activities | - Develop training programme  
- Select trainers  
- Train at least 100 VET teachers annually  
- Carry out analysis and evaluation of effects | - Programme developed  
- # of selected trainers  
- # of trained teachers  
- Insight into effects provided | VET Centre  
BDE | 2014  
2014  
2014-8  
2018 |
| VET teachers and students | 4. Introduction/strengthening of entrepreneurial learning that enhances self-confidence, critical thinking, creativity, economic and financial literacy, knowledge of the world of labour, communication skills, etc. | - Implement activities planned for in the Strategy for entrepreneurial learning in VET schools | - Activities implemented pursuant to set dynamics/plan  
- Improved entrepreneurial skills/ knowledge | MoES  
VET Centre  
BDE | 2014-20 |
C. Quality and relevance – guarantee for competitiveness

Outcome indicators:

- Quality in VET regularly monitored and improved with stakeholder participation
- Quality of teaching and learning improved
- Availability of information on labour market needs and quality and relevance of teaching and learning improved
- Quality of practical skills acquired by VET students improved
- Mismatch between skills needs and educational supply decreased
- Cooperation between the business sector and VET providers improved
- Employer satisfaction with relevance of skills and competences of graduates increased
<table>
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<tr>
<th>Goal</th>
<th>Target group</th>
<th>Measure</th>
<th>Activities</th>
<th>Output indicators</th>
<th>Responsible institution</th>
<th>Time frame</th>
</tr>
</thead>
</table>
| **C1. Quality assurance** | VET schools, municipalities, companies | 1. Defining a system and framework for quality assurance in VET, which integrates internal and external mechanisms and involves stakeholders, in line with EQAVET | - Carry out broad consultation with stakeholders on system for OK in VET  
- Develop and adopt a rulebook on introducing a system for OK on VET level | - Broad consultation carried out  
- Rulebook developed and adopted  
- System defined | MoES  
VET Centre  
SEI  
SEC  
Chambers | 2014 |
| VET schools | 2. Redefining indicators and procedures for quality assurance in VET, in line with EQF, EQARF and NQF | - Development and adoption of new general indicators for monitoring quality adapted to the specificities of VET | - # of adopted general indicators | VET Centre  
SEI  
BDE  
MoES | 2013 |
| VET schools, companies for vocational practice and summer internships | 3. Developing instrument and mechanism for monitoring and control of the delivery of practical training | - Develop and adopt rulebook on monitoring the delivery of practical training  
- Training of SEI inspectors for monitoring practical training | - Rulebook developed and adopted  
- # of trained inspectors | VET Centre  
SEI | 2014 |
| VET teachers | 4. Establishment of a system for professional and career development of teachers and trainers in secondary VET | - Develop rulebook on career advancement defining competences at different levels (initial, apprentice, career advancement stages) of teachers and trainers in secondary VET  
- Amend/supplement Law on VET  
- Establishing remuneration system | - Rulebook developed  
- # of provisions in Law on VET amended/supplemented  
- Remuneration system established | MoES  
VET Centre  
BDE | 2013 |
| SEI inspectors | 5. Didactical training of SEI inspectors | - Deliver four cycles on pedagogical-didactical and andragogical training of SEI inspectors | - Four cycles of training carried out  
- # of training events  
- # of trained inspectors | SEI  
VET Centre  
BDE  
University | 2013-5  
2013-4 |
| Students aged 15 | 6. On-going participation of RM in international assessments of quality of education (PISA) | - Participation in PISA | - Improved results in PISA | MoES  
VET Centre  
SEC  
BDE | 2013-20 |
| Employed | 7. Strengthening the technological competences of the employed in all strategic sectors defined in the Strategy for promotion of export 2011 | - Organise in-depth and detailed technical training in all strategic sectors defined in the Strategy for promotion of export 2011 | - # of organised training events  
- # of learners trained  
- Improved competences of the employed  
- Level of satisfaction of learners/stakeholders | MoES  
MoLSP  
MoE | 2013-20 |
<table>
<thead>
<tr>
<th>Goal</th>
<th>Target group</th>
<th>Measure</th>
<th>Activities</th>
<th>Output indicators</th>
<th>Responsible institution</th>
<th>Time frame</th>
</tr>
</thead>
</table>
- Develop programme for andragogical qualification of secondary VET teachers who work with adults learners  
- Licence institutions and accredit programmes for andragogical qualification  
- Publish Open call for andragogical qualification  
- Deliver training | - Rulebook developed  
- Programme developed  
- # of licenced institutions  
- # of accredited programmes  
- Open call published  
- # of applying and of accepted candidates  
- # of training events  
- # of trained teachers | MoES  
Universities  
HEAEB | 2013  
2013  
2014  
2014  
2014-20 |
| VET teachers                                                        | 2. Enhancement of innovativeness and entrepreneurial spirit through training of VET teachers on learning through research | - Develop training programme  
- Develop Manual for enhancing innovativeness and entrepreneurial spirit in VET teaching  
- Train 100 VET teachers annually | - Programme developed  
- Manual developed  
- # of training events  
- # of trained teachers  
- Innovativeness and entrepreneurial spirit in teaching enhanced | VET Centre  
BDE | 2013  
2013  
2013-20 |
| VET teachers                                                        | 3. Strengthening the competences of VET teachers for development and application of new models for developing student competences through teaching and learning adapted to their lifestyles | - Develop training programme  
- Develop manual for application of new models of teaching and learning in VET  
- Train 100 VET teachers annually | - Programme developed  
- Manual developed  
- # of training events  
- # of trained teachers  
- Improved application of new models of teaching and learning | VET Centre  
BDE | 2014  
2014  
2014-20 |
- Develop rulebook on assessment based on competences/learning outcomes in secondary VET  
- Train of 100 VET teachers annually | - By-laws revised/amended  
- Rulebook developed  
- # of training events  
- # of trained teachers  
- Improved assessment of competences | VET Centre  
BDE  
SEC  
SEI  
MoES | 2013  
2013  
2013  
2013  
2014-20 |
| VET teachers and students                                           | 5. Improving the quality of VET textbooks and teaching/learning resources that encourage development/acquisition of competences | - Develop methodology for writing textbooks for vocational subjects  
- Publish open call for textbooks  
- Select submitted manuscripts  
- Print new textbooks | - Guidebook revised  
- Open call published  
- # of received manuscripts  
- # of new textbooks | MoES  
VET Centre  
BDE  
Pedagogical Service | 2014  
2014  
2014  
2014-5 |
<table>
<thead>
<tr>
<th>Goal</th>
<th>Target group</th>
<th>Measure</th>
<th>Activities</th>
<th>Output indicators</th>
<th>Responsible institution</th>
<th>Time frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Strengthening the quality of trainers and teachers delivering practical teaching in secondary VET</td>
<td>VET teachers and trainers, companies</td>
<td>Publish open call for companies that can train trainers and teachers for practical teaching</td>
<td>Open call published</td>
<td>MoES</td>
<td>2014-5</td>
<td></td>
</tr>
<tr>
<td>7. Developing distance learning in VET</td>
<td>Unemployed and employed graduates, other groups at risk</td>
<td>Develop rulebook on distance learning in VET</td>
<td>Rulebook developed</td>
<td>MoES</td>
<td>2016-20</td>
<td></td>
</tr>
<tr>
<td>1. Introducing national qualifications framework (NQF) in VET</td>
<td>VET clients and institutions</td>
<td>Complete the process for development of NQF</td>
<td>NQF completed and adopted</td>
<td>MoES</td>
<td>2013</td>
<td></td>
</tr>
<tr>
<td>2. Harmonising current syllabi and curricula and study programmes in VET with the adopted NQF</td>
<td>VET providers</td>
<td>Develop guidebook for harmonising syllabi and curricula and study programmes with the NQF</td>
<td>Guidebook developed</td>
<td>MoES</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td>3. Developing a new methodology for conducting the annual analysis of the labour market and improving the relevance of the required profiles, knowledge and skills</td>
<td>Business sector</td>
<td>Develop indicators for analysis of the labour market</td>
<td># of indicators developed</td>
<td>MoLSP</td>
<td>2014</td>
<td></td>
</tr>
</tbody>
</table>

**C3. VET relevant for the labour market**

- **1. Introducing national qualifications framework (NQF) in VET**
  - Complete the process for development of NQF
  - NQF completed and adopted
  - Responsible institutions: MoES, VET Centre, SEC, AEC, ESARM, MoLSP, Companies
  - Time frame: 2013

- **2. Harmonising current syllabi and curricula and study programmes in VET with the adopted NQF**
  - Develop guidebook for harmonising syllabi and curricula and study programmes with the NQF
  - Revision of syllabi and curricula and study programmes in accordance with NQF
  - Accreditation of new syllabi and curricula and study programmes
  - Responsible institutions: MoES, VET Centre, BDE, Universities, VET schools

- **3. Developing a new methodology for conducting the annual analysis of the labour market and improving the relevance of the required profiles, knowledge and skills**
  - Develop indicators for analysis of the labour market
  - Develop rulebook on Analysis of the labour market
  - Responsible institutions: MoLSP, VET Centre, ESARM, MoES, Chambers, Companies
  - Time frame: 2014
<table>
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<tr>
<th>Goal</th>
<th>Target group</th>
<th>Measure</th>
<th>Activities</th>
<th>Output indicators</th>
<th>Responsible institution</th>
<th>Time frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Strengthening of capacities of VET Centre and ESARM for anticipation of needed skills</td>
<td>VET Centre, ESARM</td>
<td>Participate in Component I (Foresight) of the ETF FRAME project</td>
<td>Foresight exercise carried out</td>
<td>VET Centre ESARM</td>
<td>2013</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Train VET Centre and ESARM staff in anticipation of needed skills</td>
<td># of training events</td>
<td>2014-5</td>
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<td></td>
<td></td>
<td></td>
<td># of trained staff</td>
<td></td>
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<tr>
<td>5. Establishment of collaboration system between ESARM, VET Centre and higher education for continuing monitoring of skills needs and availability/dissemination of information on labour market needs and employability/abilities for further education of graduates</td>
<td>VET clients</td>
<td>Develop mechanisms for regular easy access to information on knowledge and skills needed at the labour market</td>
<td>Mechanisms developed</td>
<td>MoES VET Centre ESARM Universities</td>
<td>2014-5</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Develop mechanisms for regular easy access to information on transition of graduates to the labour market and further education</td>
<td>Information on knowledge and skills needed on the labour market easily accessible</td>
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<td></td>
<td></td>
<td></td>
<td>Information on transition of graduates to the labour market and further education easily accessible</td>
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<tr>
<td>6. Strengthening the relevance of secondary VET syllabi and curricula</td>
<td>VET Centre, VET schools, companies</td>
<td>Develop concept for technical secondary VET</td>
<td>Concept developed</td>
<td>VET Centre BDE ESARM Chambers</td>
<td>2013-14</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Prepare methodology for development of syllabi and curricula, embedding mechanisms for greater compatibility with those followed in the EU</td>
<td>Methodology developed</td>
<td></td>
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<tr>
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<td></td>
<td>Revise existing syllabi and curricula and harmonising them with the needs of the labour market for new profiles and skills</td>
<td>Compatibility with EU curricula increased</td>
<td>2014</td>
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<tr>
<td></td>
<td></td>
<td>Develop new syllabi and curricula for new profiles needed at the labour market</td>
<td># of revised syllabi and curricula</td>
<td>2014-20 (ongoing)</td>
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<tr>
<td></td>
<td></td>
<td>Accredit the new syllabi and curricula</td>
<td># of developed and accredited new syllabi and curricula</td>
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<td>2014-20</td>
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<td>2014-20</td>
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<td>2014-20</td>
<td></td>
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<tr>
<td>7. Strengthening the relevance and functionality of the network of secondary VET schools with operational plan for gradual adjustment to the needs of the local economy and development plans</td>
<td>VET schools, companies, local government</td>
<td>Develop study on the relevance and functionality of the VET school network</td>
<td>Study developed</td>
<td>MoES MoLSP MoE</td>
<td>2013</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Develop operational plan for gradual adjustment of the network to the needs of the local economy and development plans</td>
<td>Operational plan developed</td>
<td>VET Centre Municipalities</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td># of VET schools where adjustments are made</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Level of satisfaction of local companies and government</td>
<td>2014</td>
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<td></td>
<td></td>
<td>Level of satisfaction of students</td>
<td></td>
<td>2016-20</td>
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<tr>
<td>Goal</td>
<td>Target group</td>
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<td>Activities</td>
<td>Output indicators</td>
<td>Responsible institution</td>
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<tr>
<td>VET students, companies</td>
<td>8. Improving the quality and relevance of practical teaching and training of students in secondary VET</td>
<td>Conduct analysis on necessary resources to establish a voucher-based training fund</td>
<td>Analysis conducted</td>
<td>MoES</td>
<td>2013</td>
<td></td>
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<td></td>
<td></td>
<td>Establish training fund alternatively</td>
<td>Training fund established alternatively</td>
<td>MoLSP</td>
<td>2014</td>
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<td></td>
<td></td>
<td>Conduct analysis on opportunities for introducing levy-grant scheme model for practical training</td>
<td>Analysis conducted</td>
<td>2013</td>
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<tr>
<td></td>
<td></td>
<td>Form levy-grant scheme fund for training</td>
<td>Levy-grant scheme for training established</td>
<td>2014</td>
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<tr>
<td></td>
<td></td>
<td>Analysis conducted</td>
<td>Resources for practical training increased</td>
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<td></td>
<td>Amount of funds allocated annually</td>
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<td></td>
<td></td>
<td></td>
<td># of companies participating</td>
<td></td>
<td></td>
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<tr>
<td>VET schools students in 4-y. VET</td>
<td>9. Strengthening practical teaching and training in technical VET</td>
<td>Amend the concept and syllabi for VET to increase the time allotted to practical training in technical VET to 30%</td>
<td>Concept and syllabi amended</td>
<td>MoES</td>
<td>2013</td>
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<tr>
<td></td>
<td></td>
<td>Time allotted to practical training in technical VET increased to 30%</td>
<td>Time allotted to practical training increased to 30%</td>
<td>VET Centre</td>
<td></td>
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<tr>
<td>VET schools students in 4-y. VET</td>
<td>10. Strengthening the participation of companies in practical teaching and training of students</td>
<td>Amend Law on VET to create opportunities for companies to participate in the formulation of the student's grade in practical teaching</td>
<td>Law on VET amended</td>
<td>MoES</td>
<td>2013</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Companies participate in the formulation of the student's grade in practical teaching</td>
<td>Companies participate in the formulation of the student's grade in practical teaching</td>
<td>VET Centre</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
D. Good governance, resources, capacities and accountability in the future VET system

Outcome indicators:

- Professional bodies responsible for VET and adult education improve their performance
- Coordination and cooperation in VET improved
- Social dialogues strengthened
- Planning and reporting in VET improved
- Resources and management of VET schools improved
- Role of local government in VET strengthened
- Monitoring of implementation of VET Strategy ensured
<table>
<thead>
<tr>
<th>Goal</th>
<th>Target group</th>
<th>Measure</th>
<th>Activities</th>
<th>Output indicators</th>
<th>Responsible institution</th>
<th>Time frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1. Improving the efficiency of the national VET governance and support framework</td>
<td>VET clients</td>
<td>1. Harmonisation of the VET terminology with the EU terminology</td>
<td>- Develop terminological glossary</td>
<td>Terminological glossary developed</td>
<td>VET Centre, BDE, AEC, MoES</td>
<td>2013-4</td>
</tr>
<tr>
<td></td>
<td>VET providers, VET clients</td>
<td>2. Strengthening of the legislative support to VET and elimination of overlaps in competences of institutions and professional bodies and speeding up procedures for changes in educational profiles</td>
<td>- Amend/supplement the Law on VET</td>
<td>Law on VET amended/supplemented</td>
<td>MoES</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Amend/supplement the Law on SE</td>
<td>Law on SE amended/supplemented</td>
<td>VET Centre</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Amend/supplement the Law on BDE</td>
<td>Law on BDE amended/supplemented</td>
<td>BDE</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Amend/supplement the Law on SEI</td>
<td>Law on SEI amended/supplemented</td>
<td>VET Centre</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Speed up procedures for changes in educational profiles</td>
<td>Procedures for changes in educational profiles improved</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>VET Centre</td>
<td>3. Strengthening material and human resources of the VET Centre</td>
<td>- Improve the physical infrastructure of the VET Centre</td>
<td>Infrastructure improved</td>
<td>VET Centre</td>
<td>2013-8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Increase the number of staff in line with the adopted strategy for development of the VET Centre</td>
<td># of new employments</td>
<td></td>
<td>2013-5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Establish a separate budget line for the VET Centre</td>
<td>Separate budget line established</td>
<td></td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td>AEC</td>
<td>4. Strengthening of material and human resources of the AEC</td>
<td>- Improve the physical infrastructure of the AEC</td>
<td>Infrastructure improved</td>
<td>AEC</td>
<td>2013-8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Increase the number of staff in the AEC (with goal oriented job descriptions)</td>
<td># of new employments</td>
<td></td>
<td>2013-5</td>
</tr>
<tr>
<td></td>
<td>VET Council, AE Council</td>
<td>5. Improving the strategic advisory function in VET</td>
<td>- Merge the VET Council and the Adult Education Council</td>
<td>New structure established</td>
<td>MoES</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Amend/supplement the Laws on VET and AE</td>
<td>Laws on VET and AE amended and supplemented</td>
<td>VET Centre</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Allocate material and financial resources for the work of the Council</td>
<td>Material and financial resources secured</td>
<td>AEC</td>
<td>2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Amount of allocated resources per year</td>
<td></td>
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<tr>
<td></td>
<td>VET providers, VET clients</td>
<td>6. Raising the awareness of VET clients and service providers on the work of the VET Centre and the AEC</td>
<td>- Organise VET festival</td>
<td>Festival organised</td>
<td>VET Centre</td>
<td>2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Develop marketing materials</td>
<td># of marketing materials</td>
<td>AEC</td>
<td>2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Organise regional meetings between VET Centre and AEC and local authorities and VET providers</td>
<td># of regional meetings</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td># of participants at the meetings</td>
<td></td>
<td>2014-8</td>
</tr>
<tr>
<td>Goal</td>
<td>Target group</td>
<td>Measure</td>
<td>Activities</td>
<td>Output indicators</td>
<td>Responsible institution</td>
<td>Timeframe</td>
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</tr>
<tr>
<td>MoES, MoLSP</td>
<td>7. Improving the capacities of competent institutions for their own capacity assessment and development planning</td>
<td></td>
<td>Participate in Component II (Institutional capacity assessment) of the ETF FRAME project</td>
<td>Carried out</td>
<td>MoES</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Results taken into account in the process of planning of IPA II</td>
<td></td>
<td>MoE, MoLSP</td>
<td></td>
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<td></td>
<td></td>
<td>VET Centre, AEC, BDE, ESARM</td>
<td></td>
</tr>
<tr>
<td>D2. Strengthening social dialogue</td>
<td>VET schools, stakeholders</td>
<td>1. Introducing European peer review (EPR) model for quality assurance in secondary VET</td>
<td>Develop and adopt rulebook on implementation of the EPR model</td>
<td>Rulebook developed and adopted</td>
<td>VET Centre</td>
<td>2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Develop and adapt manuals and resource materials</td>
<td>Manuals and resource materials developed/adapted</td>
<td>MoES</td>
<td>2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pilot the EPR model in six VET schools</td>
<td># of pilot VET schools</td>
<td>MoLSP</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Evaluate the pilot</td>
<td># of EPR evaluations carried out</td>
<td>Chambers municipalities</td>
<td>2016-8</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Apply the EPR model in all VET schools</td>
<td>Findings and lessons learned available</td>
<td></td>
<td>2016-8</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EPR institutionalised/scaled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VET providers, business sector</td>
<td>2. Establishing Council for Qualifications</td>
<td></td>
<td>Develop rulebook for the work of the council</td>
<td>Rulebook developed</td>
<td>MoES</td>
<td>2014</td>
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<td></td>
<td></td>
<td></td>
<td>Establish the council</td>
<td>Council established</td>
<td>MoE</td>
<td>2014</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Develop programme for the work of the council</td>
<td>Programme developed</td>
<td>MoLSP</td>
<td>2014</td>
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<td></td>
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<td></td>
<td>VET Centre, AEC, BDE</td>
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<td></td>
<td>Universities</td>
<td></td>
</tr>
<tr>
<td>VET Centre, VET providers, business sector, local government</td>
<td>3. Establishing occupational councils</td>
<td></td>
<td>Develop rulebook for the work of the councils</td>
<td>Rulebook developed</td>
<td>MoES</td>
<td>2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Delegate representatives of stakeholders for each occupation</td>
<td># of delegated representatives</td>
<td>National Council</td>
<td>2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Establish 14 councils (for each occupational area)</td>
<td># of established and operational councils</td>
<td>VET Centre</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Work of councils</td>
<td># of meetings per council per year</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Information on occupation-related skills needs available</td>
<td></td>
<td>2014-20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Companies participate in syllabi/curricula development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unemployed and employed graduates, other groups at risk</td>
<td>4. Establishing municipal centres for human resource development planning</td>
<td></td>
<td>Prepare study on municipal centres</td>
<td>Study prepared, findings available</td>
<td>MoES</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Create pilot centres in three municipalities</td>
<td>Three pilot centres created</td>
<td>MoLSP</td>
<td>2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td># of activities carried out</td>
<td>ZELS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td># of beneficiaries served</td>
<td>VET Centre</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HRD at local level improved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VET schools chambers</td>
<td>5. Improved collaboration and participation of companies in management of VET schools</td>
<td></td>
<td>Amend/supplement Law on SE and Law on VET to give the representative of local companies in the School Board the right to vote</td>
<td>Laws on SE and VET amended/supplemented</td>
<td>MoES</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Companies have right to vote on the School Board</td>
<td></td>
<td>VET Centre</td>
<td></td>
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<td></td>
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<td></td>
<td>Chambers</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>VET schools</td>
<td></td>
</tr>
<tr>
<td>Goal</td>
<td>Target group</td>
<td>Measure</td>
<td>Activities</td>
<td>Output indicators</td>
<td>Responsible institution</td>
<td>Time frame</td>
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</tr>
</tbody>
</table>
| D3. Improving the efficiency of local VET governance and support | Managers of public and private VET providers, VET Centre, AEC | 1. Strengthening the capacities of management in VET | • Develop training programme  
• Train managers of VET providers on outcome-based planning  
• Monitor change  
• Introduce new module relations with the business community and local government into the programme for preparation and exam for secondary school director | • Programme developed  
• # of training events  
• # of trained managers  
• Improved change monitoring  
• Programme and examination for director revised and improved | MoES  
VET Centre  
SEI  
BDE | 2013-14 |
| | VET students | 2. Providing opportunity to VET schools to allocate the time provided for in the syllabus for practical teaching/training according to the needs of the occupational area | • Amend/supplement Law on VET | • Law on VET amended/supplemented  
• VET schools plan their practical teaching/training individually | MoES  
VET Centre  
Companies | 2013 |
| | ZELS, local government | 3. Strengthening the role of local government in VET | • Prepare study on situation and potentials for strengthening the role of local government in VET | • Study prepared  
• Possibilities/potentials established  
• Role of local government strengthened | MoES  
MoLSP  
ZELS | 2013-4 |
| | ZELS, local government | 4. Increasing the funding from the local government in VET | • Revise laws and by-laws to enable greater involvement of local government in management and funding of local VET | • Laws/by-laws revised  
• Local government participates in management and funding of VET | MoES  
ZELS  
MoF, Ministry of Local Self-government | 2013 |
| | VET schools companies | 5. Strengthening the financial support of the business sector to secondary VET | • Develop mechanisms for participation of the business sector in funding secondary VET at local level | • Mechanisms developed  
• Business sector participates in funding secondary VET schools | MoES  
VET Centre  
Chambers | 2016-8 |
• Establish the council at the Cabinet of the President of the Government of the RM | • Programme for work of council developed  
• Council established and operational  
• Strategy and Action Plan implemented according to the agreed dynamics/plan | MoES  
MoLSP  
Cabinet of the President of the Government of the RM | 2013 |
| | Stakeholders | 2. Organising donor conference for coordination and support to the implementation of VET Strategy and Action Plan | • Develop programme  
• Secure spatial and material conditions  
• Copying/distribution of Strategy and Action Plan  
• Informing and inviting stakeholders (international institutions, embassies, foundations etc.)  
• Organisation of the donor conference | • Donor conference prepared  
• # of donors participating  
• Financial support to VET Strategy secured | Strategy Council  
MoES  
MoLSP | 2013 |
STRATEGJIA PËR ARSIM PROFESIONAL DHE TRAJNIIM NË KONTEKST TË MËSIMIT TË PËRJETSHËM 2013-20 ME PLAN AKSIONAR

SHKATHTËSI MË TË MIRA PËR NJË TË NESËRME MË TË MIRË

Pergatitur me ndihmen e Fondacionit Europian te Trainimeve.